

The background of the entire page is a composite image. The upper portion shows a dark night sky filled with stars and the bright, orange-hued band of the Milky Way galaxy. The lower portion shows a dark, winding road at night, illuminated by a few distant lights, with silhouettes of trees and hills in the background.

THE

SKY

ENGLISH 100
COMMON TOPICS

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HAMID KHAKSAR

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PERFACE

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ISLAM

Islam, major world religion promulgated by the Prophet Muhammad (pbuh) in Arabia in the 7th century CE. The Arabic term Islam, literally “surrender,” illuminates the fundamental religious idea of Islam—that the believer (called a Muslim, from the active participle of Islam) accepts surrender to the will of Allah (in Arabic, Allah: God). Allah is viewed as the sole God—creator, sustainer, and restorer of the world. The will of Allah, to which human beings must submit, is made known through the sacred scriptures, the Quran (often spelled Koran in English), which Allah revealed to his messenger, Muhammad. In Islam Muhammad is considered the last of a series of prophets (including Adam, Noah, Abraham, Moses, Solomon, and Jesus), and his message simultaneously consummates and completes the “revelations” attributed to earlier prophets.

Retaining its emphasis on an uncompromising monotheism and a strict adherence to certain essential religious practices, the religion taught by Muhammad to a small group of followers spread rapidly through the Middle East to Africa, Europe, the Indian subcontinent, the Malay Peninsula, and China. By the early 21st century there were more than 1.5 billion Muslims worldwide. Although many sectarian movements have arisen within Islam, all Muslims are bound by a common faith and a sense of belonging to a single community.

MOHAMMAD (PBUH)

Muhammad was the prophet and founder of Islam. Most of his early life was spent as a merchant. At age 40, he began to have revelations from Allah that became the basis for the Koran and the foundation of Islam. By 630 he had unified most of Arabia under a single religion. As of 2015, there are over 1.8 billion Muslims in the world who profess, "There is no God but Allah, and Muhammad is his prophet." Muhammad was born around 570, AD in Mecca (now in Saudi Arabia). His father died before he was born and he was raised first by his grandfather and then his uncle. He belonged to a poor but respectable family of the Quraysh tribe. The family was active in Meccan politics and trade.

Many of the tribes living in the Arabian Peninsula at the time were nomadic, trading goods as they crisscrossed the desert. Most tribes were polytheistic, worshipping their own set of gods. The town of Mecca was an important trading and religious center, home to many temples and worship sites where the devoted prayed to the idols of these gods. The most famous site was the Kaaba (meaning cube in Arabic). It is believed to have been built by Abraham (Ibrahim to Muslims) and his son Ismail. Gradually the people of Mecca turned to polytheism and idolatry. Of all the gods worshipped, it is believed that Allah was considered the greatest and the only one without an idol.

AFGHANISTAN

Afghanistan is a landlocked country with Iran to the west, Pakistan to the east and the Hindu Kush Mountain range running through its center. It shares a northern border with Turkmenistan, Uzbekistan and Tajikistan with one small border touching China. At 652,000 sq km (251,738.6 sq miles), it is the forty-first largest country in the world.

Afghanistan's climate is mostly arid or semi-arid and the terrain is mostly mountainous. Despite these inhospitable features, 12% of the land is arable, although only 6% is cultivated.

Overgrazing, deforestation, soil degradation, desertification, and pollution are current issues threatening Afghanistan's environment. Illegal logging and the scorched earth tactics (destruction of all resources during retreat so there is nothing left for your enemies during wartime) utilized by both the Taliban and the Soviet Union during the Soviet invasion of 1979 cut the amount of forested land from 3% (prior to 1979) to less than 1.5% today.

The Afghan government offers little incentive to promote reforestation initiatives and has minimal capacity to control or hinder the highly profitable, although illegal, timber trade. The United Nations Environmental Program estimates that over the past three decades, Afghanistan's forest cover has decreased by about 50 percent; today, forests cover only about 2 percent of Afghanistan due to war, drought and timber smuggling. In order to combat this the United Nations Development Program (UNDP) is working with the government of Afghanistan and other UN agencies to provide alternative and environmentally sustainable livelihood options to communities, including establishing Village Environment Committees and Green Generation Clubs to educate Afghans about the environment as well as improve the Afghan government's capacity to deal with these issues.

KABUL

Kabul is the capital and largest city of Afghanistan, located in the eastern section of the country. It is also a municipality, forming part of the greater Kabul Province, and divided into 22 districts. According to estimates in 2021, the population of Kabul is 4.6 million and it serves as Afghanistan's political, cultural and economical center. Rapid urbanization has made Kabul the world's 75th largest city.

Kabul is located high up in a narrow valley between the Hindu Kush mountains and bounded by the Kabul River, with an elevation of 1,790 meters (5,873 ft) making it one of the highest capitals in the world. The city is said to be over 3,500 years old, mentioned since at least the time of the Achaemenid Empire. Located at crossroads in Asia – roughly halfway between Istanbul in the west and Hanoi in the east – it is in a strategic location along the trade routes of South and Central Asia, and a key location of the ancient Silk Road. It has been part of the Achaemenids followed by the Seleucids, Mauryans, Kushans, Kabul Shahis, Saffarids, Samanids, Ghaznavids, Ghurids, Khwarazmians, Qarlughids, Khaljis, Timurids, Mughals, and Hotaks, until finally becoming part of the Afghan Durrani Empire in 1747. Kabul became the capital of Afghanistan in 1776 during the reign of Timur Shah Durrani, the son of Ahmad Shah Durrani. In the early 19th century, the British occupied the city, but after establishing foreign relations, they were compelled to withdraw all forces from Afghanistan.

Kabul is known for its historical gardens, bazaars, and palaces, well known examples being the Gardens of Babur and Darul Aman Palace. In the latter half of the 20th century, it became a stop on the hippie trail attracting tourists, while the city also gained the nickname Paris of Central Asia. This period of tranquility ended as Kabul was occupied by the Soviets in 1979, while a civil war in the 1990s between various rebel groups destroyed much of the city. From 2001, the city was occupied by a coalition of forces including NATO until August 2021 when Kabul was seized by Taliban fighters.

SKY

The sky is the appearance of the atmosphere around the surface of the planet from our point of view. We see many objects that are actually in space such as the Sun, the Moon, and stars because they are in the sky. On a clear day the sky appears blue. At night it appears. The deepness of the blue increases as we look toward the horizon, and up to the point above us.

The sky, which is made up of gas molecules, is blue because of the random scattering of sunlight by the molecules. Rayleigh scattering defines the amount of scattering of light rays. Blue light scatters much more than red, which is why the sky appears blue on a clear day. Depending on the time of day, the sky may appear different colors. At dawn or dusk the sky may appear red, orange, or even green and purple depending on how low the sun is and how close it is to night.

Other planets have skies too. Because the types of gases in their atmospheres are different, they have different sky colors. For example, the sky on Mars is red.^[1]

Many things can be seen in the sky. There are objects from space like the Sun, Moon, and stars. There are also many weather events seen in the sky. For example, these can be clouds, rain, lightning, or fog. Weather is caused by different patterns and temperatures in the atmosphere. Other things that can be seen in the sky are birds, other flying animals, and aircraft.

WATER

Water is one of the most important substances for life on earth to function. It is equally important for humans as well as animals. Water does not merely help us survive, but it is significant for our day-to-day functioning. It has numerous uses when we come to think about it. Majority of our earth is covered with water itself, but, not all of it is safe for consumption. Therefore, it makes it essential for us to utilize this transparent substance chemical wisely. Moreover, if we look at the shortage of water happening in our country, it makes it all the more important to conserve it immediately.

As we have already said that water has numerous uses, we will see where it is used. This part will most importantly help us realize the

importance of water. It will make humans aware of what absence of water in the following areas can do to human life. As India's main occupation is agriculture, water is exhaustively used here. Irrigation and cattle rearing requires a lot of water. Thus, a lot of farmers' livelihood depends on it.

Further, industries use water for various purposes. It comes in handy when cooling, manufacturing and transporting several goods.

RAIN

Rain is liquid water in the form of droplets that have condensed from atmospheric water vapor and then become heavy enough to fall under gravity. Rain is a major component of the water cycle and is responsible for depositing most of the fresh water on the Earth. It provides suitable conditions for many types of ecosystems, as well as water for hydroelectric power plants and crop irrigation.

The major cause of rain production is moisture moving along three-dimensional zones of temperature and moisture contrasts known as weather fronts. If enough moisture and upward motion is present, precipitation falls from convective clouds (those with strong upward vertical motion) such as cumulonimbus (thunder clouds) which can organize into narrow rainbands. In mountainous areas, heavy precipitation is possible where upslope flow is maximized within windward sides of the terrain at elevation which forces moist air to condense and fall out as rainfall along the sides of mountains. On the leeward side of mountains, desert climates can exist due to the dry air caused by downslope flow which causes heating and drying of the air mass. The movement of the monsoon trough, or intertropical convergence zone, brings rainy seasons to savannah climes.

The urban heat island effect leads to increased rainfall, both in amounts and intensity, downwind of cities. Global warming is also causing changes in the precipitation pattern globally, including wetter conditions across eastern North America and drier conditions in the tropics. Antarctica is the driest continent. The globally averaged annual precipitation over land is 715 mm (28.1 in), but over the whole Earth it is much higher at 990 mm (39 in). Climate classification systems such as the Köppen classification system use average annual rainfall to help differentiate between differing climate regimes. Rainfall is measured using rain gauges. Rainfall amounts can be estimated by weather radar.

Rain is also known or suspected on other planets, where it may be composed of methane, neon, sulfuric acid, or even iron rather than water.

SNOW

Snow comprises individual ice crystals that grow while suspended in the atmosphere—usually within clouds—and then fall, accumulating on the ground where they undergo further changes.^[2] It consists of frozen crystalline water throughout its life cycle, starting when, under suitable conditions, the ice crystals form in the atmosphere, increase to millimeter size, precipitate and accumulate on surfaces, then metamorphose in place, and ultimately melt, slide or sublimate away.

Snowstorms organize and develop by feeding on sources of atmospheric moisture and cold air. Snowflakes nucleate around particles in the atmosphere by attracting supercooled water droplets, which freeze in hexagonal-shaped crystals. Snowflakes take on a variety of shapes, basic among these are platelets, needles, columns and rime. As snow accumulates into a snowpack, it may blow into drifts. Over time, accumulated snow metamorphoses, by sintering, sublimation and freeze-thaw. Where the climate is cold enough for year-to-year accumulation, a glacier may form. Otherwise, snow typically melts seasonally, causing runoff into streams and rivers and recharging groundwater.

Major snow-prone areas include the polar regions, the northernmost half of the Northern Hemisphere and mountainous regions worldwide with sufficient moisture and cold temperatures. In the Southern Hemisphere, snow is confined primarily to mountainous areas, apart from Antarctica.

Snow affects such human activities as transportation: creating the need for keeping roadways, wings, and windows clear; agriculture: providing water to crops and safeguarding livestock; sports such as skiing, snowboarding, and snowmachine travel; and warfare. Snow affects ecosystems, as well, by providing an insulating layer during winter under which plants and animals are able to survive the cold.

MOUNTAIN

A mountain is an elevated portion of the Earth's crust, generally with steep sides that show significant exposed bedrock. A mountain differs from a plateau in having a limited summit area, and is larger than a hill, typically rising at least 300 meters (1000 feet) above the surrounding land. A few mountains are isolated summits, but most occur in mountain ranges.

Mountains are formed through tectonic forces, erosion, or volcanism, which act on time scales of up to tens of millions of years. Once mountain building ceases, mountains are slowly leveled through the action of weathering, through slumping and other forms of mass wasting, as well as through erosion by rivers and glaciers.

High elevations on mountains produce colder climates than at sea level at similar latitude. These colder climates strongly affect the ecosystems of mountains: different elevations have different plants and animals. Because of the less hospitable terrain and climate, mountains tend to be used less for agriculture and more for resource extraction, such as mining and logging, along with recreation, such as mountain climbing and skiing.

The highest mountain on Earth is Mount Everest in the Himalayas of Asia, whose summit is 8,850 m (29,035 ft) above mean sea level. The highest known mountain on any planet in the Solar System is Olympus Mons on Mars at 21,171 m (69,459 ft).

DESERT

A desert is a barren area of landscape where little precipitation occurs and, consequently, living conditions are hostile for plant and animal life. The lack of vegetation exposes the unprotected surface of the ground to the processes of denudation. About one-third of the land surface of the Earth is arid or semi-arid. This includes much of the polar regions, where little precipitation occurs, and which are sometimes called polar deserts or "cold deserts". Deserts can be classified by the amount of precipitation that falls, by the temperature that prevails, by the causes of desertification or by their geographical location.

Deserts are formed by weathering processes as large variations in temperature between day and night put strains on the rocks, which consequently break in pieces. Although rain seldom occurs in deserts, there are occasional downpours that can result in flash floods. Rain falling on hot rocks can cause them to shatter, and the resulting fragments and rubble strewn over the desert floor are further eroded by the wind. This picks up particles of sand and dust, which can remain airborne for extended periods – sometimes causing the formation of sand storms or dust storms. Wind-blown sand grains striking any solid object in their path can abrade the surface. Rocks are smoothed down, and the wind sorts sand into uniform deposits. The grains end up as level sheets of sand or are piled high in billowing sand dunes. Other deserts are flat, stony plains where all the fine material has been blown away and the surface consists of a mosaic of smooth stones. These areas are known as desert pavements, and little further erosion takes place. Other desert features include rock outcrops, exposed bedrock and clays once deposited by flowing water. Temporary lakes may form and salt pans may be left when waters evaporate. There may be underground sources of water, in the form of springs and seepages from aquifers. Where these are found, oases can occur.

Plants and animals living in the desert need special adaptations to survive in the harsh environment. Plants tend to be tough and wiry with small or no leaves, water-resistant cuticles, and often spines to deter herbivory. Some annual plants germinate, bloom and die in the course of a few weeks after rainfall, while other long-lived plants survive for years and have deep root systems able to tap underground moisture. Animals need to keep cool and find enough food and water to survive. Many are nocturnal, and stay in the shade or underground during the heat of the day. They tend to be efficient at conserving water, extracting most of their needs from their food and concentrating their urine. Some animals remain in a state of dormancy for long periods, ready to become active again during the rare rainfall. They then reproduce rapidly while conditions are favorable before returning to dormancy.

DIAMOND

Diamond is a form of the element carbon with its atoms arranged in a crystal structure called diamond cubic. At room temperature and pressure, another solid form of carbon known as graphite is the chemically stable form of carbon, but diamond almost never converts to it. Diamond has the highest hardness and thermal conductivity of any natural material, properties that are utilized in major industrial applications such as cutting and polishing tools. They are also the reason that diamond anvil cells can subject materials to pressures found deep in the Earth.

Because the arrangement of atoms in diamond is extremely rigid, few types of impurity can contaminate it (two exceptions being boron and nitrogen). Small numbers of defects or impurities (about one per million of lattice atoms) color diamond blue (boron), yellow (nitrogen), brown (defects), green (radiation exposure), purple, pink, orange, or red. Diamond also has relatively high optical dispersion (ability to disperse light of different colors).

Most natural diamonds have ages between 1 billion and 3.5 billion years. Most were formed at depths between 150 and 250 kilometers (93 and 155 mi) in the Earth's mantle, although a few have come from as deep as 800 kilometres (500 mi). Under high pressure and temperature, carbon-containing fluids dissolved various minerals and replaced them with diamonds. Much more recently (tens to hundreds of million years ago), they were carried to the surface in volcanic eruptions and deposited in igneous rocks known as kimberlites and lamproites. Man-made diamonds can be grown from high-purity carbon under high pressures and temperatures or from hydrocarbon gas by chemical vapor deposition (CVD).

Materials such as cubic zirconia and silicon carbide (also known as moissanite) can be used to create imitation diamonds for use in jewelry.

MOTHER

Mother is a word which fills everyone with emotions. A Mother is certainly the most important human being in everyone's life. Mother's Love for her child certainly cannot be compared with anything. Her level of forgiveness is unmatched. A Mother is capable of forgiving any wrongdoing. Mother is the most important woman in everyone's life. A mother sacrifices her happiness for her child. No one else can care for their kids the way a mother does. A Mother is great and does not need anyone like me explaining that. This essay on Mother is a small attempt to discover the greatness of a mother.

Mothers share a deep connection with their children. This connection certainly cannot be matched by anyone else. Even fathers fail to establish that type of understanding. The origins of this connection happen from infancy. Most noteworthy, a Mother can understand her infant child without communication. This certainly develops a strong emotional connection between a mother and child. This bond seems to carry into adult life. A Mother, it seems like, can always tell when we are feeling hungry.

Mothers also are the emotional backbone of the family. They support everyone's feeling in a family. Family members can certainly tell their emotions to Mothers without worry. An individual can share almost any secret with Mother. This is because Mothers have a huge level of trust with their family. Furthermore, Mothers have an extremely forgiving nature. Hence, even wrongdoing can be shared with a mother.

BROTHER

My brother Walter Lopez, a man Who is twenty-two years old with no children and single. He grew up in El Salvador, San Salvador with my dad, grandma, and me. Furthermore, my brother is an amazing brother and a great person. His whole life has been hard, but he has never given up on anything. Before we arrived at The United States my brother was in the best university of El Salvador, Universidad Matias Delgado where he was majoring aeronautical engineering. Nonetheless, because we decided to come to The United States my brother was only able to complete six semesters and during that time, he had won scholarships and was the best of his class. My older brother Walter is the best brother because he is supportive, honest, strong, and hard working.

He is sincerity and truthfulness with our family and friends. My brother can be a good or bad situation, he is always honest, and he will try to do his best and do the right thing. In addition, my brother would never steal or lie, he always tries to tell the truth no matter how hard it can be. For example, some of our family members are bad people, they steal, do bad things and also cause a lot of trouble. One day my brother and I were at my grandma's house and one of my cousins stole money from my grandma. My brother saw him and when my cousin realized that my brother had seen him, my cousin told my brother that he cannot say anything to my grandma. But my brother didn't care about what my cousin had told him. When my grandma arrived home from the store, my brother told her about what my cousin had done. My grandma was very proud of my brother for his honesty.

SISTER

Sisters are a blessing for everyone in this world. Many of us have sisters whom we love unconditionally. Some have elder sisters while others have younger sisters. Nonetheless, we all are lucky to have been blessed with sisters. Through my sister essay, I will tell more about my sister and my unconditional love for her.

I have a younger sister who is five years younger than me. She is my whole world and I cannot live without her. When I first found out that I'm a big sister, I couldn't contain my happiness. I remember playing with her all day when she was an infant.

My sister used to stop crying whenever I came back from school. As she started to grow up, we became even closer. Somehow, the age gap between us started to lessen and she turned into a friend of mine.

I can share all my secrets with my younger sister. Even though she is younger than me, she does not act like it. She is a very mature girl who handles all my moods and whims accordingly.

Moreover, she is the one who makes me understand things sometimes when I cannot see them clearly. Moreover, she also makes everyone in our family laughs with her cute little antics. Everyone in my family adores her as she is the youngest member of our family.

FATHER

Father: Usually, people talk about a mother's love and affection, in which a father's love often gets ignored. A mother's love is talked about repeatedly everywhere, in movies, in shows and more. Yet, what we fail to acknowledge is the strength of a father which often goes unnoticed. Father's a blessing which not many people have in their lives. It would also be wrong to say that every father is the ideal hero for their kids because that is not the case. However, I can vouch for my father without any second thoughts when it comes to being an ideal person.

As everyone likes to believe that their father is different, so do I. Nonetheless, this conviction is not merely based on the love I have for him, but also because of his personality. My father owns a business and is quite disciplined in all aspects of life. He is the one who taught me to always practice discipline no matter what work I do.

Most importantly, he has a jovial nature and always makes my mother laugh with his silly antics even after 27 years of marriage. I completely adore this silly side of him when he is with his loved ones. He tries his best to fulfill all our wishes but also maintains the strictness when the need arises.

FRIENDSHIP

Friendship is an essential part of everyone's lives. One cannot do without friends; we must have some friends to make life easier. However, lucky are those who get true friendship in life. It is not the same as friendship. True friendship is when the person stays by you through thick and thin. Through true friendship essay, we will look at what it means and its importance. Friendship has a significant value in our lives. It is responsible for teaching us a lot of unforgettable lessons. Some are even life-changing so we must cherish friendship. It is not common to find true friendship in life.

