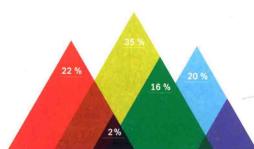
THE ATLAS FOR TODAY

DO YOU EVER WONDER ...



... WHY BERLINERS LOVE CANDY BOMBERS?



... HOW DEVELOPMENT AID WORKS (OR DOESN'T)?



... HOW THE FIRST MEN CLIMBED TO THE TOP OF THE WORLD?



... WHAT THE WORLD IS HAVING FOR BREAKFAST?



... WHAT LITTLE RED RIDING HOOD DID TO THE WOLF?



... THAT YOUR PRINTER INK IS ALMOST AS EXPENSIVE AS CHANEL Nº 5?

THE ATLAS FOR TODAY

常州大学山书馆藏书章

THE ATLAS FOR TODAY

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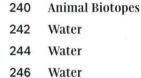


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DISTANCE Millimeters 10 mm = 1 cm Centimeters $100 \ cm = 1 \ m$ Meters 1,000 m = 1 kmkm Kilometers 1 km = 0.62 miles1 in = 2.54 cmInch/inches Foot/feet 1 ft = 30.48 cm ft .. AREA Square meters 1 m² = 10.76 square feet m^2 $2.59 \text{ km}^2 = 1 \text{ sq mi}$ Square kilometers km² Square miles sa mi. VOLUME Milliliter 10 ml = 1 cl Centiliter 100 cl = 1 l Liter 1,000 l = 1 m³ m^3 Cubic meter km³ Cubic kilometer SPEED Kilometers per hour 100 km/h = 62 mph km/h Miles per hour mph . TIME Secs. Seconds 60 secs. = 1 min Minutes 60 min. = 1 h min. Hours h . Years yrs Before Christ AD Anno domini In the year of our Lord ante meridiem post meridiem WEIGHT $1,000 \ \mu g = 1 \ mg$ Microgram 1,000 mg = 1 g Milligram mg 1,000 g = 1 kgg Gram Kilogram 1,000 kg = 1 tkg .. Ton **TEMPERATURE** Degree celcius $0^{\circ}C = 32^{\circ}F$ °C . Degree fahrenheit POWER Watt 1,000 W = 1 kWkW Kilowatt $1,000 \; kW = 1 \; MW$ MW Megawatt 1,000 MW = 1 GWGW Gigawatt MWe Megawatt electrical Electrical output Megawatt thermal MWt Thermal output Kilowatt hour kWh MWh Megawatt hour GWh. Gigawatt hour DIGITAL DATA 1,000 MB = 1 GB MB. Megabyte Gigabyte Mbit/s Megabit per second **AMOUNT** Mio. Millions Ril Billions Tril. Trillions CURRENCY U.S. dollar Euro Pound £ ECONOMY GDP Gross domestic product VAT Value added tax

LDC

PPP

Least developed countries

Purchasing power parity

MEASURING UNITS

We collected graphics from all over the world. According to their origin the different designers used different measures. To help you understand and compare the works shown in this book, we made a short list of some abbreviations in common use.

THE ATLAS FOR TODAY

The world around us is a visual feast and we as humans are visual creatures. Long before we can speak or read, before we understand the concepts of words and numbers, our brains are already processing, storing, and contextualizing incredible visual input from the world around us.

When we were around five months old, we developed a sense of depth perception and a receptiveness to different colors. We learned how to start processing shapes, and to try to understand how they intersected with our needs. We learned the smile of another human being, the skin pattern of our favorite animal, and the color of a toy, a car, or an apple.

The older we became, the more we found ourselves surrounded by information. Today, we swim in floods of data and ideas, numbers and phrases that appear before our eyes and on our devices, on billboards and from the mouths of our friends, telling us what is happening to whom, who did what and where, why we should purchase this and not that, and how this thing changes everything and that thing changes nothing.

This is the age of information, and the avalanche of data shows no signs of slowing.

Fortunately, technology in the form of powerful computer software has also provided storytellers and visual interpreters with tools to help filter and contextualize massive amounts of data. Magazines, newspapers, books, and websites use sophisticated tools to go beyond the barest "this is what happened" and explain, graphically, how something happened and what went on, utilizing colors and sizes, and abstractions and representations to show individual elements in relation to each other and to ourselves. Individually, they help us understand a single issue. Together, they explain a slice of the world.

