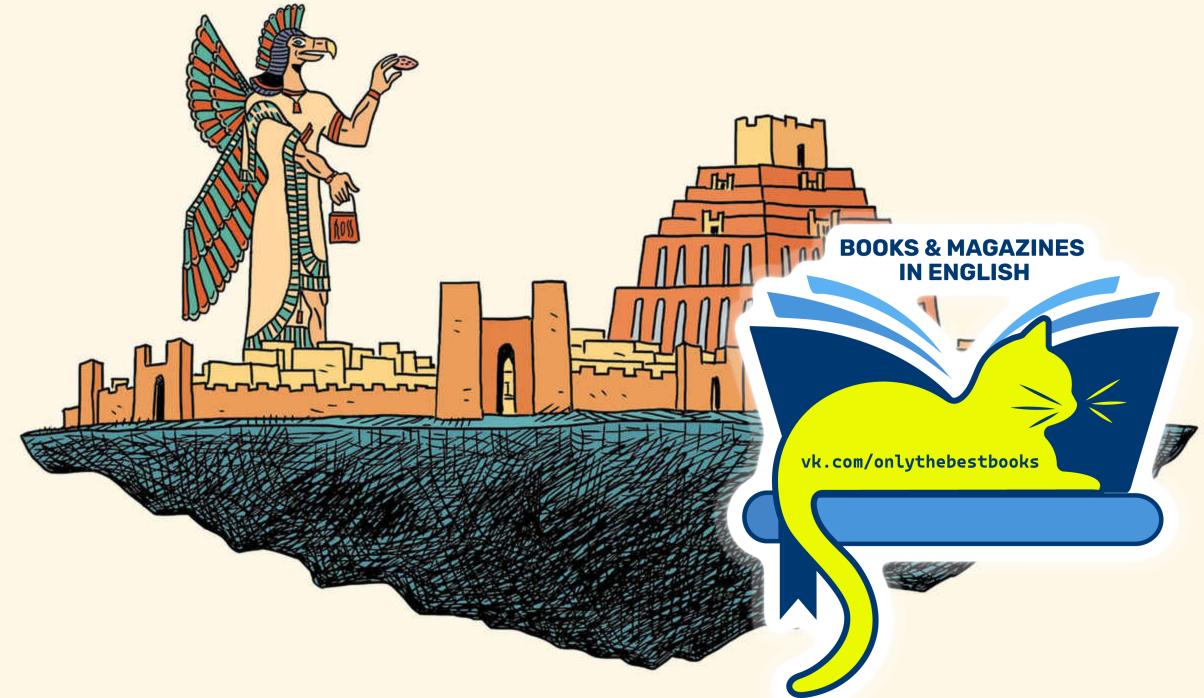
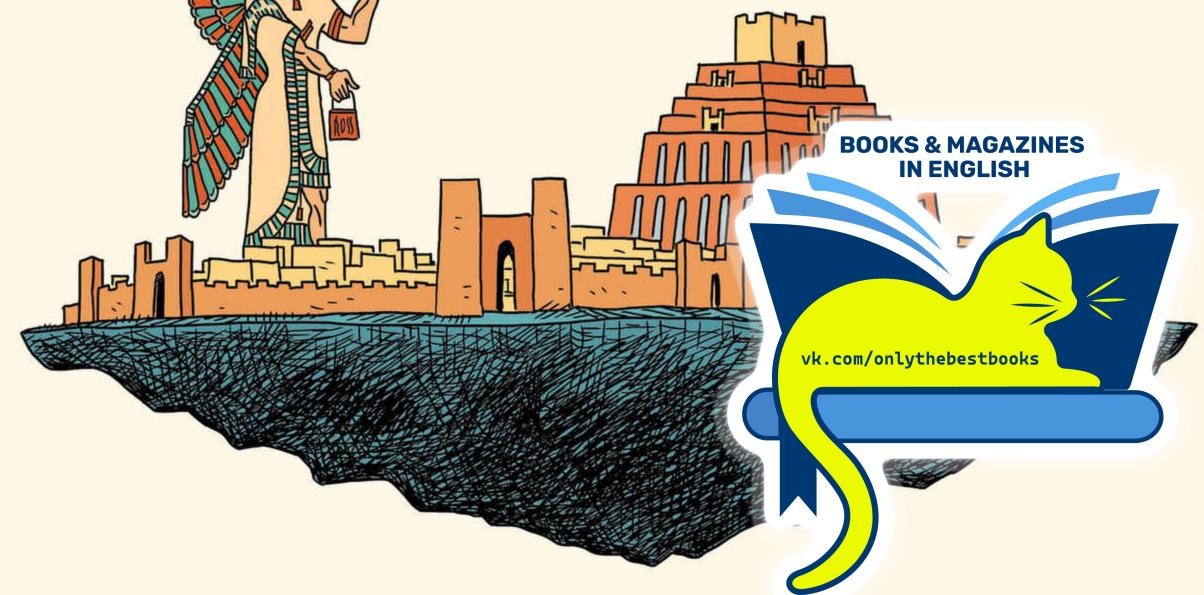
# Yuval Noah Harari David Vandermeulen • Daniel Casanave

# Sapiens A Graphic History



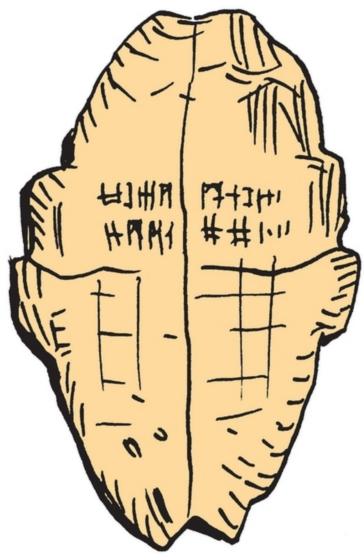


## The Pillars of Civilization

Volume Two









## Yuval Noah Harari David Vandermeulen • Daniel Casanave



## The Pillars of Civilization

**VOLUME TWO** 



NEW YORK . LONDON . TORONTO . SYDNEY . NEW DELHI . AUCKLAND



### TIMELINE OF HISTORY

#### NUMBER OF YEARS AGO

13.8 BILLION	MATTER AND ENERGY APPEAR. BEGINNING OF PHYSICS.
	FORMATION OF ATOMS AND MOLECULES. BEGINNING OF CHEMISTRY.
4.5 BILLION	FORMATION OF PLANET EARTH.
3.8 BILLION	EMERGENCE OF ORGANISMS. BEGINNING OF BIOLOGY.
6 MILLION	LAST COMMON GRANDMOTHER OF HUMANS AND CHIMPANZEES.
2.5 MILLION	HUMANS EVOLVE IN AFRICA. USE OF STONE TOOLS.
2 MILLION	HUMANS SPREAD FROM AFRICA TO EURASIA. EVOLUTION OF DIFFERENT HUMAN SPECIES.
400,000	NEANDERTHALS EVOLVE IN EUROPE AND THE MIDDLE EAST. REGULAR USE OF FIRE.
300,000	HOMO SAPIENS EVOLVES IN AFRICA.
70,000	THE COGNITIVE REVOLUTION. EMERGENCE OF STORYTELLING. BEGINNING OF HISTORY. SAPIENS SPREAD OUT OF AFRICA.
50,000	SAPIENS SETTLE ACROSS AUSTRALIA. EXTINCTION OF AUSTRALIAN MEGAFAUNA.

30,000

EXTINCTION OF NEANDERTHALS. HOMO SAPIENS THE ONLY SURVIVING HUMAN SPECIES.

15,000

SAPIENS SPREAD ACROSS THE AMERICAS. EXTINCTION OF AMERICAN MEGAFAUNA.



12,000	THE AGRICULTURAL REVOLUTION. DOMESTICATION OF PLANTS AND ANIMALS. PERMANENT SETTLEMENTS.
5,000	FIRST KINGDOMS, SCRIPT AND MONEY. POLYTHEISTIC RELIGIONS.
4,250	FIRST EMPIRE—THE AKKADIAN EMPIRE OF SARGON.
2,500	INVENTION OF COINS—A UNIVERSAL MONEY. THE PERSIAN EMPIRE—A UNIVERSAL POLITICAL ORDER. BUDDHISM IN INDIA—A UNIVERSAL TEACHING.
2,000	HAN EMPIRE IN CHINA. ROMAN EMPIRE IN THE MEDITERRANEAN. CHRISTIANITY.
1,400	ISLAM.
500	THE SCIENTIFIC REVOLUTION. HUMANKIND ADMITS ITS IGNORANCE AND BEGINS TO ACQUIRE UNPRECEDENTED POWER.
	EUROPEANS BEGIN TO CONQUER AMERICA AND THE OCEANS. THE ENTIRE PLANET BECOMES A SINGLE HISTORICAL ARENA. THE RISE OF CAPITALISM.
200	THE INDUSTRIAL REVOLUTION. FAMILY AND COMMUNITY ARE REPLACED BY STATE AND MARKET. MASSIVE EXTINCTION OF PLANTS AND ANIMALS.
THE PRESENT	HUMANS TRANSCEND THE BOUNDARIES OF PLANET EARTH

THE PRESENT

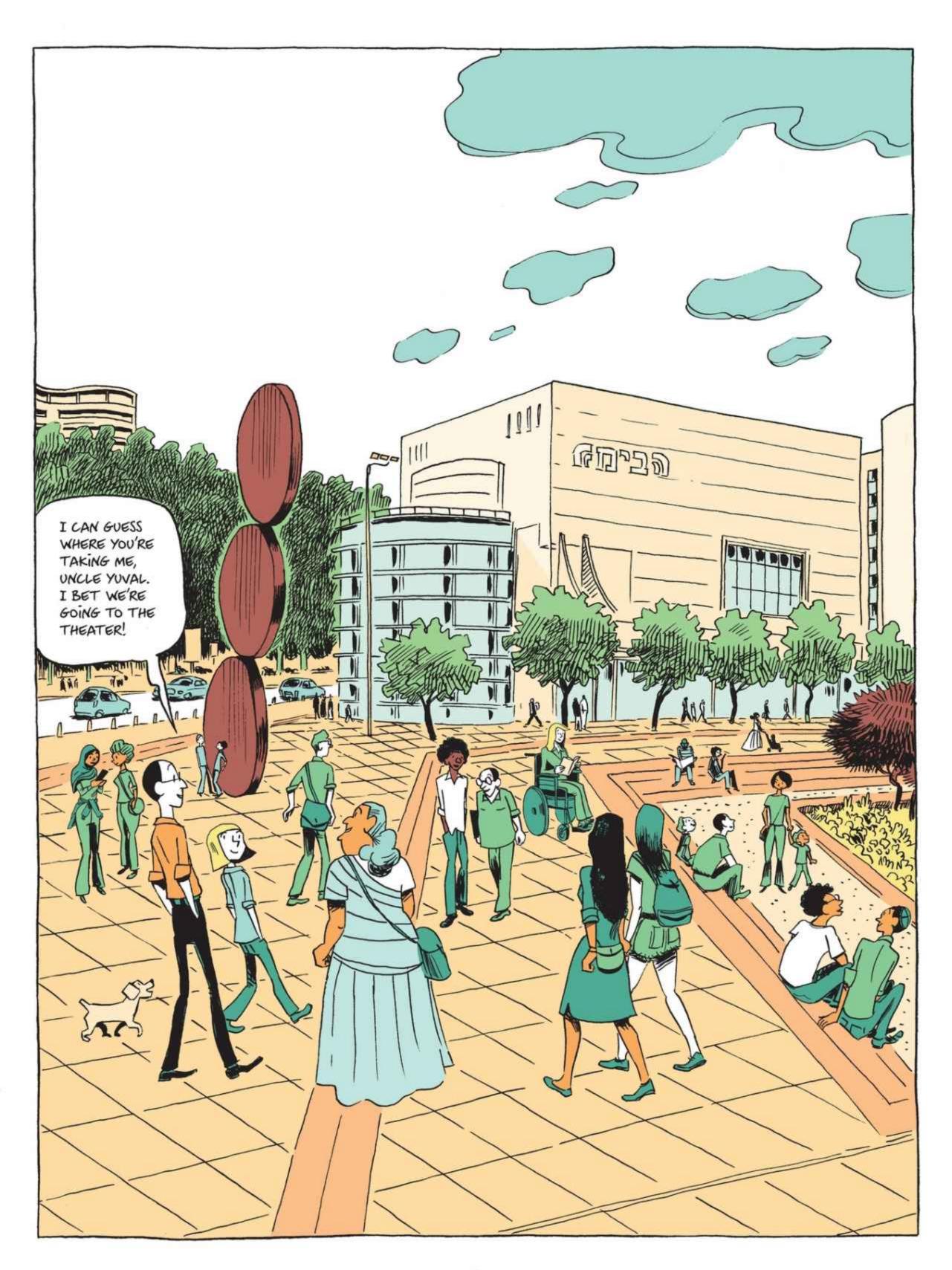
NUCLEAR WEAPONS THREATEN THE SURVIVAL OF HUMANKIND. ORGANISMS ARE INCREASINGLY SHAPED BY INTELLIGENT DESIGN RATHER THAN NATURAL SELECTION.

THE FUTURE

INTELLIGENT DESIGN BECOMES THE BASIC PRINCIPLE OF LIFE? FIRST NONORGANIC LIFE-FORMS? HUMANS BECOME GODS?



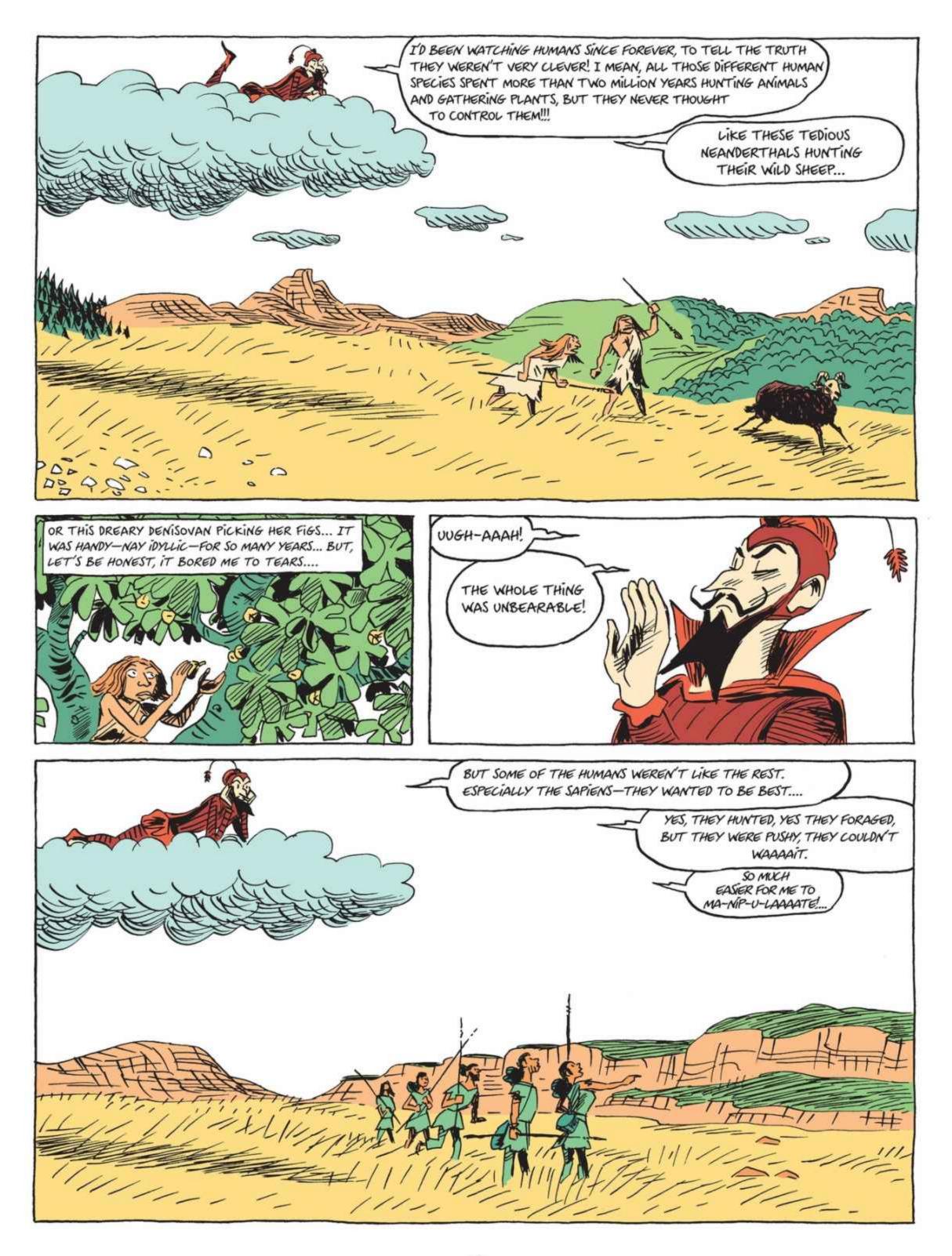
## LITTLE CROP OF HORRORS









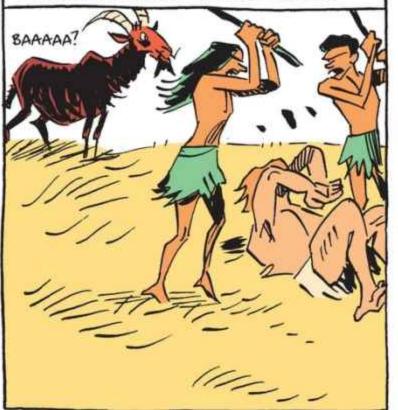


WITH THE SAPIENS BUSY LIGHTING THEIR FIRES AND MAKING THEIR TOOLS... I THOUGHT THEY WERE ITCHING TO BE MASTERS OF THE WORLD!! PERHAPS, I THOUGHT TO MYSELF, THEY'D LIKE TO MASTER GOATS?

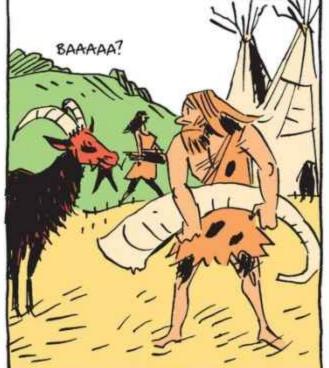


I TRIED TO LIVEN THINGS UP BUT THEY IGNORED ME.

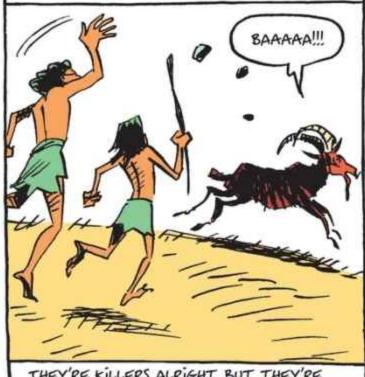
I POPPED BACK TO SEE THEM WHEN THEY STARTED SYSTEMATICALLY EXTERMINATING LARGE ANIMALS AND THE OTHER HUMANS.



BUT NOPE... THEY'D KILL ME BEFORE THEY EVEN THOUGHT TO CAPTURE ME AND PUT ME TO WORK. EVEN AFTER EVERYTHING THEY'D DONE TO THE OTHER HUMANS AND ALL THOSE ANIMALS, THEY STILL WEREN'T INTERESTED IN REAL POWER.



OH, NO! I THOUGHT, THIS IS TYRANNOSAURUS REX ALL OVER AGAIN!

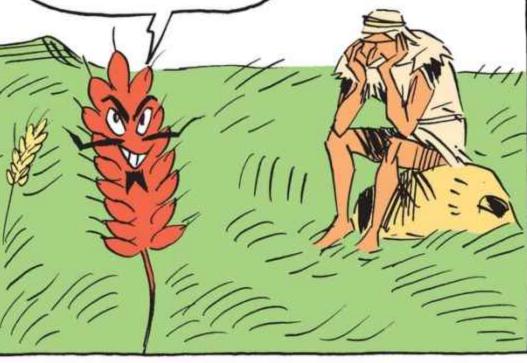


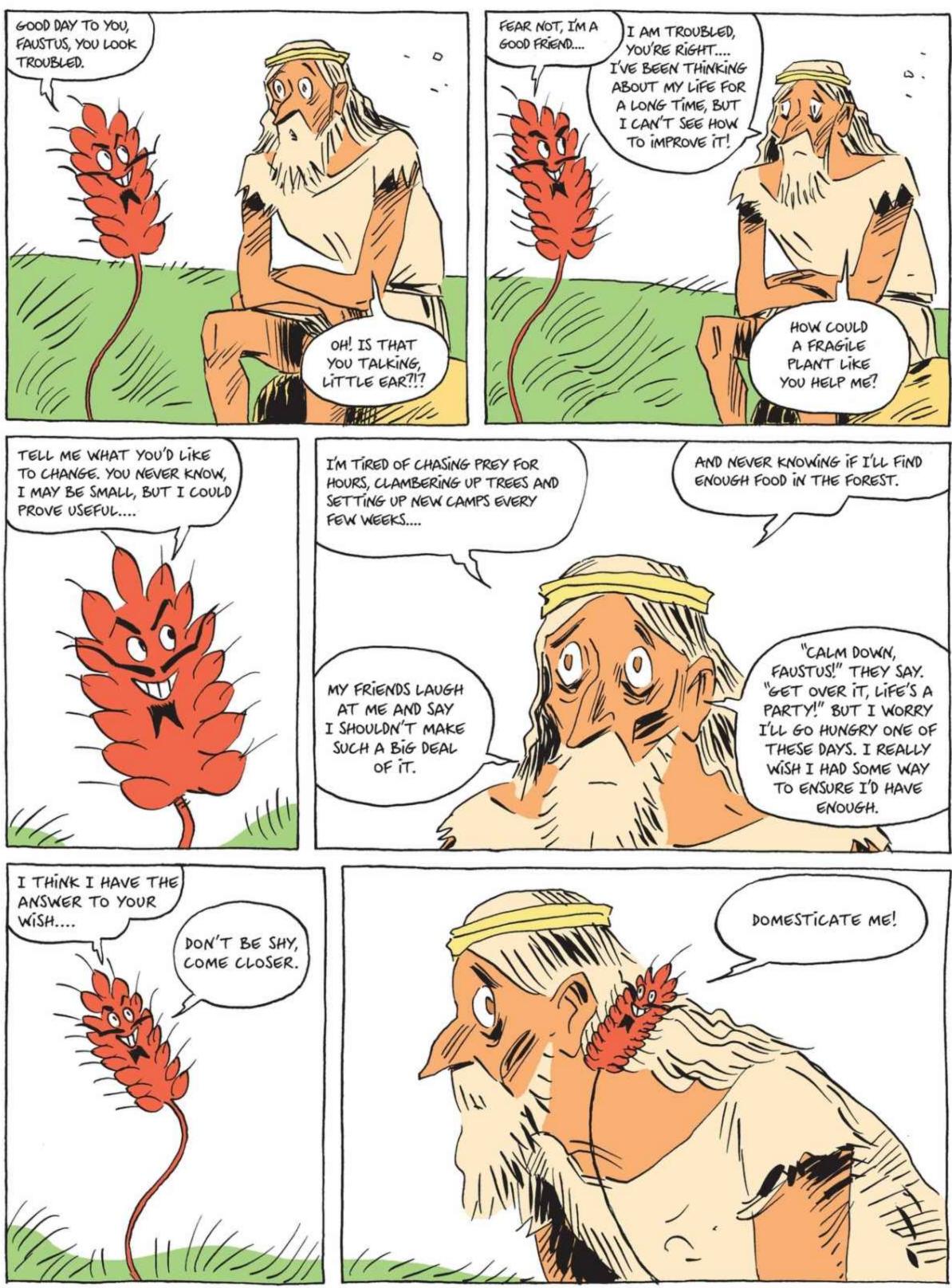
THEY'RE KILLERS ALRIGHT, BUT THEY'RE NOT PLANNING TO REDUCE ANYBODY TO SLAVERY....

FINALLY-FINALLY!-ABOUT 12,000 YEARS AGO I HAD AN UNEXPECTED BREAKTHROUGH IN THE MIDDLE EAST ....

INCARNATED IN A HUMBLE EAR OF WHEAT, I SET OUT TO TEMPT A POOR SAPIENS CALLED FAUSTUS ....

