But when you do, make sure to hold on tightly to it. True friendship teaches us how to love others who are not our family. Ultimately, our friends also become our family. A true friendship makes life easy and gives us good times.

Thus, when the going gets tough, we depend on our friends for solace. Sometimes, it is not possible to share everything with family, that is where friends come in. We can share everything with them without the fear of being judged.

Moreover, true friendship also results in good memories. You spend time with friends and enjoy it to the fullest, later on, the same moments become beautiful memories. Only a true friendship will cheer on you and help you do better in life.

LOVE

Love is the many emotions that we experienced when affection and care showed to us. It is not just romance. Love can mean many things and can vary from person to person. Honesty, care, and trust constitute love. Everyone wants to be loved. It gives them happiness and makes them feel like they matter. We love for many things, and the love we think varies throughout our lives.

Our first experience of love is at birth. The bond that we form with our parents is one of the purest. Parents love us from the moment we are born, and this love only grows stronger. They care for us and help us improve. A child always needs the warmth and love of their parents. As we grow older, we learn to become more independent and do not need our parents as much. However, they are always there when we need them, and they will ever love us. As they grow older, they need our help and attention. Moving on with our lives and forgetting about them affects them, and they feel lonely. We need to be there for them the same way they were with us.

Siblings may not always get along and fight constantly, but the love between them is the strongest. Despite all the insults and arguments, they will always defend us and keep us safe. The love between them is unspoken but still felt; the expression of love is not the way we think it to be. Though siblings may not say, "I love you," we know that they do. Grandparents shower their love for their grandkids. They also want to spend time with them and create memories, and they are there for us no matter what. They always want to see their grandchildren happy.

UNIVERSITY

The modern university is generally regarded as a formal institution that has its origin in the Medieval Christian tradition.

European higher education took place for hundreds of years in cathedral schools or monastic schools (*scholae monasticae*), in which monks and nuns taught classes; evidence of these immediate forerunners of the later university at many places dates back to the 6th century.

In Europe, young men proceeded to university when they had completed their study of the trivium—the preparatory arts of grammar, rhetoric and dialectic or logic—and the quadrivium: arithmetic, geometry, music, and astronomy.

The earliest universities were developed under the aegis of the Latin Church by papal bull as *studia generalia* and perhaps from cathedral schools. It is possible, however, that the development of cathedral schools into universities was quite rare, with the University of Paris being an exception. Later they were also founded by Kings (University of Naples Federico II, Charles University in Prague, Jagiellonian University in Kraków) or municipal administrations (University of Cologne, University of Erfurt). In the early medieval period, most new universities were founded from pre-existing schools, usually when these schools were deemed to have become primarily sites of higher education. Many historians state that universities and cathedral schools were a continuation of the interest in learning promoted by The residence of a religious community. Pope Gregory VII was critical in promoting and regulating the concept of modern university as his 1079 Papal Decree ordered the regulated establishment of cathedral schools that transformed themselves into the first European universities.

SCHOOL

A school is an educational environment where children go to learn from a teacher. Topics such as reading, writing and mathematics are central to education. Most of a student's time is spent in a classroom. This is where 10 to 30 people sit to take part in educational discussion. In the United States, the average number of students per classroom in primary schools is 23.1.^[1]

The term "school" is used for many educational environments--particularly in North America. There are different types of schools: elementary schools (primary in the UK), middle schools (secondary in the UK), and so on.

In many places around the world, children must go to school for a certain number of years. Learning may take place in the classroom, in outside environments or on visits to other places. Colleges and universities are places to learn for students over 17 or 18 years of age.^[2] Vocational schools teach skills people need for jobs.

Some people attend school longer than others. This is because some jobs require more training than others, like for example becoming a doctor takes about 10-14 years of education.^[3] For young children, one teacher may teach all subjects. Teachers for older students are more specialized, and they only teach a few subjects. Common subjects taught include science, arts such as music, humanities, like geography and history, and languages.

Children with mental health problems, and problems such as autism and other conditions, usually do not go to regular schools. These children are given other ways to get schooling, like special schools. There also are special schools which teach things which regular schools do not.

Graduate schools are for students who have graduated with a degree from colleges and universities.

CLOUDS

A cloud is water vapor in the atmosphere (sky) that has condensed into very small water droplets or ice crystals that appear in visible shapes or formations above the ground.

Water on the Earth evaporates (turns into an invisible gas) and rises up into the sky. Higher up where the air is colder, the water condenses: it changes from a gas to drops of water or crystals of ice. We see these drops of water as clouds. The drops fall back down to earth as rain, and then the water evaporates again. This is called the "water cycle".

The atmosphere always has some water vapor. Clouds form when the atmosphere can no longer hold all the invisible air vapor.^[1] Any more water vapor condenses into very small water drops.^[1]

Warm air holds more water vapor than cool air.^[1] So if warm air with lots of water inside cools, it can form a cloud.

Clouds are heavy. The water in a cloud can have a mass of several million tons. Every cubic meter (m³) of the cloud has only about 5 grams of water in it. Cloud droplets are also about 1000 times heavier than evaporated water, so they are much heavier than air. They do not fall, but stay in the air, because there is warm air all-round the heavier water droplets. When water changes from gas to droplets, this makes heat. Because the droplets are very small, they "stick" to the warm air.

Sometimes, clouds appear to be brilliant colors at sunrise or sunset. This is due to dust particles in the air.

LIBRARY

A library is a place where many books are kept. Most libraries are public and let people take the books to use in their home. Most libraries let people borrow books for several weeks. Some belong to institutions, for example, companies, churches, schools, and universities. Also a person's bookshelves at home can have many books and be a library. The people who work in libraries are librarians. Librarians are people who take care of the library.

Other libraries keep famous or rare books. There are a few "Copyright libraries" which have a copy of every book which has been written in that country. Some libraries also have other things that people might like, such as magazines, music on CDs, or computers where people can use the Internet. In school they offer software to learn the alphabet and other details.

The Eotvos Loránd University Library in Budapest

With the spread of literacy, libraries have become essential tools for learning. Libraries are very important for the progress and development of a society. Libraries are collections of books and other informational materials. People come to libraries for reading, study or reference. Libraries contain a variety of materials. They contain printed materials, films, sound and video recordings, maps, photographs, computer software, online databases, and other media.

A library is not a bookstore (a store that sells books).

BBC

BBC News is an operational business division^[1] of the British Broadcasting Corporation (BBC) responsible for the gathering and broadcasting of news and current affairs. The department is the world's largest broadcast news organization and generates about 120 hours of radio and television output each day, as well as online news coverage.^{[2][3]} The service maintains 50 foreign news bureaus with more than 250 correspondents around the world.^[4] Fran Unsworth has been director of news and current affairs since January 2018.^{[5][6]}

The department's annual budget is in excess of £350 million; it has 3,500 staff, 2,000 of whom are journalists.^[2] BBC News' domestic, global and online news divisions are housed within the largest live newsroom in Europe, in Broadcasting House in central London. Parliamentary coverage is produced and broadcast from studios in London. Through BBC English Regions, the BBC also has regional centers across England and national news centers in Northern Ireland, Scotland and Wales. All nations and English regions produce their own local news programs and other current affairs and sport programs.

In 2017, BBC India was banned for a period of 5 years from covering all national parks and sanctuaries in India.^[7] Following the withdrawal of CGTN's UK broadcaster licence on 4 February 2021 by Ofcom China banned BBC News from airing in China.^[9]

The BBC is a quasi-autonomous corporation authorized by royal charter, making it operationally independent of the government, who have no power to appoint or dismiss its director general, and require it to report impartially. However, as with all major media outlets, it has been accused of political bias from across the political spectrum, both within the United Kingdom and abroad.

CNN

CNN, in full Cable News Network, Inc., television's first 24-hour all-news service, a subsidiary of Warner Media. CNN's headquarters are in Atlanta.

CNN was created by maverick broadcasting executive Ted Turner as part of his Turner Broadcasting System (TBS), allegedly because industry professionals had told him it could not be done. After four years in development, CNN signed on the air June 1, 1980, with a news telecast anchored by the husband-and-wife team of Dave Walker and Lois Hart. Initially derided by its more affluent competitors as "the Chicken Noodle Network" because of its comparatively meagre financial resources, CNN endured an arduous struggle to earn respect in the broadcast world. Maturing and expanding along with the cable industry itself, CNN maintained a loyal following by offering what the major networks did not: full, continuous coverage of all news events, both large and small.

Its mantra throughout this period was "Go live, stay with it and make it important." Endeavoring to accommodate its worldwide audience, CNN adopted a policy of banning such exclusionary words and phrases as "foreign" and "here at home" from its newscasts.

BOOK

Book:

Book is the best friend; a human being can have. Book is a friend that is never disloyal. Books make our life easy to lead as they inform us about various ways of leading life. Books are informative as well as instructive. A person is never going to feel alone in the presence of books. In the company of books, a person is never going to feel the boredom of daily routine if he has nothing else to do. Books have many wonders in it and they make a person absorbed in their interesting content. The best example of being a friend of book can be seen while long journeys when a person has nothing to do except to sit and wait for his destination. The reading of an interesting book shortens the distance and time that is in between. Books are of many kinds and for many subjects such as psychology, philosophy, English, finance, business, computers, biology, zoology, botany, international relations, history, science, accounting, mathematics, sociology, economics, communication, networking, designing, management, political science, geography, education, astrology, astronomy, administration, marketing, pharmacy, etc...

ENGLISH LANGUAGE

English is the language of science, of aviation, computers, diplomacy, and tourism. Knowing English increases your chances of getting a good job in a multinational company within your home country or for finding work abroad. It's also the language of international communication, the media and the internet, so learning English is important for socializing and entertainment as well as work! English may not be the most spoken language in the world, but it is the official language of 53 countries and spoken by around 400 million people across the globe. Being able to speak English is not just about being able to communicate with native English speakers, it is the most common second language in the world. If you want to speak to someone from another country then the chances are that you will both be speaking English to do this.

The British Council projects that by 2020 two billion people in the world will be studying English. Learning English is important as it enables you to communicate easily with your fellow global citizens. When you study English at ELC schools, you will be making friends with people from lots of different countries, using English as your common language!

English is the dominant business language and it has become almost a necessity for people to speak English if they are to enter a global workforce. Research from all over the world shows that cross-border business communication is most often conducted in English and many international companies expect employees to be fluent in English.

Global companies such as Airbus, Daimler-Chrysler, Fast Retailing, Nokia, Renault, Samsung, SAP, Technicolor, and Microsoft in Beijing, have mandated English as their official corporate language. In addition, in 2010 the company Rakuten, a Japanese cross between Amazon and eBay, made it mandatory for their 7,100 Japanese employees to be able to speak English.

The importance of learning English in the international marketplace cannot be understated - learning English really can change your life.

Many of the world's top films, books and music are published and produced in English. Therefore, by learning English you will have access to a great wealth of entertainment and will be able to have a greater cultural understanding.

FAMILY

A family is a group of people who, in most cases, live together. They share their money and food and are supposed to take care of one another. Its members are either genetically related (like brother and sister) or legally bound to each other, for example by marriage. In many cultures, the members of a family have the same or a similar surname.

The family in accordance to the Catholic doctrine is treated in many articles of the Catechism of the Catholic Church starting from the article 2201. ^[1]

A family is said to be society's smallest unit, its nucleus. Family life is more private and intimate than public life. But in most countries there are laws for it. For example, there are restrictions for marrying within the family and bans for having a sexual relationship with relatives, especially with children.

Families are an integral part of one's life. It does not matter if you have a small or big family, as long as you have one. A family serves as the first school to the child where one learns about various things. The basic knowledge about one's culture and identity comes from their family only. In other words, you are a reflection of your family. All the good habits and manners one has incorporated are from their family only. I feel very lucky to be born in a family which has made me a better person. In my opinion, families are an essential part of one's being. In this essay on my family, I will tell you why family is important.

PEN

A pen is a common writing instrument that applies ink to a surface, usually paper, for writing or drawing.^[1] Early pens such as reed pens, quill pens, dip pens and ruling pens held a small amount of ink on a nib or in a small void or cavity which had to be periodically recharged by dipping the tip of the pen into an inkwell. Today, such pens find only a small number of specialized uses, such as in illustration and calligraphy. Reed pens, quill pens and dip pens, which were used for writing, have been replaced by ballpoint pens, rollerball pens, fountain pens and felt or ceramic tip pens.^[2] Ruling pens, which were used for technical drawing and cartography, have been replaced by technical pens such as the Rapido graph. All of these modern pens contain internal ink reservoirs, such that they do not need to be dipped in ink while writing. We carry all essential things to school, but among them, the most important one is a pen. A pen is a tool to write. There are many types of pens such as a gel pen, a ball pen, and ink pens.

It is usually said that a pen is mightier than a sword. This actually means that the words that we write from a pen can perform many purposes therefore pen is more powerful than a sword.

The pen is used to write exams and our thoughts on paper. In this way, a pen becomes a medium of communication. When we cannot talk, we can use a pen to write down what we have to say.

FARMER

Farmers are the backbone of our society. They are the ones who provide us all the food that we eat. As a result, the entire population of the country depends upon farmers. Be it the smallest or the largest country. Because of them only we are able to live on the planet. Thus Farmers are the most important people in the world. Though farmers have so much importance still they do not have proper living.

Importance of farmers

Farmers have great importance in our society. They are the ones who provide us food to eat. Since every person needs proper food for their living, so they are a necessity in society.

There are different types of farmers. And they all have equal significance. First are the farmers who grow a crop like wheat, barley, rice, etc. Since the maximum intake in the Indian houses is of wheat and rice. So, the cultivation of wheat and rice is much in farming. Moreover, farmers who grow these crops are of prime importance. Second, are the ones who cultivate fruits. These farmers have to prepare the soil for different types of fruits. Because these fruits grow according to the season. Therefore the farmers need to have a great knowledge of fruits and crops. There are many other farmers who grow different other types. Furthermore, they all have to work very hard to get maximum harvesting.

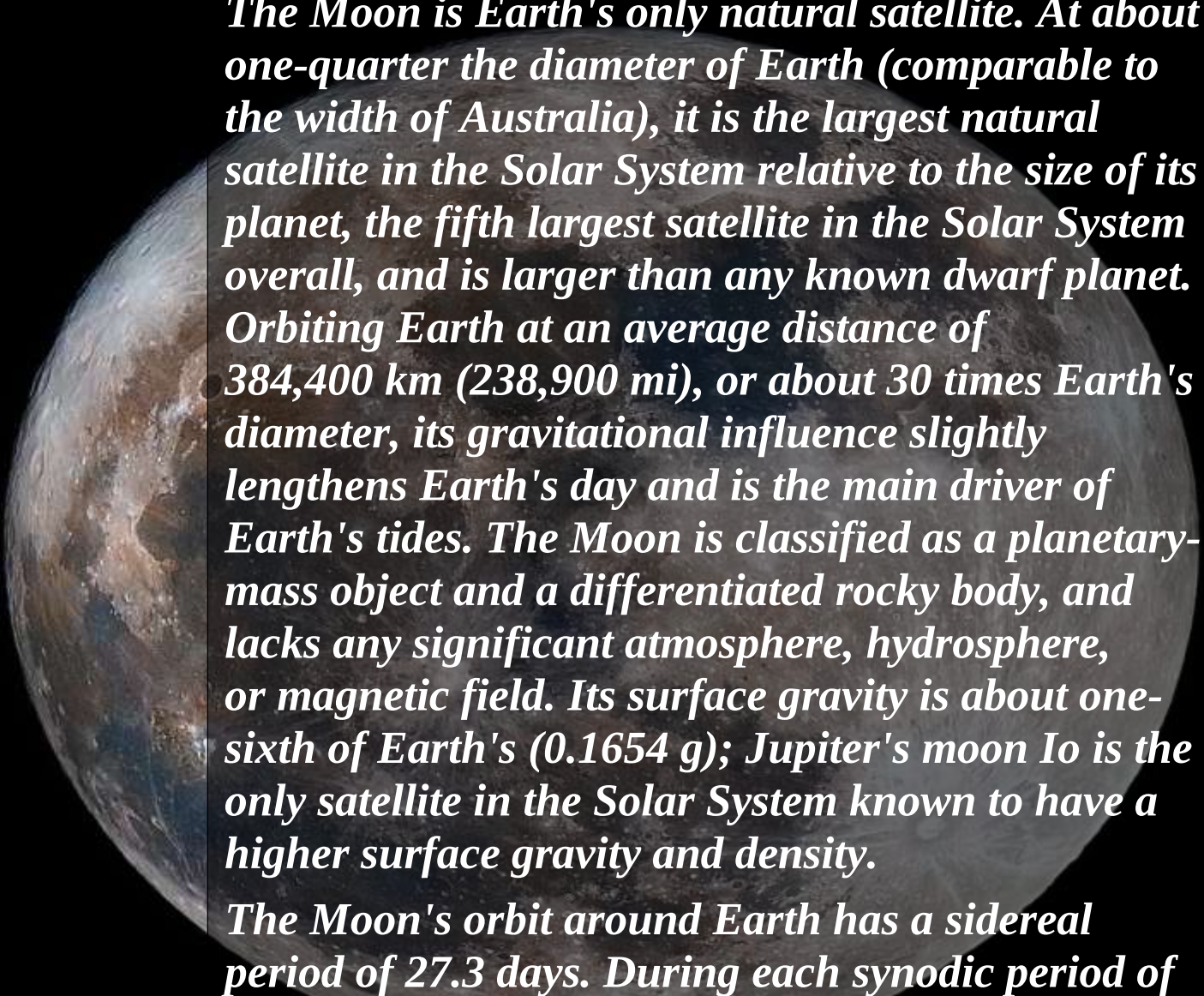
In addition to the farmers contribute almost 17% of the Indian economy. That is the maximum of all. But still farmer is deprived of every luxury of society.

OIL

An oil is any nonpolar chemical substance that is a viscous liquid at ambient temperatures and is both hydrophobic (does not mix with water, literally "water fearing") and lipophilic (mixes with other oils, literally "fat loving"). Oils have a high carbon and hydrogen content and are usually flammable and surface active. Most oils are unsaturated lipids that are liquid at room temperature.

The general definition of oil includes classes of chemical compounds that may be otherwise unrelated in structure, properties, and uses. Oils may be animal, vegetable, or petrochemical in origin, and may be volatile or non-volatile.^[1] They are used for food (e.g., olive oil), fuel (e.g., heating oil), medical purposes (e.g., mineral oil), lubrication (e.g. motor oil), and the manufacture of many types of paints, plastics, and other materials. Specially prepared oils are used in some religious ceremonies and rituals as purifying agents.

MOON



The Moon is Earth's only natural satellite. At about one-quarter the diameter of Earth (comparable to the width of Australia), it is the largest natural satellite in the Solar System relative to the size of its planet, the fifth largest satellite in the Solar System overall, and is larger than any known dwarf planet. Orbiting Earth at an average distance of 384,400 km (238,900 mi), or about 30 times Earth's diameter, its gravitational influence slightly lengthens Earth's day and is the main driver of Earth's tides. The Moon is classified as a planetary-mass object and a differentiated rocky body, and lacks any significant atmosphere, hydrosphere, or magnetic field. Its surface gravity is about one-sixth of Earth's (0.1654 g); Jupiter's moon Io is the only satellite in the Solar System known to have a higher surface gravity and density.

The Moon's orbit around Earth has a sidereal period of 27.3 days. During each synodic period of 29.5 days, the amount of visible surface illuminated by the Sun varies from none up to 100%, resulting in lunar phases that form the basis for the months of a lunar calendar. The Moon is tidally locked to Earth, which means that the length of a full rotation of the Moon on its own axis causes its same side (the near side) to always face Earth, and the somewhat longer lunar day is the same as the synodic period. That said, 59% of the total lunar surface can be seen from Earth through shifts in perspective due to libration.