This book is filled with some of the most remarkable of these graphics, the most amazing and helpful that we've collected from media around the world (and where they weren't originally in English, we've translated the texts). Together, they create a snapshot of who we are right now, what we are doing with our work and leisure time, how we view ourselves and each other, and where things might be heading. The world is an amazing place, filled with complexity and contradiction. We never stop creating and learning.

Like any snapshot, it captures only what is within the frame of the camera. A book can contain worlds within its pages, but there will always be much activity that isn't included. Sometimes, it's because these stories aren't being told using visual graphics of this nature. Currently, the creation of such graphics is primarily taking place in those societies that have widespread access to the latest information technology, and have media that will reproduce and distribute them. These creations can be labor intensive — not all newspapers or magazines can afford to support the staff and time it takes

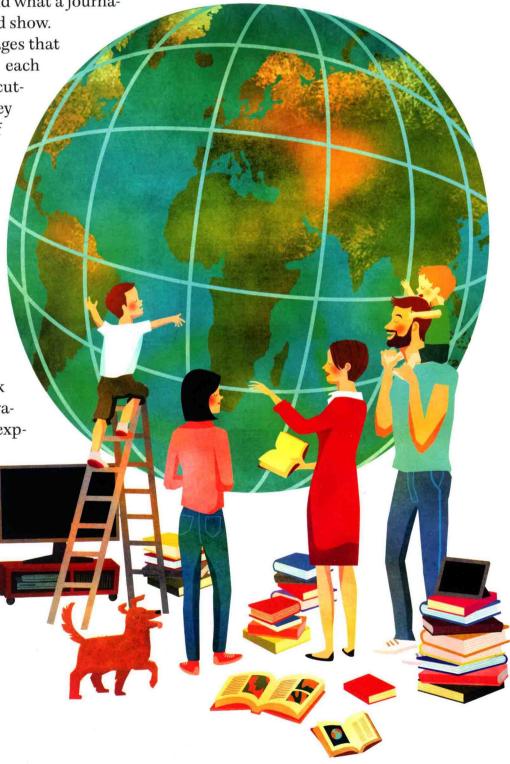
to create them. And infographics — as they are often called today among the media — also tend to be created to explain what is in the news at the moment, aiming for ideas and trends that are circulating, as well as anniversaries and events considered worthy of commemoration.

That said, this book is still a pretty good representation of what the more fortunate sections of the world's population are currently thinking, watching, doing, and creating as we explore and expand our curiosity. The beauty of the tools used to create these graphics is that they are context neutral — they can be employed to describe sports or history, po-

litics or religion — and they go far beyond what a journalist could explain, or a photograph could show.

These are the impossible images that place the world's skyscrapers next to each other, and supply a three-dimensional cutaway of what lies underneath Paris. They are a photo that could never be taken of the solar system and a visualization of the journeys of viruses far too small to be seen as they wreak havoc across the globe. Within each image are words of context and explanation, demonstrating the precision and care of each, created by those who occupy the new role of "visual journalist." A picture might be worth a thousand words, but these are graphics that might also contain them.

As a compilation, this book could be a time capsule for future generations, or the text sent out into space to explain Planet Earth to alien life. This is the world that we live in, beautiful and complicated, drawn out and explained. Take a good look.



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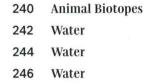


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THE PLACE WE CALL HOME

When you feel upset about a soccer team losing, or a boyfriend ending a relationship, or just another parking ticket, remember this: you are a tiny speck on the cooled crust of a giant burning fireball that is constantly spinning as it flies around a vast inferno that has been burning for 23,000 times longer than the entire existence of humanity, is 28,080,000°F, and is the size of 1.3 million Planet Earths. Luckily, the development of the crust of our burning fireball created conditions for just the right mixture of oxygen, hydrogen, and other gases to be formed, combining with the gravitational pull of the inferno we call the Sun to protect us from deadly radiation, and to keep the gases trapped in at just the right levels to create conditions for life.

We have selected a series of images that remind us of these facts, and more. For instance, thanks to many interactions between the swirling mineral fires underneath the surface that create an invisible force we call magnetism, the gravitational pull on the oceans of the giant rock that orbits us that we have named the Moon, and too many other factors to count — only some of which modern science kind of understands — we have weather and earthquakes, polar ice (less than we'd like, and shrinking) and deserts (more than we'd like, and growing), rivers and mountains, and forests and oceans, all sustaining interdependent ecosystems of incredibly resilient creatures both tiny and huge.