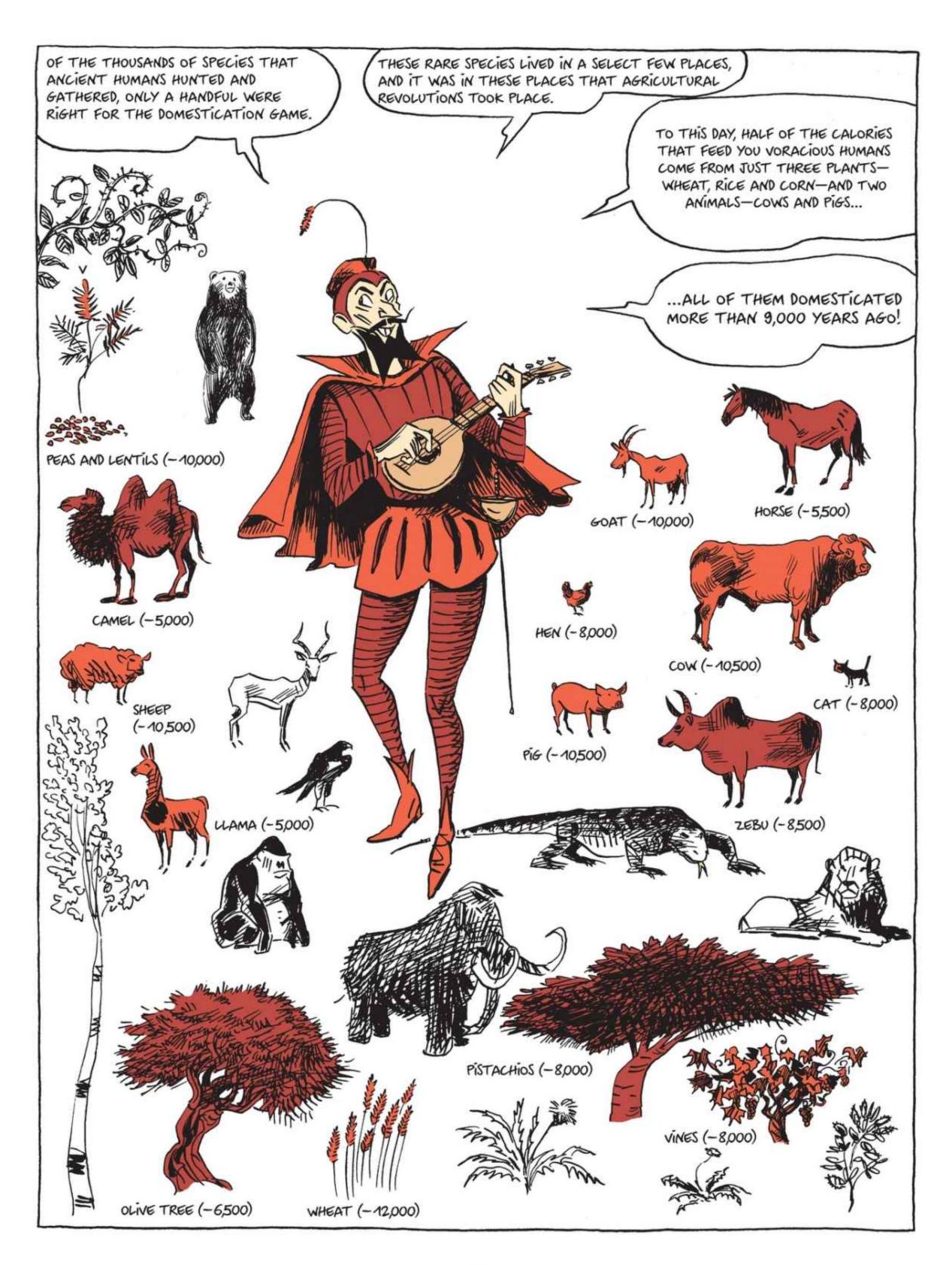
FROM DAWN TO DUSK THEY SOWED THE SEEDS, PROTECTED THE PLANTS AND PULLED UP WEEDS. THEY HARVESTED THE CROP AND GROUND THE GRAIN ... SI MORE AND MORE, AGAIN AND AGAIN. 5

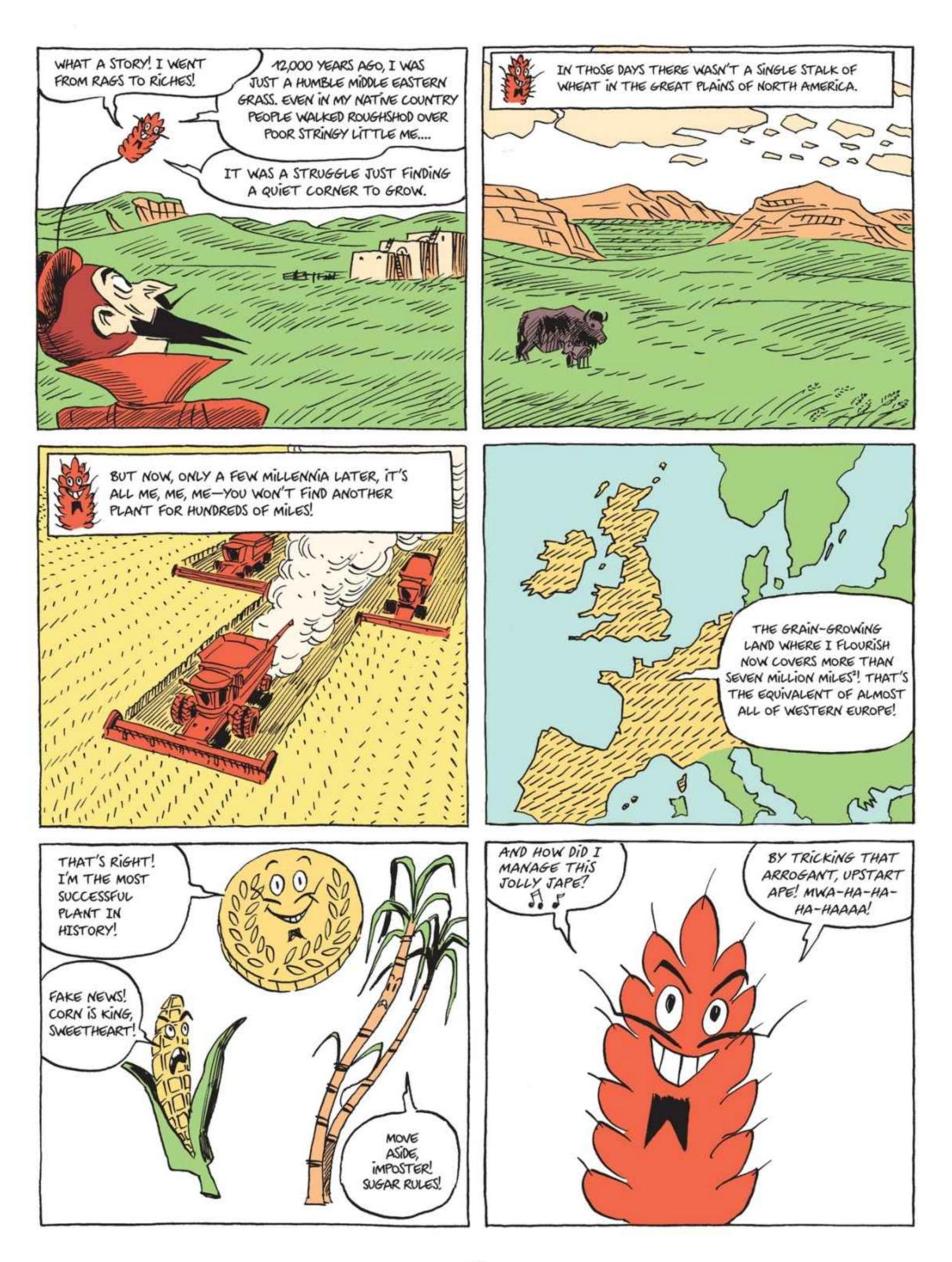


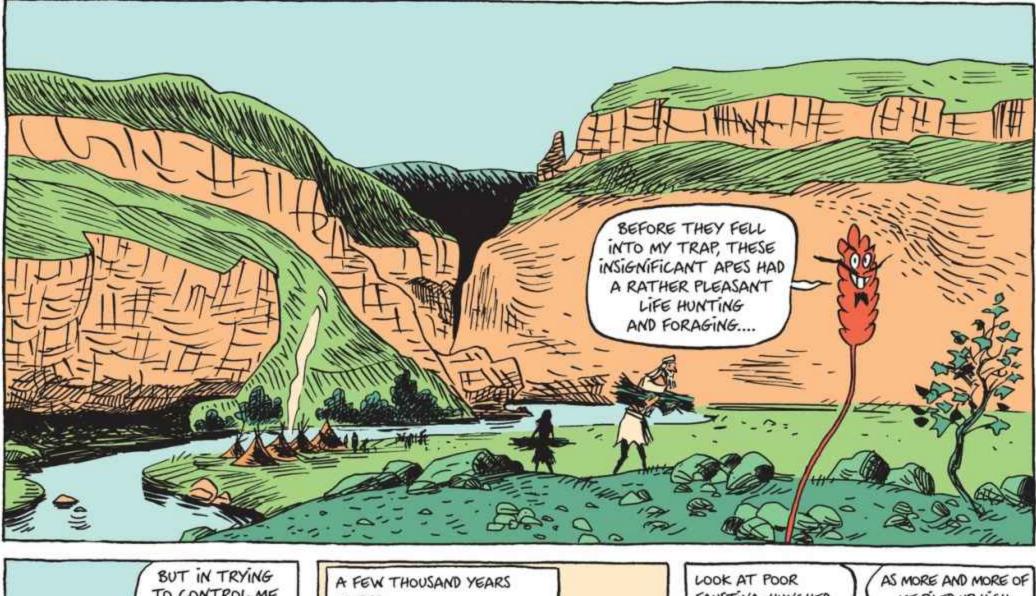
IT WAS THE BIGGEST UPHEAVAL IN HUMANS' WAY OF LIFE-EVER. AND IT GOES BY THE NAME OF...

# THE AGRICULTURAL REVOLUTION





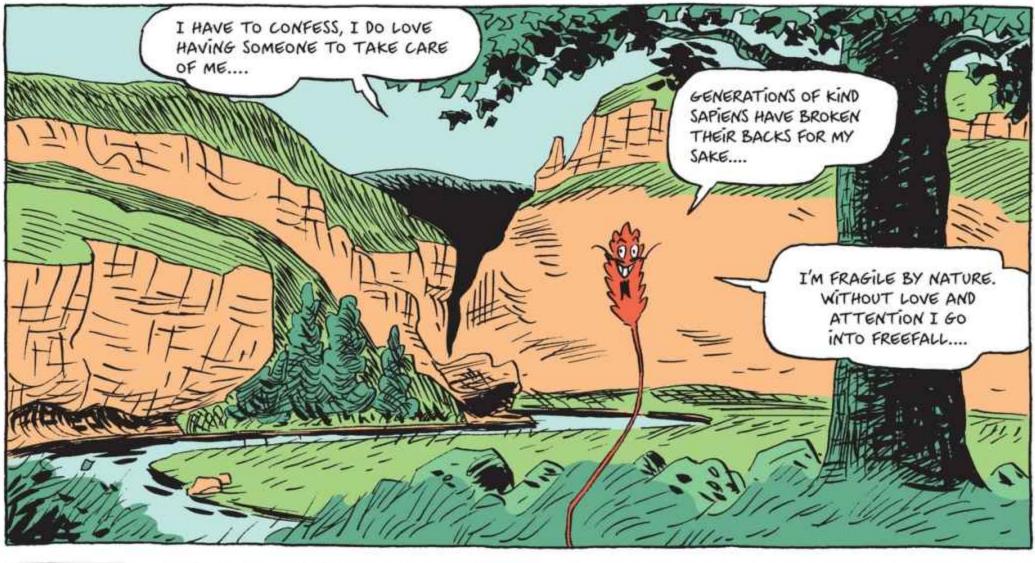


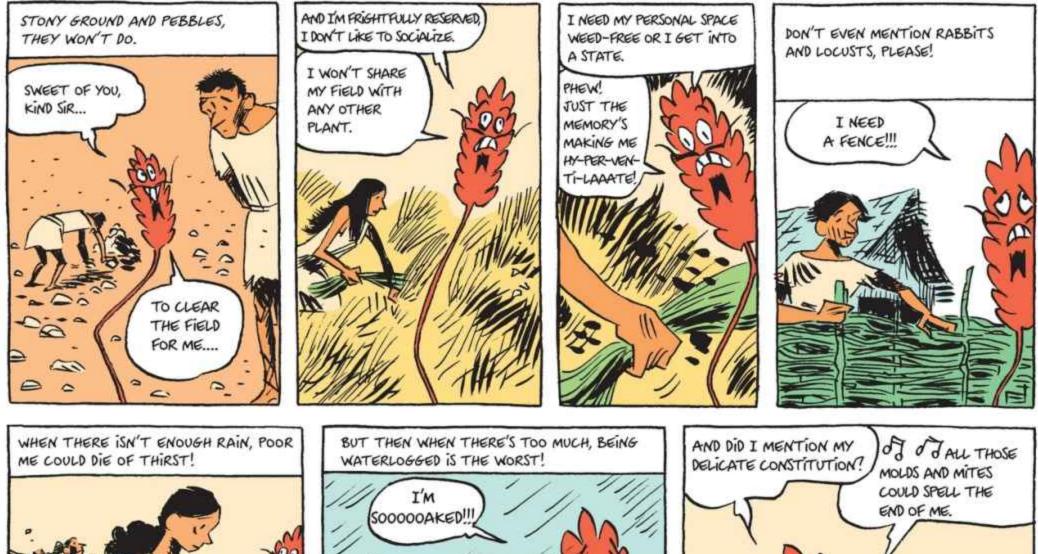




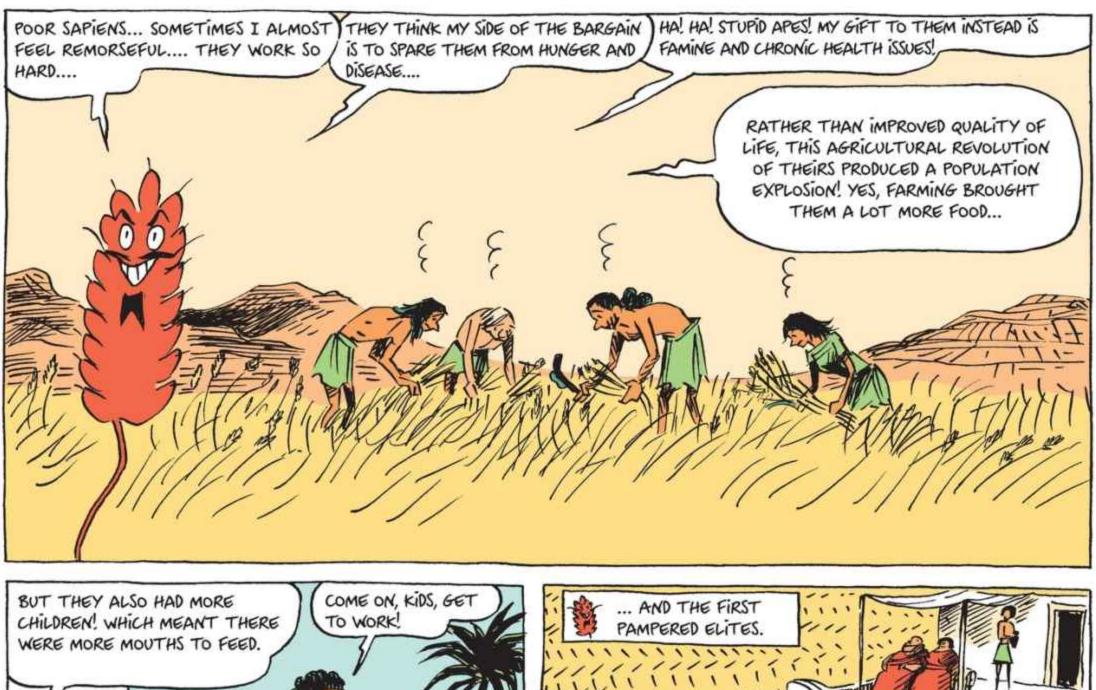


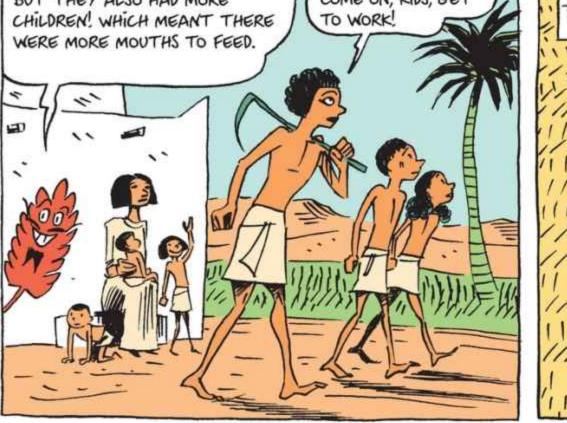




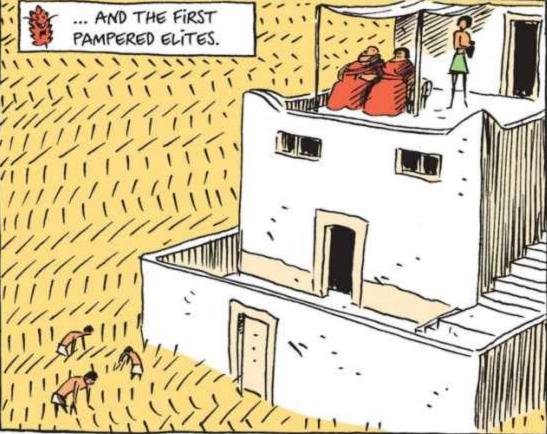








PLUS THEIR BODIES HADN'T DEVELOPED TO TEND ME WITH SUCH CARE.... HUMANS WERE ADAPTED TO CLIMBING FIG TREES AND RUNNING AFTER GAZELLES....



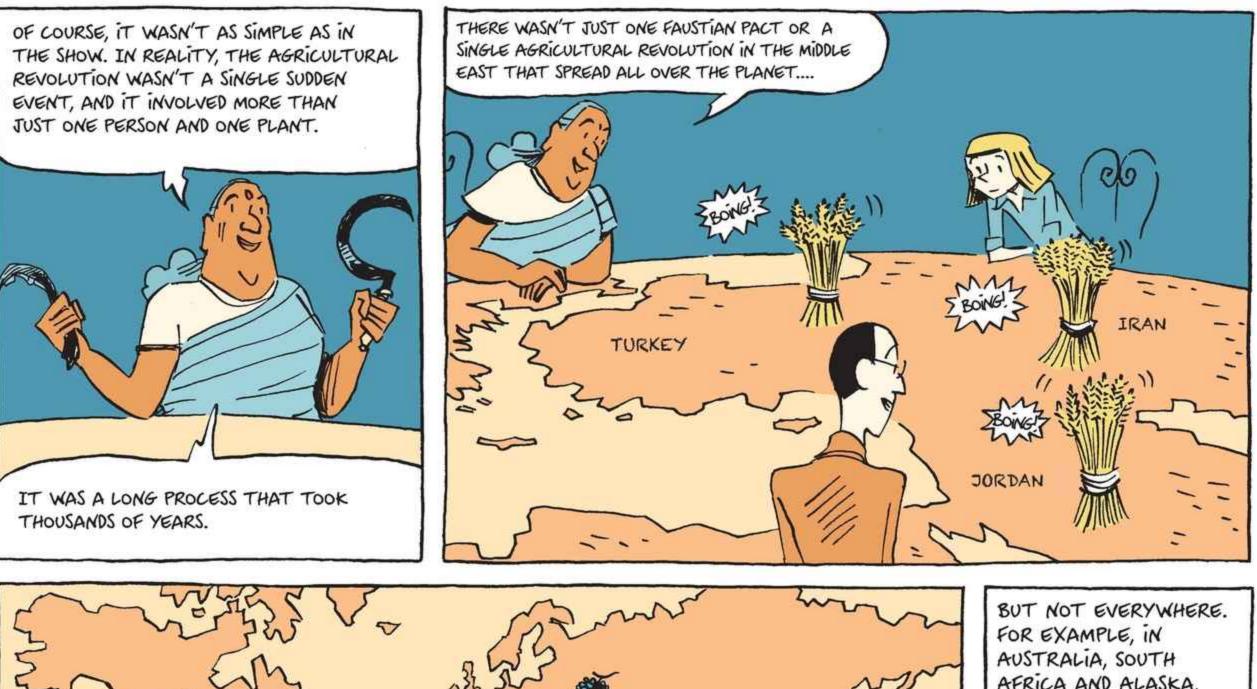
THEIR KNEES, ELBOWS, BACKS AND NECKS PAID THE PRICE. IF YOU HAVE A GOOD LOOK AT ANCIENT SKELETONS, YOU CAN SEE THE AGRICULTURAL REVOLUTION SPELLED OUT IN RUINED JOINTS AND SPINES.

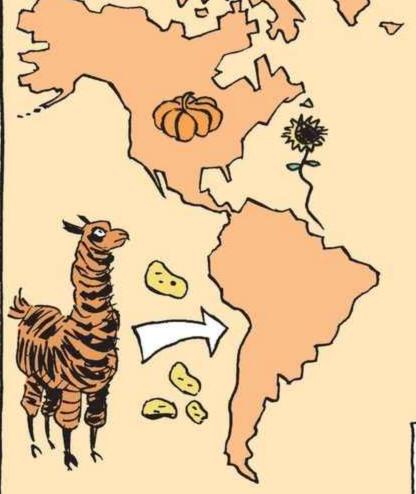


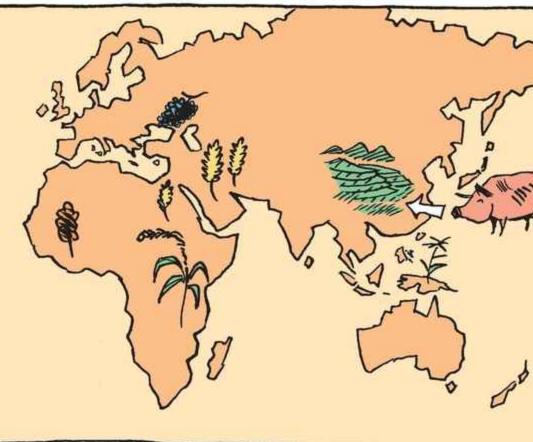












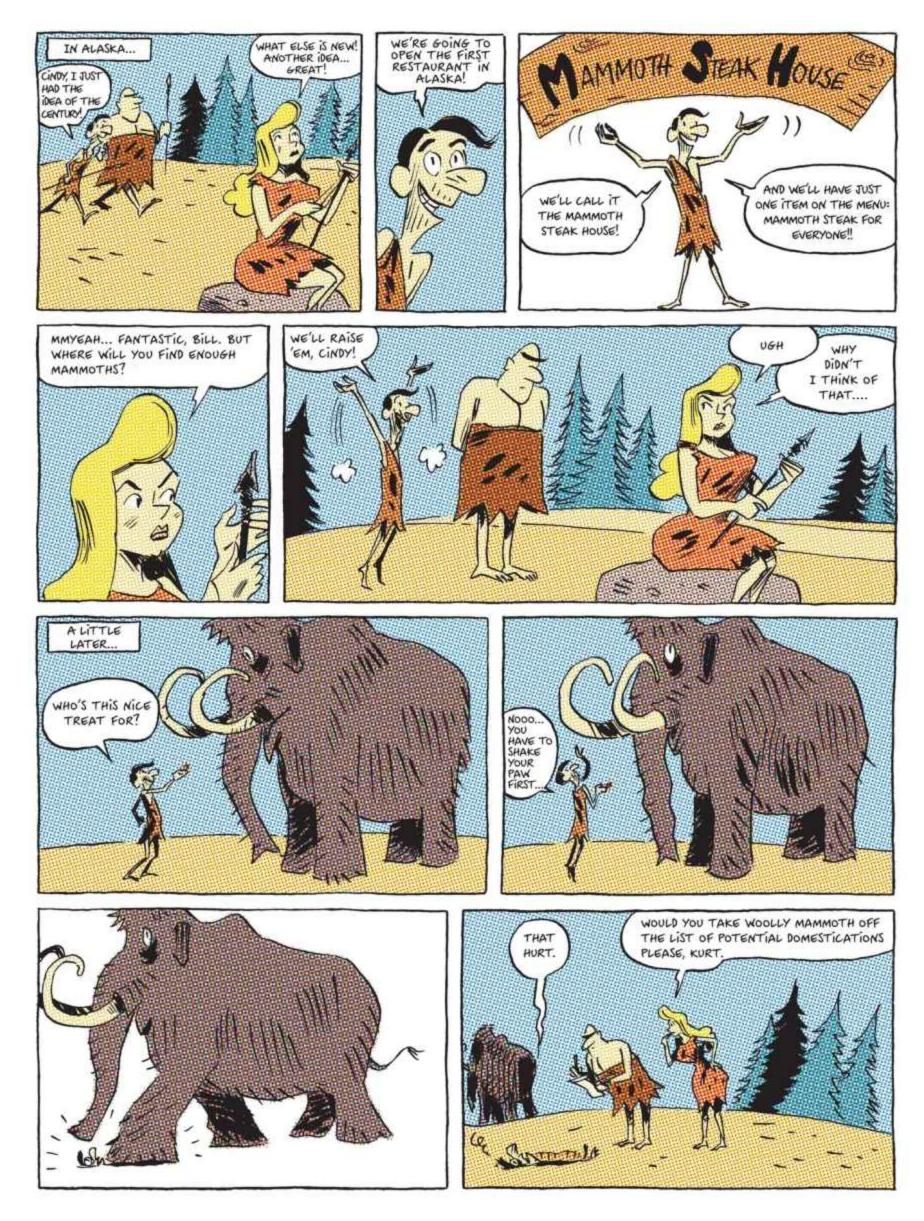


AGRICULTURE ACTUALLY EMERGED INDEPENDENTLY IN DIFFERENT PARTS OF THE WORLD.

AFRICA AND ALASKA, THERE WERE NO PLANTS OR ANIMALS SUITABLE FOR DOMESTICATION ....





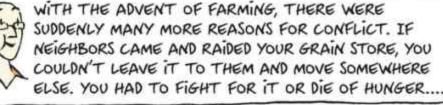




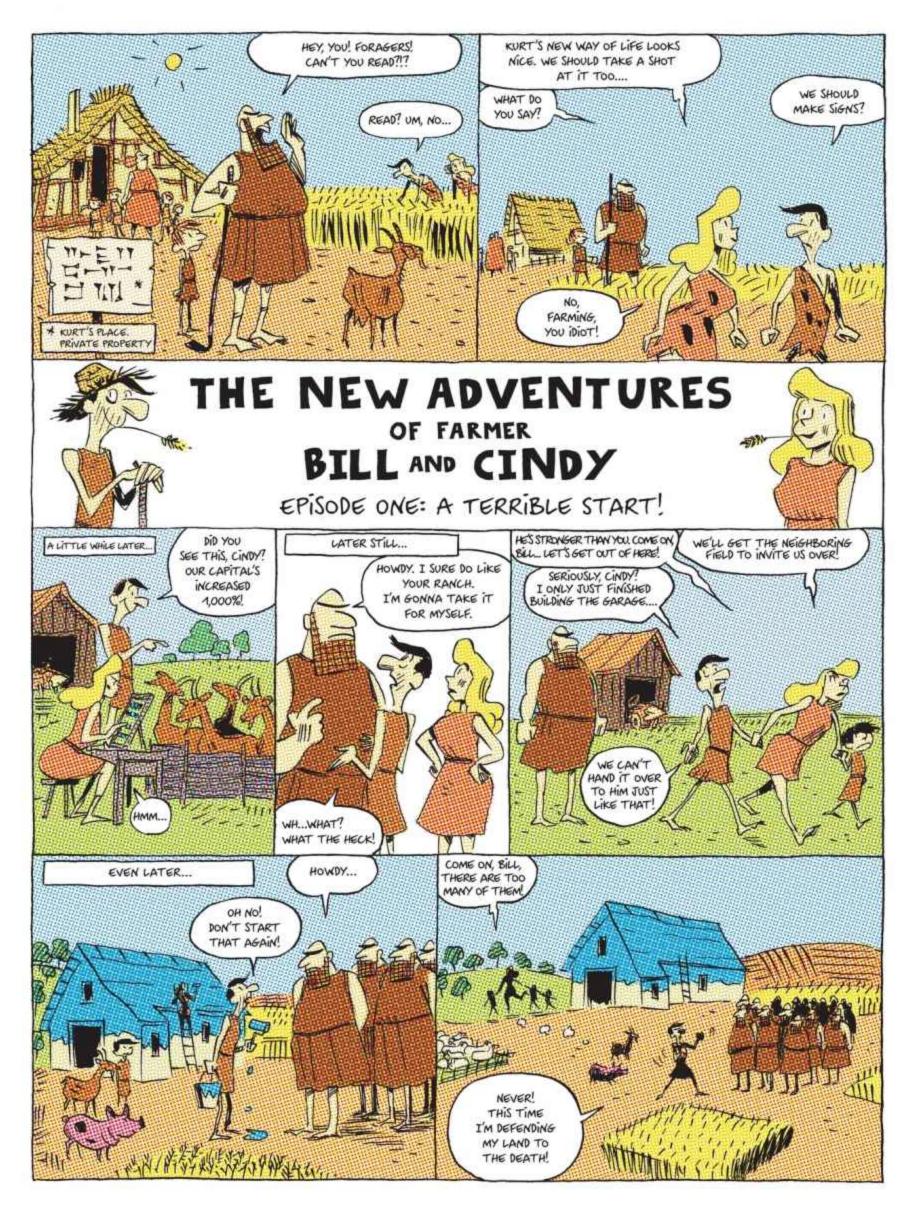




AGRICULTURE NOT ONLY RESULTED IN MORE EPIDEMICS, BUT ALSO MORE VIOLENCE!