STARS

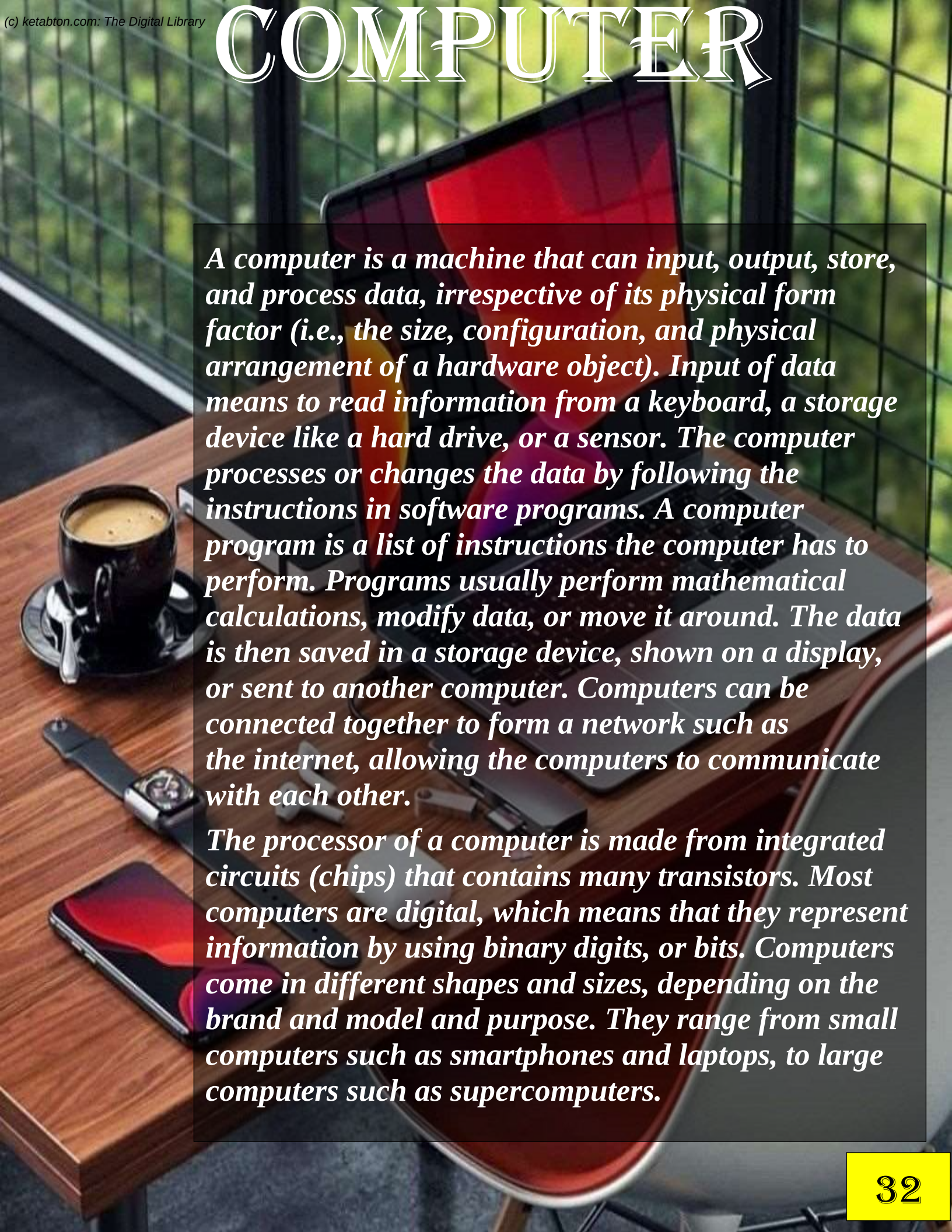
A star is an astronomical object consisting of a luminous spheroid of plasma held together by its own gravity. The nearest star to Earth is the Sun. Many other stars are visible to the naked eye at night, but due to their immense distance from Earth they appear as fixed points of light in the sky. The most prominent stars are grouped into constellations and asterisms, and many of the brightest stars have proper names. Astronomers have assembled star catalogues that identify the known stars and provide standardized stellar designations. The observable universe contains an estimated 10^{22} to 10^{24} stars, but most are invisible to the naked eye from Earth, including all individual stars outside our galaxy, the Milky Way.

A star's life begins with the gravitational collapse of a gaseous nebula of material composed primarily of hydrogen, along with helium and trace amounts of heavier elements. The total mass of a star is the main factor that determines its evolution and eventual fate. For most of its active life, a star shines due to thermonuclear fusion of hydrogen into helium in its core, releasing energy that traverses the star's interior and then radiates into outer space. At the end of a star's lifetime, its core becomes a stellar remnant: a white dwarf, a neutron star, or, if it is sufficiently massive, a black hole.

Almost all naturally occurring elements heavier than lithium are created by stellar nucleosynthesis in stars or their remnants. Chemically enriched material is returned to the interstellar medium by stellar mass loss or supernova explosions and then recycled into new stars. Astronomers can determine stellar properties including mass, age, metallicity (chemical composition), variability, distance, and motion through space by carrying out observations of a star's apparent brightness, spectrum, and changes in its position on the sky over time.

Stars can form orbital systems with other astronomical objects, as in the case of planetary systems and star systems with two or more stars. When two such stars have a relatively close orbit, their gravitational interaction can have a significant impact on their evolution. Stars can form part of a much larger gravitationally bound structure, such as a star cluster or a galaxy.

COMPUTER

A photograph of a wooden table with a laptop, a cup of coffee, a smartwatch, and a smartphone. The laptop screen shows a red and yellow abstract design. The background is a window with a green mesh screen.

A computer is a machine that can input, output, store, and process data, irrespective of its physical form factor (i.e., the size, configuration, and physical arrangement of a hardware object). Input of data means to read information from a keyboard, a storage device like a hard drive, or a sensor. The computer processes or changes the data by following the instructions in software programs. A computer program is a list of instructions the computer has to perform. Programs usually perform mathematical calculations, modify data, or move it around. The data is then saved in a storage device, shown on a display, or sent to another computer. Computers can be connected together to form a network such as the internet, allowing the computers to communicate with each other.

The processor of a computer is made from integrated circuits (chips) that contains many transistors. Most computers are digital, which means that they represent information by using binary digits, or bits. Computers come in different shapes and sizes, depending on the brand and model and purpose. They range from small computers such as smartphones and laptops, to large computers such as supercomputers.

PHONE



A smartphone is a portable device that combines mobile telephone and computing functions into one unit. They are distinguished from feature phones by their stronger hardware capabilities and extensive mobile operating systems, which facilitate wider software, internet (including web browsing over mobile broadband), and multimedia functionality (including music, video, cameras, and gaming), alongside core phone functions such as voice calls and text messaging. Smartphones typically contain a number of metal–oxide–semiconductor (MOS) integrated circuit (IC) chips, include various sensors that can be leveraged by pre-included and third-party software (such as a magnetometer, proximity sensors, barometer, gyroscope, accelerometer and more), and support wireless communications protocols (such as Bluetooth, Wi-Fi, or satellite navigation).

Early smartphones were marketed primarily towards the enterprise market, attempting to bridge the functionality of standalone personal digital assistant (PDA) devices with support for cellular telephony, but were limited by their bulky form, short battery life, slow analog cellular networks, and the immaturity of wireless data services. These issues were eventually resolved with the exponential scaling and miniaturization of MOS transistors down to sub-micron levels (Moore's law), the improved lithium-ion battery, faster digital mobile data networks (Edholm's), and more mature software platforms that allowed mobile device ecosystems to develop independently of data providers.

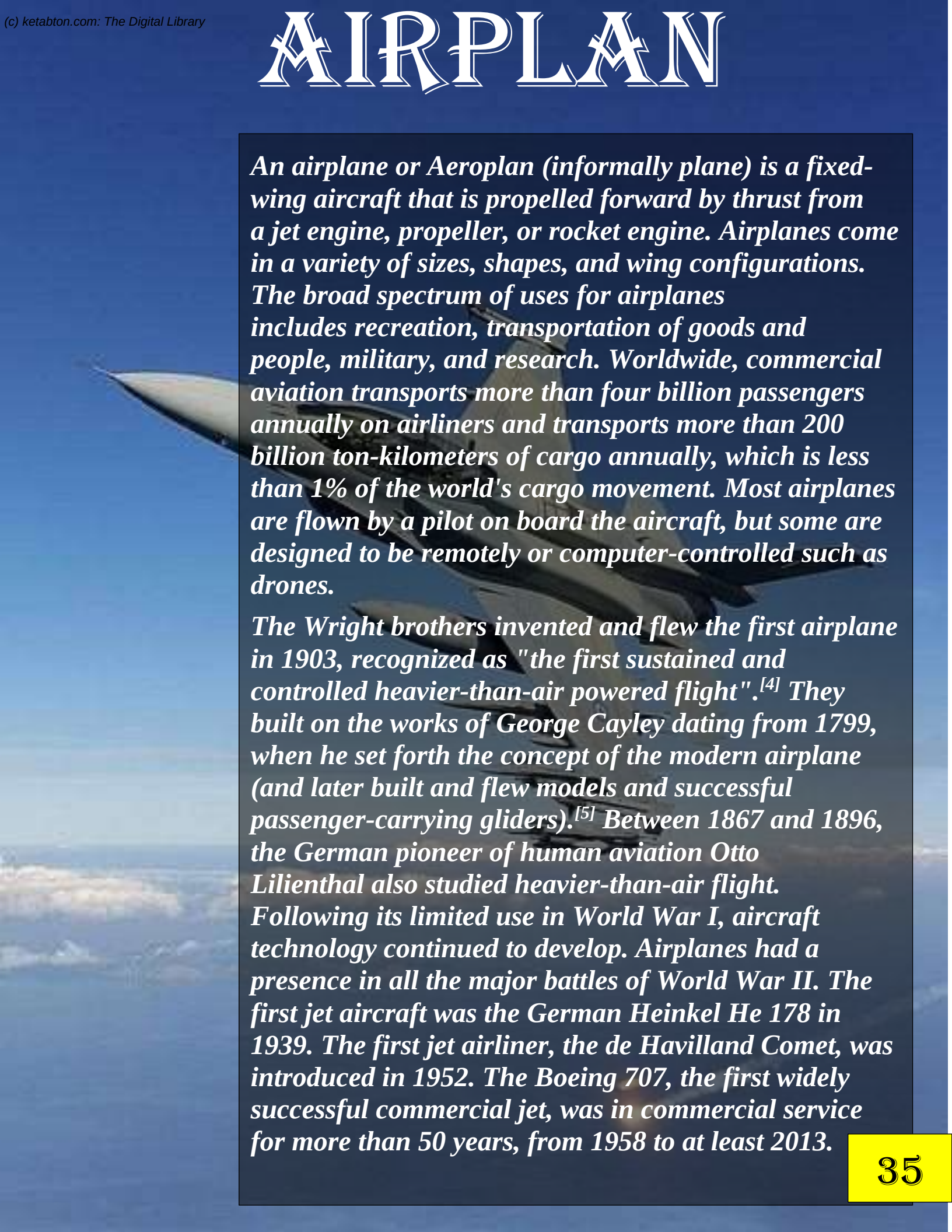
CAR

A car (or automobile) is a wheeled motor vehicle used for transportation. Most definitions of cars say that they run primarily on roads, seat one to eight people, have four wheels, and mainly transport people rather than goods.

Cars came into global use during the 20th century, and developed economies depend on them. The year 1886 is regarded as the birth year of the car when German inventor Karl Benz patented his Benz Patent-Motorwagen. Cars became widely available in the early 20th century. One of the first cars accessible to the masses was the 1908 Model T, an American car manufactured by the Ford Motor Company. Cars were rapidly adopted in the US, where they replaced animal-drawn carriages and carts. In Europe and other parts of the world, demand for automobiles did not increase until after World War II.

Cars have controls for driving, parking, passenger comfort, and a variety of lights. Over the decades, additional features and controls have been added to vehicles, making them progressively more complex, but also more reliable and easier to operate. These include rear-reversing cameras, air conditioning, navigation systems, and in-car entertainment. Most cars in use in the early 2020s are propelled by an internal combustion engine, fueled by the combustion of fossil fuels. Electric cars, which were invented early in the history of the car, became commercially available in the 2000s and are predicted to cost less to buy than gasoline cars before 2025. The transition from fossil fuels to electric cars features prominently in most climate change mitigation scenarios, such as Project Drawdown's 10 actionable solutions for climate change.

AIRPLAN

A fighter jet is shown in flight against a blue sky with scattered white clouds. The jet is angled upwards and to the left, with its wings and tail visible. The text is overlaid on the right side of the image.

An airplane or Aeroplan (informally plane) is a fixed-wing aircraft that is propelled forward by thrust from a jet engine, propeller, or rocket engine. Airplanes come in a variety of sizes, shapes, and wing configurations. The broad spectrum of uses for airplanes includes recreation, transportation of goods and people, military, and research. Worldwide, commercial aviation transports more than four billion passengers annually on airliners and transports more than 200 billion ton-kilometers of cargo annually, which is less than 1% of the world's cargo movement. Most airplanes are flown by a pilot on board the aircraft, but some are designed to be remotely or computer-controlled such as drones.

The Wright brothers invented and flew the first airplane in 1903, recognized as "the first sustained and controlled heavier-than-air powered flight".^[4] They built on the works of George Cayley dating from 1799, when he set forth the concept of the modern airplane (and later built and flew models and successful passenger-carrying gliders).^[5] Between 1867 and 1896, the German pioneer of human aviation Otto Lilienthal also studied heavier-than-air flight. Following its limited use in World War I, aircraft technology continued to develop. Airplanes had a presence in all the major battles of World War II. The first jet aircraft was the German Heinkel He 178 in 1939. The first jet airliner, the de Havilland Comet, was introduced in 1952. The Boeing 707, the first widely successful commercial jet, was in commercial service for more than 50 years, from 1958 to at least 2013.

BYCICLE

A bicycle, also called a bike or cycle, is a human-powered or motor-powered, pedal-driven, single-track vehicle, having two wheels attached to a frame, one behind the other. A bicycle rider is called a cyclist, or bicyclist.

Bicycles were introduced in the 19th century in Europe, and by the early 21st century, more than 1 billion were in existence.^{[1][2][3]} These numbers far exceed the number of cars, both in total and ranked by the number of individual models produced.^{[4][5][6]} They are the principal means of transportation in many regions. They also provide a popular form of recreation, and have been adapted for use as children's toys, general fitness, military and police applications, courier services, bicycle racing, and bicycle stunts.

The basic shape and configuration of a typical upright or "safety bicycle", has changed little since the first chain-driven model was developed around 1885.^{[7][8][9]} However, many details have been improved, especially since the advent of modern materials and computer-aided design. These have allowed for a proliferation of specialized designs for many types of cycling

The bicycle's invention has had an enormous effect on society, both in terms of culture and of advancing modern industrial methods. Several components that eventually played a key role in the development of the automobile were initially invented for use in the bicycle, including ball bearings, pneumatic tires, chain-driven sprockets and tension-spoked wheels

MANGO

Mangos have been an important crop in India for millennia. Today, these colorful, sweet fruits are a mainstay of Indian cuisine and are popular throughout the world. Mangos can weigh anywhere from a few ounces to more than five pounds each, depending on the variety.

Regardless of the type of mango you buy, these fruits offer some impressive health benefits. While mangos were historically only available at the end of the dry season, today they can be found in grocery stores all year long.

The vitamins, minerals, and antioxidants in mangos can provide important health benefits. For example, vitamin K helps your blood clot effectively and helps prevent anemia. It also plays an important role in helping strengthen your bones.

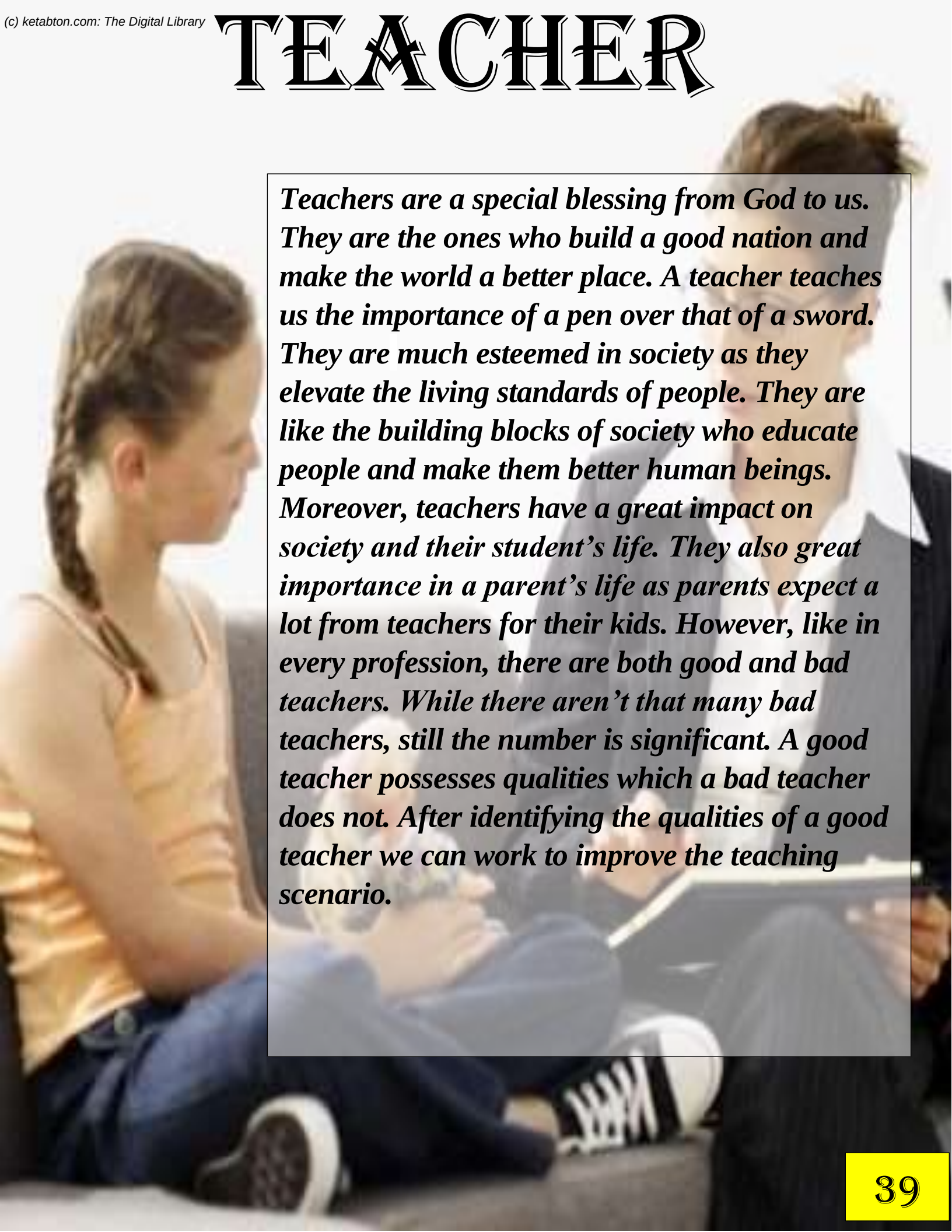
Mangos are also rich in vitamin C, which is important for forming blood vessels and healthy collagen, as well as helping you heal.

In addition, mangos can provide other health benefits.

F-16

The General Dynamics F-16 Fighting Falcon is a single-engine multirole fighter aircraft originally developed by General Dynamics for the United States Air Force (USAF). Designed as an air superiority day fighter, it evolved into a successful all-weather multirole aircraft. Over 4,600 aircraft have been built since production was approved in 1976. Although no longer being purchased by the U.S. Air Force, improved versions are being built for export customers. In 1993, General Dynamics sold its aircraft manufacturing business to the Lockheed Corporation, which in turn became part of Lockheed Martin after a 1995 merger with Martin Marietta. The Fighting Falcon's key features include a frameless bubble canopy for better visibility, side-mounted control stick to ease control while maneuvering, an ejection seat reclined 30 degrees from vertical to reduce the effect of g-forces on the pilot, and the first use of a relaxed static stability/fly-by-wire flight control system that helps to make it an agile aircraft. The F-16 has an internal M61 Vulcan cannon and 11 locations for mounting weapons and other mission equipment. The F-16's official name is "Fighting Falcon", but "Viper" is commonly used by its pilots and crews, due to a perceived resemblance to a viper snake as well as the Colonial Viper starfighter on Battlestar Galactica which aired at the time the F-16 entered service.

TEACHER



Teachers are a special blessing from God to us. They are the ones who build a good nation and make the world a better place. A teacher teaches us the importance of a pen over that of a sword. They are much esteemed in society as they elevate the living standards of people. They are like the building blocks of society who educate people and make them better human beings. Moreover, teachers have a great impact on society and their student's life. They also great importance in a parent's life as parents expect a lot from teachers for their kids. However, like in every profession, there are both good and bad teachers. While there aren't that many bad teachers, still the number is significant. A good teacher possesses qualities which a bad teacher does not. After identifying the qualities of a good teacher we can work to improve the teaching scenario.