Meanwhile, also spinning around that giant fireball are seven other rocks of sufficient size to be counted as significant by our own arbitrary measures. We aren't yet close to having the technological capacity to send a human to any of them, let alone to leave the orbit of this one fireball among approximately 100–400 billion in the galaxy, but there are at least a few small robots, shot into space and communicating back to us, that are flying around the vacuum of what we call our solar system, teaching us things via signals akin to the text messages of mobile phones. There is no way for any of us to truly understand what any of this means. How can we conceive of a distance through which it takes eight and a half minutes for the Sun's light to traverse, when we feel that two hours is too far to drive for dinner? We may as well try to explain the internal workings of an iPhone to a newborn kitten. The human brain is pretty limited — and it is,

Journey with us to the stars and into the oceans, and be amazed by the complexity and beauty of everything that there is.

in it, really very small indeed.

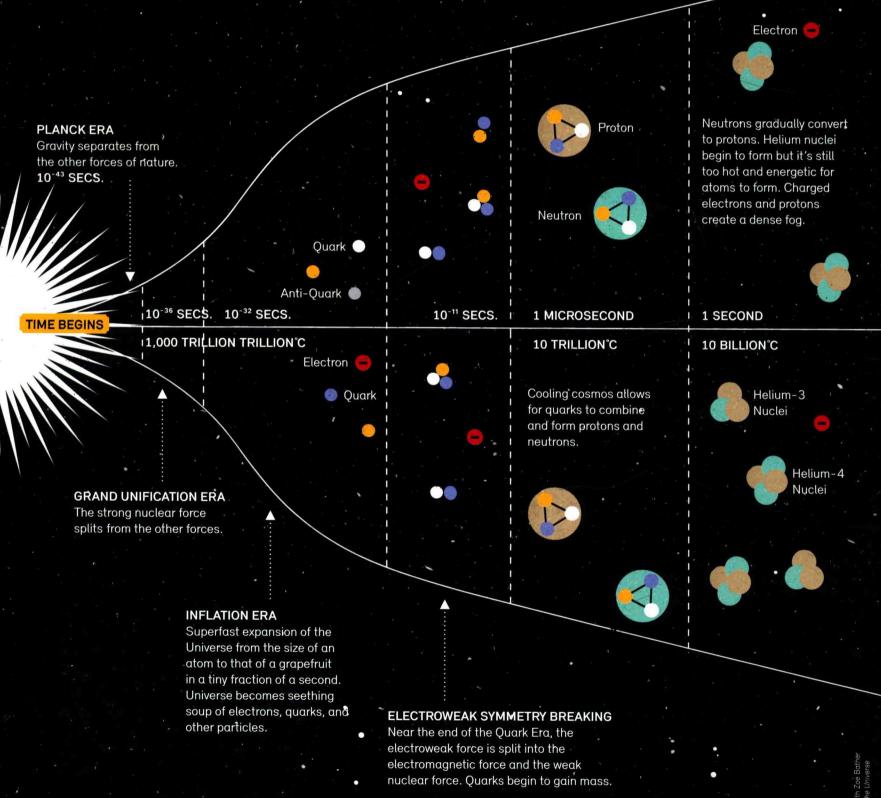
when you look at the bigger picture and everything that could possibly fit