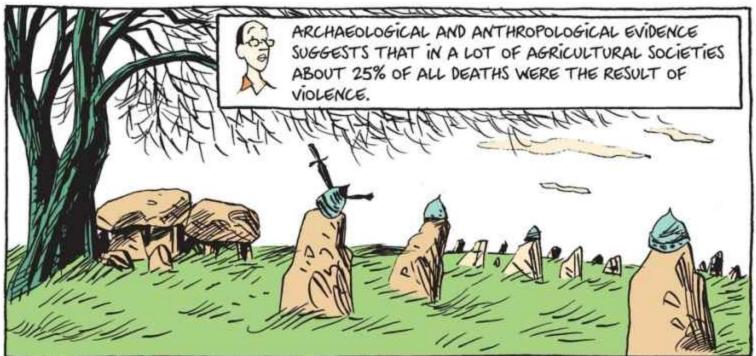


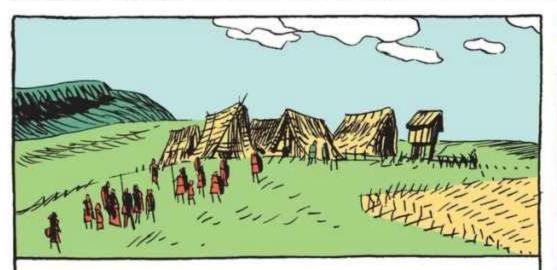




YOUR MAGAZINE'S ABSOLUTELY RIGHT, PLENTY OF STUDIES HAVE PROVEN IT.







AT FIRST THERE WERE PEACEFUL FARMERS AND VIOLENT ONES. TAKE THE ARCHAEOLOGICAL DIGS IN SOUTHERN LEVANT, FOR EXAMPLE: THEY FOUND THAT FOR THOUSANDS OF YEARS TOWNS AND VILLAGES IN THE REGION HAD NO WALLS AND PEOPLE HARDLY EVER WENT TO WAR.



BUT MORE VIOLENT FARMERS GRADUALLY EXTENDED THEIR TERRITORY AND PEOPLE HAD TO ADOPT THEIR BAD HABITS OR KEEP OUT OF THEIR WAY.

LARGE-SCALE WARFARE ISN'T A UNIVERSAL HUMAN CHARACTERISTIC. IT WAS INVENTED IN A NUMBER OF PRIMITIVE FARMING SOCIETIES.



SADLY, THERE'S NO NATURAL BALANCE BETWEEN WAR AND PEACE. IT TAKES TWO TRIBES TO MAKE PEACE, BUT IT ONLY TAKES ONE TO START A WAR.

VIOLENCE, HUNGER, DISEASE ...

FOR THOSE FIRST FARMERS?

BUT, UNCLE YUVAL, DON'T YOU THINK

LIVING IN VILLAGES HAD SOME ADVANTAGES

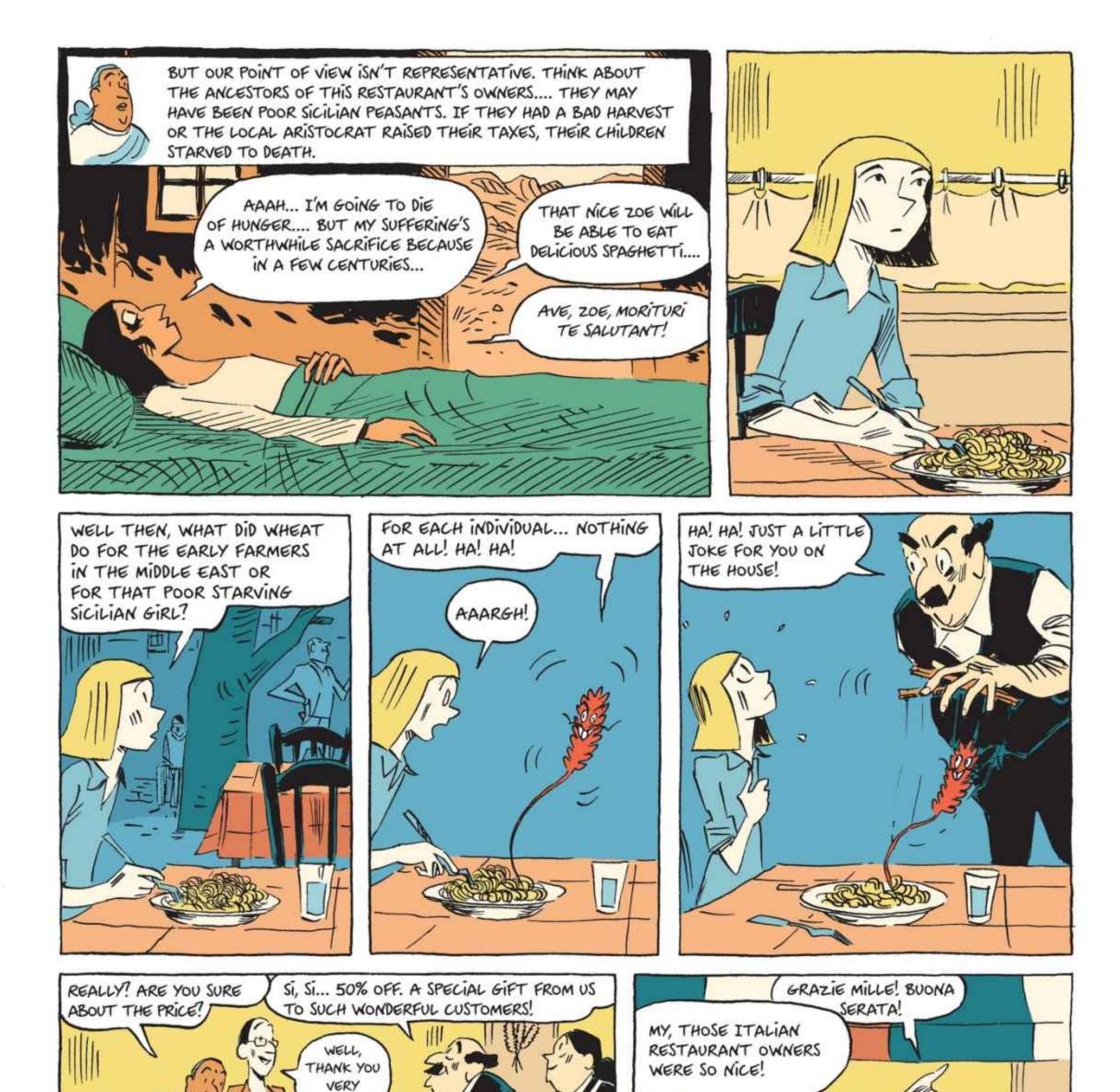


THAT'S TRUE, BUT FOR THE AVERAGE PERSON LIKE BILL AND

YOU SEEM TO LIKE FARMING A LOT, BUT THEN AGAIN YOU DON'T HAVE TO WORK THE LAND! YOU'RE HAPPY JUST EATING THE PRODUCE THAT COMES FROM FARMING. THE AGRICULTURAL REVOLUTION SEEMS LIKE A WONDERFUL IDEA TO PEOPLE LIVING IN PROSPEROUS MODERN SOCIETIES.









## **THE DAILY BUSINESS NEWS Agricultural Revolution was a trap!**



#### Milton Goldmine: Agriculture still greatest deal ever

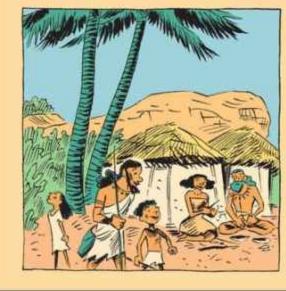
Famous economics professor Milton Goldmine challenges Professor Harari's statement.

Prof. Goldmine, speaking exclusively to DBN:



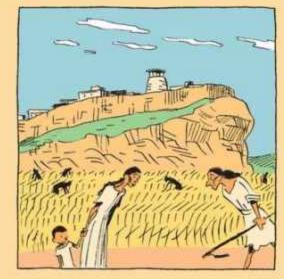
MG: "Granted, from each individual's point of view, agriculture may not have been such a great idea.... But for the Homo Sapiens Corporation it was a hell of a success story! Cereal cultivation guaranteed far more food per unit of territory. And that's how Homo sapiens enjoyed exponential population growth! "

#### YOUR FAVORITE COLUMN: Fibs, Lies and Statistics



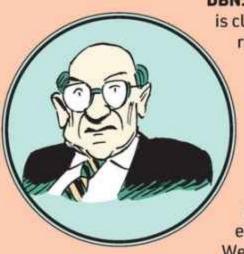
Approximately 13,000 years ago

When foragers ate wild plants and animals, the area around Jericho in Palestine could sustain a nomadic band of some 50 people.



About 9,000 years ago

When fields of wheat replaced wild plants, the oasis could support a big, crowded village with perhaps 1,000 inhabitants.



DBN: Should we, as Professor Harari is claiming, see agriculture as a terrible idea for Homo sapiens?

Milton Goldmine: Professor Harari is wrong; he's not seeing this from a management standpoint! I mean... a bit of common sense, for God's sake! We don't rate a company's success by measuring how happy its employees are—so far as I know! We look at its dividends! And the numbers prove that agriculture did wonders for humanity's bottom line! The currency of evolution isn't hunger or suffering, but genes!

**DBN:** Do you mean that the success of a species in evolutionary terms is measured by the number of copies of its DNA? extinct, just like a company with no money is bankrupt. If a species has more and more copies of its DNA, it's a huge evolutionary success!

DBN: So are 1,000 copies always better than 100?

MG: Well, of course! Here's the basic premise of the Agricultural Revolution: keeping more people alive on the same area of territory. That's progress!

MG: Why yes, exactly that! Everyone knows that! And Professor Harari should know it too! If there are no copies of its DNA left, the species is

#### FLASH INTERVIEW WITH YUVAL NOAH HARARI Three questions for Prof. Harari:

**DBN:** What do you say to Professor Goldmine's challenge of your analysis?

YNH: Yes, thanks to agriculture there were more people on earth, but they were also more miserable! Why would any sensible person lower their standard of living just to multiply the number of copies of the Homosapiens genome? It would be ridiculous. Nobody agreed to this deal! It was a trap! And it closed so slowly that humans fell into it before they understood what was happening!



<sup>(</sup>Interview continued on page 12.)