ENGINEER



Engineers, as practitioners of engineering, are professionals who invent, design, analyze, build and test machines, complex systems, structures, gadgets and materials to fulfill functional objectives and requirements while considering the limitations imposed by practicality, regulation, safety and cost. The word engineer (Latin ingenious¹) is derived from the Latin words ingeniare ("to create, generate, contrive, devise") and ingenium ("cleverness").^{[4][5]} The foundational qualifications of an engineer typically include a four-year bachelor's degree in an engineering discipline, or in some jurisdictions, a master's degree in an engineering discipline plus four to six years of peer-reviewed professional practice (culminating in a project report or thesis) and passage of engineering board examinations.

The work of engineers forms the link between scientific discoveries and their subsequent applications to human and business needs and quality of life

A professional engineer is competent by virtue of his/her fundamental education and training to apply the scientific method and outlook to the analysis and solution of engineering problems. He/she is able to assume personal responsibility for the development and application of engineering science and knowledge, notably in research, design, construction, manufacturing, superintending, managing and in the education of the engineer.

BANANA

Some horticulturists believe that bananas were the first fruit on earth. Their origin is placed in Southeast Asia, in the jungles of Malaises. Indonesia or the Philippines. where many varieties of wild bananas still grow today. Africans are credited to have given the present name, since the word banana would be derived from the Arab for 'finger'.

Bananas started to be traded internationally by the end of the fourteenth century. The development of railroads and technological advances in refrigerated maritime transport subsequently enable bananas to become the most traded fruit in the world.

Bananas are grown in more than 150 countries, and 105 million tons of fruit are produced each year. Bananas which are grown for local consumption are generally grown in traditional, extensive systems.

The Dessert banana, like the Cavendish variety, are of huge economic importance to many countries in the Global South, and they account for 43 million tones. and the Plantain account for 45 million tons. Locally consumed bananas are a staple food in many tropical countries and play a major role in terms of food security.

TELEVISION

Telegram television (also known as a TV) is a machine with a screen. Televisions receive broadcasting signals and change them into pictures and sound. The word "television" comes from the words tele (Greek for far away) and vision (sight).

Sometimes a television can look like a box. Older TVs had a large cathode ray tube in a large wooden frame and sat on the floor like furniture. Newer TVs are much lighter and flatter.

A TV can show pictures from many television networks. Computers and mobile devices also can be used for watching television programs.

The television was invented in the 1920s but the equipment was expensive and the pictures were poor. By the 1950s, these problems had been fixed and TVs became widespread.

At first, all televisions used an antenna (or aerial). This would pick up television programs from broadcasting stations. A TV station could be many miles or kilometers away, and still be received. TVs can also show movies from VCD and DVD players or VCRs. Cable TV and Satellite television can provide more programs at once than broadcast can. Video game consoles connect to most modern TVs. Some computers can also use a TV as a computer monitor.

All TVs have screens where the picture is viewed. Before the 1950s these were usually "black and white", which made everything look grey, but all modern TVs show colors. Most 20th century screens also had rounded corners. That is because television screens were cathode ray tubes. These are like heavy glass jars with one side bulging out to form the screen

ROSE

The rose is a type of flowering shrub. Its name comes from the Latin word Rosa.^[1] The flowers of the rose grow in many different colors, from the well-known red rose or yellow rose and sometimes white or purple rose. Roses belong to the family of plants called Rosaceae. All roses were originally wild and they come from several parts of the world, North America, Europe, northwest Africa and many parts of Asia and Oceania. There are over 100 different species of roses. The wild rose species can be grown in gardens, but most garden roses are cultivars, which have been chosen by people.^[2]

Over hundreds of years, they have been specially bred to produce a wide variety of growing habits and a broad range of colors from dark red to white including as well yellow and a bluish/lilac color. Many roses have a strong, pleasant scent. Most roses have prickles (incorrectly called thorns) on their stems. Rose bushes are able to tolerate a wide variety of growing conditions. The fruit of the rose is called a hip. Some roses have decorative hips.

Roses are widely used across the world as symbols of love, sympathy or sorrow.

Rose is widely used as a girl's name. Also, roses protect themselves from other predators trying to hunt them with thorns, a widely known defense system.

SUN

The Sun is a star which is located at the center of our solar system. It is a yellow dwarf star that gives off different types of energy such as infra-red energy (heat), ultraviolet light, radio waves and light. It also gives off a stream of particles, which reaches Earth as "solar wind". The source of all this energy is nuclear fusion. Nuclear fusion is the reaction in the star which turns hydrogen into helium and makes huge amounts of energy.

The Sun is a star like many others in our Milky Way galaxy. The Sun is a type of star called a G-type main-sequence star based on its spectral class.^[15] It has existed for a little over 4.5 billion years. It is going to continue for at least as long. The Sun is about a hundred times as wide as the Earth. It has a mass of 1.9891×10^{30} kg. This is 333,000 times the mass of the Earth. 1.3 million Earths can fit inside the Sun.^[16]

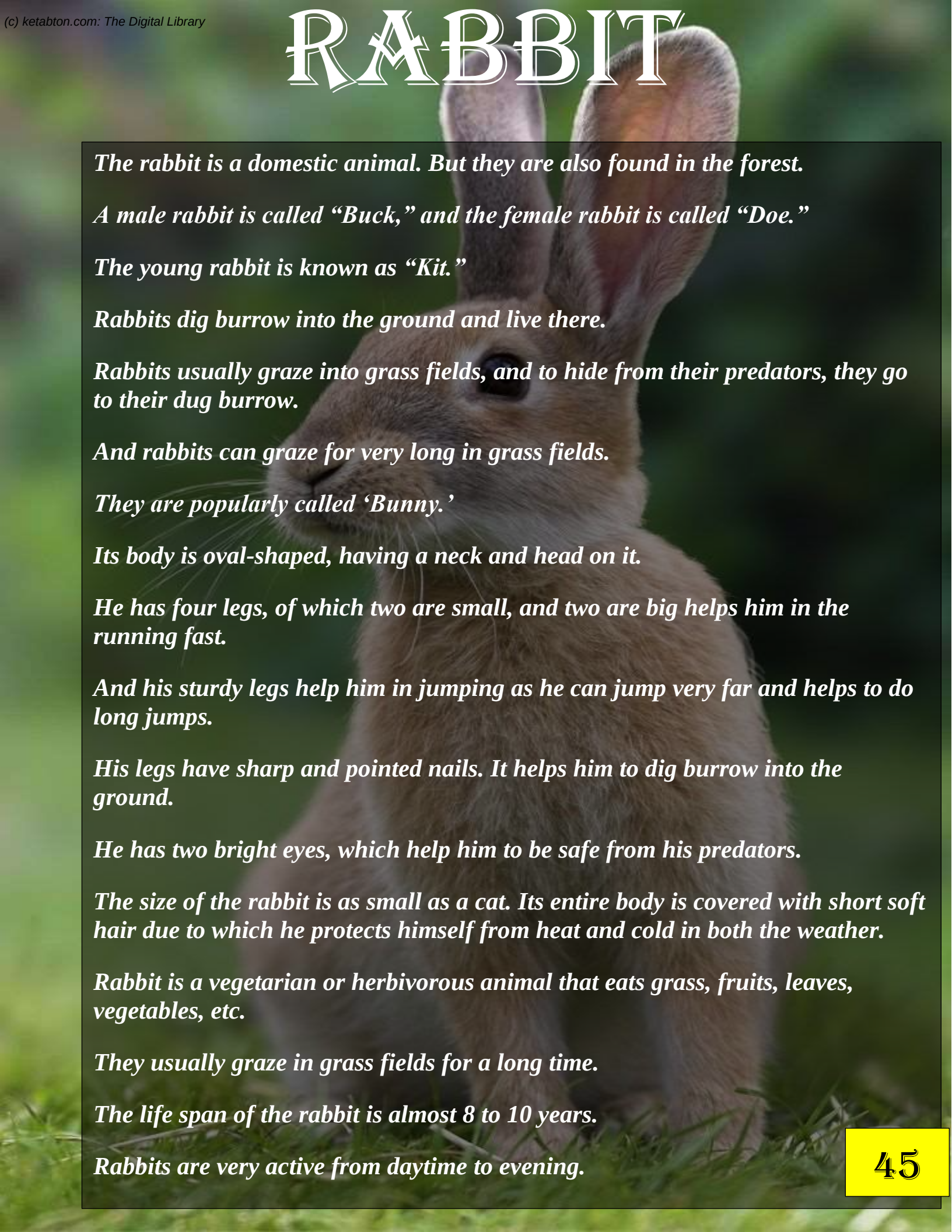
The Sun fuses about 600 million tons of hydrogen into helium every second. It can take between 10,000 and 170,000 years for the energy in the core of the Sun to escape.

Scientists think that the Sun started from a very large cloud of dust and small bits of ice about 4.567 billion years ago.^[22]

At the center of that huge cloud, gravity caused the material to build up into a ball. Once this got big enough, the huge pressure inside started a fusion reaction. The energy this released caused that ball to heat and shine.

The energy radiated from the Sun pushed away the rest of the cloud from itself, and the planets formed from the rest of this cloud.

RABBIT



The rabbit is a domestic animal. But they are also found in the forest.

A male rabbit is called “Buck,” and the female rabbit is called “Doe.”

The young rabbit is known as “Kit.”

Rabbits dig burrow into the ground and live there.

Rabbits usually graze into grass fields, and to hide from their predators, they go to their dug burrow.

And rabbits can graze for very long in grass fields.

They are popularly called ‘Bunny.’

Its body is oval-shaped, having a neck and head on it.

He has four legs, of which two are small, and two are big helps him in the running fast.

And his sturdy legs help him in jumping as he can jump very far and helps to do long jumps.

His legs have sharp and pointed nails. It helps him to dig burrow into the ground.

He has two bright eyes, which help him to be safe from his predators.

The size of the rabbit is as small as a cat. Its entire body is covered with short soft hair due to which he protects himself from heat and cold in both the weather.

Rabbit is a vegetarian or herbivorous animal that eats grass, fruits, leaves, vegetables, etc.

They usually graze in grass fields for a long time.

The life span of the rabbit is almost 8 to 10 years.

Rabbits are very active from daytime to evening.

EID

Eid in Arabic means “feast, festival, holiday.”

Eid is a worldwide festival and celebration for Muslims. During the calendar year there are two Eid's that are celebrated by Muslims. Eid ul Fitr, which means “festival to break the fast”, is at the end of the holy month of Ramadan in which Muslims fast for a whole month.

MUBARAK

Eid ul Fitr is also known as the lesser Eid, and is determined by the confirmed sighting of the new moon. Eid is a time for reflection and starting afresh, a time to rejoice with family and friends, but also a time for remembering those who are less fortunate. It's a time to count our blessings while also giving charity to those in need. Fasting teaches empathy and compassion for those less fortunate. In this time of year it provides Muslims belief and the opportunity to feel closer to God by carrying out various works of charity to benefit the poor and by offering prayers imposed and enacted. There are special morning Eid prayers offered in congregation to accompany the 5 daily prayers to mark the occasion. Prophet Muhammad (peace be upon him) reported that servants who get cleaned by fasting and worshipping should wish for whatever they want from Allah in Eid prayers.

Eid is a momentous, happy and joyous occasion shared with family and friends, Muslim and non-Muslim. A celebration of this nature, with family and friends following a month fasting, is a reminder and expression of trying to be a better person in all aspects (health, spiritual, belief and faith)

TO YOU AND YOUR FAMILY

RAMADAN

Ramadan is a holy month of fasting, introspection and prayer for Muslims, the followers of Islam. It is celebrated as the month during which Muhammad received the initial revelations of the Quran, the holy book for Muslims. Fasting is one of the five fundamental principles of Islam. Each day during Ramadan, Muslims do not eat or drink from dawn to sunset. They are also supposed to avoid impure thoughts and bad behavior.

Muslims break their daily fasts by sharing meals with family and friends, and the end of Ramadan is celebrated with a three-day festival known as Eid al-Fitr, one of Islam's major holidays. Ramadan always falls on the ninth month of the 12-month Islamic calendar. Ramadan 2021 begins at sunset on Monday, April 12, and ends on Wednesday, May 12.

MONEY

Money is the most important thing in life. No one can live without money. Money is important to buy basic life requirements, and money is also important to preserve human dignity and to provide a decent life for him and his family. Money is one of the most important requirements of life because without money, people lack essential things in life, such as education, health care and others.

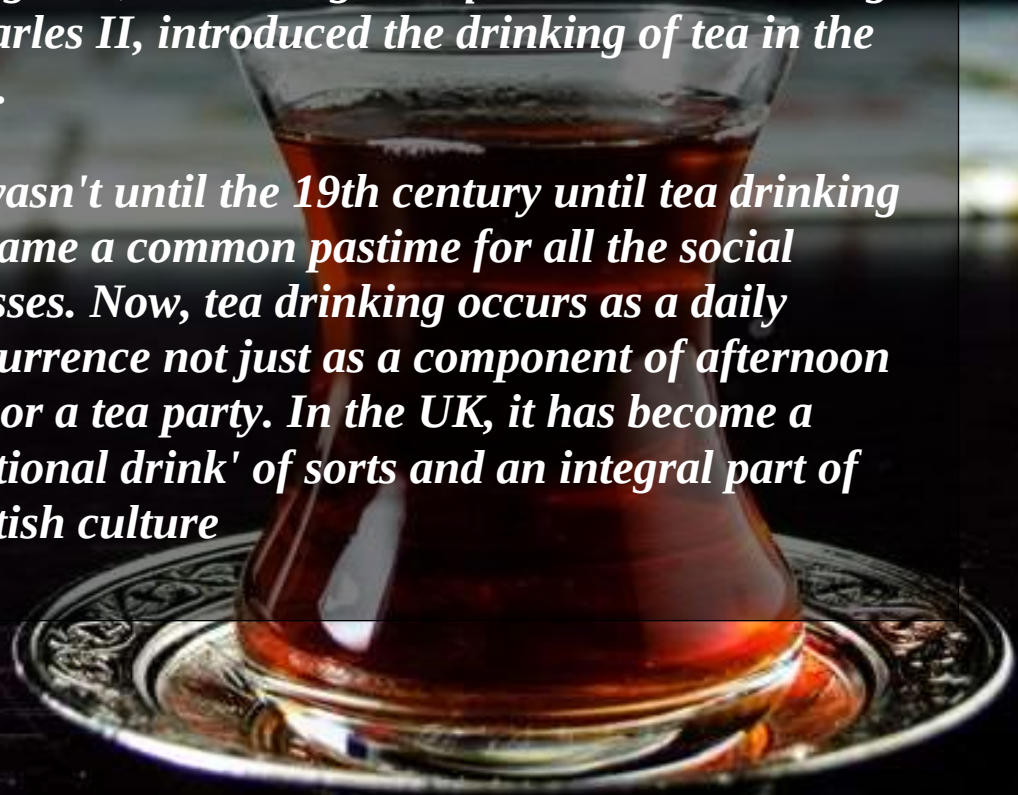
Developed countries are rich economies. It is rich countries that provide free education and health care to citizens. Rich countries are the powerful countries that all other countries like. The rich country is able to provide the necessary money to buy advanced weapons to defend for its citizens and to protect its territory and its borders against any foreign aggression. The wealthy, rich-economy country will be able to set up large-scale legislations in all fields, providing job opportunities for young people.

These projects reduce the unemployment rate in society and thus reduce serious social problems such as poverty, crime, violence and other problems that threaten the security of communities. The rich state can create public facilities that benefit citizens and can also provide quality education that makes it an advanced country in all fields. The state also provides citizens with health care that reduces the spread of diseases in societies. Thus, the rich state is able to challenge the most serious problems facing society, namely ignorance and poverty.

TEA

Tea is a drink that is produced from the combination of cured leaves of the Camellia Sinensis (tea) plant with hot water. Tea is the second most popular beverage in the world, after water. The Camellia Sinensis plant thrives growing in tropical and sub-tropical climates, hence its origins on the continents of Asia and Africa the first recorded consumption in the history of tea was in China, as early as the 10th century BC. Soon, it spread to Korea and Japan. During the 16th century Portuguese exploration of the Far East, tea was traded with the West and as a result, the tea plant spread to the rest of the world. It has been said that Catherine of Braganza, the Portuguese queen consort to King Charles II, introduced the drinking of tea in the UK.

It wasn't until the 19th century until tea drinking became a common pastime for all the social classes. Now, tea drinking occurs as a daily occurrence not just as a component of afternoon tea or a tea party. In the UK, it has become a 'national drink' of sorts and an integral part of British culture



EDUCATION

Education is the process of facilitating learning, or the acquisition of knowledge, skills, values, morals, beliefs, and habits. Educational methods include teaching, training, storytelling, discussion and directed research. Education frequently takes place under the guidance of educators, however learners can also educate themselves. Education can take place in formal or informal settings and any experience that has a formative effect on the way one thinks, feels, or acts may be considered educational. The methodology of teaching is called pedagogy.

Formal education is commonly divided formally into such stages as preschool or kindergarten, primary school, secondary school and then college, university, or apprenticeship.

There are movements for education reforms, such as for improving quality and efficiency of education towards applicable relevance in the students' lives and efficient problem solving in modern or future society at large or for evidence-based education methodologies. A right to education has been recognized by some governments and the United Nations. Global initiatives aim at achieving the Sustainable Development Goal 4, which promotes quality education for all. In most regions, education is compulsory up to a certain age.

RIVER

A river is a natural flowing watercourse, usually freshwater, flowing towards an ocean, sea, lake or another river. In some cases, a river flows into the ground and becomes dry at the end of its course without reaching another body of water. Small rivers can be referred to using names such as stream, creek, brook, rivulet, and rill. There are no official definitions for the generic term river as applied to geographic features,^[1] although in some countries or communities a stream is defined by its size. Many names for small rivers are specific to geographic location; examples are "run" in some parts of the United States, "burn" in Scotland and northeast England, and "beck" in northern England. Sometimes a river is defined as being larger than a creek,^[2] but not always: the language is vague. Rivers are part of the hydrological cycle. Water generally collects in a river from precipitation through a drainage basin from surface runoff and other sources such as groundwater recharge, springs, and the release of stored water in natural ice and snowpacks (e.g., from glaciers).

Rivers and streams are often considered major features within a landscape; however, they actually only cover around 0.1% of the land on Earth. They are made more obvious and significant to humans since many human cities and civilizations are built around the freshwater supplied by rivers and streams.^[3] Most of the major cities of the world are situated on the banks of rivers, as they are, or were, used as a source of water, for obtaining food, for transport, as borders, as a defensive measure, as a source of hydropower to drive machinery, for bathing, and as a means of disposing of waste

BANK

A bank is a financial institution that accepts deposits from the public and creates a demand deposit while simultaneously making loans.^[1] Lending activities can be directly performed by the bank or indirectly through capital markets. Because banks play an important role in financial stability and the economy of a country, most jurisdictions exercise a high degree of regulation over banks. Most countries have institutionalized a system known as fractional reserve banking, under which banks hold liquid assets equal to only a portion of their current liabilities. In addition to other regulations intended to ensure liquidity, banks are generally subject to minimum capital requirements based on an international set of capital standards, the Basel Accords.

Banking in its modern sense evolved in the fourteenth century in the prosperous cities of Renaissance Italy but in many ways functioned as a continuation of ideas and concepts of credit and lending that had their roots in the ancient world. In the history of banking, a number of banking dynasties — notably, the Medici's, the Fuggers, the Welsers, the Berenbergs, and the Rothschilds — have played a central role over many centuries. The oldest existing retail bank is Banca Monte dei Paschi di Siena (founded in 1472), while the oldest existing merchant bank is Berenberg Bank (founded in 1590).