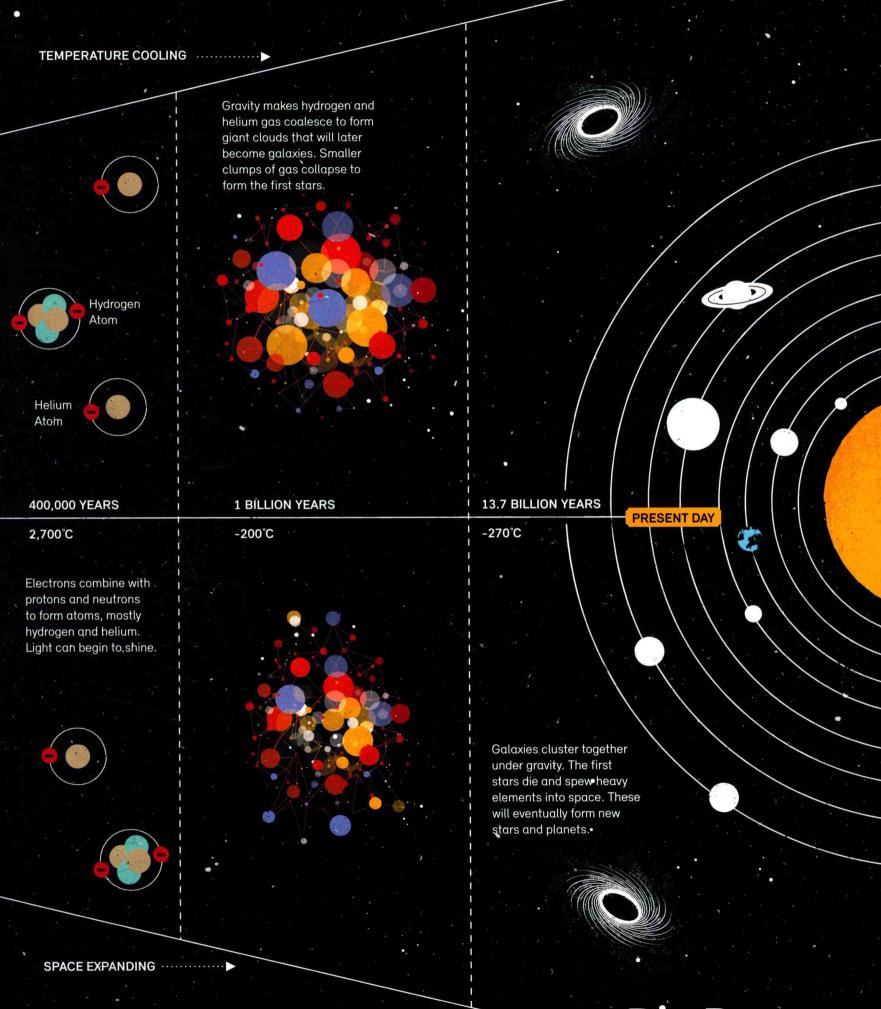
The Story So Far

Something mysterious and unimaginably powerful happened 13,7 billion years ago. Whatever it was, it caused the laws of physics (as we know them) to separate and become defined forever. And the rest is history.

In the beginning there wasn't light. Whatever the Big Bang was, it was dark — it took 400,000 years for God to switch on the lights, or, if you prefer, for the necessary atoms to form so that light could start shining. Physicists can tell you all about what happened between now and a couple of billionths of a second after the Big Bang, when all the laws of physics were

perfect and whole — the so-called singularity. After that, gravity broke off from the other laws of nature and did its own weird thing. And then it was up to all the quarks, protons, neutrons, electrons, atoms, and eventually molecules to sort themselves out, and collapse into stars. As the great Carl Sagan said, we are all star-stuff.





Free Throw This!

Brain-melting distances reduced to basketball size.

Place a basketball directly beneath the basket on a court. Then stick an ordinary quilting pin in the court exactly beneath the opposing basket. You have now created a scale model showing almost the exact distance between the Sun and the Earth, if the former were a basketball, and the colorful