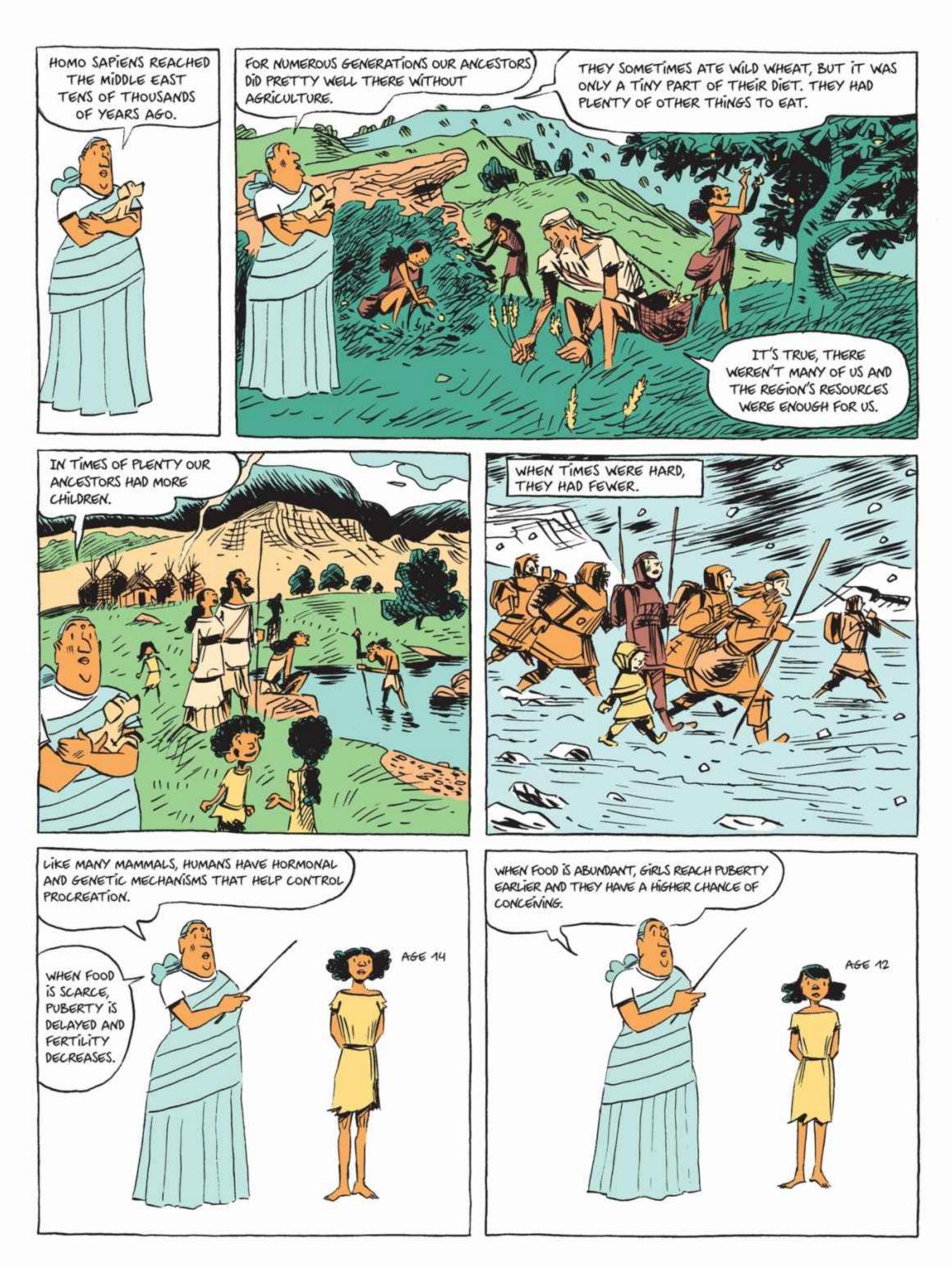


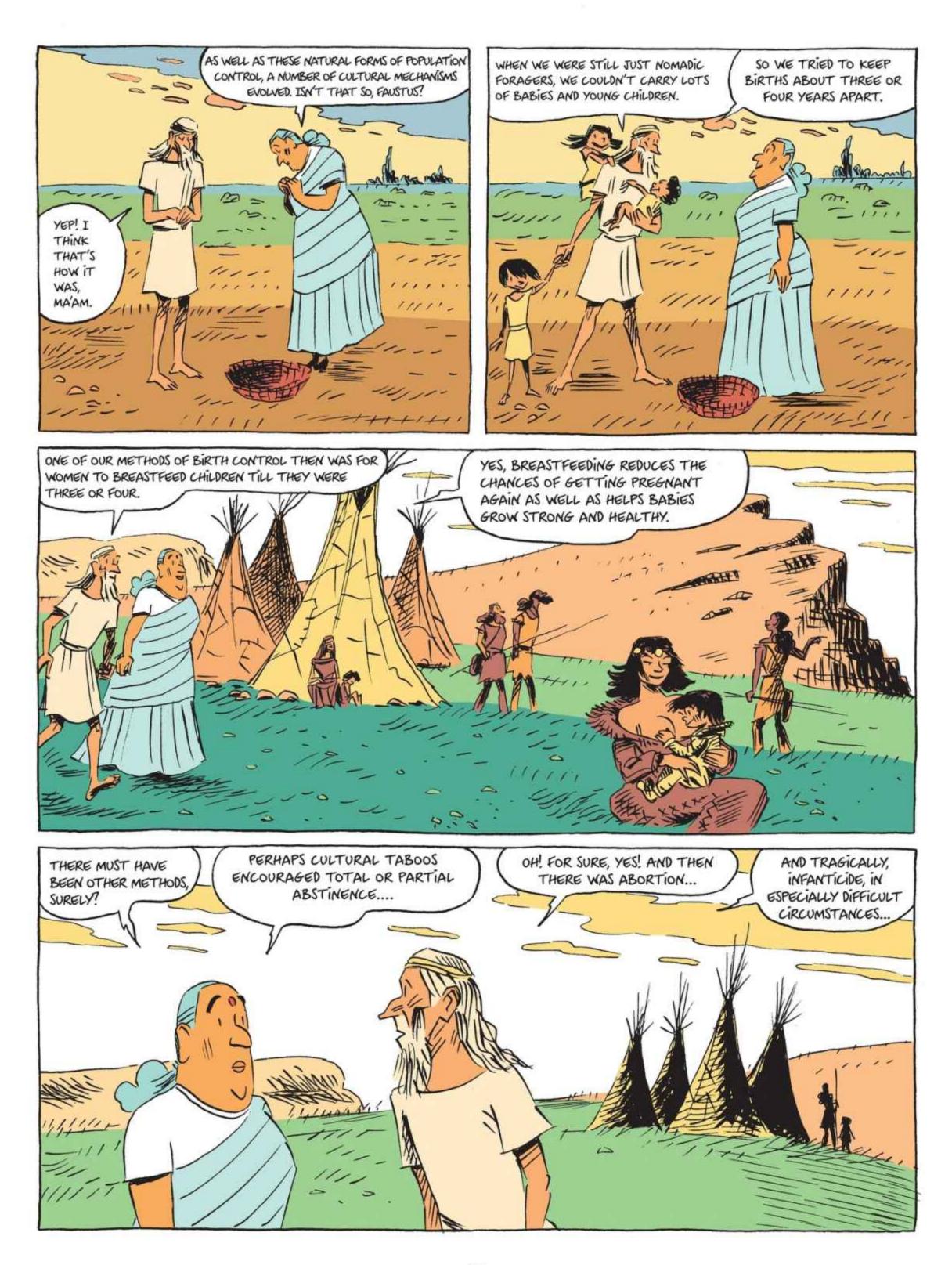


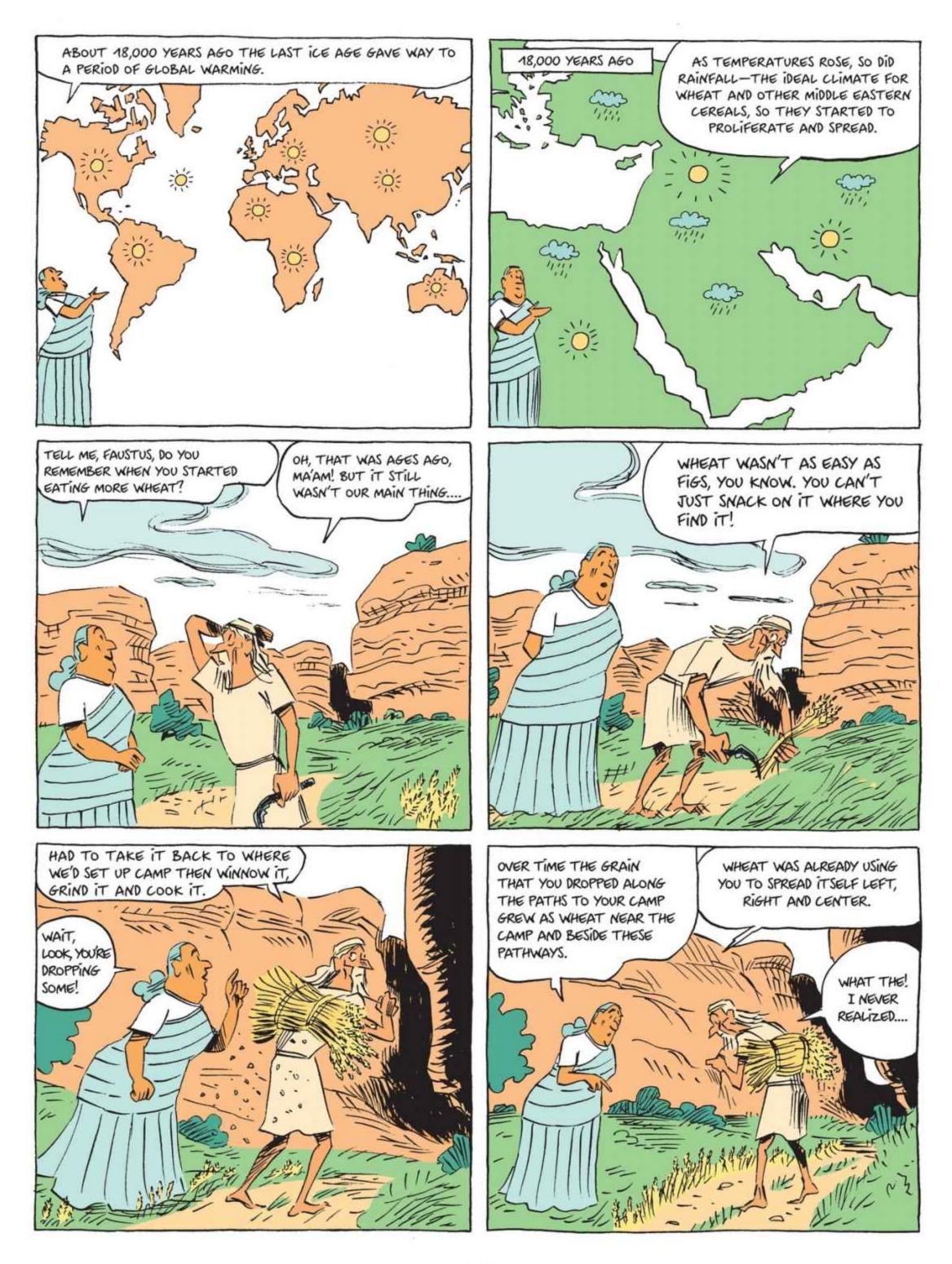


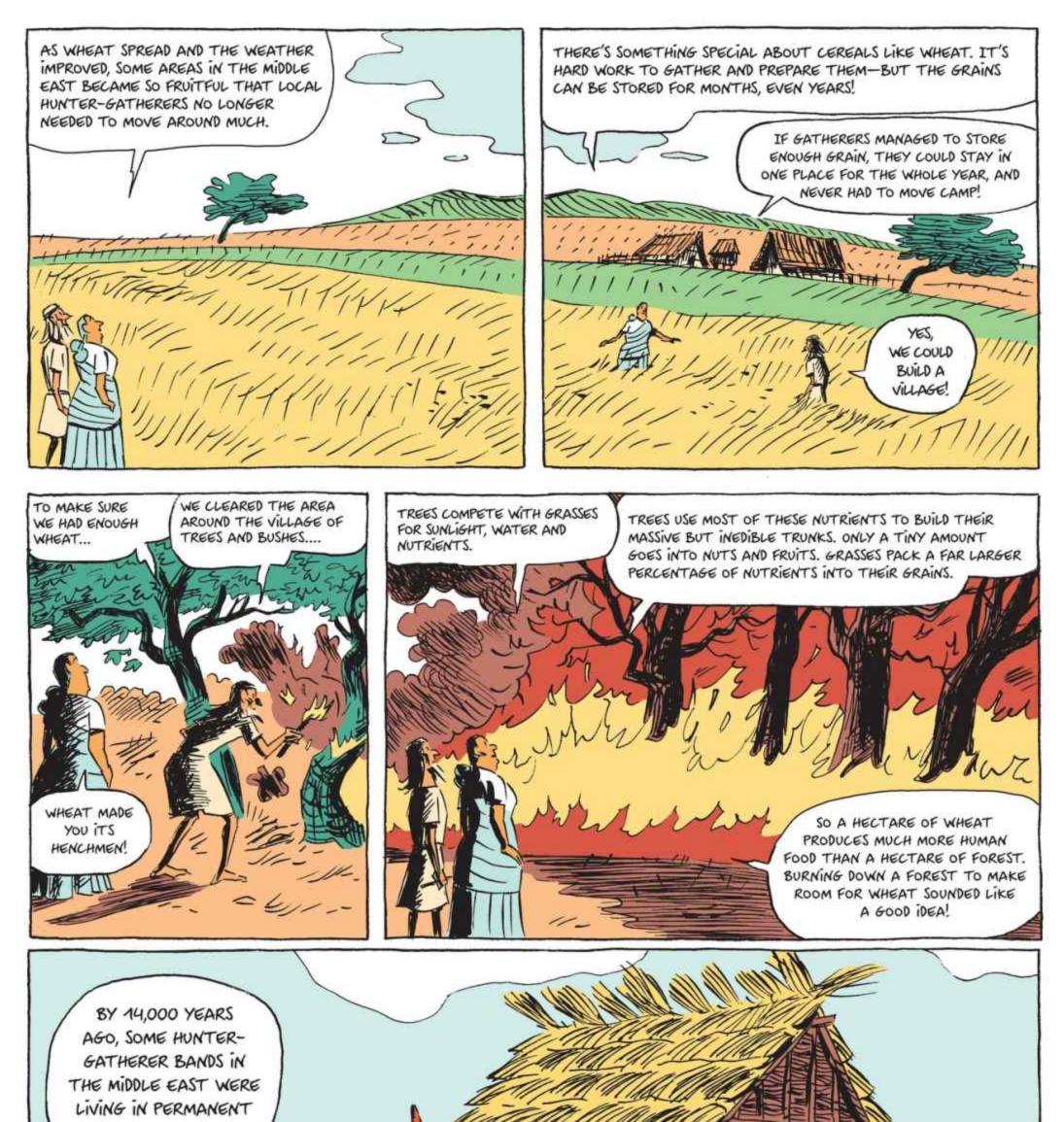




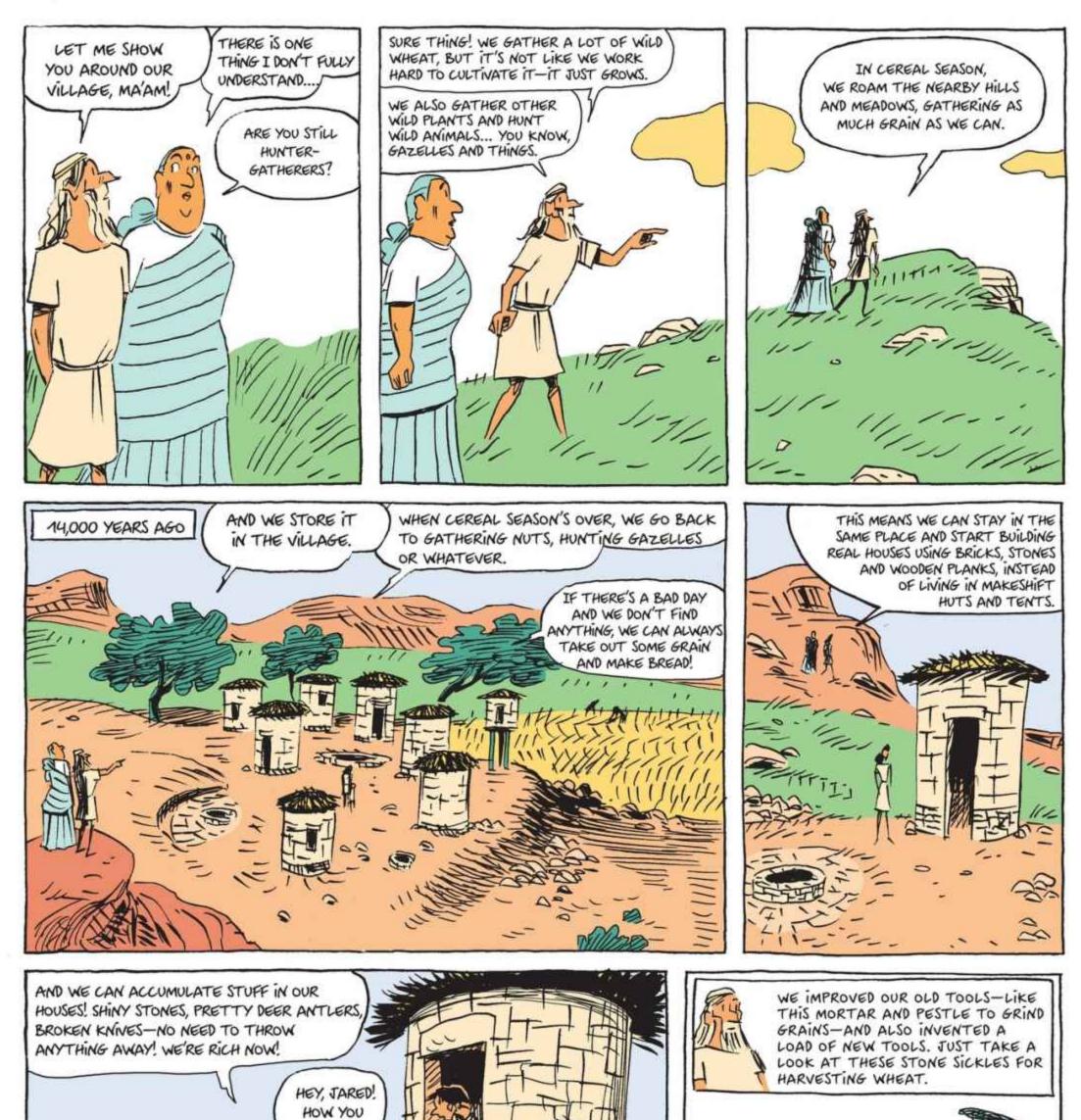


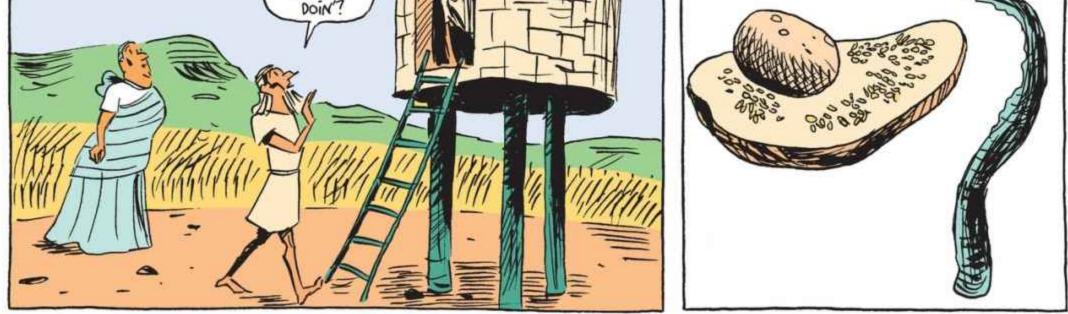


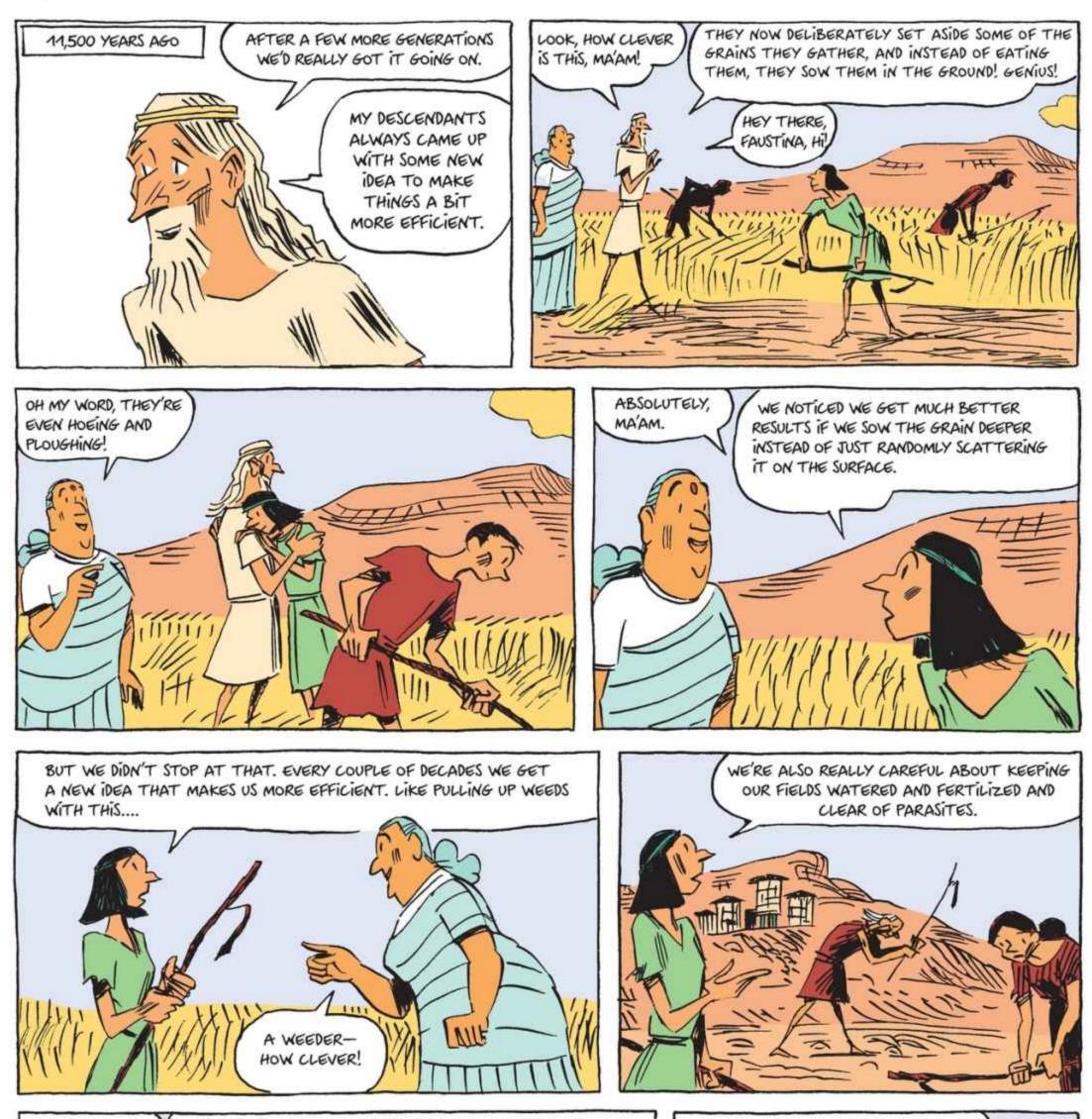








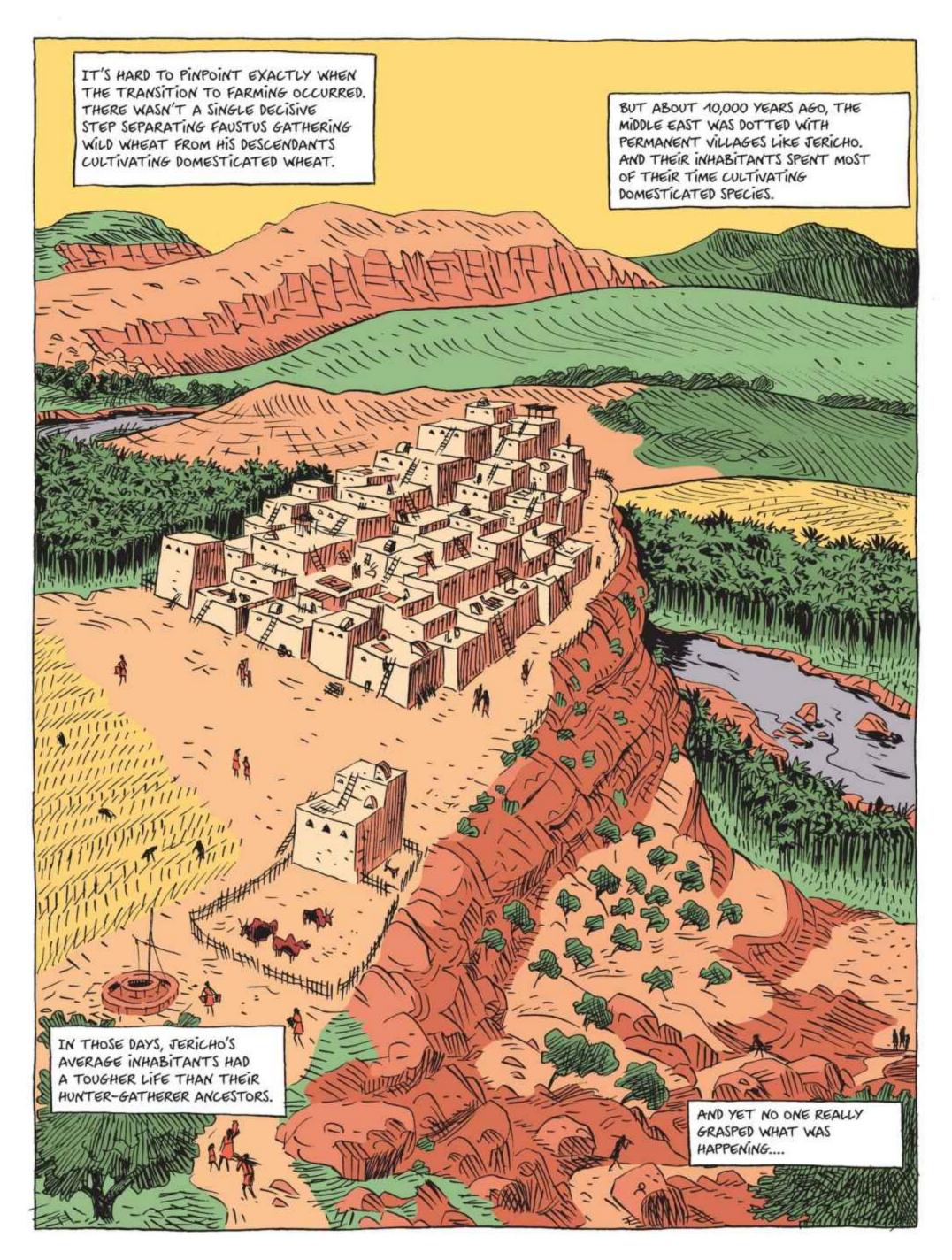




THAT MUST ALL Y YOU'VE NO IDEA! CULTIVATING WHEAT TAKES MORE AND MORE

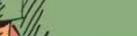
THAT'S RIGHT-YOU'VE TURNED INTO





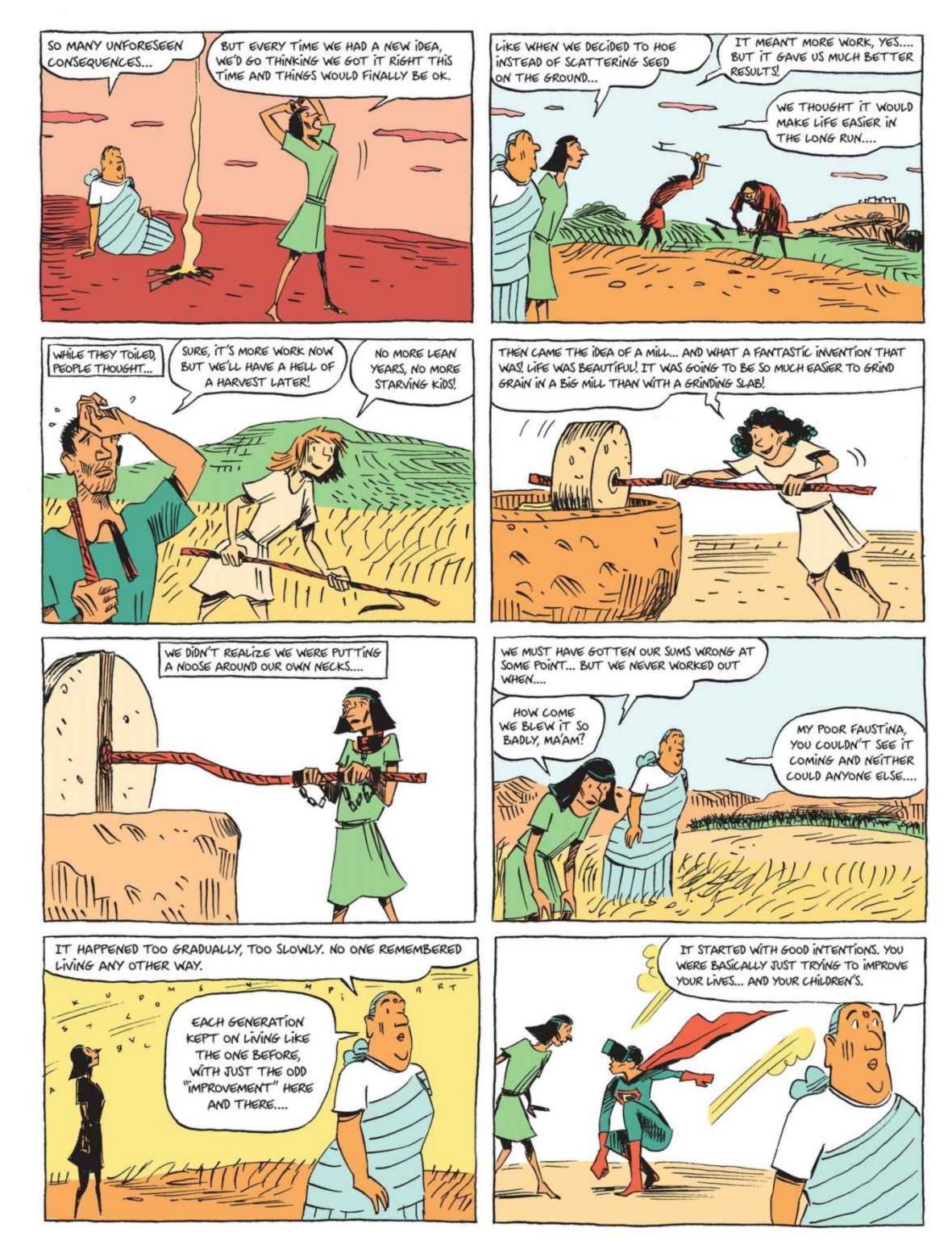






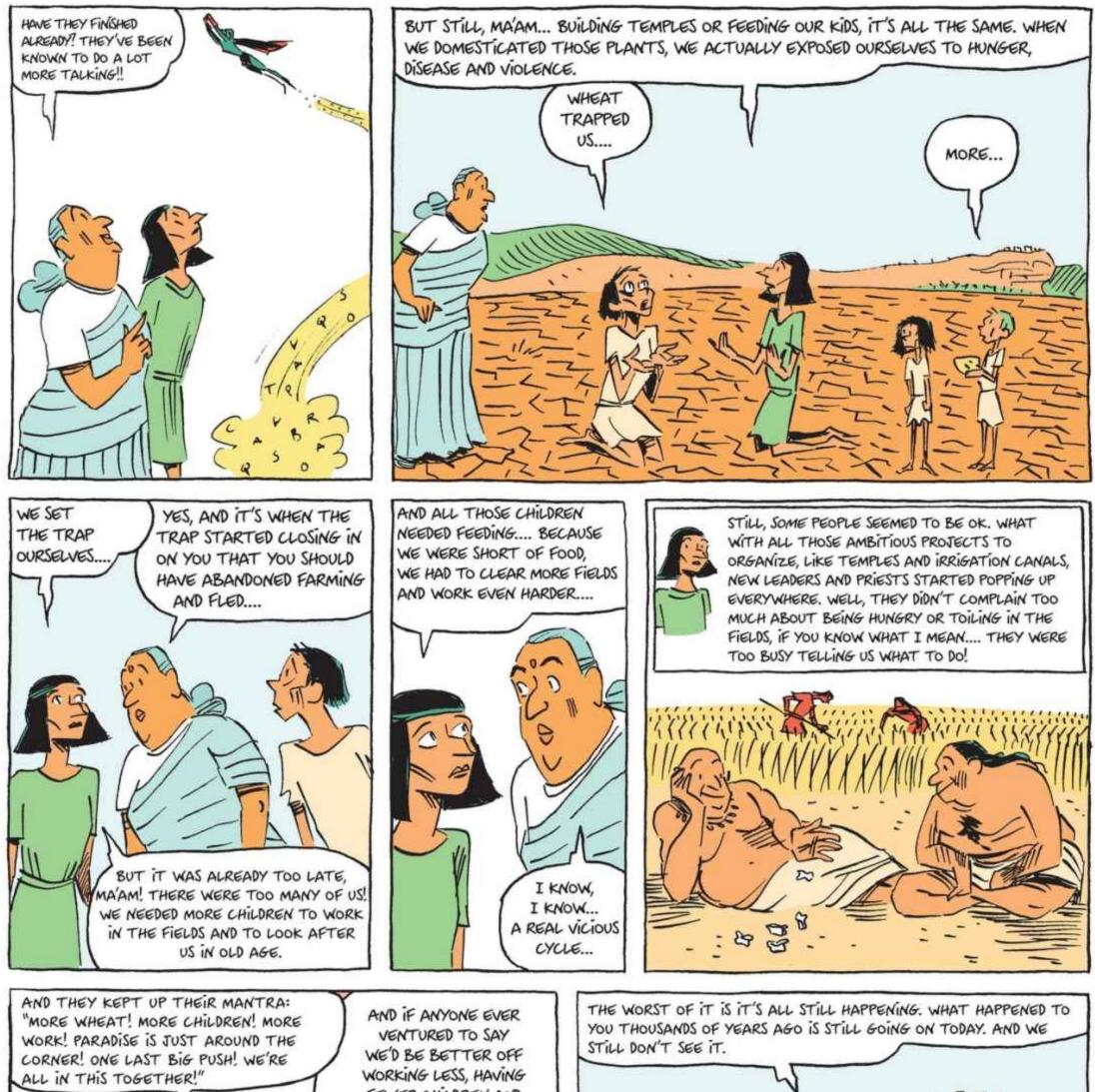
WORRIED THERE'D BE NO ONE TO LOOK AFTER US IN OUR OLD AGE.







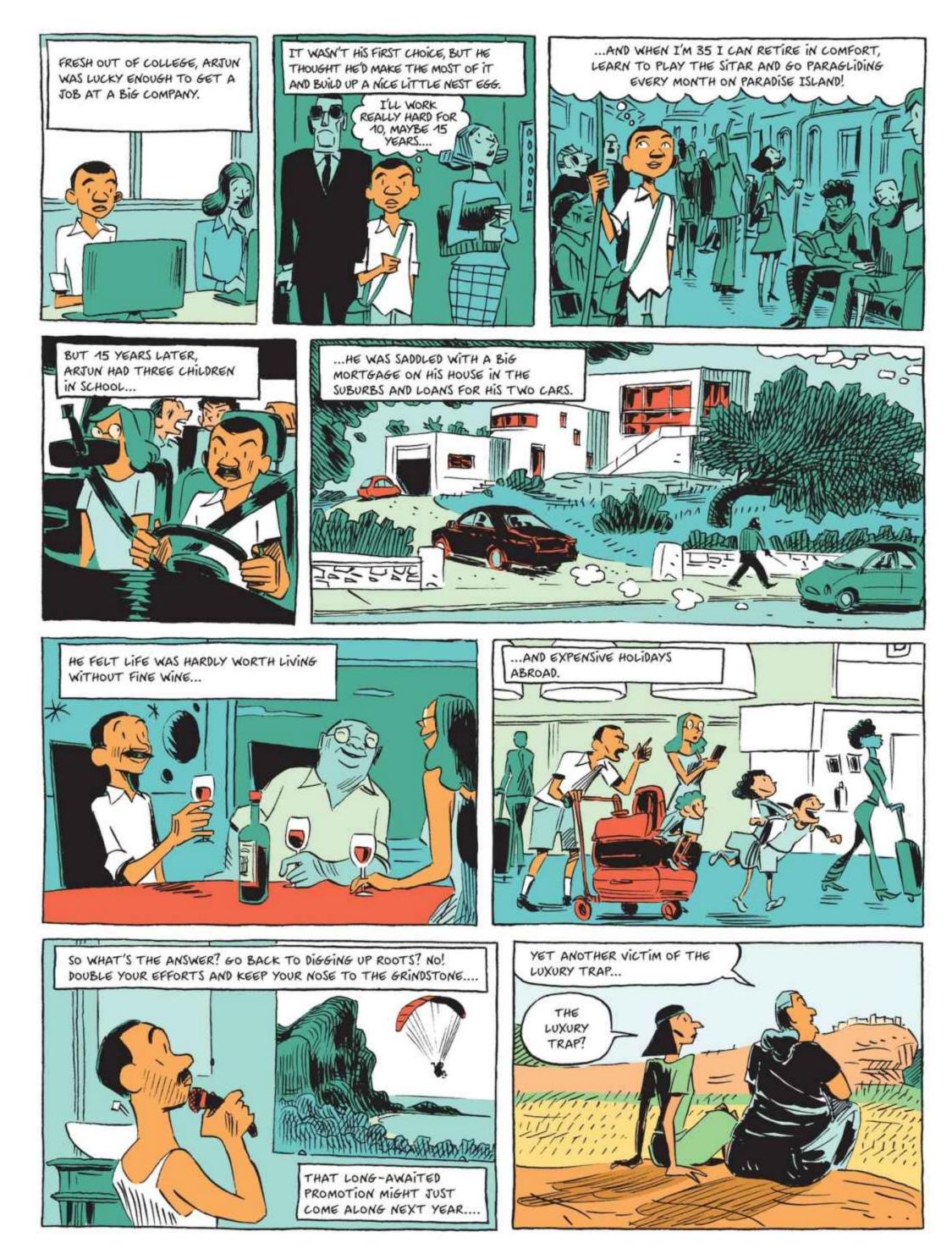




FEWER CHILDREN AND PRODUCING LESS WHEAT ...



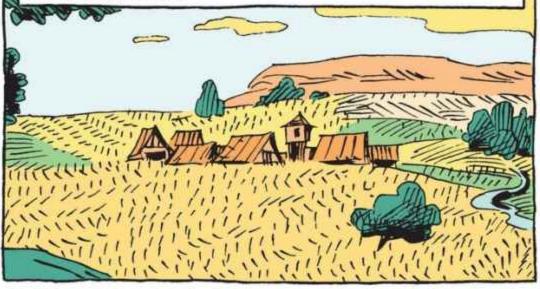
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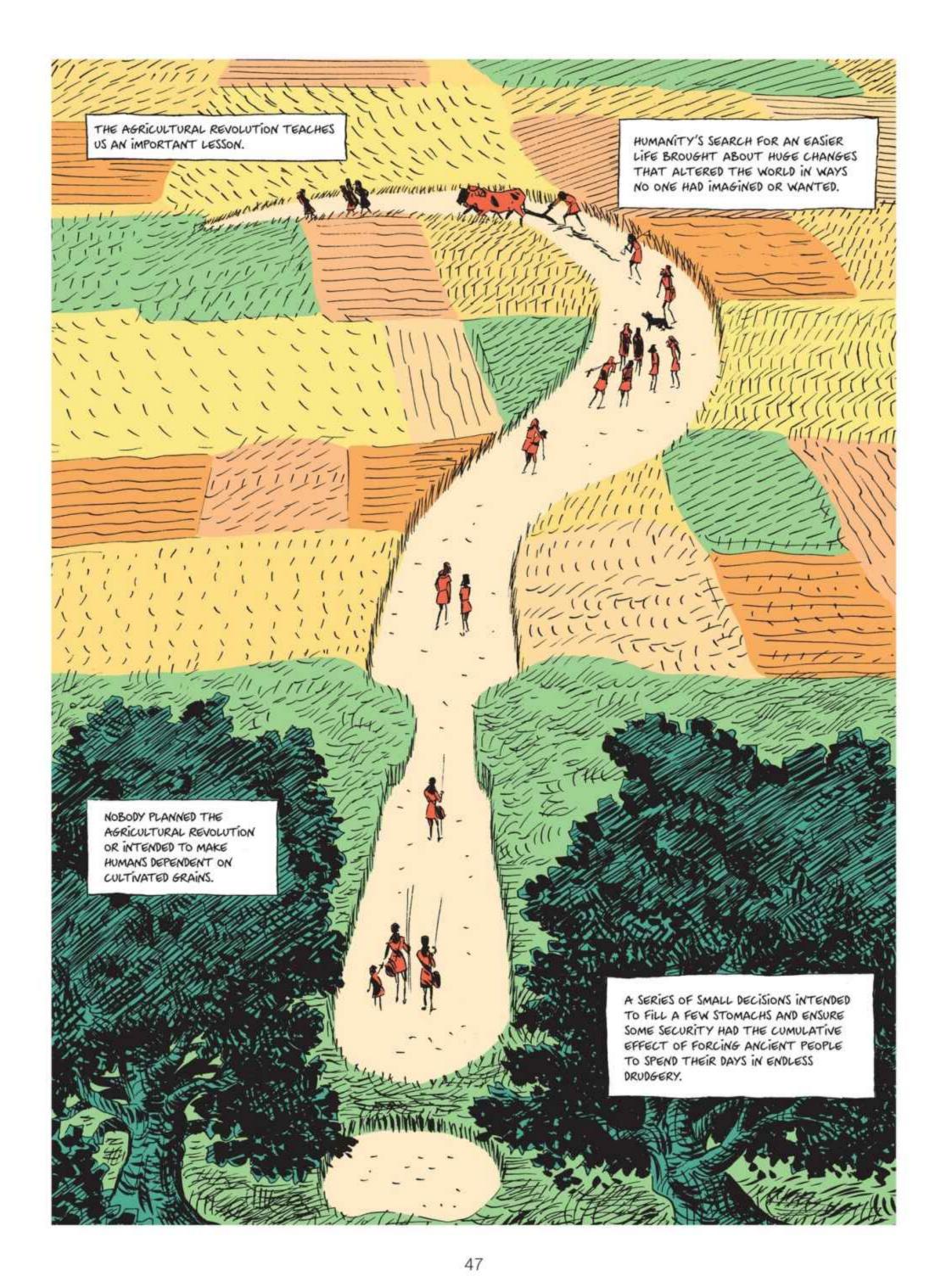


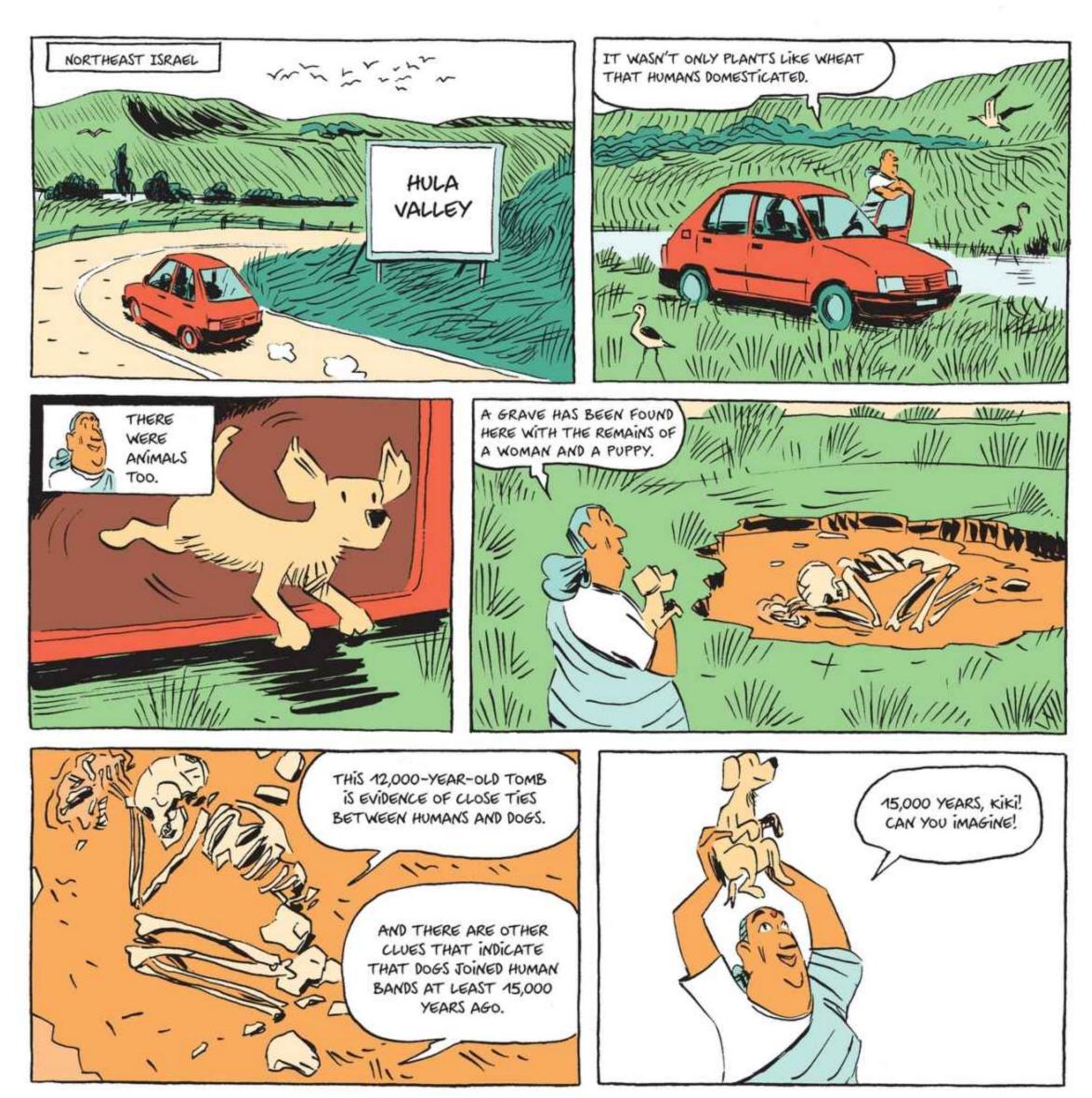
FORAGERS WHO REFUSED TO FALL IN THE TRAP HAD TO KEEP RUNNING AWAY AND ABANDONING THEIR HUNTING GROUNDS TO FIELDS AND PASTURE...