ARMY

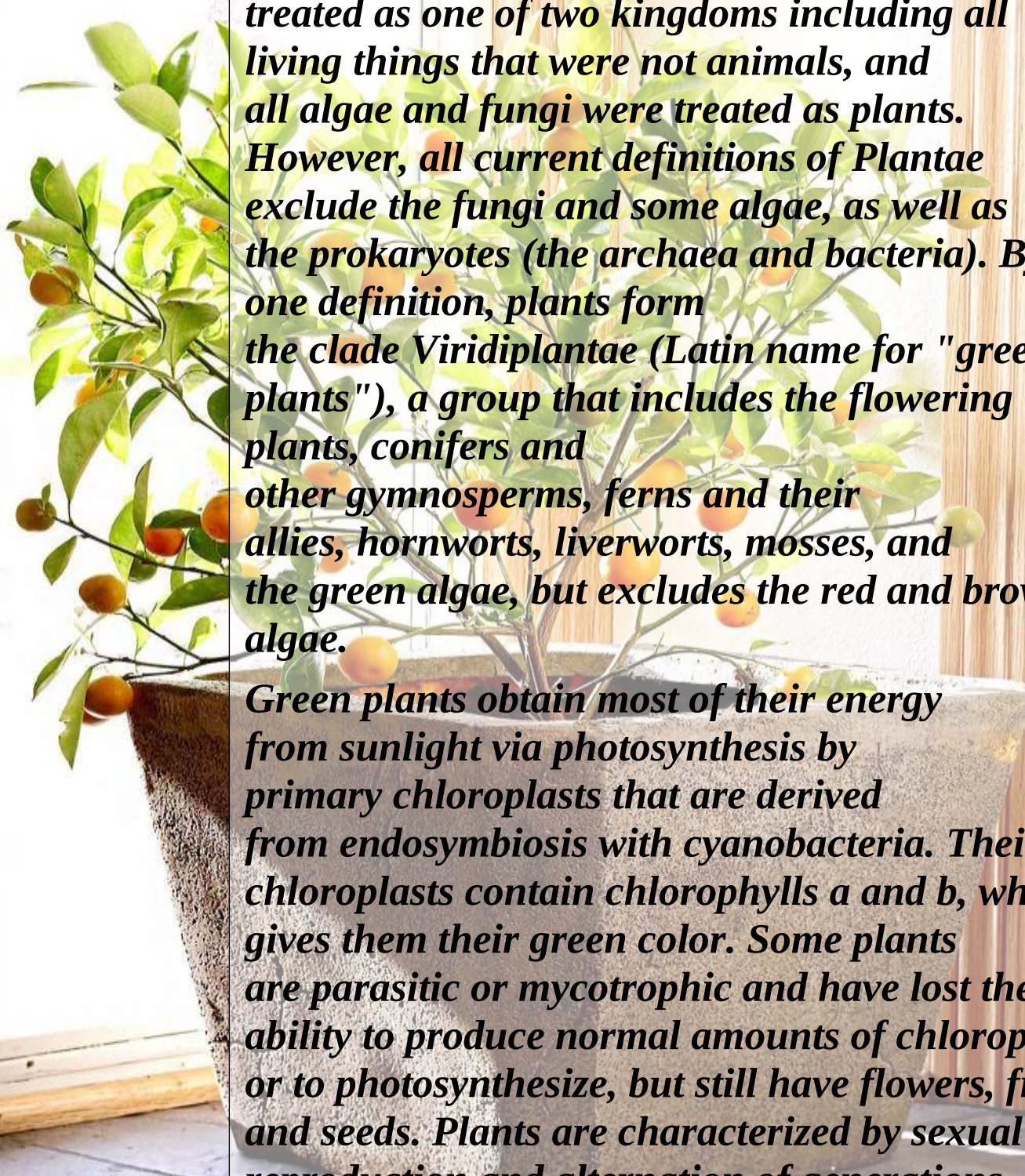
An army (from Latin arma "arms, weapons" via Old French armée, "armed" [feminine]), ground force or land force is a fighting force that fights primarily on land. In the broadest sense, it is the land-based military branch, service branch or armed service of a nation or state. It may also include aviation assets by possessing an army aviation component. Within a national military force, the word army may also mean a field army.

In some countries, such as France and China, the term "army", especially in its plural form "armies", has the broader meaning of armed forces as a whole, while retaining the colloquial sense of land forces. To differentiate the colloquial army from the formal concept of military force, the term is qualified, for example in France the land force is called Armée de terre, meaning Land Army, and the air and space force is called Armée de l'Air et de l'Espace, meaning Air and Space Army. The naval force, although not using the term "army", is also included in the broad sense of the term "armies" — thus the French Navy is an integral component of the collective French Armies (French Armed Forces) under the Ministry of the Armies. A similar pattern is seen in China, with the People's Liberation Army (PLA) being the overall military, the land force being the PLA Ground Force, and so forth for the PLA Air Force, the PLA Navy, and other branches.

EARTH

EARTH IS THE THIRD PLANET FROM THE SUN AND THE ONLY ASTRONOMICAL OBJECT KNOWN TO HARBOR AND SUPPORT LIFE. ABOUT 29.2% OF EARTH'S SURFACE IS LAND CONSISTING OF CONTINENTS AND ISLANDS. THE REMAINING 70.8% IS COVERED WITH WATER, MOSTLY BY OCEANS, SEAS, GULFS, AND OTHER SALT-WATER BODIES, BUT ALSO BY LAKES, RIVERS, AND OTHER FRESHWATER, WHICH TOGETHER CONSTITUTE THE HYDROSPHERE. MUCH OF EARTH'S POLAR REGIONS ARE COVERED IN ICE. EARTH'S OUTER LAYER IS DIVIDED INTO SEVERAL RIGID TECTONIC PLATES THAT MIGRATE ACROSS THE SURFACE OVER MANY MILLIONS OF YEARS, WHILE ITS INTERIOR REMAINS ACTIVE WITH A SOLID IRON INNER CORE, A LIQUID OUTER CORE THAT GENERATES EARTH'S MAGNETIC FIELD, AND A CONVECTIVE MANTLE THAT DRIVES PLATE TECTONICS. EARTH'S ATMOSPHERE CONSISTS MOSTLY OF NITROGEN AND OXYGEN. MORE SOLAR ENERGY IS RECEIVED BY TROPICAL REGIONS THAN POLAR REGIONS AND IS REDISTRIBUTED BY ATMOSPHERIC AND OCEAN CIRCULATION. GREENHOUSE GASES ALSO PLAY AN IMPORTANT ROLE IN REGULATING THE SURFACE TEMPERATURE. A REGION'S CLIMATE IS NOT ONLY DETERMINED BY LATITUDE, BUT ALSO BY ELEVATION AND PROXIMITY TO MODERATING OCEANS, AMONG OTHER FACTORS. SEVERE WEATHER, SUCH AS TROPICAL CYCLONES, THUNDERSTORMS, AND HEATWAVES, OCCURS IN MOST AREAS AND GREATLY IMPACTS LIFE.

PLANTS



Plants are mainly multicellular organisms, predominantly photosynthetic eukaryotes of the kingdom Plantae. Historically, plants were treated as one of two kingdoms including all living things that were not animals, and all algae and fungi were treated as plants. However, all current definitions of Plantae exclude the fungi and some algae, as well as the prokaryotes (the archaea and bacteria). By one definition, plants form the clade Viridiplantae (Latin name for "green plants"), a group that includes the flowering plants, conifers and other gymnosperms, ferns and their allies, hornworts, liverworts, mosses, and the green algae, but excludes the red and brown algae.

Green plants obtain most of their energy from sunlight via photosynthesis by primary chloroplasts that are derived from endosymbiosis with cyanobacteria. Their chloroplasts contain chlorophylls a and b, which gives them their green color. Some plants are parasitic or mycotrophic and have lost the ability to produce normal amounts of chlorophyll or to photosynthesize, but still have flowers, fruits, and seeds. Plants are characterized by sexual reproduction and alternation of generations, although asexual reproduction is also common.

IRAN

Iran is a country in Western Asia. It is bordered to the northwest by Armenia and Azerbaijan,^[b] to the north by the Caspian Sea, to the northeast by Turkmenistan, to the east by Afghanistan, to the southeast by Pakistan, to the south by the Persian Gulf and the Gulf of Oman, and to the west by Turkey and Iraq. Iran covers an area of 1,648,195 km² (636,372 sq mi), with a population of 83 million. It is the second-largest country in the Middle East, and its capital and largest city is Tehran.

Iran is home to one of the world's oldest civilizations,^{[12][13]} beginning with the formation of the Elamite kingdoms in the fourth millennium BC. It was first unified by the Iranian Medes in the seventh century BC,^[14] and reached its territorial height in the sixth century BC, when Cyrus the Great founded the Achaemenid Empire, which became one of the largest empires in history and the world's first superpower.^[15] The empire fell to Alexander the Great in the fourth century BC and was divided into several Hellenistic states. An Iranian rebellion established the Parthian Empire in the third century BC, which was succeeded in the third century AD by the Sasanian Empire, a major world power for the next four centuries.^{[16][17]} Arab Muslims conquered the empire in the seventh century AD, which led to the Islamization of Iran. It subsequently becoming a major center of Islamic culture and learning, with its art, literature, philosophy, and architecture spreading across the Muslim world and beyond during the Islamic Golden Age. Over the next two centuries, a series of native Muslim dynasties emerged before the Seljuq Turks and the Mongols conquered the region.

AMERICA

The United States of America (U.S.A. or USA), commonly known as the United States (U.S. or US) or America, is a country primarily located in North America. It consists of 50 states, a federal district, five major unincorporated territories, 326 Indian reservations, and some minor possessions.^[i] At 3.8 million square miles (9.8 million square kilometers), it is the world's third- or fourth-largest country by total area.^[c] The United States shares significant land borders with Canada to the north and Mexico to the south, as well as limited maritime borders with the Bahamas, Cuba, and Russia.^[22] With a population of more than 331 million people, it is the third most populous country in the world. The national capital is Washington, D.C., and the most populous city is New York.

Paleo-Indians migrated from Siberia to the North American mainland at least 12,000 years ago, and European colonization began in the 16th century. The United States emerged from the thirteen British colonies established along the East Coast. Disputes over taxation and political representation with Great Britain led to the American Revolutionary War (1775–1783), which established independence. In the late 18th century, the U.S. began expanding across North America, gradually obtaining new territories, sometimes through war, frequently displacing Native Americans, and admitting new states; by 1848, the United States spanned the continent. Slavery was legal in the southern United States until the second half of the 19th century when the American Civil War led to its abolition. The Spanish–American War and World War I established the U.S. as a world power, a status confirmed by the outcome of World War II.

NETHERLAND

Netherland is a country located in Western Europe with territories in the Caribbean. It is the largest of four constituent countries of the Kingdom of the Netherlands.^{[17][18][19]} In Europe, the Netherlands consists of twelve provinces, bordering Germany to the east, Belgium to the south, and the North Sea to the northwest, with maritime borders in the North Sea with those countries and the United Kingdom.^[20] In the Caribbean, it consists of three special municipalities: the islands of Bonaire, Sint Eustatius and Saba.^[i] The country's official language is Dutch, with West Frisian as a secondary official language in the province of Friesland, and English and Papiamentu as secondary official languages in the Caribbean Netherlands.^[1] Dutch Low Saxon and Limburgish are recognized regional languages (spoken in the east and southeast respectively), while Dutch Sign Language, Sinte Romani, and Yiddish are recognized non-territorial languages.^{[1][2]}

The four largest cities in the Netherlands are Amsterdam, Rotterdam, The Hague, and Utrecht.^[22] Amsterdam is the country's most populous city and nominal capital,^[23] while The Hague holds the seat of the States General, Cabinet and Supreme Court.^[24] The Port of Rotterdam is the busiest seaport in Europe, and the busiest in any country outside East Asia and Southeast Asia, behind only China and Singapore.^[25] Amsterdam Airport Schiphol is the busiest airport in the Netherlands, and the third busiest in Europe. The country is a founding member of the European Union, Eurozone, G10, NATO, OECD, and WTO, as well as a part of the Schengen Area and the trilateral Benelux Union. It hosts several intergovernmental organizations and international courts, many of which are centered in The Hague, which is consequently dubbed 'the world's legal capital'.

HOSPITAL

A hospital is a health care institution providing patient treatment with specialized medical and nursing staff and medical equipment.^[1] The best-known type of hospital is the general hospital, which typically has an emergency department to treat urgent health problems ranging from fire and accident victims to a sudden illness. A district hospital typically is the major health care facility in its region, with many beds for intensive care and additional beds for patients who need long-term care. Specialized hospitals include trauma centers, rehabilitation hospitals, children's hospitals, seniors' (geriatric) hospitals, and hospitals for dealing with specific medical needs such as psychiatric treatment (see psychiatric hospital) and certain disease categories. Specialized hospitals can help reduce health care costs compared to general hospitals.^[2] Hospitals are classified as general, specialty, or government depending on the sources of income received.

A teaching hospital combines assistance to people with teaching to medical students and nurses. A medical facility smaller than a hospital is generally called a clinic. Hospitals have a range of departments (e.g. surgery and urgent care) and specialist units such as cardiology. Some hospitals have outpatient departments and some have chronic treatment units. Common support units include a pharmacy, pathology, and radiology.

Hospitals are typically funded by public funding, health organizations (for profit or nonprofit), health insurance companies, or charities, including direct charitable donations. Historically, hospitals were often founded and funded by religious orders, or by charitable individuals and leaders

TAJIKISTAN

Tajikistan is a landlocked country in Central Asia with an area of 143,100 km² (55,300 sq mi) and an estimated population of 9,537,645 people.^[15] Its capital and largest city is Dushanbe. It is bordered by Afghanistan to the south, Uzbekistan to the west, Kyrgyzstan to the north and China to the east. The traditional homelands of the Tajik people include present-day Tajikistan as well as parts of Afghanistan.

The territory that now constitutes Tajikistan was previously home to several ancient cultures, including the city of Sarazm of the Neolithic and the Bronze Age and was later home to kingdoms ruled by people of different faiths and cultures, including the Oxus Valley Civilisation, Andronovo Culture, Buddhism, Nestorian Christianity, Hinduism, Zoroastrianism, Manichaeism and Islam. The area has been ruled by numerous empires and dynasties, including the Achaemenid Empire, Sasanian Empire, Hephthalite Empire, Samanid Empire and the Mongol Empire. After being ruled by the Timurid dynasty and the Khanate of Bukhara, the Timurid Renaissance flourished. The region was later conquered by the Russian Empire and subsequently by the Soviet Union. Within the Soviet Union, the country's modern borders were drawn when it was part of Uzbekistan as an autonomous republic before becoming a full-fledged Soviet republic in 1929.

UZBEKISTAN

uzbakistan is a doubly landlocked country in Central Asia. It is surrounded by five countries: Kazakhstan to the north; Kyrgyzstan to the northeast; Tajikistan to the southeast; Afghanistan to the south, Turkmenistan to the south-west. Its capital and largest city is Tashkent. Uzbekistan is part of the Turkic speaking world, as well as a member of the Turkic Council. Uzbek, a Turkic language written in a modified Latin alphabet is spoken natively by approximately 85% of the population. Russian has widespread use as an inter-ethnic tongue and in governance. Uzbeks constitute 81% of the population, followed by Russians (5.4%), Tajiks (4.0%), Kazakhs (3.0%) and others (6.5%). Islam is the majority religion in Uzbekistan, with the majority of Uzbeks being non-denominational Muslims

The first recorded settlers on what is now Uzbekistan were Eastern Iranian nomads, known as Scythians, who founded kingdoms in Khwarazm (8th–6th centuries BC), Bactria (8th–6th centuries BC), Sogdia (8th–6th centuries BC), Fergana (3rd century BC – 6th century AD), and Margiana (3rd century BC – 6th century AD).^[16] The area was incorporated into the Iranian Achaemenid Empire and, after a period of Macedonian rule, was ruled by the Iranian Parthian Empire and later by the Sasanian Empire, until the Muslim conquest of Persia in the seventh century. The Early Muslim conquests converted most of the people, including the local ruling classes, into adherents of Islam. During this period, cities such as Samarkand, Khiva, and Bukhara began to grow rich from the Silk Road, and witnessed the emergence of leading figures of the Islamic Golden Age, including Muhammad al-Bukhari, Al-Tirmidhi, Ismail Samani, al-Biruni, and Avicenna.

TURKMENIS

Turkmenistan is a country in Central Asia, bordered by Kazakhstan to the northwest, Uzbekistan to the north, east and northeast, Afghanistan to the southeast, Iran to the south and southwest and the Caspian Sea to the west. Ashgabat is the capital and largest city of the country. The population of the country is about 6 million, the lowest of the Central Asian republics. Turkmenistan is one of the most sparsely populated nations in Asia. Citizens of Turkmenistan are known as Turkmenistanis, Turkmenians or Turkmens.

Turkmenistan has been at the crossroads of civilizations for centuries; Merv is one of the oldest oasis-cities in Central Asia and was once the biggest city in the world. In medieval times, Merv was also one of the great cities of the Islamic world and an important stop on the Silk Road. Annexed by the Russian Empire in 1881, Turkmenistan later figured prominently in the anti-Bolshevik movement in Central Asia. In 1925, Turkmenistan became a constituent republic of the Soviet Union, the Turkmen Soviet Socialist Republic (Turkmen SSR); it became independent after the dissolution of the Soviet Union in 1991.

CHINA

china is a country in East Asia. It is the world's most populous country, with a population of more than 1.4 billion. China follows a single standard time offset of UTC+08:00 even though it spans five geographical time zones and borders 14 countries, the second most of any country in the world after Russia. Covering an area of approximately 9.6 million square kilometers (3.7 million mi²), it is the world's third or fourth largest country. The country is officially divided into 23 provinces, five autonomous regions, and four direct-controlled municipalities of Beijing (capital city), Tianjin, Shanghai (largest city), and Chongqing, as well as two special administrative regions, Hong Kong and Macau.

China emerged as one of the world's first civilizations, in the fertile basin of the Yellow River in the North China Plain. China was one of the world's foremost economic powers for most of the two millennia from the 1st until the 19th century. For millennia, China's political system was based on absolute hereditary monarchies, or dynasties, beginning with the Xia dynasty in 21st century BCE. Since then, China has expanded, fractured, and re-unified numerous times. In the 3rd century BCE, the Qin reunited core China and established the first Chinese empire. The succeeding Han dynasty (206 BCE–220 CE) saw some of the most advanced technology at that time, including papermaking and the compass, along with agricultural and medical improvements.

INDIA

is a country in South Asia. It is 100 largest country in population and seventh largest country by land area. It is also the most populous democracy in the world, bounded by the Indian Ocean on the south, the Arabian Sea on the southwest, and the Bay of Bengal on the southeast. It has seven neighbors: Pakistan in north-west, China, Nepal and Bhutan in north, Bangladesh and Myanmar in east and Sri Lanka in south. The Andaman and Nicobar Islands, a union territory of India, is also near Thailand and Indonesia along with Myanmar.

The capital of India is New Delhi. India is a peninsula, bound by the Indian Ocean in the south, the Arabian Sea on the west and Bay of Bengal in the east. The coastline of India is of about 7,517 km (4,671 mi) long. India has the third largest military force in the world and is also a nuclear weapon state.

India's economy became the world's fastest growing in the G20 developing nations during the last quarter of 2014, replacing the People's Republic of China. India's literacy and wealth are also rising.^[20] According to New World Wealth, India is the seventh richest country in the world with a total individual wealth of \$5.6 trillion. However, it still has many social and economic issues like poverty and corruption. India is a founding member of the World Trade Organization (WTO), and has signed the Kyoto Protocol.

PAKISTAN

is a country in South Asia. It is the world's fifth-most populous country, with a population exceeding 225.2 million, and has the world's second-largest Muslim population. Pakistan is the 33rd-largest country by area, spanning 881,913 square kilometres (340,509 square miles). It has a 1,046-kilometre (650-mile) coastline along the Arabian Sea and Gulf of Oman in the south, and is bordered by India to the east, Afghanistan to the west, Iran to the southwest, and China to the northeast. It is separated narrowly from Tajikistan by Afghanistan's Wakhan Corridor in the north, and also shares a maritime border with Oman.

Pakistan is the site of several ancient cultures, including the 8,500-year-old Neolithic site of Mehrgarh in Balochistan, and the Indus Valley Civilisation of the Bronze Age, the most extensive of the civilisations of the Old World. The region that comprises the modern state of Pakistan was the realm of multiple empires and dynasties, including the Achaemenid; briefly that of Alexander the Great; the Seleucid, the Maurya, the Kushan, the Gupta; the Umayyad Caliphate in its southern regions, the Hindu Shahi, the Ghaznavids, the Delhi Sultanate, the Mughals, the Durranis, the Sikh Empire, British East India Company rule, and most recently, the British Indian Empire from 1858 to 1947.

ROAD

A road is a wide way leading from one place to another, especially one with a specially prepared surface which vehicles can use.