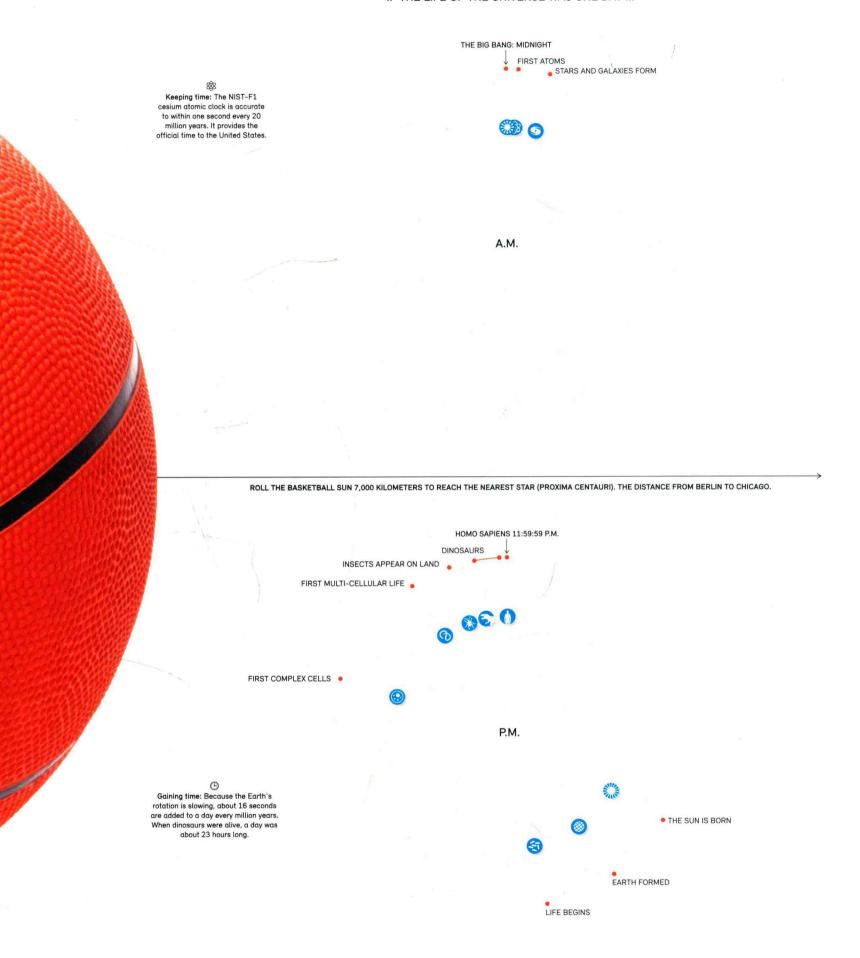
IF THE SUN WAS THE SIZE OF A BASKETBALL ...



plastic pinhead was our planet — the third from the Sun. Of course, with a basketball-sized sun you won't be able to fit the whole solar system onto one court. You couldn't even do that if you had a football field. Or five football fields. In fact, if you wanted to mark the Sun's outermost planet Pluto (whether

its planetary status is confirmed or not), you'll have to get another pin and stick it in the ground over a kilometer away. Time-scales along these lines are even more mind-boggling.

IF THE LIFE OF THE UNIVERSE WAS ONE DAY ...



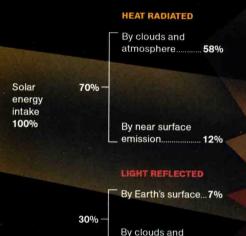
The Universe

A Dynamic Earth

All living things exist in a zone delicately balanced between two immensely powerful engines-the molten core of the Earth itself and the blazing sun. Each generates a host of forces, setting off the earthquakes, volcanoes, and extremes of weather that shape our lands and seas.

of the Earth facing the high tides. Inertia on the opposite side of the planet

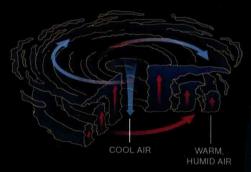
THE SUN A great ball of turbulent gases, our star supplies the heat and light needed to support life. Hydrogen atoms combine to make helium, producing an internal temperature of about 28.080.000°F.



SOLAR ENERGY Earth should release into space the same amount of energy it absorbs from the sun. Greenhouse gases accumulating in the atmosphere upset that balance by blocking the energy release.

THE ATMOSPHERE

A fragile layer of gas, the atmosphere protects our planet from the sun's radiation and other hazards. Stirred by the Earth's rotation and shifts in pressure and temperature, the atmosphere changes constantly, causing what we experience as weather.

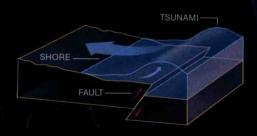


atmosphere..

23%

HURRICANES Fueled by warm ocean water, hurricanes spin at more than 74 miles an hour. Heavy rains and an elevated sea surface add to the danger

THE OCEAN Covering more than twothirds of the planet, the ocean interacts with the atmosphere to make Earth habitable. Its currents distribute heat absorbed in the tropics to northern lands that would otherwise be icy year-round.



seafloor-especially earthquakes-create towering waves that can devastate the coastal communities they strike.

HURRICANE OCEAN CURRENTS Evaporation, precipitation, cooling, heating, wind, upwelling, and other forces move water at the surface and stir deep circulation.

NORTH AMERICA

ATMOSPHERIC CELLS In constant loops, air warmed by the sun in the tropics flows to the poles as cold polar air travels to the tropics.