... OR START WORKING THE LAND THEMSELVES.... EITHER WAY, THEIR OLD WAY OF LIFE WAS DOOMED....













AND THAT WORKED FOR HUMAN INTRUDERS TOO.

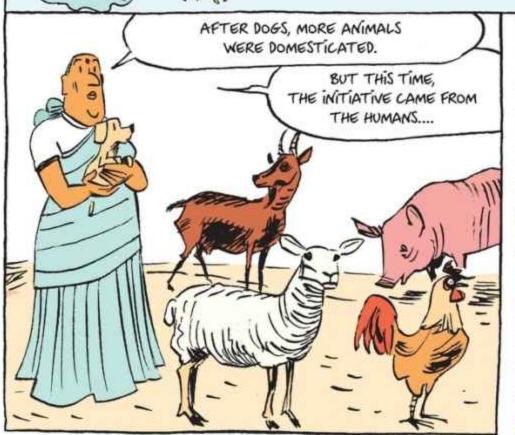


OVER MANY GENERATIONS, THE RELATIONSHIP BETWEEN DOGS AND HUMANS EVOLVED AND GREW CLOSER AND CLOSER. DOGS THAT WERE TUNED IN TO WHAT HUMANS WANTED WERE FAVORED AND SPOILED. AS FOR THE DISOBEDIENT ONES...





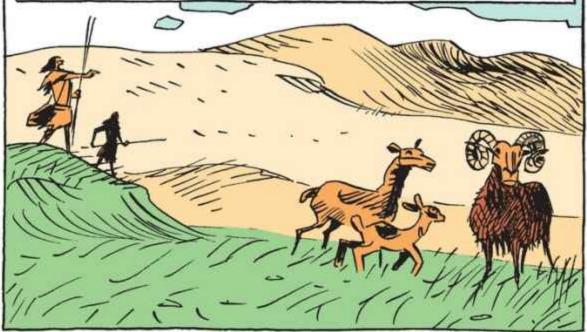




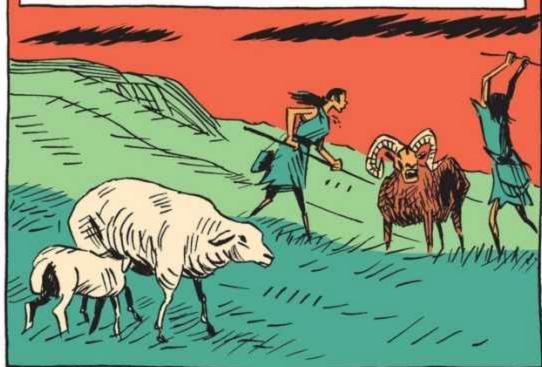
THE PROCESS PROBABLY STARTED WITH SELECTIVE HUNTING. HUMANS REALIZED IT WAS TO THEIR ADVANTAGE TO HUNT ADULT RAMS AND OLD OR SICK SHEEP ...



AND, AS WITH WHEAT, THE CHANGE HAPPENED OVER A LONG PERIOD .... BY TRACKING WILD SHEEP FOR GENERATIONS, NOMADIC BANDS GRADUALLY ALTERED THE MAKEUP OF FLOCKS.



... AND SPARE LAMBS AND FERTILE FEMALES TO ENSURE THE LONG-TERM HEALTH OF THEIR LOCAL FLOCK.



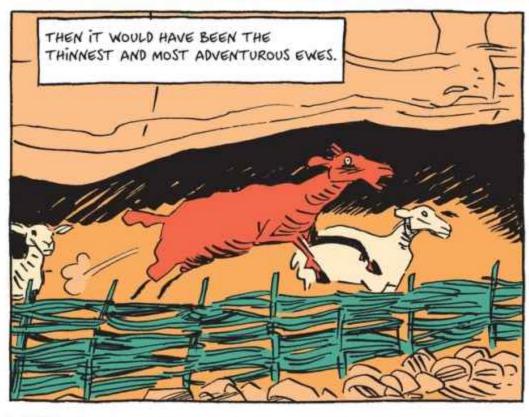


# DOMESTICATED?

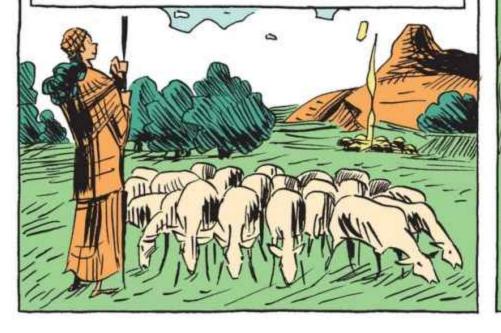
AT SOME POINT, THE FLOCK MAY HAVE BEEN CORRALLED IN A NARROW GORGE, SO IT WAS EASIER TO WATCH AND DEFEND. THEN HUMANS STARTED MORE CAREFUL SELECTION OF THE SHEEP TO MEET THEIR OWN NEEDS.

THE FIRST TO BE SLAUGHTERED WERE THE MOST AGGRESSIVE RAMS THAT RESISTED BEING CONTROLLED BY HUMANS.





SHEPHERDS DON'T LIKE RUNAWAY SHEEP. WITH EACH GENERATION, THE SHEEP GREW FATTER, MORE DOCILE AND LESS INQUISITIVE.



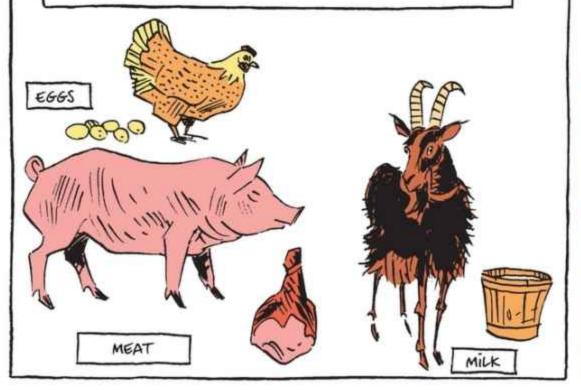
A LOT OF PATIENCE AND

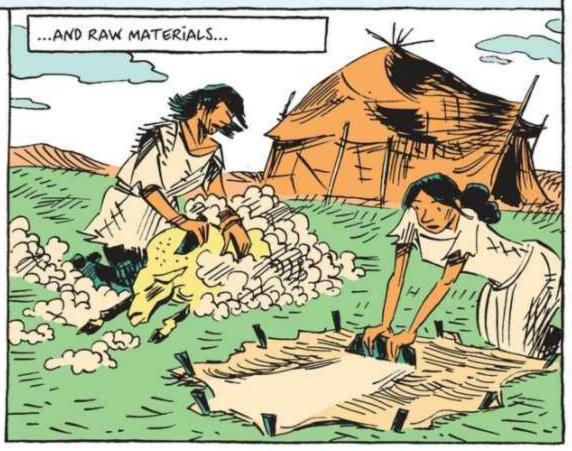




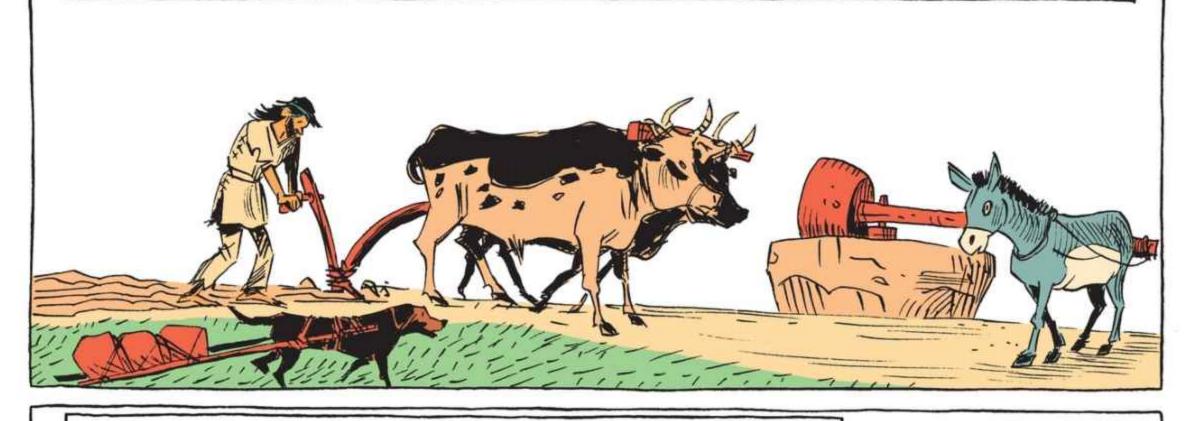
## WHY WERE ANIMALS

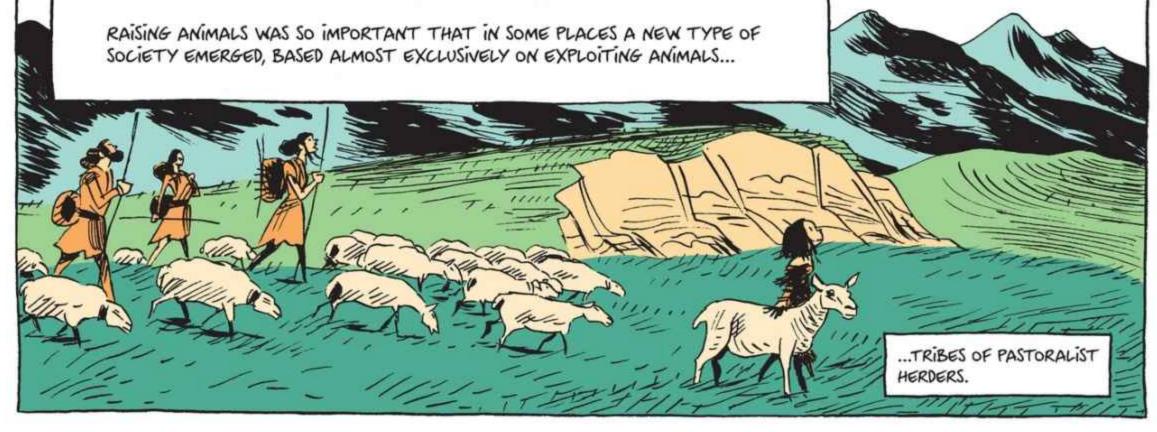
DOMESTICATED ANIMALS WERE VERY USEFUL TO HUMANS. OF COURSE, THEY WERE A SOURCE OF FOOD ...



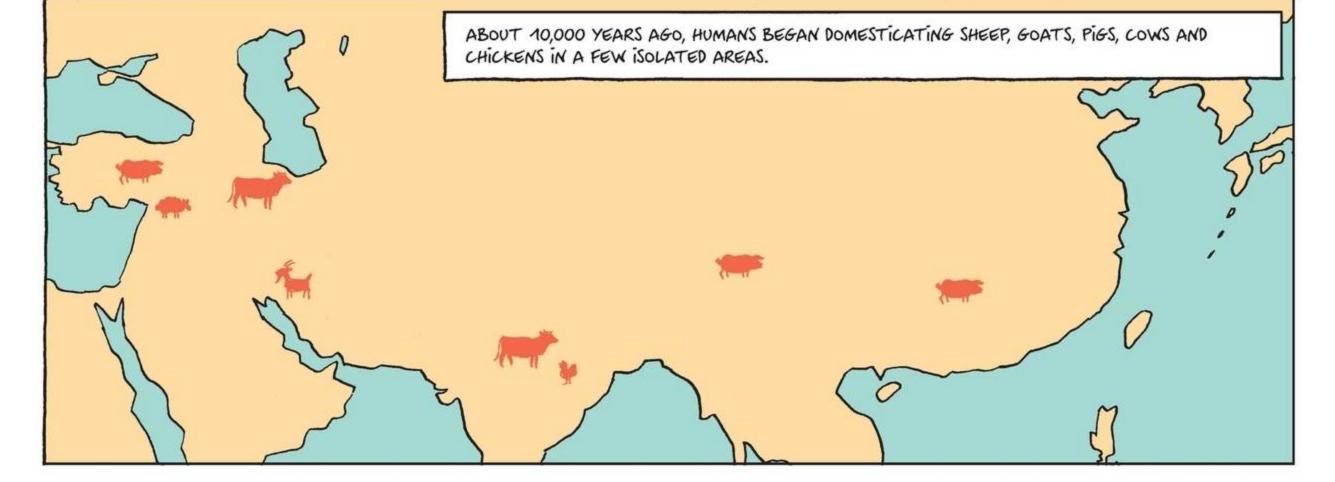


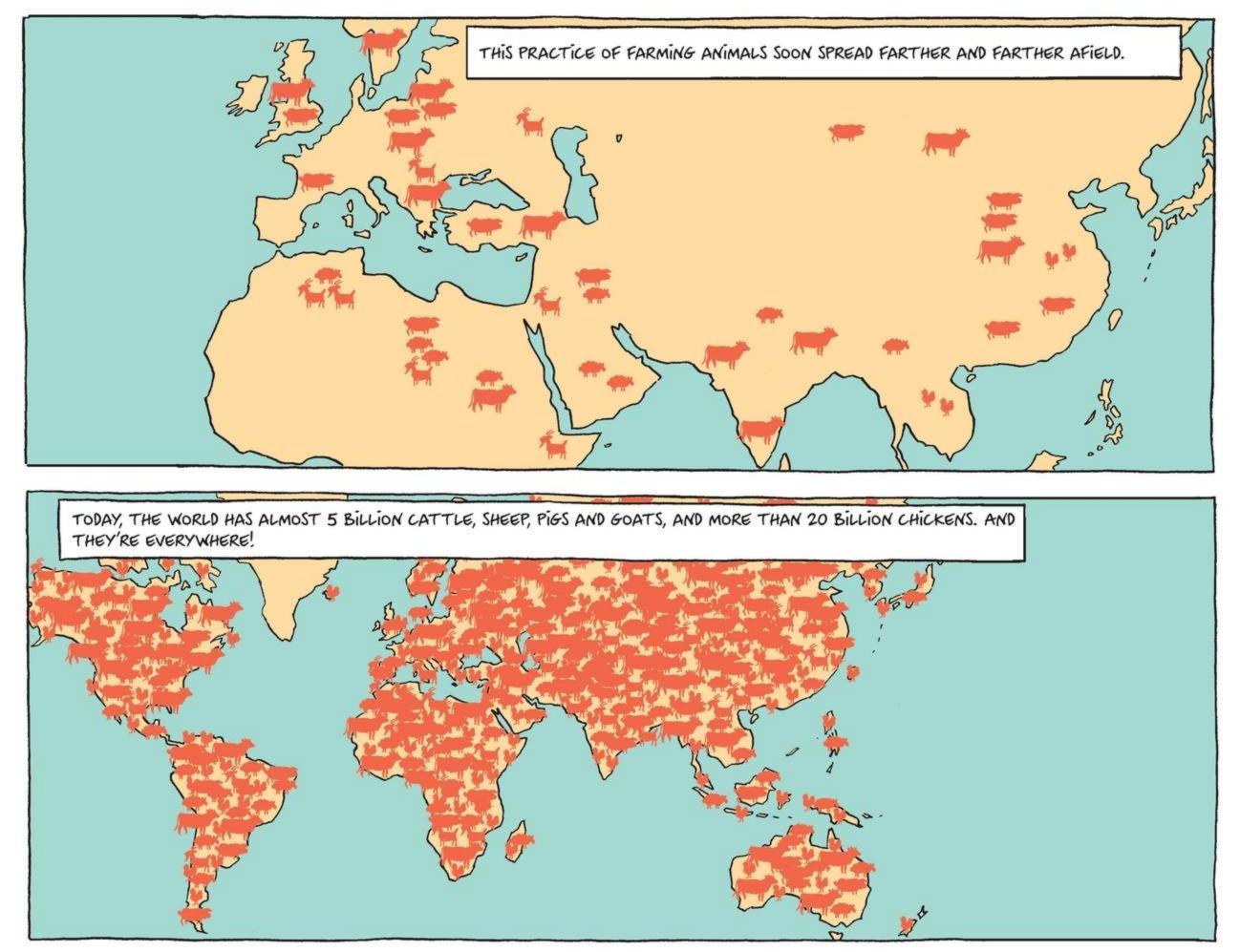
... AS WELL AS SHEER MUSCLE POWER. DOMESTICATED ANIMALS STARTED REPLACING HUMANS IN ALL SORTS OF TASKS.



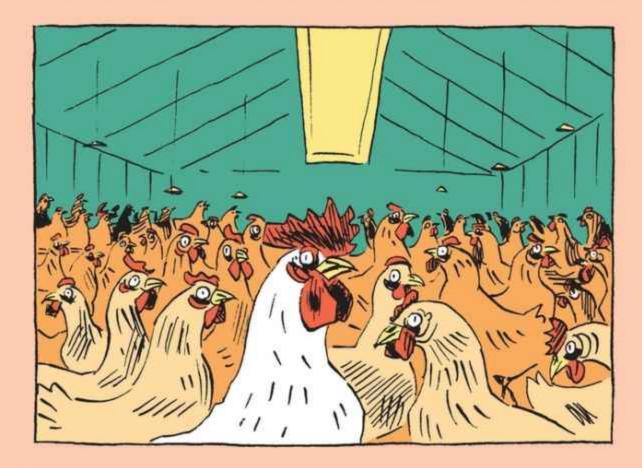


## DOMESTICATED?



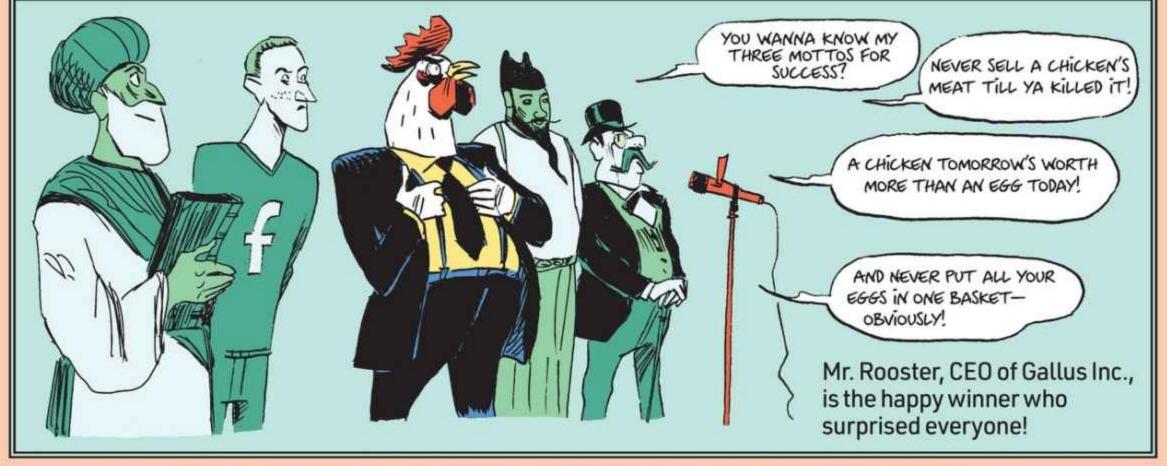


#### **THE DAILY BUSINESS NEWS** CHICKENS—AN INCREDIBLE SUCCESS STORY!



The stratospheric success of one bird species! Winners of the EVOLUTION AWARD!

Read our special feature on pages 4 to 12



#### Famous economist Milton Goldmine gives us his reaction



Milton Goldmine, member of the jury for the Evolution Awards

WE HAVE TO FACE IT: THERE ARE ALWAYS PEOPLE WHO CAN'T ENJOY SOMEONE ELSE'S SUCCESS....



YOU BASE EVERYTHING ON THE NUMBER OF COPIES OF DNA... BUT YOU DON'T TAKE INTO ACCOUNT THE SUFFERING OR HAPPINESS OF INDIVIDUALS.



THESE POOR CREATURES ARE THE MOST MISERABLE THAT EVER LIVED. I PERSONALLY DON'T SEE THAT AS A SUCCESS STORY!

EIGHT WEEKS OF LIFE IS STILL PRETTY GOOD, THOUGH, ISN'T IT?

FROM AN ECONOMIC POINT OF VIEW, THAT'S ALWAYS

BEEN THE OPTIMAL AGE

TO SLAUGHTER THEM ....

AND THIS WON'T COME AS A SURPRISE; NATURALLY I'M TALKING ABOUT MR. "NEVER HAPPY"! I MEAN, OF COURSE, PROFESSOR YUVAL NOAH HARAR!



AREN'T YOU JUST REFUSING TO SEE THE POSITIVE SIDE?

ABSOLUTELY NOT! LOOK AT THE LIFE SPAN OF THESE POOR DOMESTICATED ANIMALS.... CHICKENS ARE OFTEN SLAUGHTERED WHEN THEY'RE LESS THAN EIGHT WEEKS OLD, WHILE CALVES ARE BUTCHERED AFTER A YEAR OR TWO.

WHY WOULD YOU WANT TO GO ON FEEDING A ROOSTER FOR 10 YEARS WHEN IT'S ALREADY REACHED IT'S MAXIMUM WEIGHT AFTER A COUPLE OF MONTHS? IT WOULD BE RIDICULOUS!!



OF COURSE NOT! THEN HIS MUSCLES WOULD BUT, PROFESSOR, IN EVOLUTIONARY TERMS, IN SOME ULTRAMODERN INDUSTRIAL FACILITIES, STRENGTHEN, AND CUSTOMERS WOULD CATTLE ARE ONE OF THE MOST SUCCESSFUL CALVES ARE SEPARATED FROM THEIR MOTHER COMPLAIN THAT THEIR STEAKS IMMEDIATELY AFTER BIRTH. EACH CALF IS THEN SPECIES EVER. WEREN'T TENDER ENOUGH! SHUT IN A TINY CAGE BARELY BIGGER THAN HIS OWN BODY .... IN OUR COMPETITION FOR THE TITLE OF "ANIMAL WITH THE MOST COPIES OF DNA," COWS, PIGS AND CHICKENS ARE ALWAYS ON THE PODIUM! YES, BUT IF THERE WAS A COMPETITION AND THE CALF SPENDS HIS WHOLE LIFE THE ONLY OPPORTUNITY THAT CALF GETS FOR THE MOST MISERABLE ANIMAL EVER THERE! HE NEVER COMES OUT OF THAT TO WALK, STRETCH HIS MUSCLES AND SPEND TO EXIST, COWS, PIGS AND CHICKENS WOULD CAGE .... HE'S NEVER ALLOWED TO PLAY TIME WITH OTHER CALVES IS ON THE WAY WALK AWAY WITH JUST AS MANY MEDALS! WITH OTHER CALVES OR GAMBOL AROUND! TO THE ABATTOIR!

PROFESSOR HARARI, WHY DO YOU REFUSE TO CELEBRATE THE CHICKEN'S REMARKABLE SUCCESS?

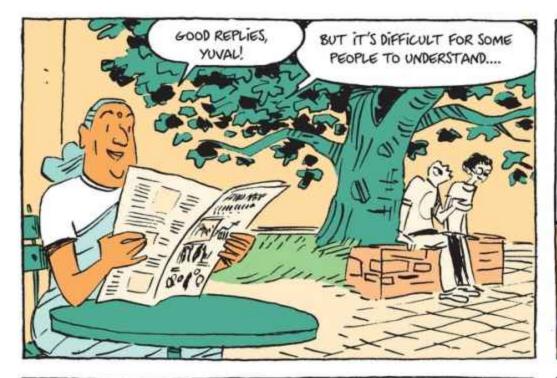


25 YEARS FOR

A COW ....

LISTEN, ANIMAL DOMESTICATION IS BASED ON BRUTAL PRACTICES THAT ONLY GREW CRUELER WITH EACH PASSING CENTURY.

> AS BAD AS THINGS WERE ON ANCIENT FARMS, THEY CAN BE MUCH WORSE NOWADAYS.



FARMERS STARTED SYSTEMATICALLY CONTAINING ANIMALS IN PENS AND CAGES, BRIDLING THEM WITH HARNESSES AND LEASHES, DISCIPLINING THEM WITH WHIPS AND CATTLE PRODS, AND MUTILATING THEM. THEY CUT OFF THEIR HORNS OR THEIR EARS-AND OF COURSE THEIR TESTICLES.



IN MANY SOCIETIES THROUGHOUT THE WORLD, PEOPLE'S WEALTH HAS TRADITIONALLY BEEN DETERMINED BY HOW MANY ANIMALS THEY OWNED. IN NEW GUINEA, FOR EXAMPLE, PIGS WERE THE KEY ASSET.