Roads consist of one or two roadways (British English: carriageways), each with one or more lanes and any associated sidewalks (British English: pavement) and road verges. A bike path (British English: cycle path) - a road for use by bicycles - may or may not run in parallel with other road

Historically many roads were simply recognizable routes without any formal construction or maintenance.

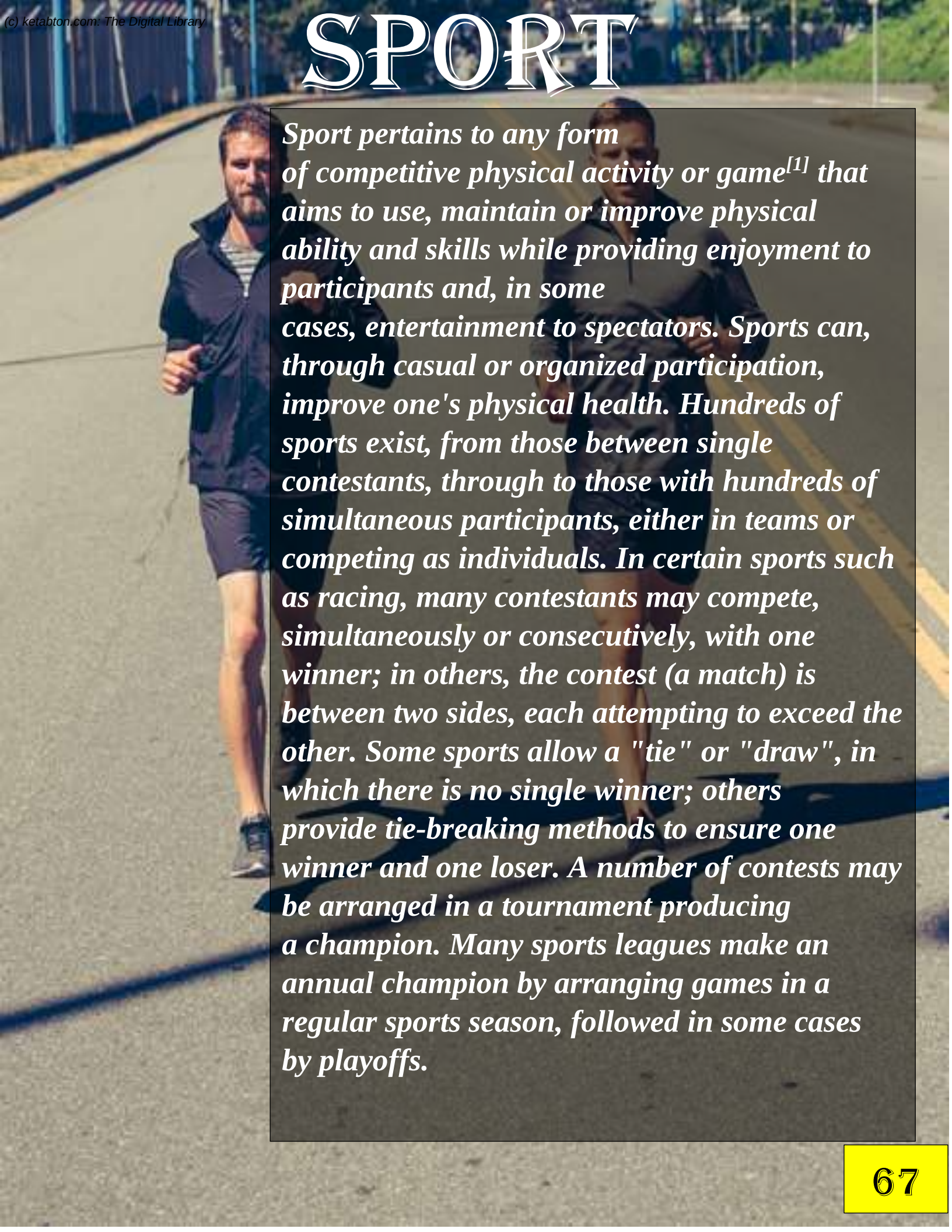
The Organization for Economic Co-operation and Development (OECD) defines a road as "a line of communication (travelled way) using a stabilized base other than rails or air strips open to public traffic, primarily for the use of road motor vehicles running on their own wheels", which includes "bridges, tunnels, supporting structures, junctions, crossings, interchanges, and toll roads, but not cycle paths".

The Eurostat, ITF and UNECE Glossary for Transport Statistics Illustrated defines a road as a "Line of communication (traveled way) open to public traffic, primarily for the use of road motor vehicles, using a stabilized base other than rails or air strips. [...] Included are paved roads and other roads with a stabilized base, e.g. gravel roads. Roads also cover streets, bridges, tunnels, supporting structures, junctions, crossings and interchanges. Toll roads are also included. Excluded are dedicated cycle lanes."

The 1968 Vienna Convention on Road Traffic defines a road as the entire surface of any way or street open to public traffic.

In urban areas roads may diverge through a city or village and be named as streets, serving a dual function as urban space easement and route. Modern roads are normally smoothed, paved, or otherwise prepared to allow easy travel.

SPORT

A photograph of two men running on a paved path outdoors. The man in the foreground is wearing a dark blue jacket and black shorts, running towards the camera. The man behind him is wearing a grey shirt and black shorts, also running. The background shows a paved path, some greenery, and a blue fence.

Sport pertains to any form of competitive physical activity or game^[1] that aims to use, maintain or improve physical ability and skills while providing enjoyment to participants and, in some cases, entertainment to spectators. Sports can, through casual or organized participation, improve one's physical health. Hundreds of sports exist, from those between single contestants, through to those with hundreds of simultaneous participants, either in teams or competing as individuals. In certain sports such as racing, many contestants may compete, simultaneously or consecutively, with one winner; in others, the contest (a match) is between two sides, each attempting to exceed the other. Some sports allow a "tie" or "draw", in which there is no single winner; others provide tie-breaking methods to ensure one winner and one loser. A number of contests may be arranged in a tournament producing a champion. Many sports leagues make an annual champion by arranging games in a regular sports season, followed in some cases by playoffs.

NEW YORK

New York, often called New York City to distinguish it from New York State, or NYC for short, is the most populous city in the United States. With a 2020 population of 8,804,190 distributed over 302.6 square miles (784 km²), New York City is also the most densely populated major city in the United States. Located at the southern tip of the State of New York, the city is the center of the New York metropolitan area, the largest metropolitan area in the world by urban area. With over 20 million people in its metropolitan statistical area and approximately 23 million in its combined statistical area, it is one of the world's most populous megacities. New York City has been described as the cultural, financial, and media capital of the world, significantly influencing commerce, entertainment, research, technology, education, politics, tourism, art, fashion, and sports, and is the most photographed city in the world. Home to the headquarters of the United Nations,^[13] New York is an important center for international diplomacy, and has sometimes been called the capital of the world.

KANDAHAR

Kandahar is a city in Afghanistan, located in the south of the country on the Arghandab River, at an elevation of 1,010 m (3,310 ft). It is Afghanistan's second largest city after Kabul, with a population of about 614,118.^[2] It is the capital of Kandahar Province as well as the de facto capital of the Taliban, formally known as the Islamic Emirate of Afghanistan. It also happens to be the center of the larger cultural region called Loy Kandahar. In 1709, Mirwais Hotak made the region an independent kingdom and turned Kandahar into the capital of the Hotak dynasty. In 1747, Ahmad Shah Durrani, founder of the Durrani dynasty, made Kandahar the capital of the Afghan Empire.^{[3][4]}

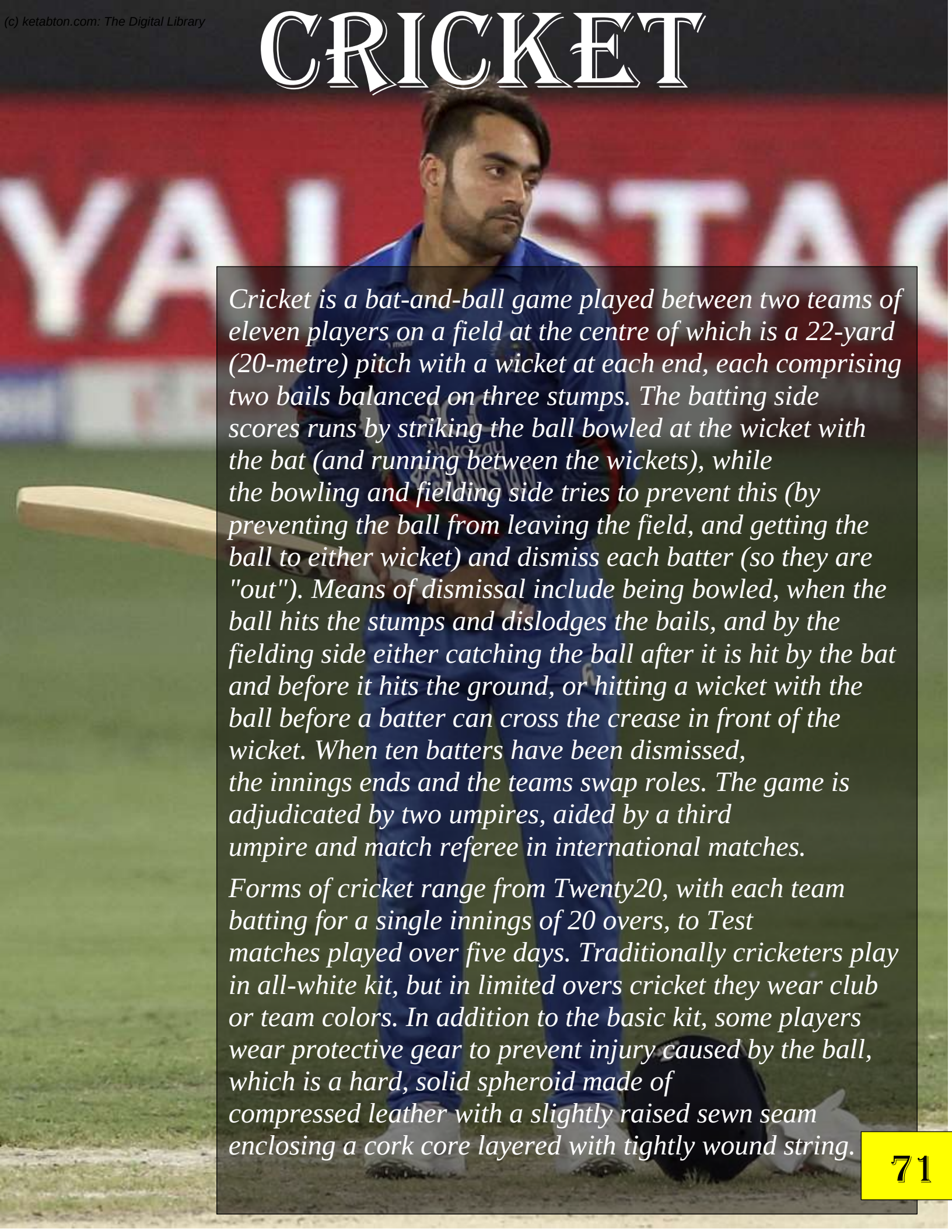
Kandahar is one of the most culturally significant cities of the Pashtuns and has been their traditional seat of power for more than 300 years. It is a major trading center for sheep, wool, cotton, silk, felt, food grains, fresh and dried fruit, and tobacco. The region produces fine fruits, especially pomegranates and grapes, and the city has plants for canning, drying, and packing fruit, and is a major source of marijuana and hashish.

DUBAI

Dubai is the most populous city in the United Arab Emirates (UAE) and the capital of the Emirate of Dubai. Established in the 18th century as a small fishing village, the city grew rapidly in the early 21st century into a cosmopolitan metropolis with a focus on tourism and hospitality. Dubai is one of the world's most popular tourist destinations with the second most five-star hotels in the world, and the tallest building in the world, the Burj Khalifa.

Located in the eastern part of the Arabian Peninsula on the coast of the Persian Gulf, Dubai aims to be the business hub of Western Asia. It is also a major global transport hub for passengers and cargo. Oil revenue helped accelerate the development of the city, which was already a major mercantile hub. A center for regional and international trade since the early 20th century, Dubai's economy relies on revenues from trade, tourism, aviation, real estate, and financial services. Oil production contributed less than 1 percent of the emirate's GDP in 2018. According to government data, the population of Dubai is estimated at around 3,400,800 as of 8 September 2020.

CRICKET



Cricket is a bat-and-ball game played between two teams of eleven players on a field at the centre of which is a 22-yard (20-metre) pitch with a wicket at each end, each comprising two bails balanced on three stumps. The batting side scores runs by striking the ball bowled at the wicket with the bat (and running between the wickets), while the bowling and fielding side tries to prevent this (by preventing the ball from leaving the field, and getting the ball to either wicket) and dismiss each batter (so they are "out"). Means of dismissal include being bowled, when the ball hits the stumps and dislodges the bails, and by the fielding side either catching the ball after it is hit by the bat and before it hits the ground, or hitting a wicket with the ball before a batter can cross the crease in front of the wicket. When ten batters have been dismissed, the innings ends and the teams swap roles. The game is adjudicated by two umpires, aided by a third umpire and match referee in international matches.

Forms of cricket range from Twenty20, with each team batting for a single innings of 20 overs, to Test matches played over five days. Traditionally cricketers play in all-white kit, but in limited overs cricket they wear club or team colors. In addition to the basic kit, some players wear protective gear to prevent injury caused by the ball, which is a hard, solid spheroid made of compressed leather with a slightly raised sewn seam enclosing a cork core layered with tightly wound string.

FLOOD

A flood is an overflow of water that submerges land that is usually dry.^[1] In the sense of "flowing water", the word may also be applied to the inflow of the tide. Floods are an area of study of the discipline hydrology and are of significant concern in agriculture, civil engineering and public health. Human changes to the environment often increase the intensity and frequency of flooding, for example land use changes such as deforestation and removal of wetlands, changes in waterway course or flood controls such as with levees, and larger environmental issues such as climate change and sea level rise. In particular climate change's increased rainfall and extreme weather events increases the severity of other causes for flooding, resulting in more intense floods and increased flood risk.^{[2][3]}

Flooding may occur as an overflow of water from water bodies, such as a river, lake, or ocean, in which the water overtops or breaks levees, resulting in some of that water escaping its usual boundaries,^[4] or it may occur due to an accumulation of rainwater on saturated ground in an areal flood. While the size of a lake or other body of water will vary with seasonal changes in precipitation and snow melt, these changes in size are unlikely to be considered significant unless they flood property or drown domestic animals.

STORM

A storm is any disturbed state of an environment or in an astronomical body's atmosphere especially affecting its surface, and strongly implying severe weather. It may be marked by significant disruptions to normal conditions such as

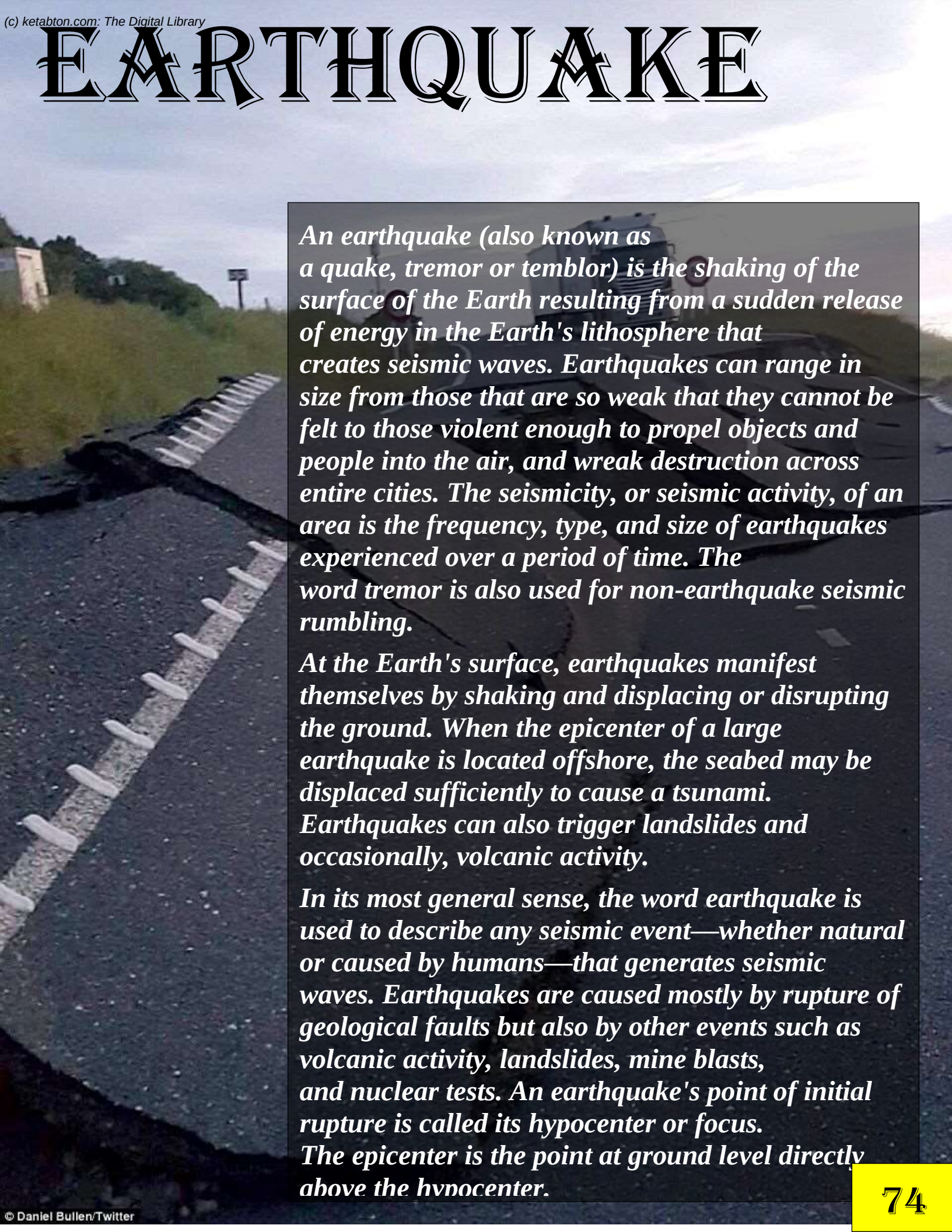
strong wind, tornadoes, hail, thunder and lightning (a thunderstorm), heavy precipitation (snowstorm, rainstorm), heavy freezing rain (ice storm), strong winds (tropical cyclone, windstorm), or wind transporting some substance through the atmosphere as in a dust storm, blizzard, sandstorm, etc.

Storms have the potential to harm lives and property via storm surge, heavy rain or snow causing flooding or road impassibility, lightning, wildfires, and vertical and horizontal wind shear. Systems with significant rainfall and duration help alleviate drought in places they move through. Heavy snowfall can allow special recreational activities to take place which would not be possible otherwise, such as skiing and snowmobiling.

*The English word comes from Proto-Germanic *sturmaz meaning "noise, tumult".^[1]*

Storms are created when a center of low pressure develops with the system of high pressure surrounding it. This combination of opposing forces can create winds and result in the formation of storm clouds such as cumulonimbus. Small localized areas of low pressure can form from hot air rising off hot ground, resulting in smaller disturbances such as dust devils and whirlwinds

EARTHQUAKE



An earthquake (also known as a quake, tremor or temblor) is the shaking of the surface of the Earth resulting from a sudden release of energy in the Earth's lithosphere that creates seismic waves. Earthquakes can range in size from those that are so weak that they cannot be felt to those violent enough to propel objects and people into the air, and wreak destruction across entire cities. The seismicity, or seismic activity, of an area is the frequency, type, and size of earthquakes experienced over a period of time. The word tremor is also used for non-earthquake seismic rumbling.

At the Earth's surface, earthquakes manifest themselves by shaking and displacing or disrupting the ground. When the epicenter of a large earthquake is located offshore, the seabed may be displaced sufficiently to cause a tsunami. Earthquakes can also trigger landslides and occasionally, volcanic activity.

In its most general sense, the word earthquake is used to describe any seismic event—whether natural or caused by humans—that generates seismic waves. Earthquakes are caused mostly by rupture of geological faults but also by other events such as volcanic activity, landslides, mine blasts, and nuclear tests. An earthquake's point of initial rupture is called its hypocenter or focus. The epicenter is the point at ground level directly above the hypocenter.