A PIG CAN'T FIND FOOD OR EVEN FIND IT'S WAY AROUND WITHOUT SNIFFING, SO THIS MUTILATION MAKES THEM

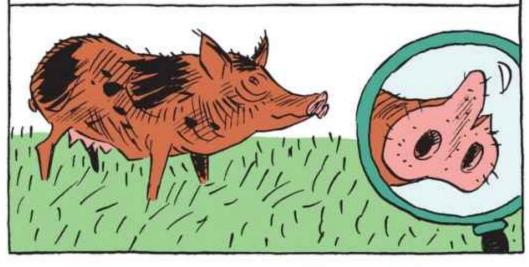




THE TAMING PROCESS ALMOST ALWAYS INVOLVES CASTRATION, WHICH REDUCES MALE AGGRESSION AND MEANS HUMANS CAN COMPLETELY CONTROL BREEDING WITHIN THE HERD.



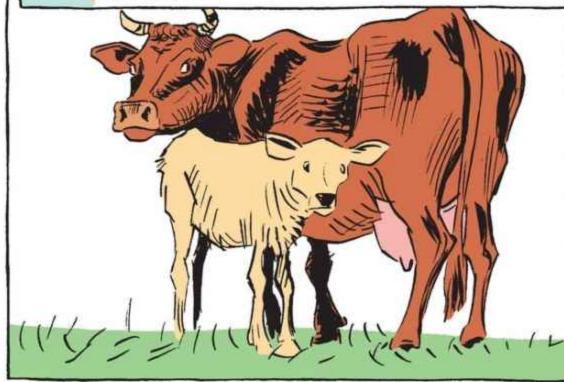
IN NORTHERN NEW GUINEA, FARMERS MAKE SURE THEIR PIGS DON'T RUN AWAY BY SLICING OFF PART OF THEIR SNOUTS. THIS CAUSES THE PIGS SEVERE PAIN WHENEVER THEY TRY TO SNIFF.



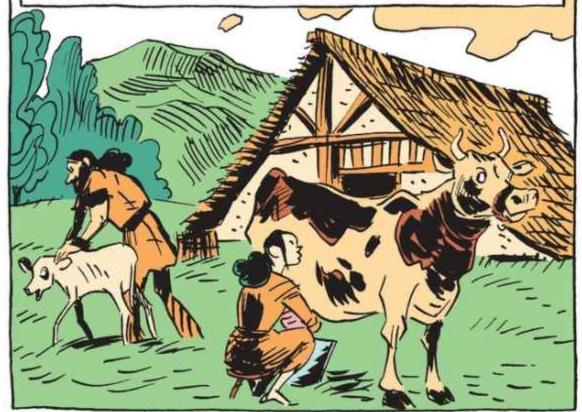
YOUR ALMOND MILK MILKSHAKE, MA'AM ...



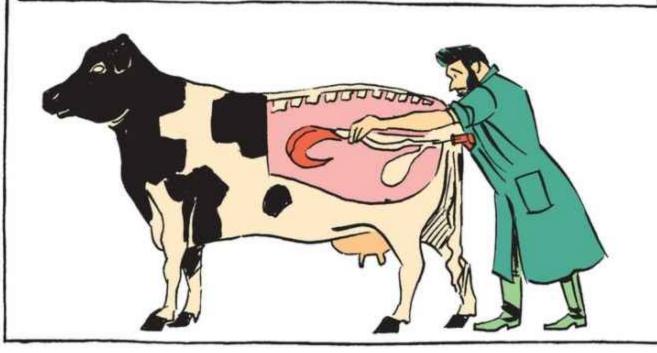
THE DAIRY INDUSTRY HAS COME UP WITH IT'S OWN WAYS OF FORCING ANIMALS TO COMPLY WITH IT'S NEEDS. COWS, GOATS AND SHEEP PRODUCE MILK ONLY AFTER GIVING BIRTH ... AND THEIR MILK IS MEANT FOR CALVES, KIDS AND LAMBS, NOT HUMANS.



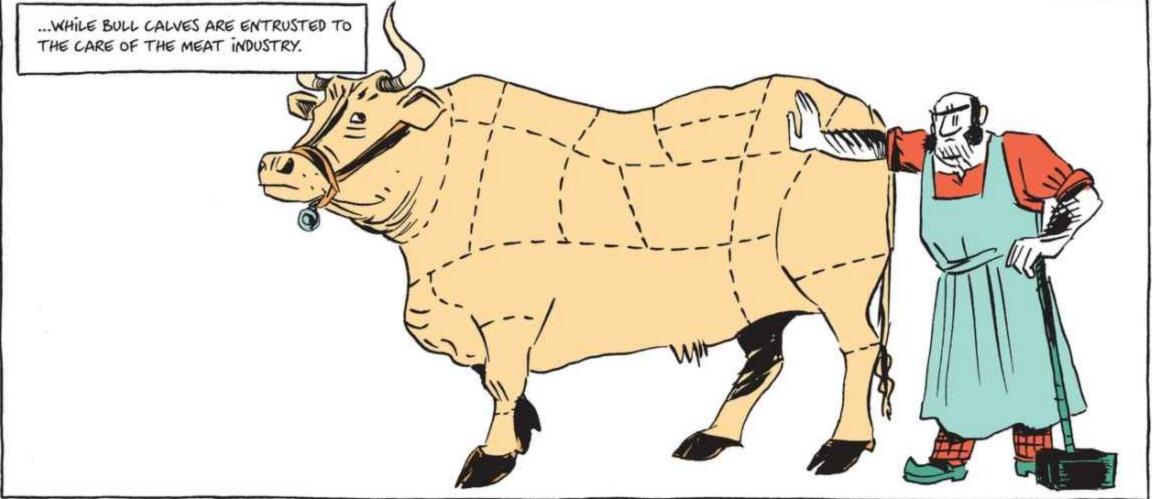
FIRST, FARMERS ENSURE THAT THEIR FEMALE LIVESTOCK ARE PREGNANT, THEN THEY TAKE AWAY THE YOUNG SHORTLY AFTER BIRTH. THEY MILK THE MOTHERS FOR ALL THEY'RE WORTH AND MAKE SURE THAT THEY'RE SOON PREGNANT AGAIN.



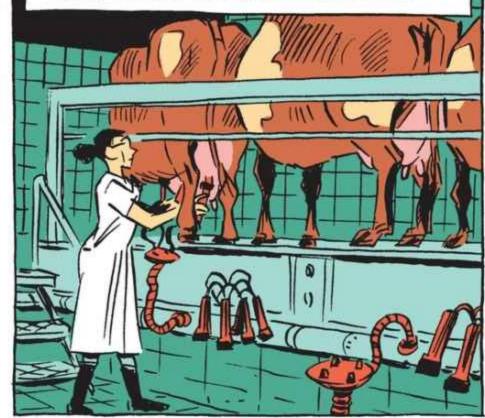
ARTIFICIAL INSEMINATION IS THE MOST WIDESPREAD PRACTICE. IN MANY MODERN DAIRY FARMS, A MILKING COW LIVES ABOUT FIVE YEARS BEFORE BEING SLAUGHTERED. SHE IS PREGNANT FOR MUCH OF THOSE FIVE YEARS AND IS ARTIFICIALLY INSEMINATED WITHIN 60 TO 120 DAYS OF CALVING TO ENSURE MAXIMUM MILK PRODUCTION.



THE CARE OF THE MEAT INDUSTRY.



AS FOR THE CALVES, AFTER THEY'RE SEPARATED FROM THEIR MOTHERS, FEMALE CALVES ARE REARED TO PROVIDE THE NEXT GENERATION OF DAIRY COWS ...



THE WHOLE OF THE DAIRY INDUSTRY IS BUILT ON BREAKING THE MOST FUNDAMENTAL BOND IN MAMMALS—THE BOND BETWEEN A MOTHER AND HER OFFSPRING. AS A BIOLOGIST, I FIND THAT TERRIBLY CRUEL.

ACTUALLY, I FIND THE DAIRY INDUSTRY NOT ONLY CRUEL, BUT ALSO PRETTY STRANGE.

WHY SHOULD HUMANS DRINK COW'S MILK? WOLVES NEVER DRINK EWE'S MILK, AND TIGERS NEVER DRINK ELEPHANT'S MILK, DO THEY?

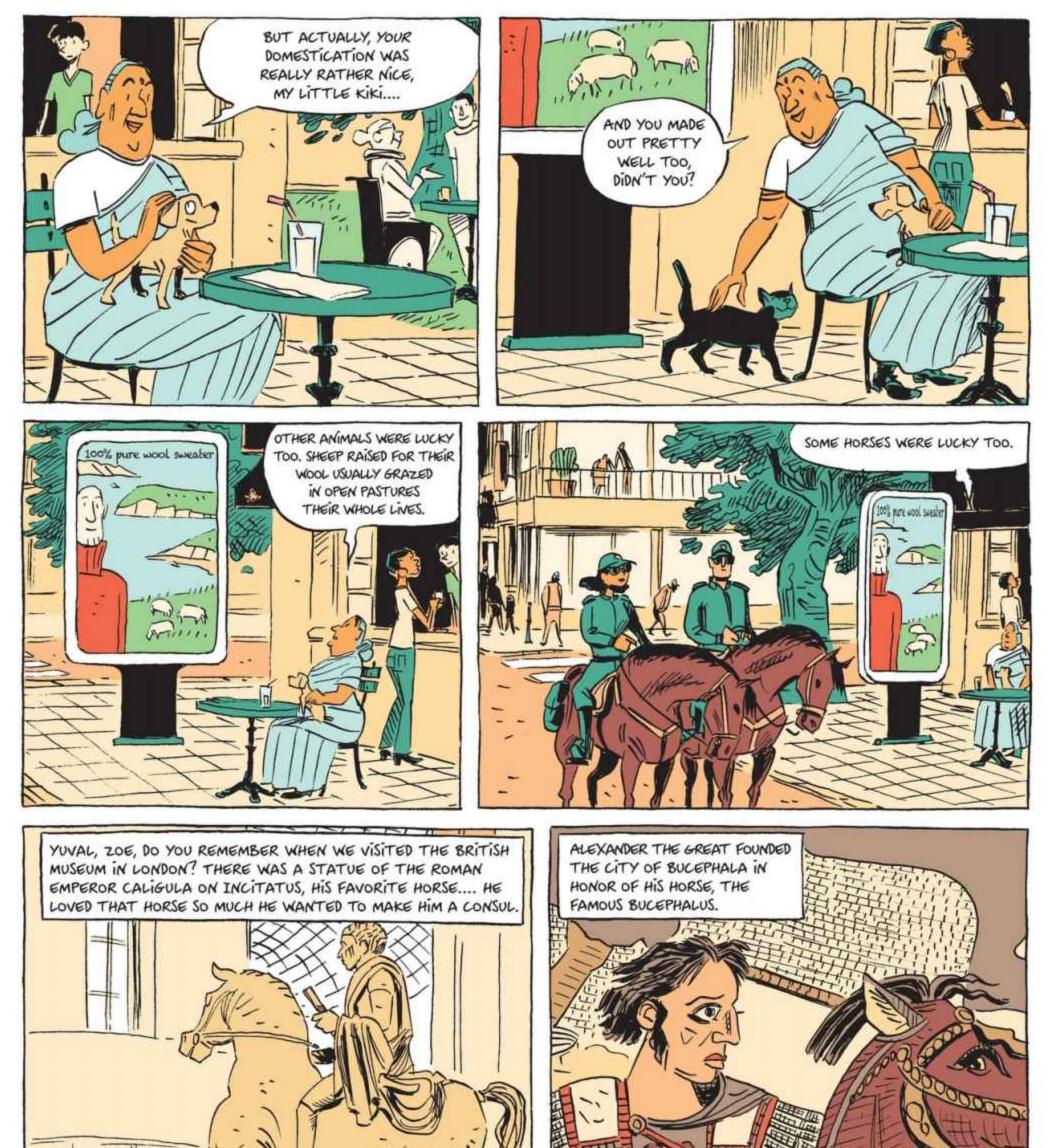
NEANDERTHALS AND ANCIENT SAPIENS DIDN'T DRINK OTHER ANIMALS' MILK EITHER. HUMAN BABIES WERE REARED ON THEIR MOTHER'S MILK, BUT ONCE THEY WERE WEANED, THEY NEVER DRANK MILK AGAIN.

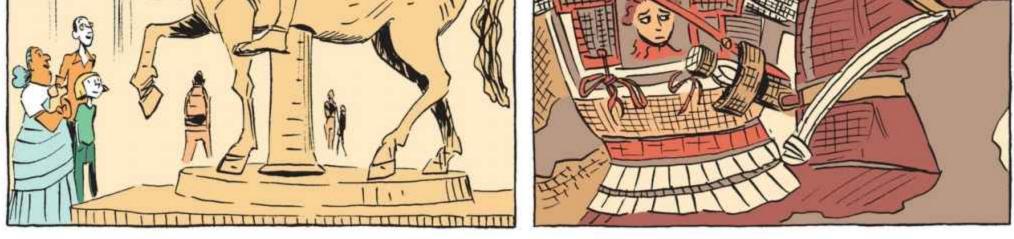
IF YOU SUGGESTED TO OUR FORAGER ANCESTORS THAT THEY SHOULD MILK A WILD COW AND DRINK HER MILK, THEY'D THINK IT WAS THE MOST OUTLANDISH, DISGUSTING IDEA THEY'D EVER HEARD.

OUR DIGESTIVE SYSTEM HASN'T REALLY HAD TIME TO ADAPT. THAT'S WHY SO MANY PEOPLE STILL HAVE ALL SORTS OF HEALTH PROBLEMS WHEN THEY DRINK MILK.

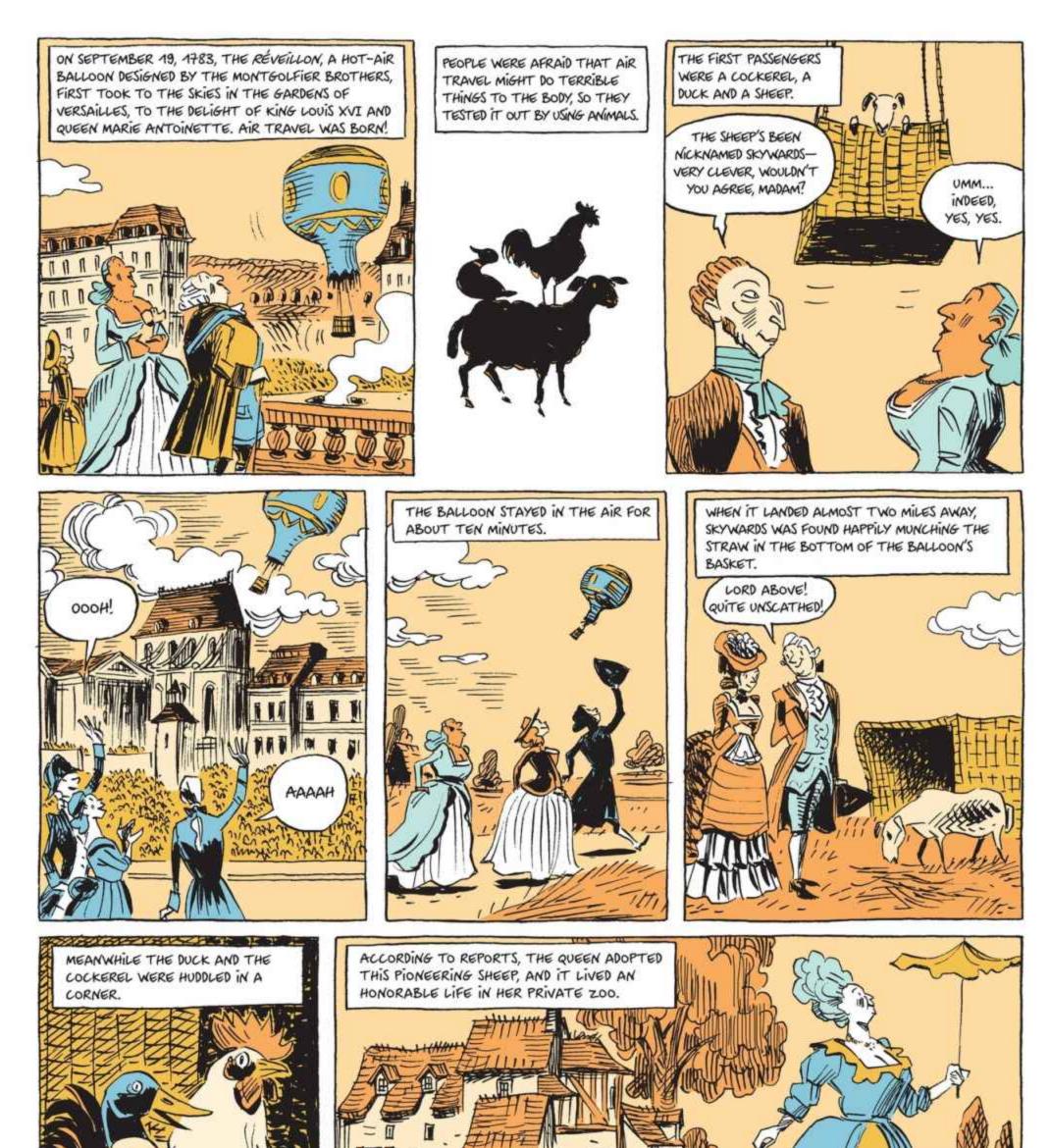


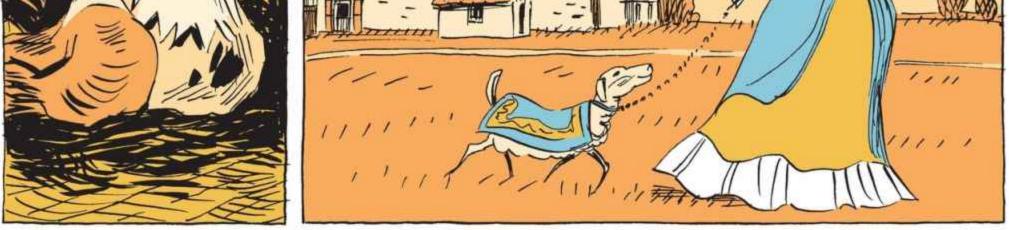
THIS WHOLE QUESTION OF ANIMAL DOMESTICATION MAKES ME VERY UNCOMFORTABLE....

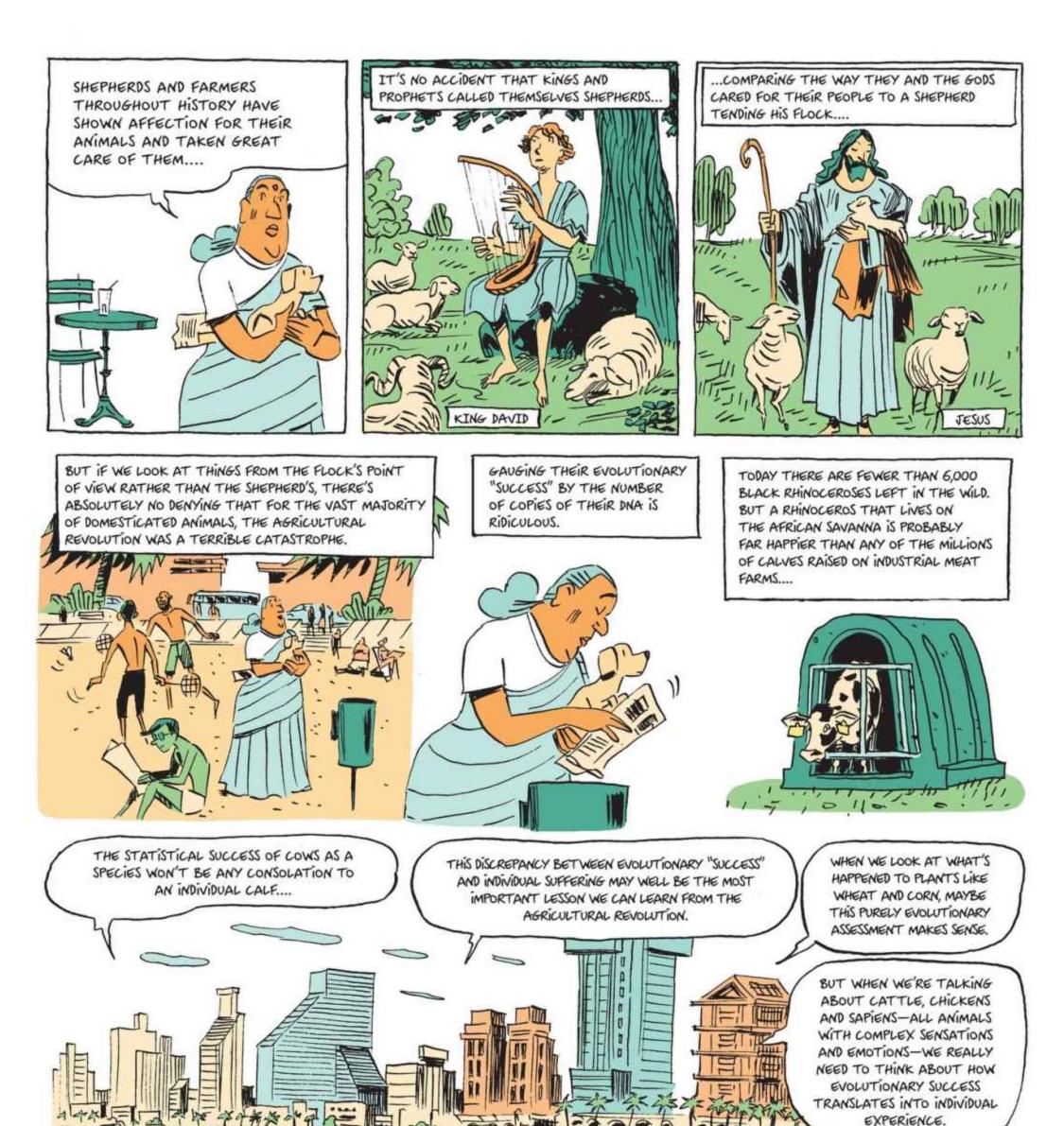






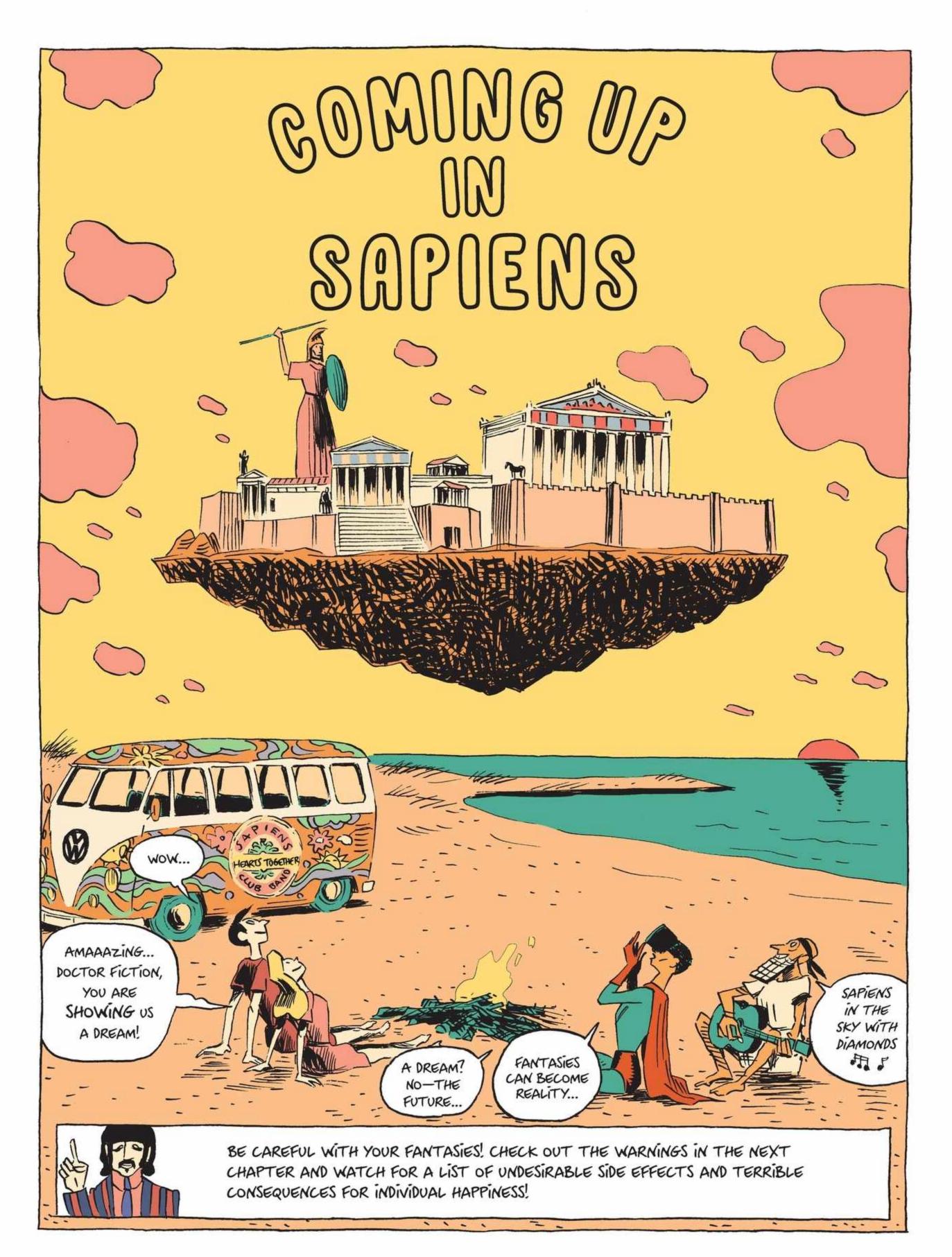




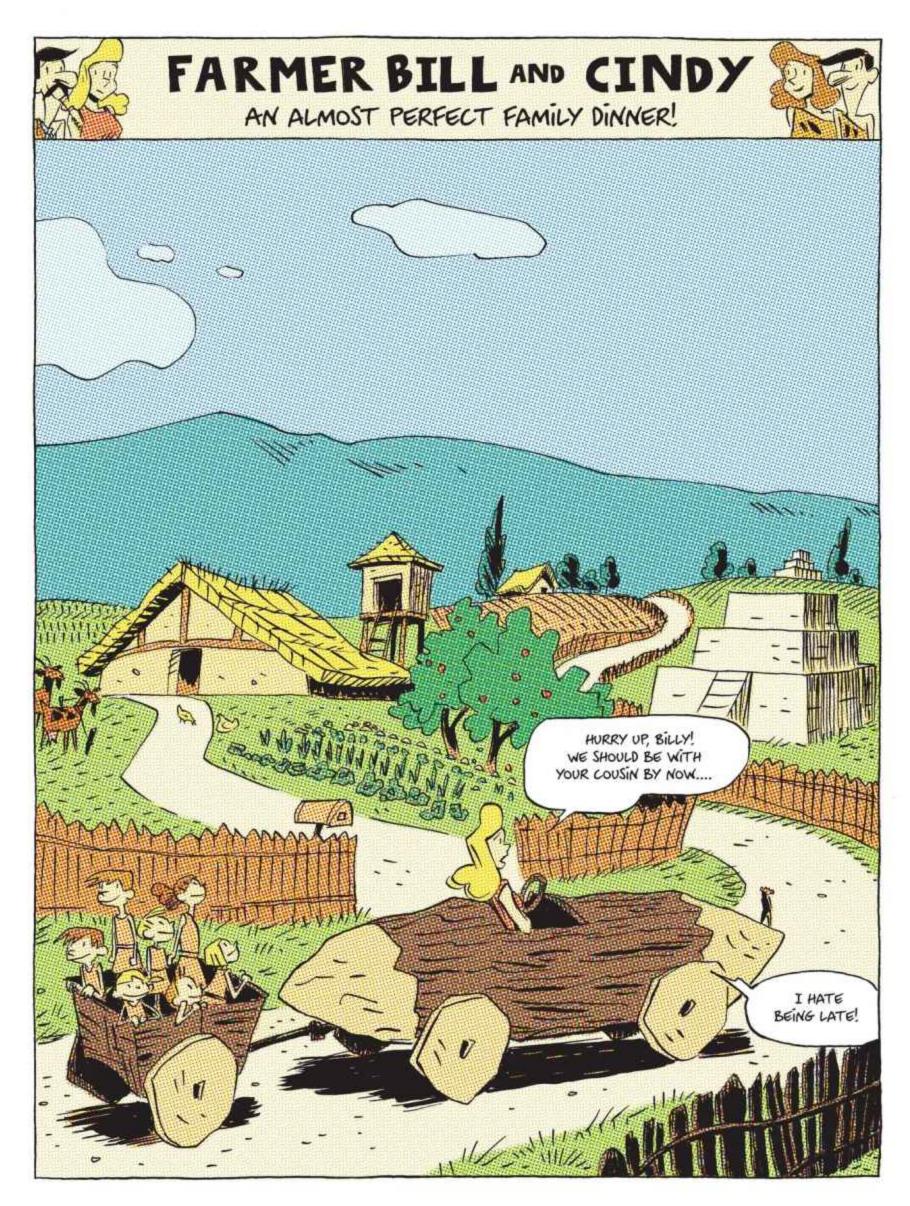


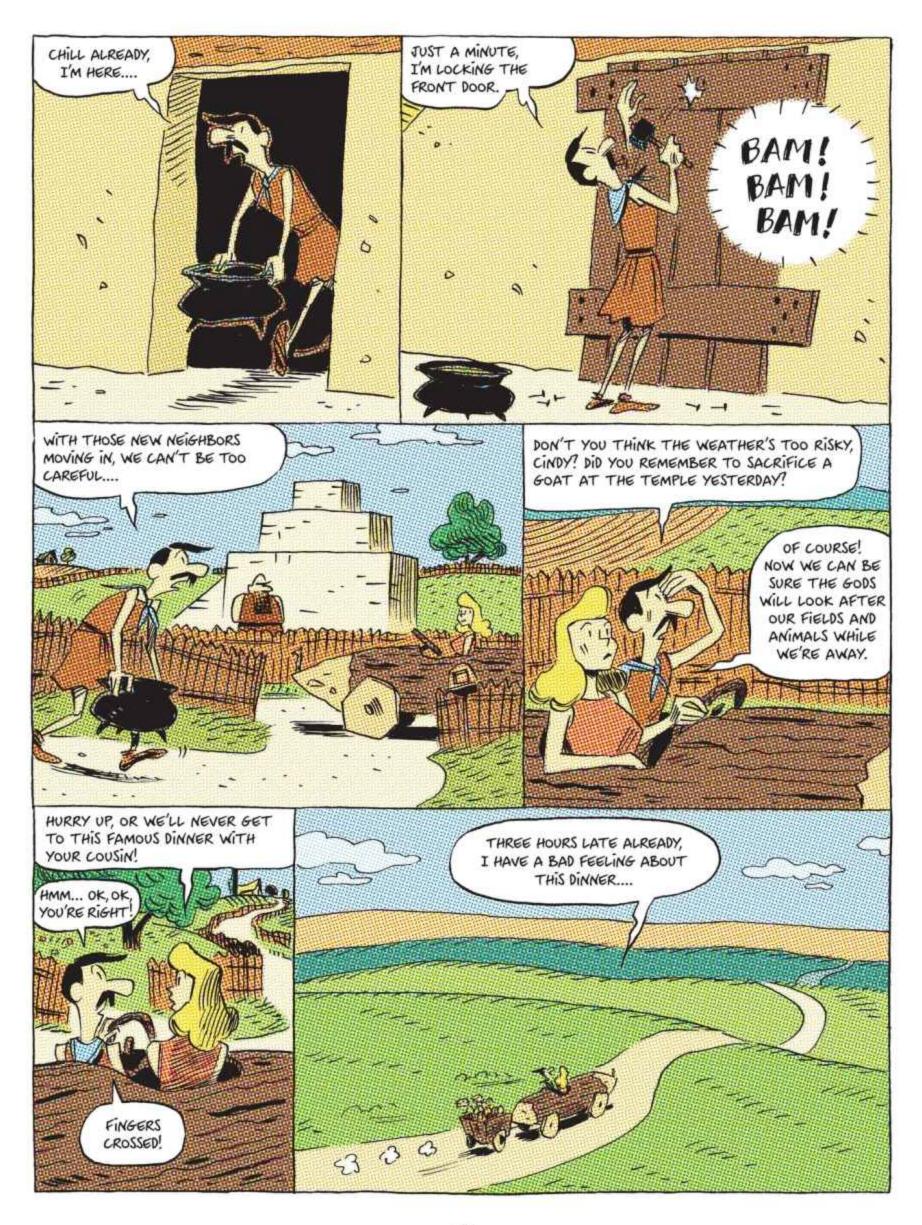


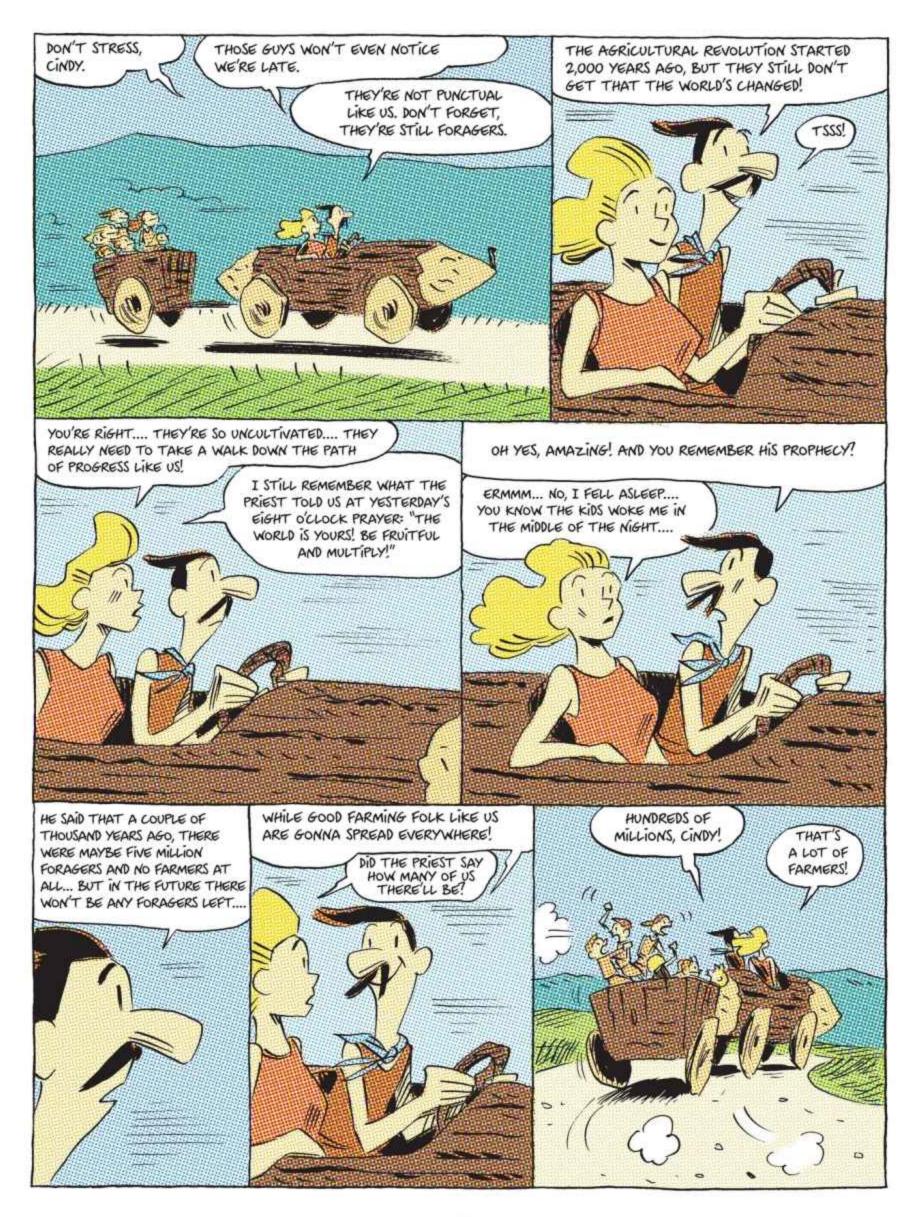


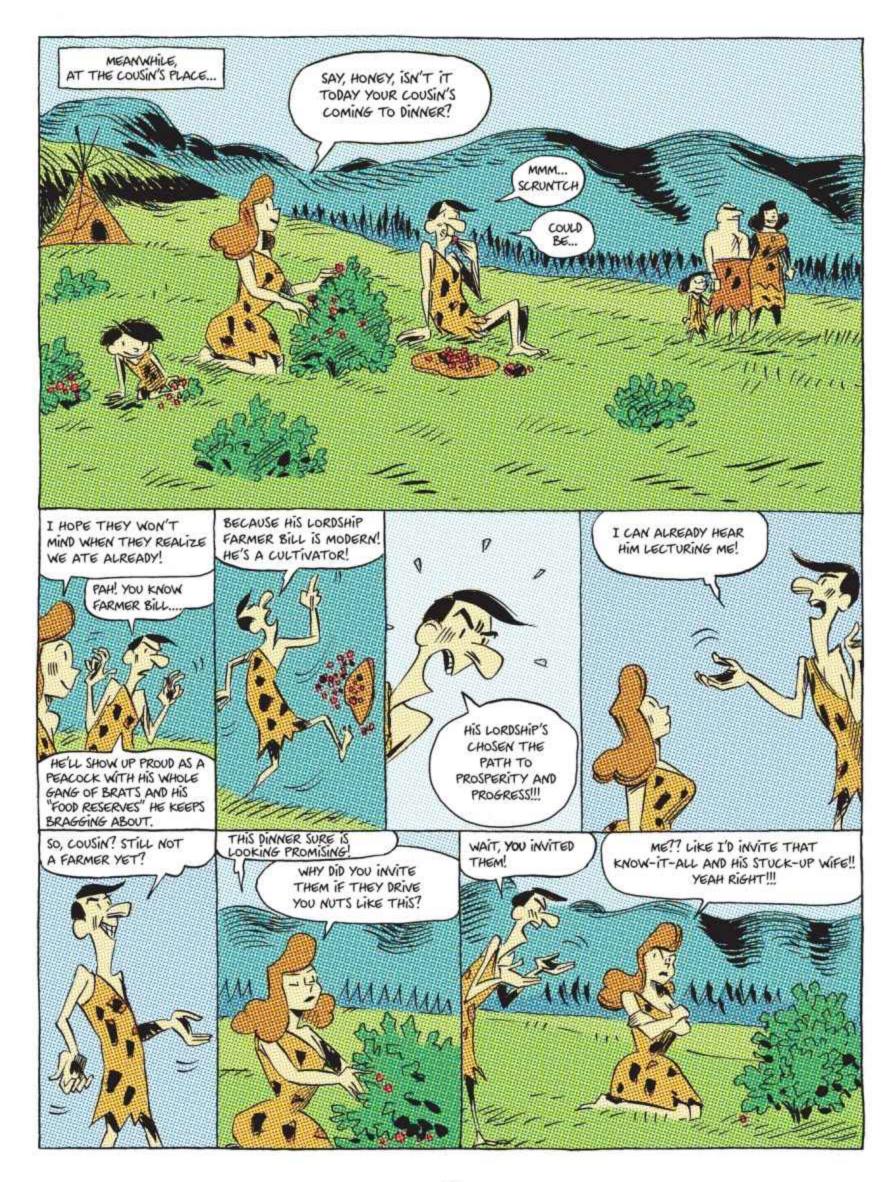


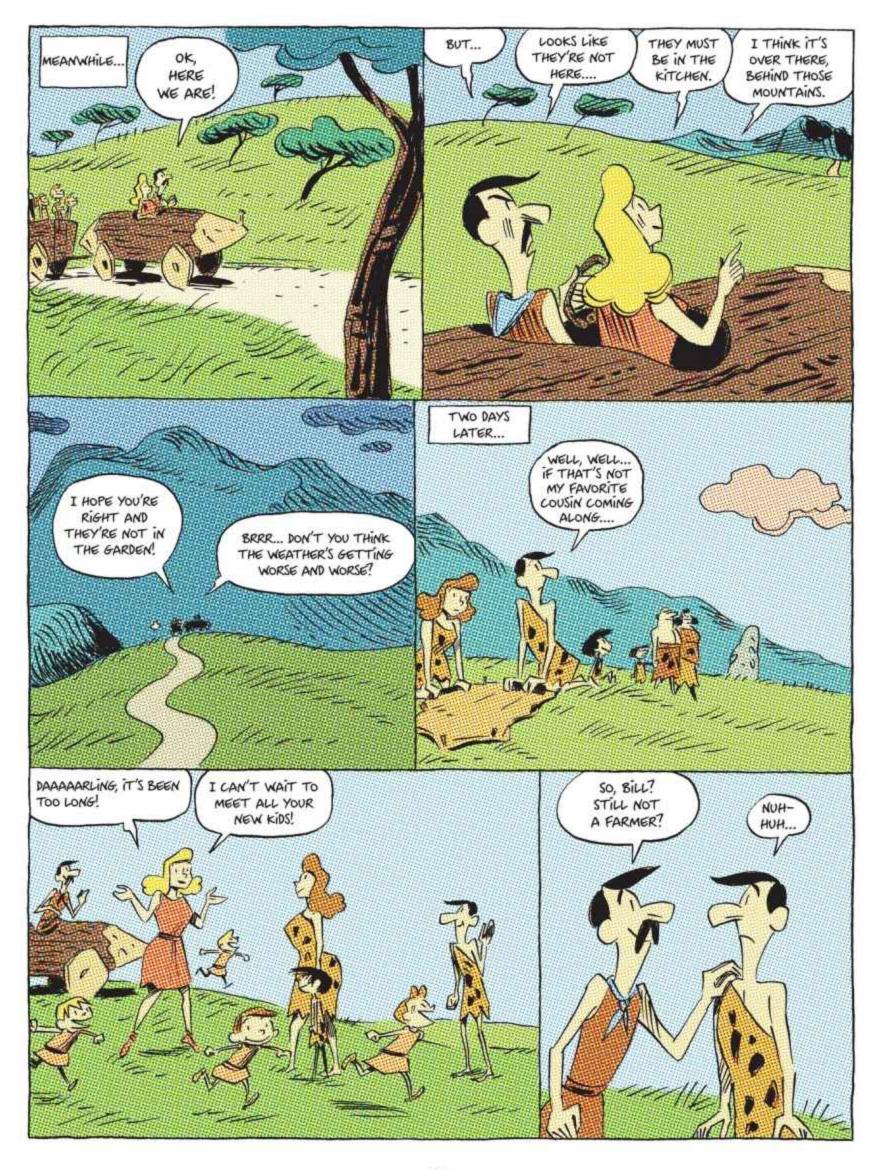
### of myths and men

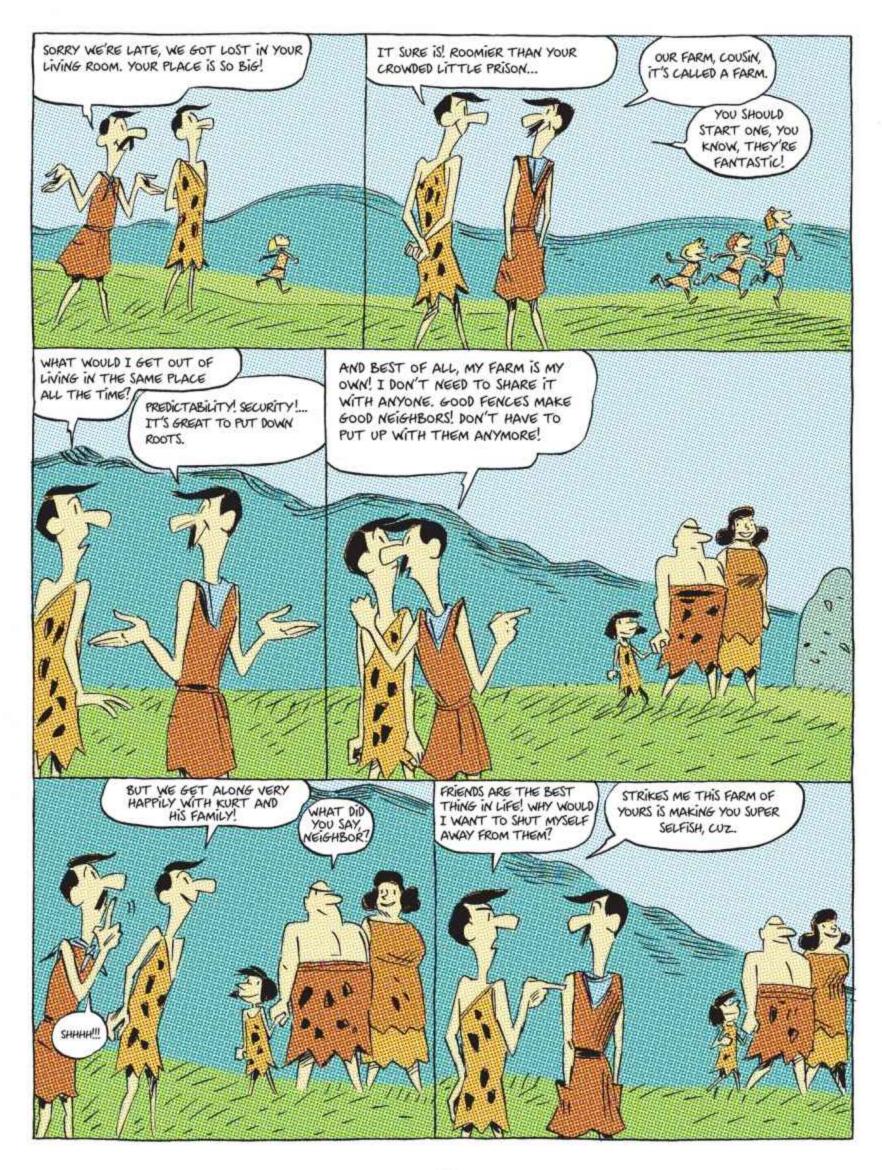


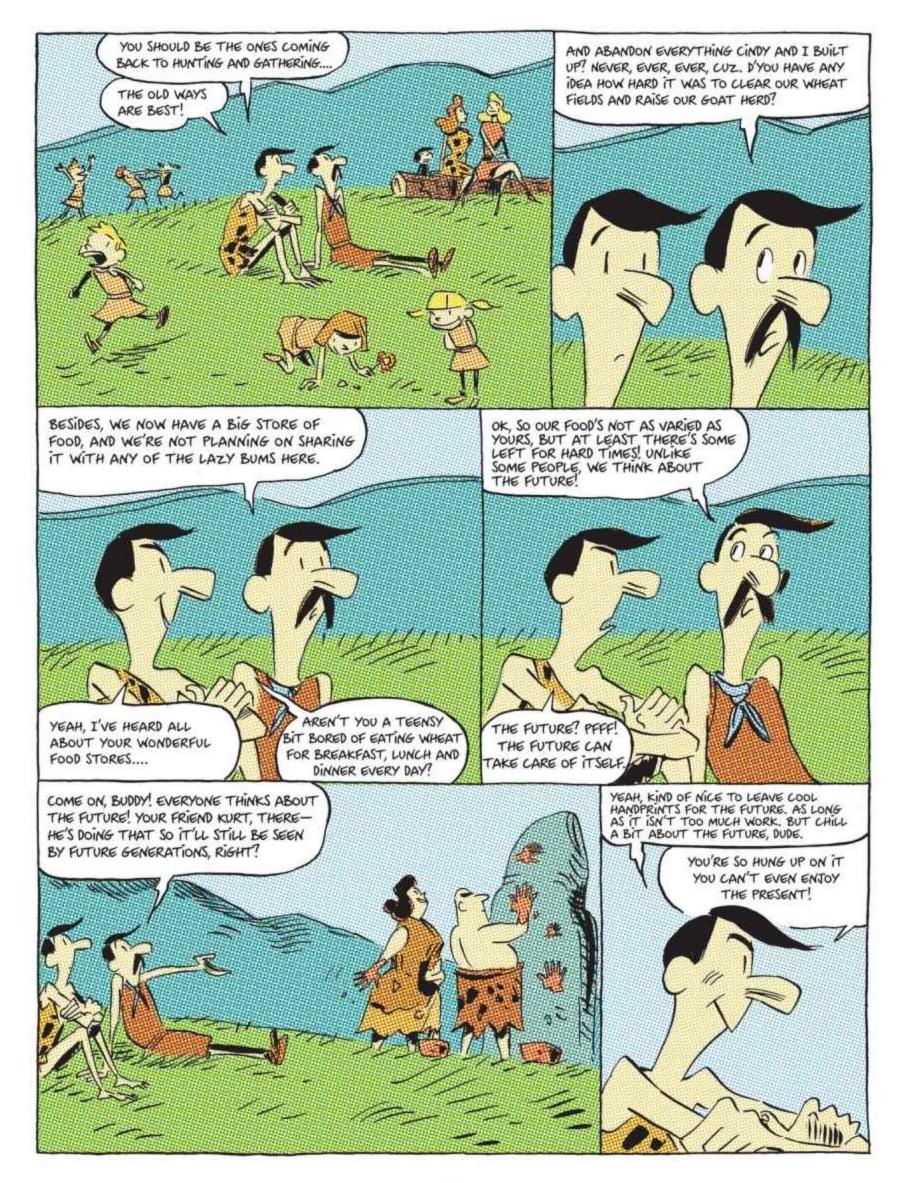


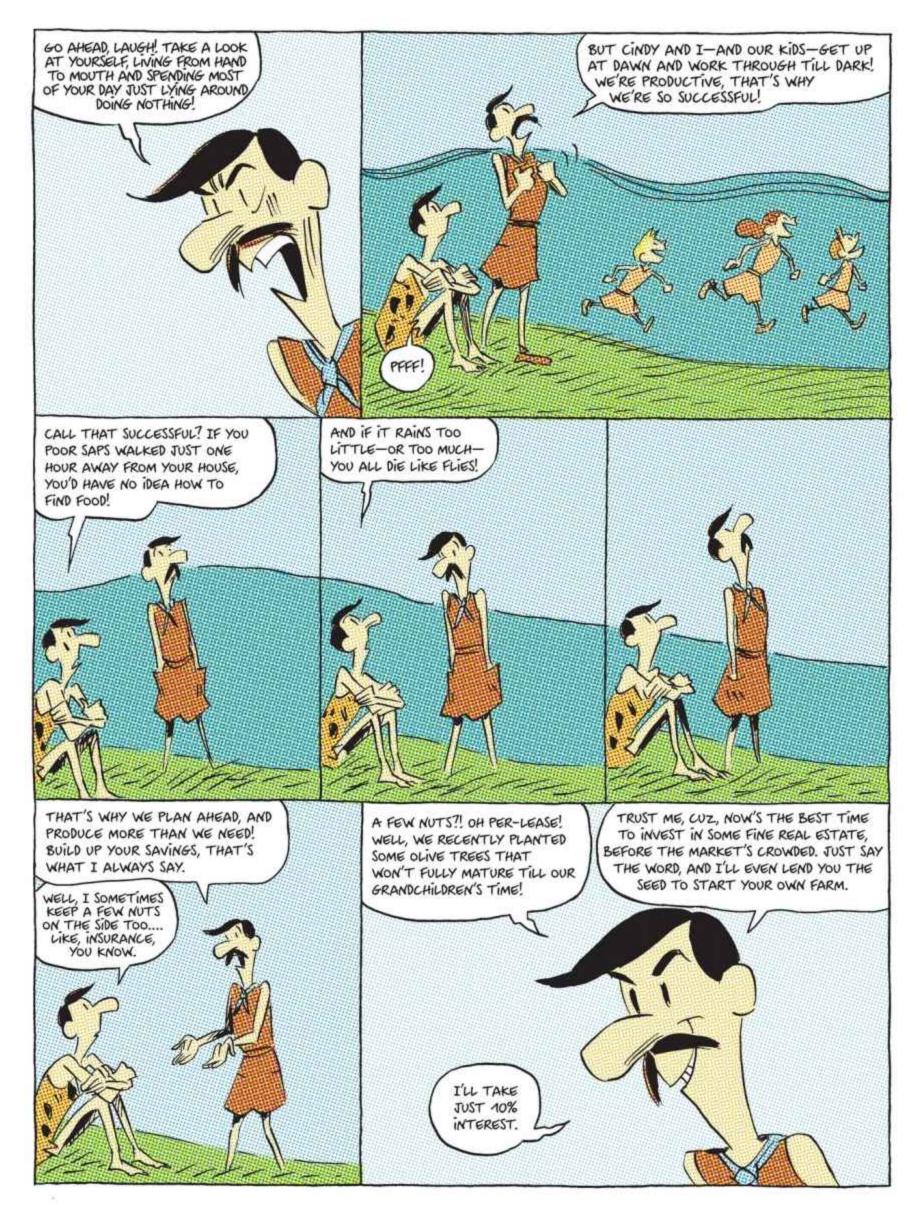


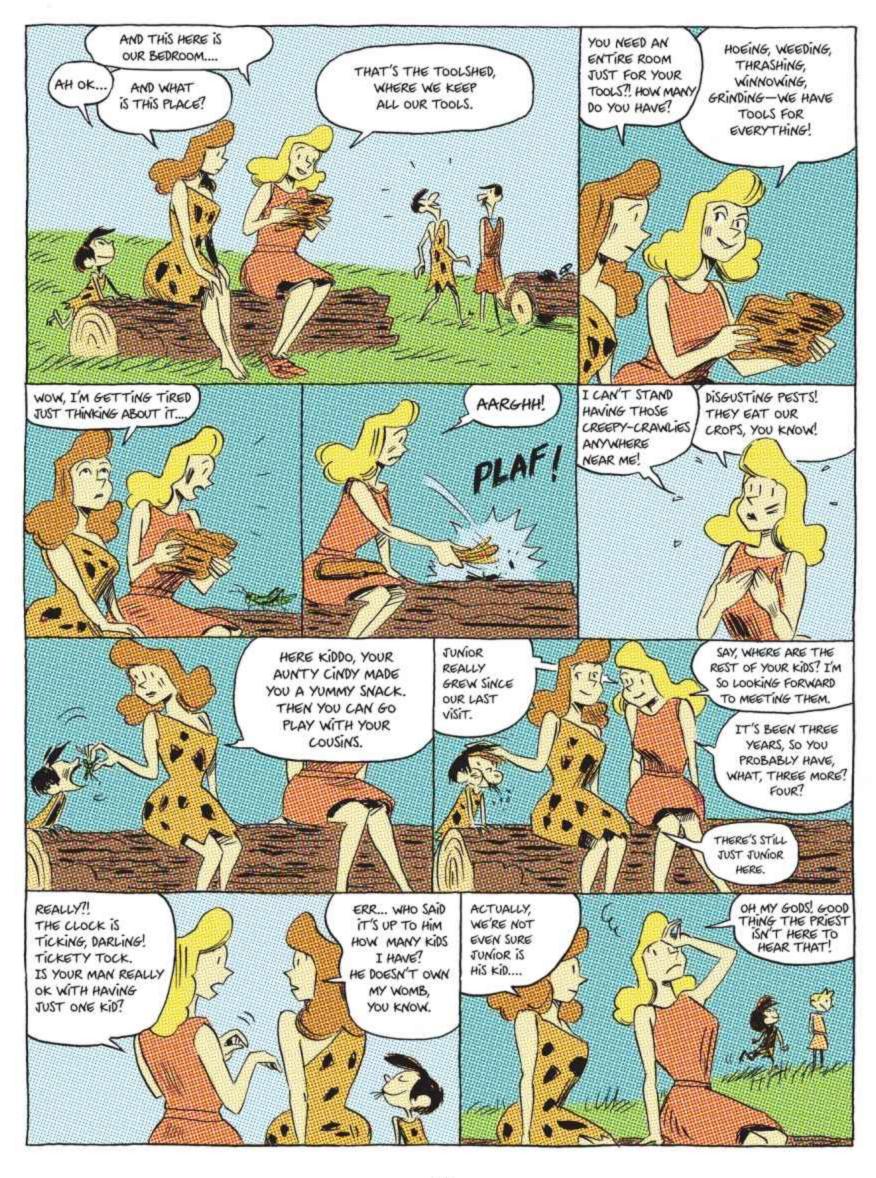


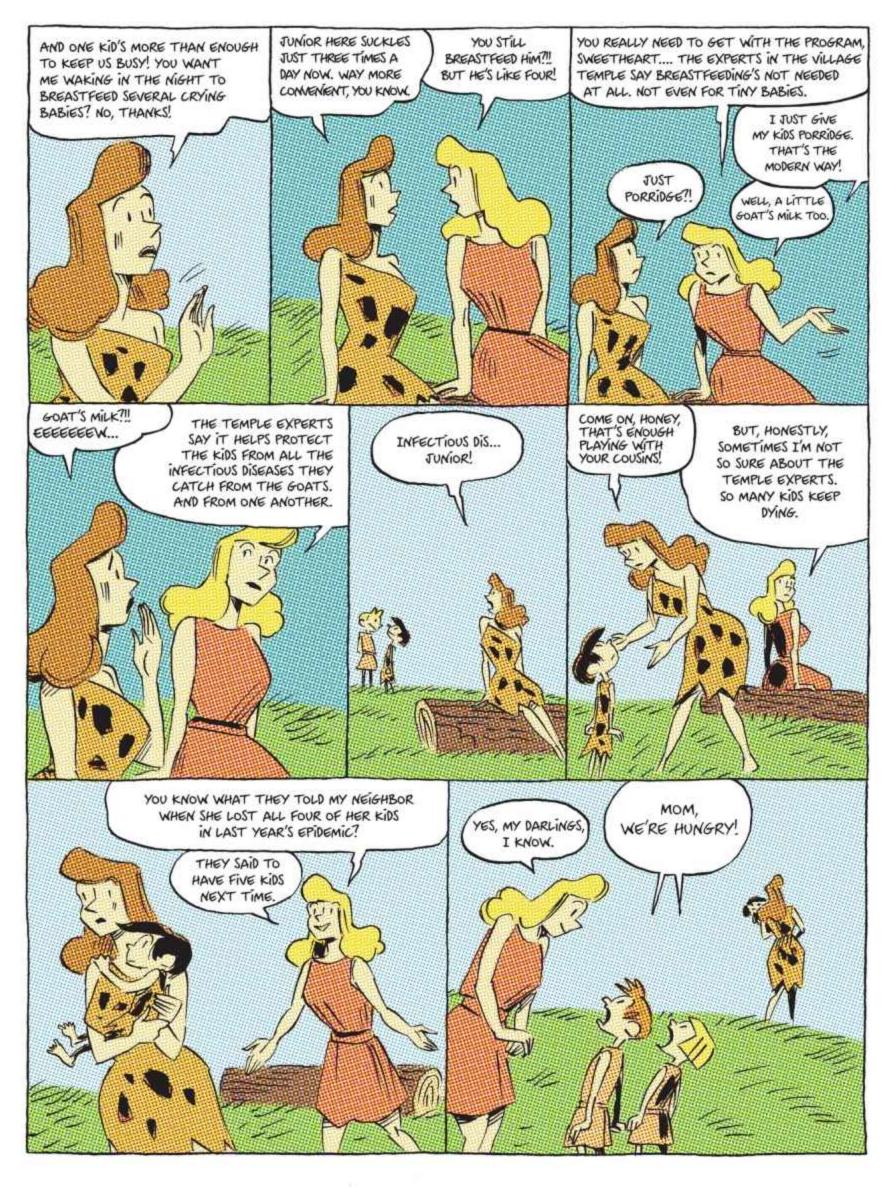