PILOT

An aircraft pilot or aviator is a person who controls the flight of an aircraft by operating its directional flight controls. Some other aircrew members, such as navigators or flight engineers, are also considered aviators, because they are involved in operating the aircraft's navigation and engine systems. Other aircrew members, such as drone operators, flight attendants, mechanics and ground crew, are not classified as aviators. The first recorded use of the term aviator (aviator in French) was in 1887, as a variation of "aviation", from the Latin Avis (meaning bird), coined in 1863 by G. de la Lanelle in Aviation Our Navigation Aérienne ("Aviation or Air Navigation"). The term aviatrix (aviatrice in French), now archaic, was formerly used for a female aviator. These terms were used more in the early days of aviation, when airplanes were extremely rare, and connoted bravery and adventure. For example, a 1905 reference work described the Wright brothers' first airplane: "The weight, including the body of the aviator, is a little more than 700 pounds".^[1]

To ensure the safety of people in the air and on the ground, early aviation soon required that aircraft be under the operational control of a properly trained, certified pilot at all times, who is responsible for the safe and legal completion of the flight. The Aéro-Club de France delivered the first certificate to Louis Blériot in 1908—followed by Glenn Curtiss, Léon Delagrè, and Robert Esnault-Pelterie. The British Royal Aero Club followed in 1910 and the Aero Club of America in 1911 (Glenn Curtiss receiving the first).

SWIMMING

Swimming is the self-propulsion of a person through water, or a liquid substance, usually for recreation, sport, exercise, or survival. Locomotion is achieved through coordinated movement of the limbs and the body. Humans can hold their breath underwater and undertake rudimentary locomotive swimming within weeks of birth, as a survival response.

Swimming is consistently among the top public recreational activities, and in some countries, swimming lessons are a compulsory part of the educational curriculum. As a formalized sport, swimming features in a range of local, national, and international competitions, including every modern Summer Olympics.

Swimming relies on the nearly neutral buoyancy of the human body. On average, the body has a relative density of 0.98 compared to water, which causes the body to float. However, buoyancy varies on the basis of body composition, lung inflation, muscle and fat content, center of gravity and the salinity of the water. Higher levels of body fat and saltier water both lower the relative density of the body and increase its buoyancy. Human males tend to have a lower center of gravity and higher muscle content, therefore find it more difficult to float or be buoyant. See also: Hydrostatic weighing.

Since the human body is very slightly less dense than water, water supports the weight of the body during swimming. As a result, swimming is “low-impact” compared to land activities such as running. The density and viscosity of water also create resistance for objects moving through the water. Swimming strokes use this resistance to create propulsion, but this same resistance also generates drag on the body.

STUDENT

A student is primarily a person enrolled in a school or other educational institution and who is under learning with goals of acquiring knowledge, developing professions and achieving employment at desired field.^[1] In the broader sense, a student is anyone who applies themselves to the intensive intellectual engagement with some matter necessary to master it as part of some practical affair in which such mastery is basic or decisive.

In the United Kingdom and most commonwealth countries, the term "student" denotes those enrolled in secondary schools and higher (e.g., college or university); those enrolled in primary/elementary schools are called "pupils".

In India school is categorized in these stages: Pre-primary (Nursery, Lower Kindergarten or LKG, Upper Kindergarten or UKG), Primary (Class 1–5), Secondary (6–10) and Higher Secondary (11–12). For undergraduate it is 3 years except Engineering (BTech or BE), Pharmacy (B. pharm), BSc agriculture which are 4-year degree course, Architecture (B.Arch.) which is a 5-year degree course and Medical (MBBS) which consists of a 4.5-year degree course and a 1-year internship, so 5.5 years in total.

PARIS

Paris is the capital and most populous city of France, with an estimated population of 2,175,601 residents as of 2018, in an area of more than 105 square kilometers (41 square miles). Since the 17th century, Paris has been one of Europe's major centers of finance, diplomacy, commerce, fashion, gastronomy, science, and arts. The City of Paris is the Centre and seat of government of the region and province of Île-de-France, or Paris Region, which has an estimated population of 12,174,880, or about 18 percent of the population of France as of 2017. The Paris Region had a GDP of €709 billion (\$808 billion) in 2017.^[6] According to the Economist Intelligence Unit Worldwide Cost of Living Survey in 2018, Paris was the second most expensive city in the world, after Singapore and ahead of Zürich, Hong Kong, Oslo, and Geneva.^[7] Another source ranked Paris as most expensive, on a par with Singapore and Hong Kong, in 2018.^{[8][9]}

Paris is a major railway, highway, and air-transport hub served by two international airports: Paris–Charles de Gaulle (the second-busiest airport in Europe) and Paris–Orly. Opened in 1900, the city's subway system, the Paris Metro, serves 5.23 million passengers daily;^[12] it is the second-busiest metro system in Europe after the Moscow Metro. Gare du Nord is the 24th-busiest railway station in the world, but the busiest located outside Japan, with 262 million passengers in 2015.

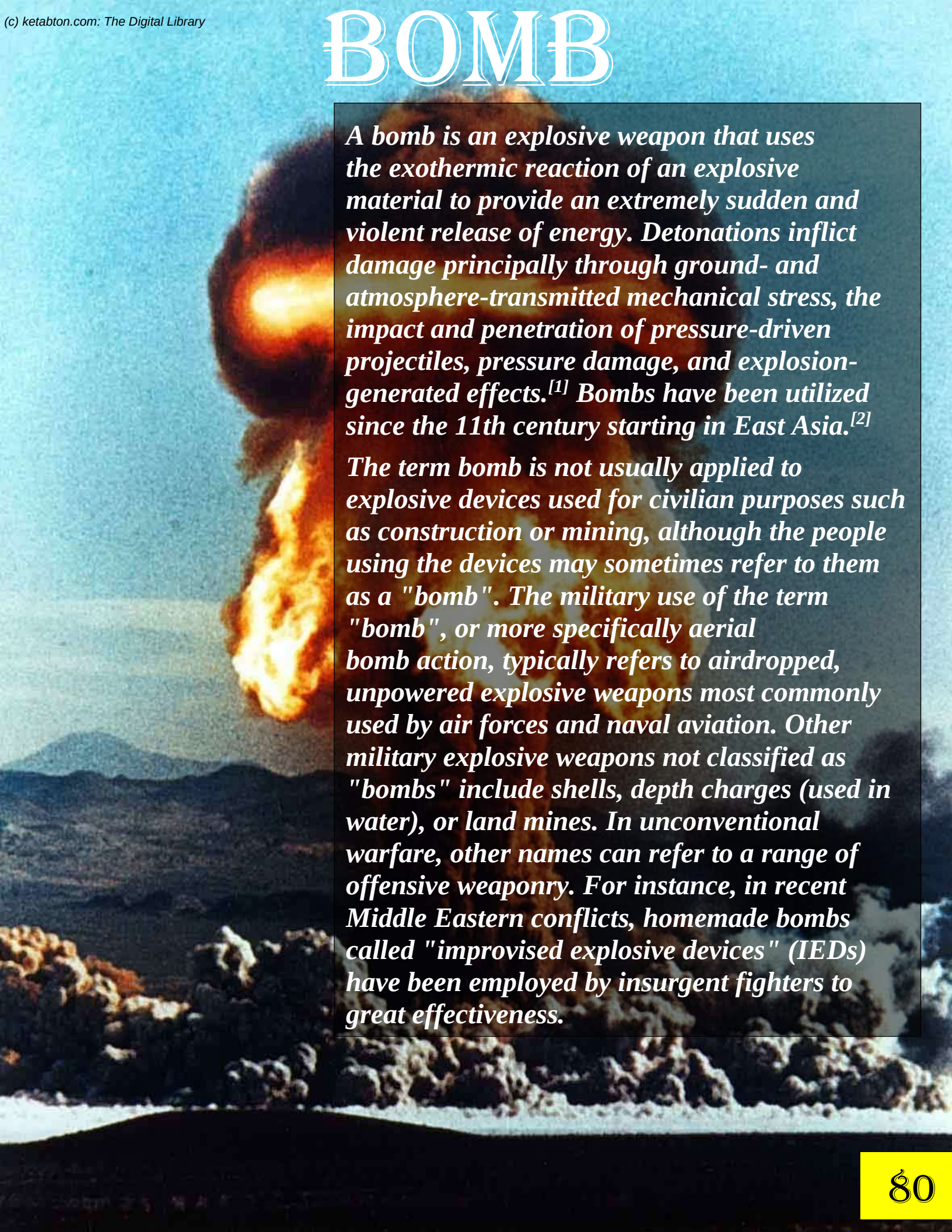
PASHTO

Spoken as a native language mostly by ethnic Pashtuns, it is one of the two official languages of Afghanistan, and is the second-largest regional language in Pakistan, mainly spoken in the northwestern province of Khyber Pakhtunkhwa and the northern districts of the Baluchistan province. Likewise, it is the primary language of the Pashtun diaspora around the world. The total number of Pashto speakers is at least 40 million, although some estimates place it as high as 60 million. Pashto is "one of the primary markers of ethnic identity" amongst Pashtuns. As a national language of Afghanistan, Pashto is primarily spoken in the east, south, and southwest, but also in some northern and western parts of the country. The exact number of speakers is unavailable, but different estimates show that Pashto is the mother tongue of 45–60% of the total population of Afghanistan.

In Pakistan, Pashto is spoken by 15% of its population, mainly in the northwestern province of Khyber Pakhtunkhwa and northern districts of Baluchistan province. Pashto-speakers are found in other major cities of Pakistan, most notably in Karachi, Sindh.

Other communities of Pashto speakers are found in India, Tajikistan, and northeastern Iran (primarily in South Khorasan Province to the east of Qaen, near the Afghan border). In India most ethnic Pashtun (Pathan) peoples speak the geographically native Hindi-Urdu language instead of Pashto. However small numbers of Pashto speakers exist in India, namely the Sheen Khalai in Rajasthan, and the Pathan community in the city of Kolkata, often nicknamed the Kabuliwala ("people of Kabul").

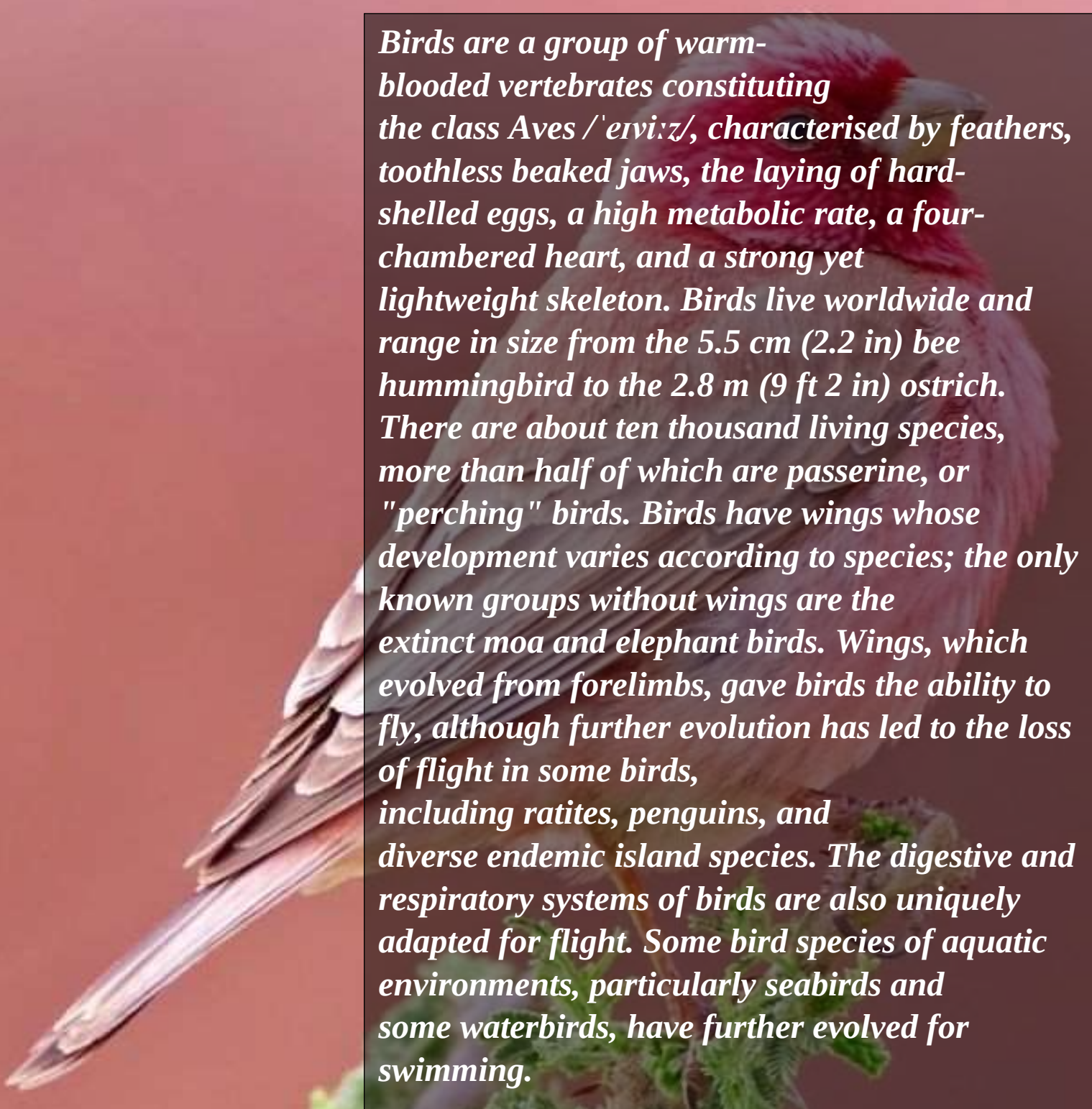
BOMB

A large, fiery explosion or bomb detonation in a landscape. The explosion is a massive, glowing orange and yellow sphere with a dark, billowing cloud of smoke and debris rising from it. The background shows a hazy, mountainous landscape under a clear blue sky. The foreground is dark and rocky, with some white smoke or dust rising from the ground.

A bomb is an explosive weapon that uses the exothermic reaction of an explosive material to provide an extremely sudden and violent release of energy. Detonations inflict damage principally through ground- and atmosphere-transmitted mechanical stress, the impact and penetration of pressure-driven projectiles, pressure damage, and explosion-generated effects.^[1] Bombs have been utilized since the 11th century starting in East Asia.^[2]

The term bomb is not usually applied to explosive devices used for civilian purposes such as construction or mining, although the people using the devices may sometimes refer to them as a "bomb". The military use of the term "bomb", or more specifically aerial bomb action, typically refers to airdropped, unpowered explosive weapons most commonly used by air forces and naval aviation. Other military explosive weapons not classified as "bombs" include shells, depth charges (used in water), or land mines. In unconventional warfare, other names can refer to a range of offensive weaponry. For instance, in recent Middle Eastern conflicts, homemade bombs called "improvised explosive devices" (IEDs) have been employed by insurgent fighters to great effectiveness.

BIRD



Birds are a group of warm-blooded vertebrates constituting the class Aves /'eɪvɪz/, characterised by feathers, toothless beaked jaws, the laying of hard-shelled eggs, a high metabolic rate, a four-chambered heart, and a strong yet lightweight skeleton. Birds live worldwide and range in size from the 5.5 cm (2.2 in) bee hummingbird to the 2.8 m (9 ft 2 in) ostrich. There are about ten thousand living species, more than half of which are passerine, or "perching" birds. Birds have wings whose development varies according to species; the only known groups without wings are the extinct moa and elephant birds. Wings, which evolved from forelimbs, gave birds the ability to fly, although further evolution has led to the loss of flight in some birds, including ratites, penguins, and diverse endemic island species. The digestive and respiratory systems of birds are also uniquely adapted for flight. Some bird species of aquatic environments, particularly seabirds and some waterbirds, have further evolved for swimming.

ANT

Ants are eusocial insects of the family Formicidae and, along with the related wasps and bees, belong to the order Hymenoptera. Ants appear in the fossil record across the globe in considerable diversity during the latest Early Cretaceous and early Late Cretaceous, suggesting an earlier origin. Ants evolved from vespoid wasp ancestors in the Cretaceous period, and diversified after the rise of flowering plants. More than 13,800 of an estimated total of 22,000 species have been classified. They are easily identified by their geniculate (elbowed) antennae and the distinctive node-like structure that forms their slender waists.

Ants form colonies that range in size from a few dozen predatory individuals living in small natural cavities to highly organized colonies that may occupy large territories and consist of millions of individuals. Larger colonies consist of various castes of sterile, wingless females, most of which are workers (ergates), as well as soldiers (diner gates) and other specialized groups. Nearly all ant colonies also have some fertile males called "drones" and one or more fertile females called "queens" (gynes). The colonies are described as superorganisms because the ants appear to operate as a unified entity, collectively working together to support the colony

ASIA

asia is Earth's largest and most populous continent, located primarily in the Eastern and Northern Hemispheres. It shares the continental landmass of Eurasia with the continent of Europe and the continental landmass of Afro-Eurasia with both Europe and Africa. Asia covers an area of 44,579,000 square kilometers (17,212,000 sq mi), about 30% of Earth's total land area and 8.7% of the Earth's total surface area. The continent, which has long been home to the majority of the human population,^[7] was the site of many of the first civilizations. Its 4.5 billion people (as of June 2019) constitute roughly 60% of the world's population.^[8]

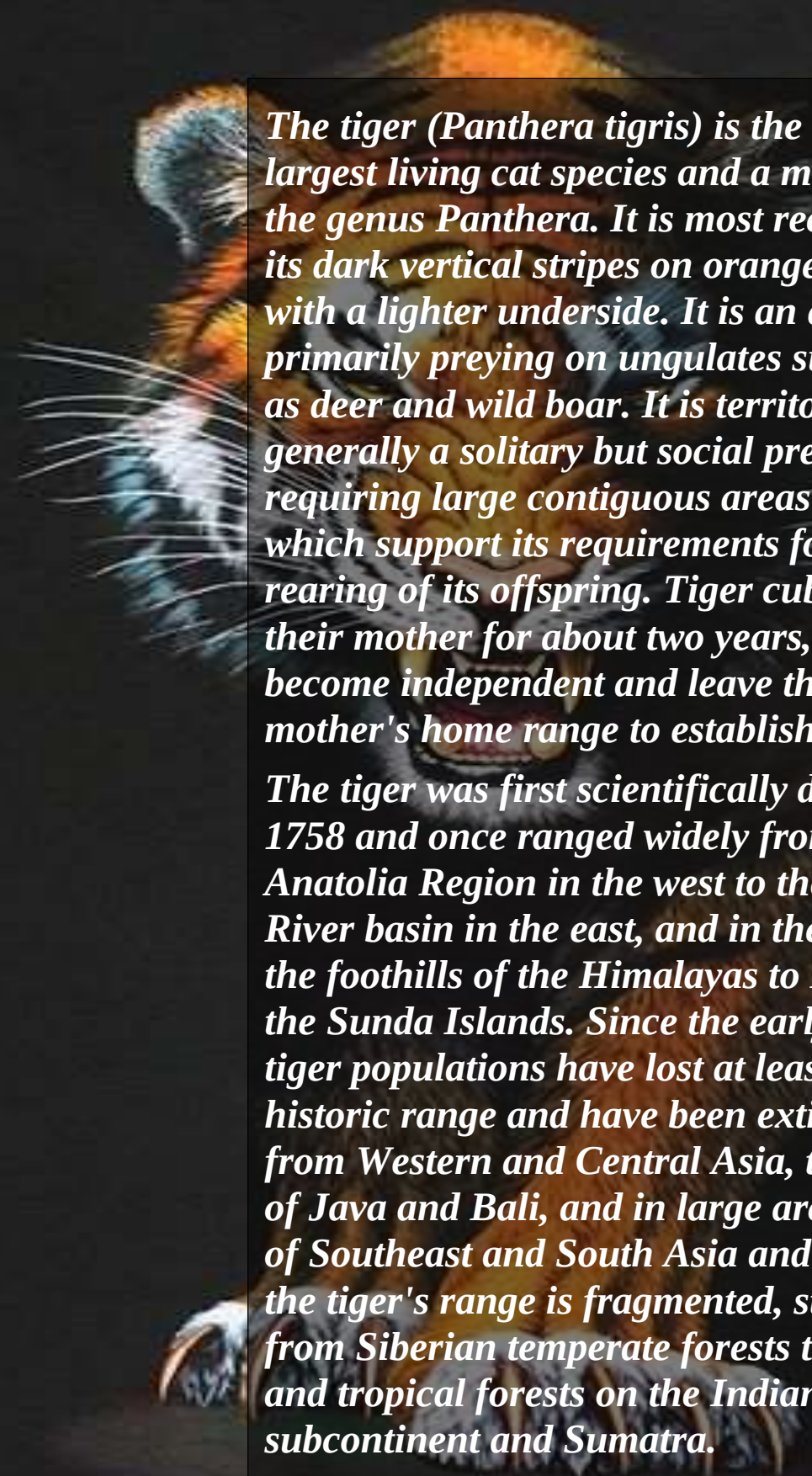
In general terms, Asia is bounded on the east by the Pacific Ocean, on the south by the Indian Ocean, and on the north by the Arctic Ocean. The border of Asia with Europe is a historical and cultural construct, as there is no clear physical and geographical separation between them. It is somewhat arbitrary and has moved since its first conception in classical antiquity. The division of Eurasia into two continents reflects East–West cultural, linguistic, and ethnic differences, some of which vary on a spectrum rather than with a sharp dividing line. The most commonly accepted boundaries place Asia to the east of the Suez Canal separating it from Africa; and to the east of the Turkish Straits, the Ural Mountains and Ural River, and to the south of the Caucasus Mountains and the Caspian and Black Seas, separating it from Europe.

TURKEY

turkey is a country bridging Europe and Asia. It shares borders with Greece and Bulgaria to the northwest; the Black Sea to the north; Georgia to the northeast; Armenia, Azerbaijan, and Iran to the east; Iraq to the southeast; Syria and the Mediterranean Sea to the south; and the Aegean Sea to the west. Turks form the vast majority of the nation's population and Kurds are the largest minority.^[4] Turkey's capital is Ankara while its largest city and financial centre is Istanbul.

One of the world's earliest permanently settled regions, present-day Turkey was home to important Neolithic sites like Göbekli Tepe, and was inhabited by ancient civilisations including the Hattians and Anatolian peoples.^{[11][12][13]} Hellenization started in the area during the era of Alexander the Great and continued into the Byzantine era.^{[12][14]} The Seljuk Turks began migrating in the 11th century, and the Sultanate of Rum ruled Anatolia until the Mongol invasion in 1243, when it disintegrated into small Turkish principalities. Beginning in the late 13th century, the Ottomans started uniting the principalities and conquering the Balkans, and the Turkification of Anatolia increased during the Ottoman period. After Mehmed II conquered Constantinople in 1453, Ottoman expansion continued under Selim I. During the reign of Suleiman the Magnificent, the Ottoman Empire became a global power.^{[11][16][17]} From the late 18th century onwards, the empire's power declined with a gradual loss of territories and wars.^[18] In an effort to consolidate the weakening empire, Mahmud II started a period of modernization in the early 19th century.

TIGER



*The tiger (*Panthera tigris*) is the largest living cat species and a member of the genus *Panthera*. It is most recognizable for its dark vertical stripes on orange-brown fur with a lighter underside. It is an apex predator, primarily preying on ungulates such as deer and wild boar. It is territorial and generally a solitary but social predator, requiring large contiguous areas of habitat, which support its requirements for prey and rearing of its offspring. Tiger cubs stay with their mother for about two years, before they become independent and leave their mother's home range to establish their own.*

The tiger was first scientifically described in 1758 and once ranged widely from the Eastern Anatolia Region in the west to the Amur River basin in the east, and in the south from the foothills of the Himalayas to Bali in the Sunda Islands. Since the early 20th century, tiger populations have lost at least 93% of their historic range and have been extirpated from Western and Central Asia, the islands of Java and Bali, and in large areas of Southeast and South Asia and China. Today, the tiger's range is fragmented, stretching from Siberian temperate forests to subtropical and tropical forests on the Indian subcontinent and Sumatra.

OCEAN

The ocean (also the sea or the world ocean) is the body of salt water which covers approximately 71% of the surface of the Earth and contains 97% of Earth's water. Another definition is "any of the large bodies of water into which the great ocean is divided".^[1] Separate names are used to identify five different areas of the ocean: Pacific (the largest) Atlantic, Indian, Southern (Antarctic), and Arctic (the smallest). Seawater covers approximately 361,000,000 km² (139,000,000 sq mi) of the planet. The ocean is the principal component of Earth's hydrosphere, and therefore integral to life on Earth. Acting as a huge heat reservoir, the ocean influences climate and weather patterns, the carbon cycle, and the water cycle.

Oceanographers divide the ocean into different vertical and horizontal zones based on physical and biological conditions. The pelagic zone consists of the water column from surface to ocean floor throughout the open ocean. The water column is further categorized in other zones depending on depth and on how much light is present. The photic zone includes water from the surface to a depth of 200 m, where photosynthesis can occur.

MONKEY

Monkey is a common name that may refer to most simian mammals of infraorder Simiiformes. Traditionally, all animals in the group now known as simians are counted as monkeys except the apes; in the broader sense based on cladistics, apes may also be included, making the terms monkeys and simians synonyms in regard of their scope. Monkeys are divided into the families of New World monkeys and Old World monkeys (which again include apes in the broader sense as parvorder Catarrhini, but not in the stricter sense as family Cercopithecidae).

Many monkey species are tree-dwelling (arboreal), although there are species that live primarily on the ground, such as baboons. Most species are mainly active during the day (diurnal). Monkeys are generally considered to be intelligent, especially the Old World monkeys.

Simians and tarsiers emerged within haplorrhines some 60 million years ago. New World monkeys and catarrhine monkeys emerged within the simians some 35 million years ago. Old World monkeys and Hominoidea emerged within the catarrhine monkeys some 25 million years ago. Extinct basal simians such as Aegyptopithecus or Parapithecus [35–32 million years ago] are also considered monkeys by primatologists.

FISH

Fish are aquatic, craniate, gill-bearing animals that lack limbs with digits. Included in this definition are the living hagfish, lampreys, and cartilaginous and bony fish as well as various extinct related groups. Around 99% of living fish species are ray-finned fish, belonging to the class Actinopterygii, with over 95% belonging to the teleost subgrouping.

The earliest organisms that can be classified as fish were soft-bodied chordates that first appeared during the Cambrian period. Although they lacked a true spine, they possessed notochords which allowed them to be more agile than their invertebrate counterparts. Fish would continue to evolve through the Paleozoic era, diversifying into a wide variety of forms. Many fish of the Paleozoic developed external armor that protected them from predators. The first fish with jaws appeared in the Silurian period, after which many (such as sharks) became formidable marine predators rather than just the prey of arthropods.

Most fish are ectothermic ("cold-blooded"), allowing their body temperatures to vary as ambient temperatures change, though some of the large active swimmers like white shark and tuna can hold a higher core temperature.^{[1][2]} Fish can acoustically communicate with each other, most often in the context of feeding, aggression or courtship.

FOREST

A forest is an area of land dominated by trees. Hundreds of definitions of forest are used throughout the world, incorporating factors such as tree density, tree height, land use, legal standing and ecological function. The Food and Agriculture Organization defines a forest as land spanning more than 0.5 hectares with trees higher than 5 meters and a canopy cover of more than 10 percent, or trees able to reach these thresholds in situ. It does not include land that is predominantly under agricultural or urban land use. Using this definition FRA 2020 found that forests covered 4.06 billion hectares or approximately 31 percent of the global land area in 2020.

Forests are the predominant terrestrial ecosystem of Earth, and are distributed around the globe. More than half of the world's forests are found in only five countries (Brazil, Canada, China, Russian Federation and United States of America). The largest part of the forest (45 percent) is found in the tropical domain (Tropical forests), followed by the boreal, temperate and subtropical domains,

Forests account for 75% of the gross primary production of the Earth's biosphere, and contain 80% of the Earth's plant biomass. Net primary production is estimated at 21.9 gigatonnes carbon per year for tropical forests, 8.1 for temperate forests, and 2.6 for boreal forests.

OFFICE

An office is generally a building, room or other area where an organization's employees perform administrative work in order to support and realize objects and goals of the organization. The word "office" may also denote a position within an organization with specific duties attached to it (see officer, office-holder, official); the latter is in fact an earlier usage, office as place originally referring to the location of one's duty. When used as an adjective, the term "office" may refer to business-related tasks. In law, a company or organization has offices in any place where it has an official presence, even if that presence consists of (for example) a storage silo rather than an establishment with desk-and-chair. An office is also an architectural and design phenomenon: ranging from a small office such as a bench in the corner of a small business of extremely small size (see small office/home office), through entire floors of buildings, up to and including massive buildings dedicated entirely to one company. In modern terms an office is usually the location where white-collar workers carry out their functions. According to James Stephenson, "Office is that part of business enterprise which is devoted to the direction and co-ordination of its various activities.

LONDON

London is the capital and largest city of England and the United Kingdom. The city stands on the River Thames in southeast England, at the head of its 50-mile (80 km) estuary leading to the North Sea. London has been a major settlement for two millennia. The City of London, London's ancient core and financial centre, was founded by the Romans and originally called Londinium; with an area of just 1.12 square miles (2.9 km²) and colloquially known as the Square Mile, it retains boundaries that closely follow its medieval limits.^{[note 1][11][12][13][14][15]} The adjacent City of Westminster has for centuries been the location of much of the national government. Thirty-one additional boroughs north and south of the river also comprise modern London. The London region is governed by the mayor of London and the London Assembly.

London is one of the world's most important global cities.^[18] It exerts considerable influence on the arts, commerce, education, entertainment, fashion, finance, healthcare, media, professional services, research and development, tourism, and transportation. It is one of the largest financial centres in the world and in 2019, London had the second highest number of ultra high-net-worth individuals in Europe, after Paris.

WINDOWS

Microsoft Windows, commonly referred to as Windows, is a group of several proprietary graphical operating system families, all of which are developed and marketed by Microsoft. Each family caters to a certain sector of the computing industry. Active Microsoft Windows families include Windows NT and Windows IoT; these may encompass subfamilies, (e.g. Windows Server or Windows Embedded Compact) (Windows CE). Defunct Microsoft Windows families include Windows 9x, Windows Mobile and Windows Phone.

Microsoft introduced an operating environment named Windows on November 20, 1985, as a graphical operating system shell for MS-DOS in response to the growing interest in graphical user interfaces (GUIs). Microsoft Windows came to dominate the world's personal computer (PC) market with over 90% market share, overtaking Mac OS, which had been introduced in 1984.

Apple came to see Windows as an unfair encroachment on their innovation in GUI development as implemented on products such as the Lisa and Macintosh (eventually settled in court in Microsoft's favor in 1993). On PCs, Windows is still the most popular operating system in all countries. However, in 2014, Microsoft admitted losing the majority of the overall operating system market to Android,^[8] because of the massive growth in sales of Android smartphones. In 2014, the number of Windows devices sold was less than 25% that of Android devices sold. This comparison, however, may not be fully relevant, as the two operating systems traditionally target different platforms. Still, numbers for server use of Windows (that are comparable to competitors) show one third market share, similar to that for end user use.

SAMSUNG

Samsung is a South Korean multinational manufacturing conglomerate headquartered in Samsung Town, Seoul, South Korea.^[1] It comprises numerous affiliated businesses,^[1] most of them united under the Samsung brand, and is the largest South Korean chaebol (business conglomerate). As of 2020, Samsung has the 8th highest global brand value.^[4]

Samsung was founded by Lee Byung-chul in 1938 as a trading company. Over the next three decades, the group diversified into areas including food processing, textiles, insurance, securities, and retail. Samsung entered the electronics industry in the late 1960s and the construction and shipbuilding industries in the mid-1970s; these areas would drive its subsequent growth. Following Lee's death in 1987, Samsung was separated into five business groups – Samsung Group, Shinsegae Group, CJ Group and Hansol Group, and Joongang Group.

Notable Samsung industrial affiliates include Samsung Electronics (the world's largest information technology company, consumer electronics maker and chipmaker measured by 2017 revenues),^{[5][6]} Samsung Heavy Industries (the world's 2nd largest shipbuilder measured by 2010 revenues),^[7] and Samsung Engineering and Samsung C&T Corporation (respectively the world's 13th and 36th largest construction companies).^[8] Other notable subsidiaries include Samsung Life Insurance (the world's 14th largest life insurance company),^[9] Samsung Everland (operator of Everland Resort, the oldest theme park in South Korea)^[10] and Cheil Worldwide (the world's 15th largest advertising agency, as measured by 2012 revenues).

ADOLF HITLER

20 April 1889 – 30 April 1945) was an Austrian-born German politician who was the dictator of Germany from 1933 to 1945. He rose to power as the leader of the Nazi Party,[a] becoming Chancellor in 1933 and then assuming the title of Führer und Reichskanzler in 1934.[b] During his dictatorship, he initiated World War II in Europe by invading Poland on 1 September 1939. He was closely involved in military operations throughout the war and was central to the perpetration of the Holocaust, the genocide of about six million Jews and millions of other victims.

*Hitler was born in Austria, then part of Austria-Hungary, and was raised near Linz. He moved to Germany in 1913, and was decorated during his service in the German Army in World War I. In 1919, he joined the German Workers' Party (DAP), the precursor of the Nazi Party, and was appointed leader of the Nazi Party in 1921. In 1923, he attempted to seize governmental power in a failed coup in Munich and was imprisoned with a sentence of five years. In jail, he dictated the first volume of his autobiography and political manifesto *Mein Kampf* ("My Struggle"). After his early release in 1924, Hitler gained popular support by attacking the Treaty of Versailles and promoting pan-Germanism, anti-Semitism and anti-communism with charismatic oratory and Nazi propaganda. He frequently denounced international capitalism and communism as part of a Jewish conspiracy.*

I PHONE

The iPhone is a line of smartphones designed and marketed by Apple Inc. that use Apple's iOS mobile operating system. The first-generation iPhone was announced by former Apple CEO Steve Jobs on January 9, 2007. Since then Apple has annually released new iPhone models and iOS updates. As of November 1, 2018, more than 2.2 billion iPhones had been sold.

The iPhone has a user interface built around a multi-touch screen. It connects to cellular networks or Wi-Fi, and can make calls, browse the web, take pictures, play music and send and receive emails and text messages. Since the iPhone's launch further features have been added, including larger screen sizes, shooting video, waterproofing, the ability to install third-party mobile apps through an app store, and many accessibility features. Up to 2017, iPhones used a layout with a single button on the front panel that returns the user to the home screen. Since 2017, more expensive iPhone models have switched to a nearly bezel-less front screen design with app switching activated by gesture recognition.

The iPhone is one of the two largest smartphone platforms in the world alongside Android, forming a large part of the luxury market. The iPhone has generated large profits for Apple, making it one of the world's most valuable publicly traded companies. The first-generation iPhone was described as "revolutionary" and a "game-changer" for the mobile phone industry and subsequent models have also garnered praise.

MUSJID

masjid, is a place of worship for Muslims. Any act of worship that follows the Islamic rules of prayer can be said to create a mosque, whether or not it takes place in a special building.^[2] Informal and open-air places of worship are called musalla, while mosques used for communal prayer on Friday are known as juma'. Mosque buildings typically contain an ornamental niche (mihrab) set into the wall that indicates the direction of Mecca (qiblah),^[1] ablution facilities and minarets from which calls to prayer are issued.^{[1][2]} The pulpit (minbar), from which the Friday (jumu'ah) sermon (khutba) is delivered, was in earlier times characteristic of the central city mosque, but has since become common in smaller mosques. Mosques typically have segregated spaces for men and women. This basic pattern of organization has assumed different forms depending on the region, period and denomination.

Mosques commonly serve as locations for prayer, Ramadan vigils, funeral services, Sufi ceremonies, marriage and business agreements, alms collection and distribution, as well as homeless shelters. Historically, mosques were also important centers of elementary education and advanced training in religious sciences. In modern times, they have preserved their role as places of religious instruction and debate, but higher learning now generally takes place in specialised institutions. Special importance is accorded to the Great Mosque of Mecca (centre of the hajj), the Prophet's Mosque in Medina (burial place of Muhammad) and Al-Aqsa Mosque in Jerusalem (believed to be the site of Muhammad's ascent to heaven). In the past, many mosques in the Muslim world were built over burial places of Sufi saints and other venerated figures, which has turned them into popular pilgrimage destinations.

SOLAR ENERGY

Solar energy is radiant light and heat from the Sun that is harnessed using a range of ever-evolving technologies such as solar heating, photovoltaics, solar thermal energy, solar architecture, molten salt power plants and artificial photosynthesis.

It is an essential source of renewable energy, and its technologies are broadly characterized as either passive solar or active solar depending on how they capture and distribute solar energy or convert it into solar power. Active solar techniques include the use of photovoltaic systems, concentrated solar power, and solar water heating to harness the energy. Passive solar techniques include orienting a building to the Sun, selecting materials with favorable thermal mass or light-dispersing properties, and designing spaces that naturally circulate air.

The large magnitude of solar energy available makes it a highly appealing source of electricity. The United Nations Development Programme in its 2000 World Energy Assessment found that the annual potential of solar energy was 1,575–49,837 exajoules (EJ). This is several times larger than the total world energy consumption, which was 559.8 EJ in 2012.

In 2011, the International Energy Agency said that "the development of affordable, inexhaustible and clean solar energy technologies will have huge longer-term benefits. It will increase countries' energy security through reliance on an indigenous, inexhaustible, and mostly import-independent resource, enhance sustainability, reduce pollution, lower the costs of mitigating global warming, and keep fossil fuel prices lower than otherwise. These advantages are global. Hence the additional costs of the incentives for early deployment should be considered learning investments; they must be wisely spent and need to be widely shared".

GERMANY

Germany is a country in Central Europe. It is the second-most populous country in Europe after Russia, and the most populous member state of the European Union. Germany is situated between the Baltic and North seas to the north, and the Alps to the south; covering an area of 357,022 square kilometres (137,847 sq mi), with a population of over 83 million within its 16 constituent states. It borders Denmark to the north, Poland and the Czech Republic to the east, Austria and Switzerland to the south, and France, Luxembourg, Belgium, and the Netherlands to the west. The nation's capital and largest city is Berlin, and its financial centre is Frankfurt; the largest urban area is the Ruhr.

Various Germanic tribes have inhabited the northern parts of modern Germany since classical antiquity. A region named Germania was documented before AD 100. In the 10th century, German territories formed a central part of the Holy Roman Empire. During the 16th century, northern German regions became the centre of the Protestant Reformation. Following the Napoleonic Wars and the dissolution of the Holy Roman Empire in 1806, the German Confederation was formed in 1815. In 1871, Germany became a nation-state when most of the German states unified into the Prussian-dominated German Empire.

MATHEMATIC

Mathematics (from Greek: μάθημα, $máthēma$, 'knowledge, study, learning') includes the study of such topics as quantity (number theory), structure (algebra), space (geometry),^[1] and change (analysis). It has no generally accepted definition.

Mathematicians seek and use patterns to formulate new conjectures; they resolve the truth or falsity of such by mathematical proof. When mathematical structures are good models of real phenomena, mathematical reasoning can be used to provide insight or predictions about nature. Through the use of abstraction and logic, mathematics developed from counting, calculation, measurement, and the systematic study of the shapes and motions of physical objects. Practical mathematics has been a human activity from as far back as written records exist. The research required to solve mathematical problems can take years or even centuries of sustained inquiry.

Rigorous arguments first appeared in Greek mathematics, most notably in Euclid's Elements. Since the pioneering work of Giuseppe Peano (1858–1932), David Hilbert (1862–1943), and others on axiomatic systems in the late 19th century, it has become customary to view mathematical research as establishing truth by rigorous deduction from appropriately chosen axioms and definitions. Mathematics developed at a relatively slow pace until the Renaissance, when mathematical innovations interacting with new scientific discoveries led to a rapid increase in the rate of mathematical discovery that has continued to the present day.

RAINBOW

A rainbow is an arc of color in the sky that can be seen when the sun shines through falling rain. The pattern of colors, called a spectrum, starts with red on the outside and changes through orange, yellow, green, blue, indigo, and violet on the inside. Sometimes a second, larger, dimmer rainbow is seen.

A rainbow is created when white light is bent (refracted) while entering a droplet of water, split into separate colors, and reflected back. A rainbow is actually round like a circle. On the ground, the bottom part is hidden, but in the sky, like from a flying airplane, it can be seen as a circle around the point opposite the Sun.

Rainbows often appear after storms, and are popular symbols for peace in many cultures.

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