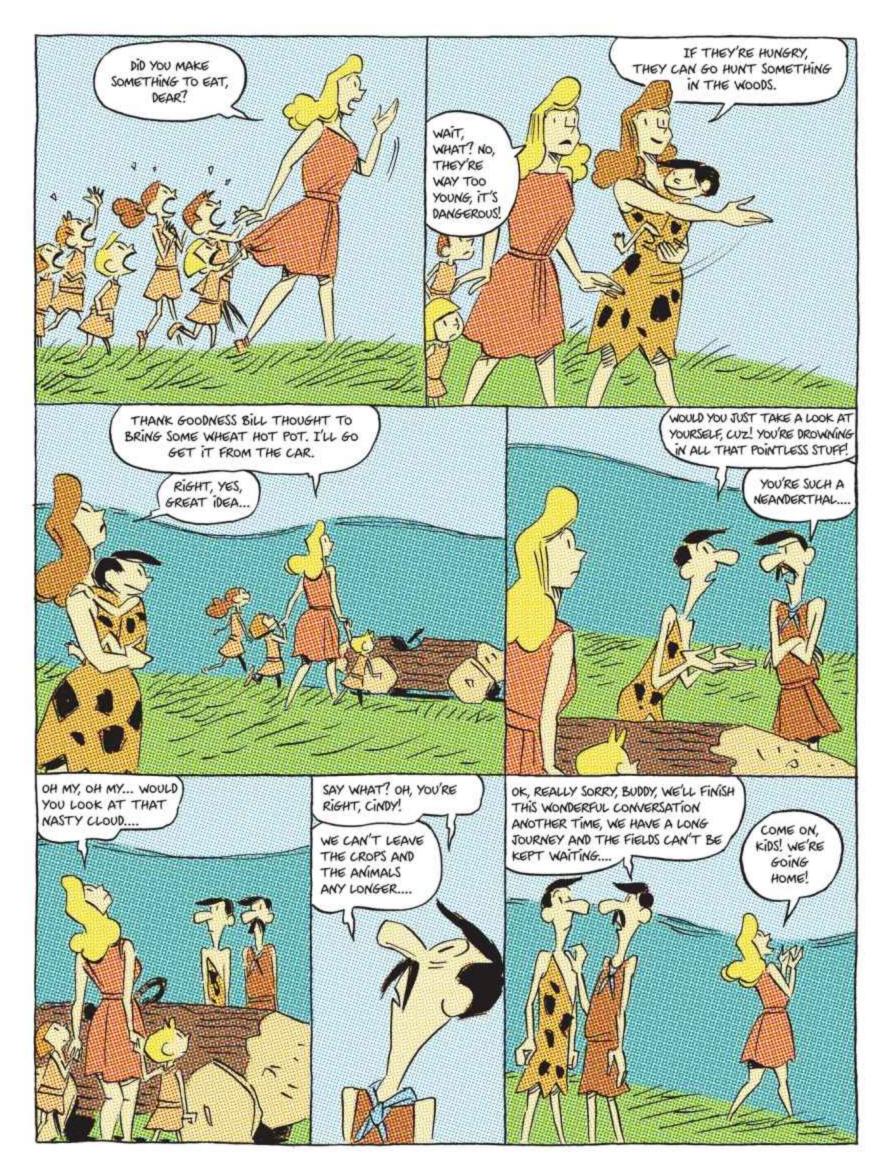


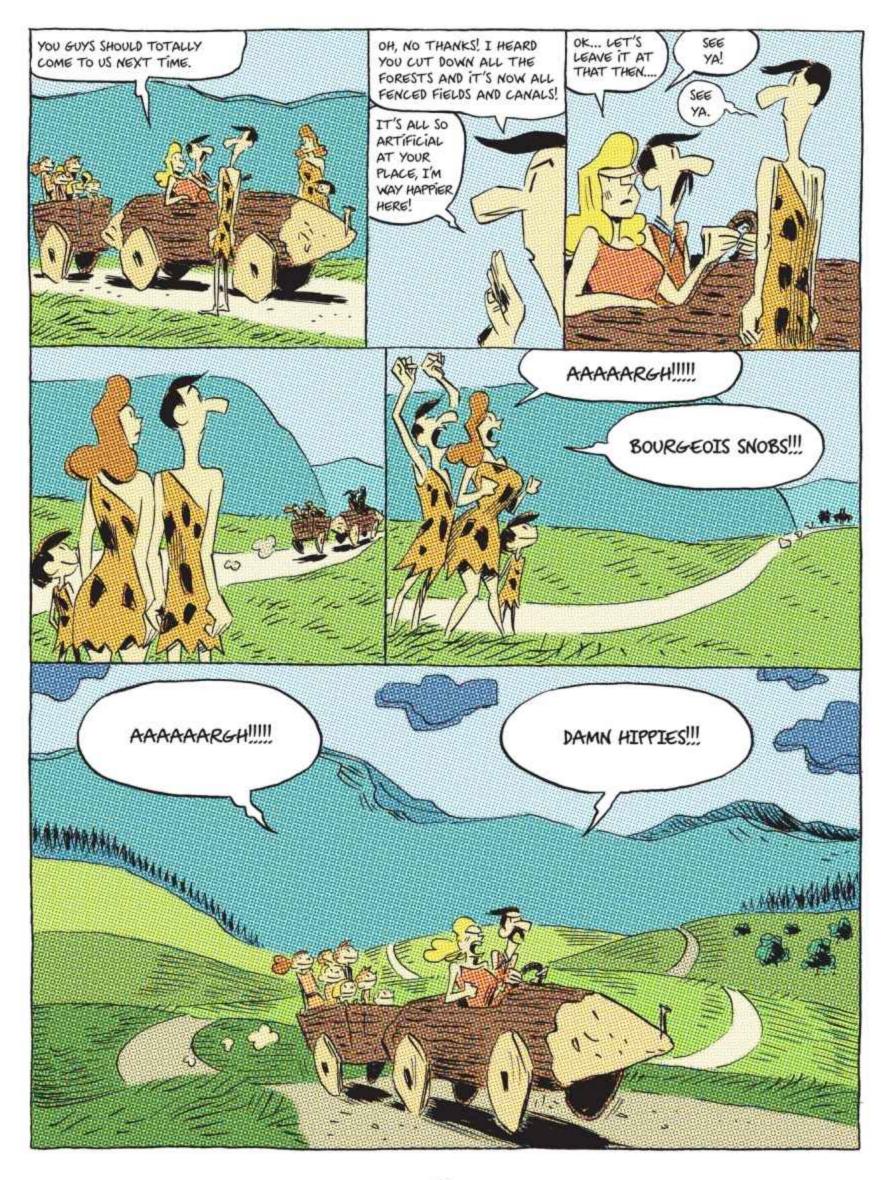


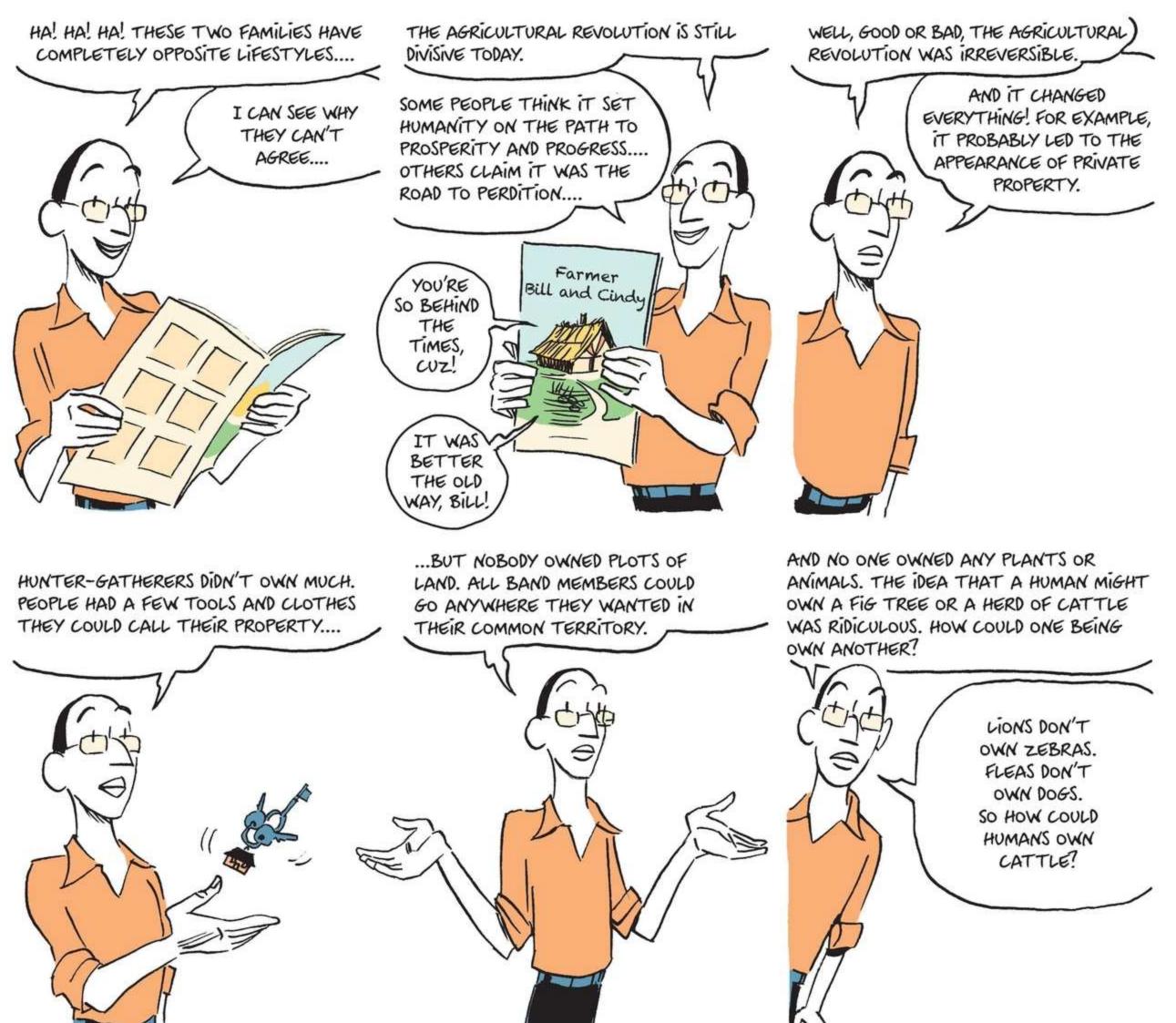










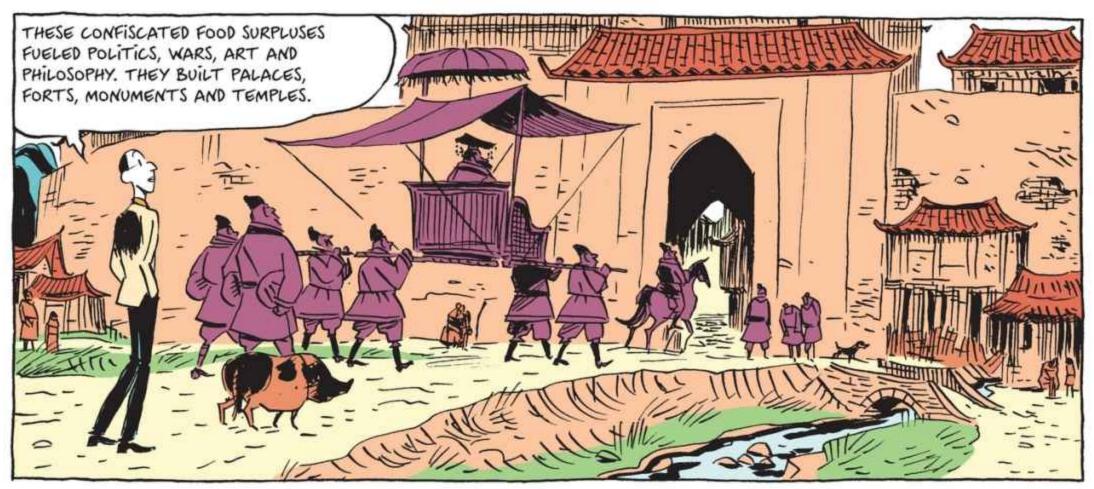


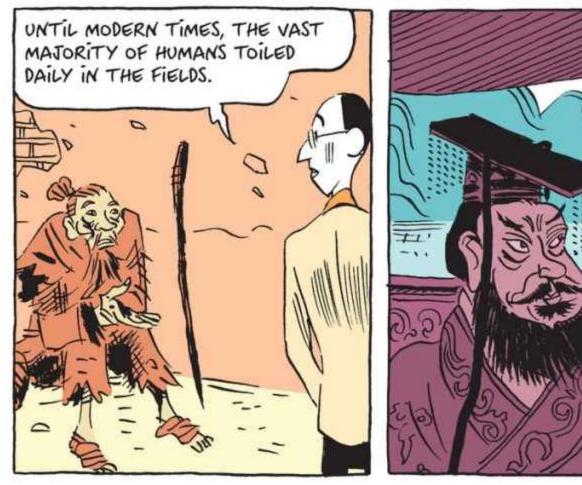






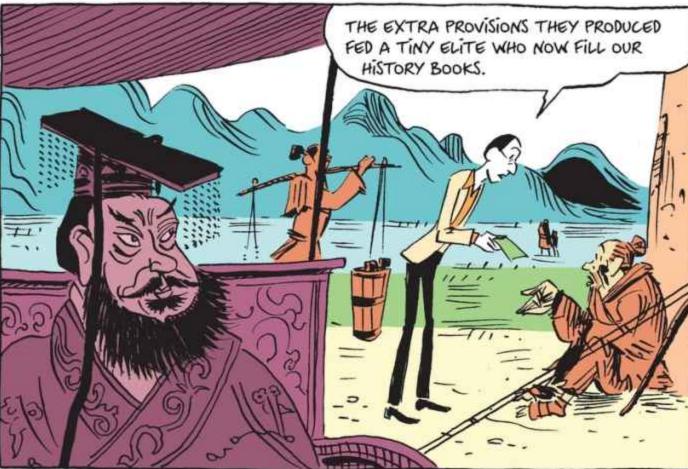


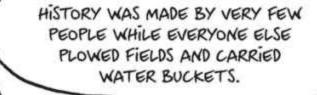


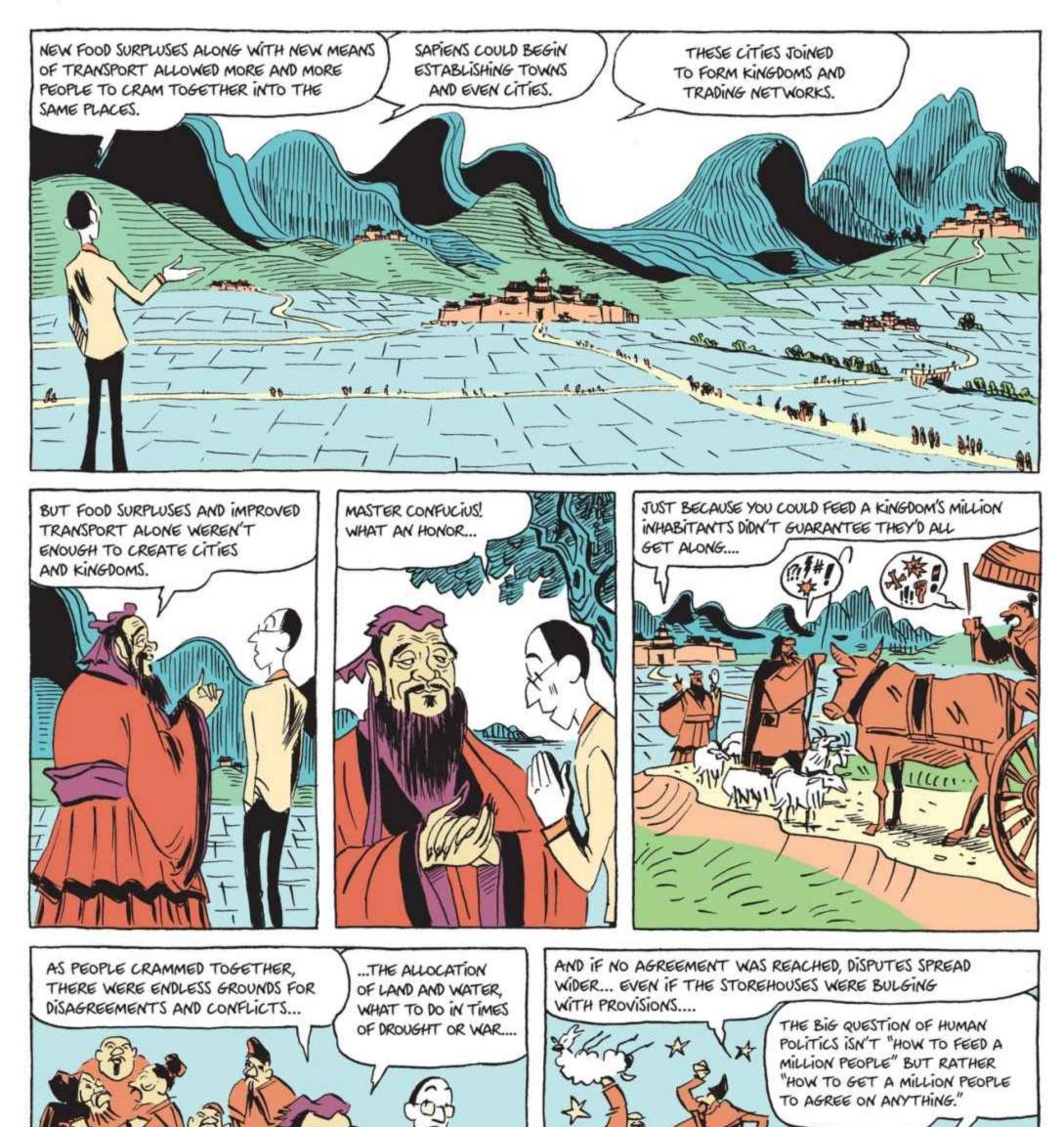


KINGS, GOVERNMENT OFFICIALS, SOLDIERS, PRIESTS, ARTISTS, THINKERS... NONE OF THEM HAD TO WORK THE LAND BECAUSE OTHERS DID IT FOR THEM.



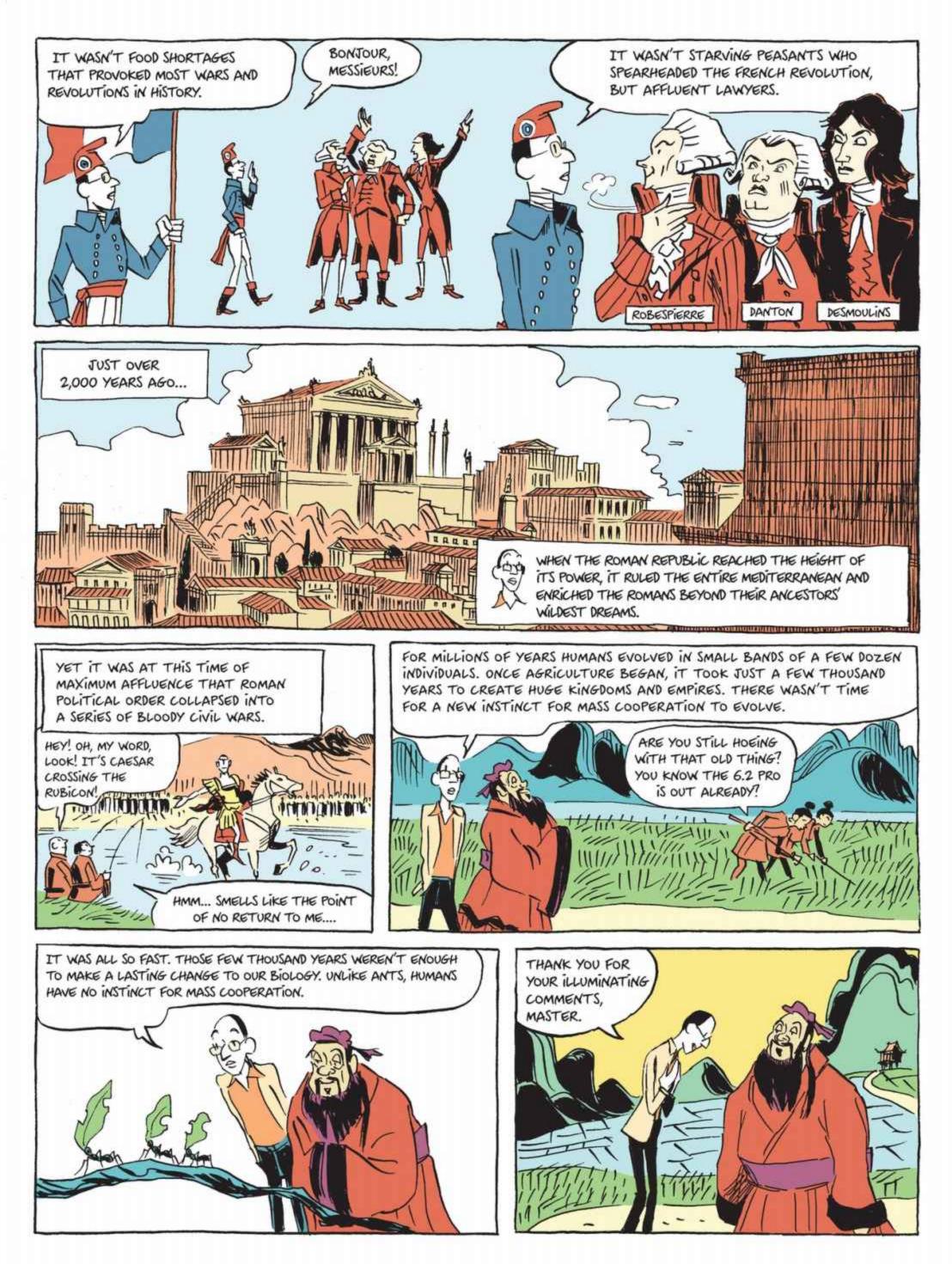


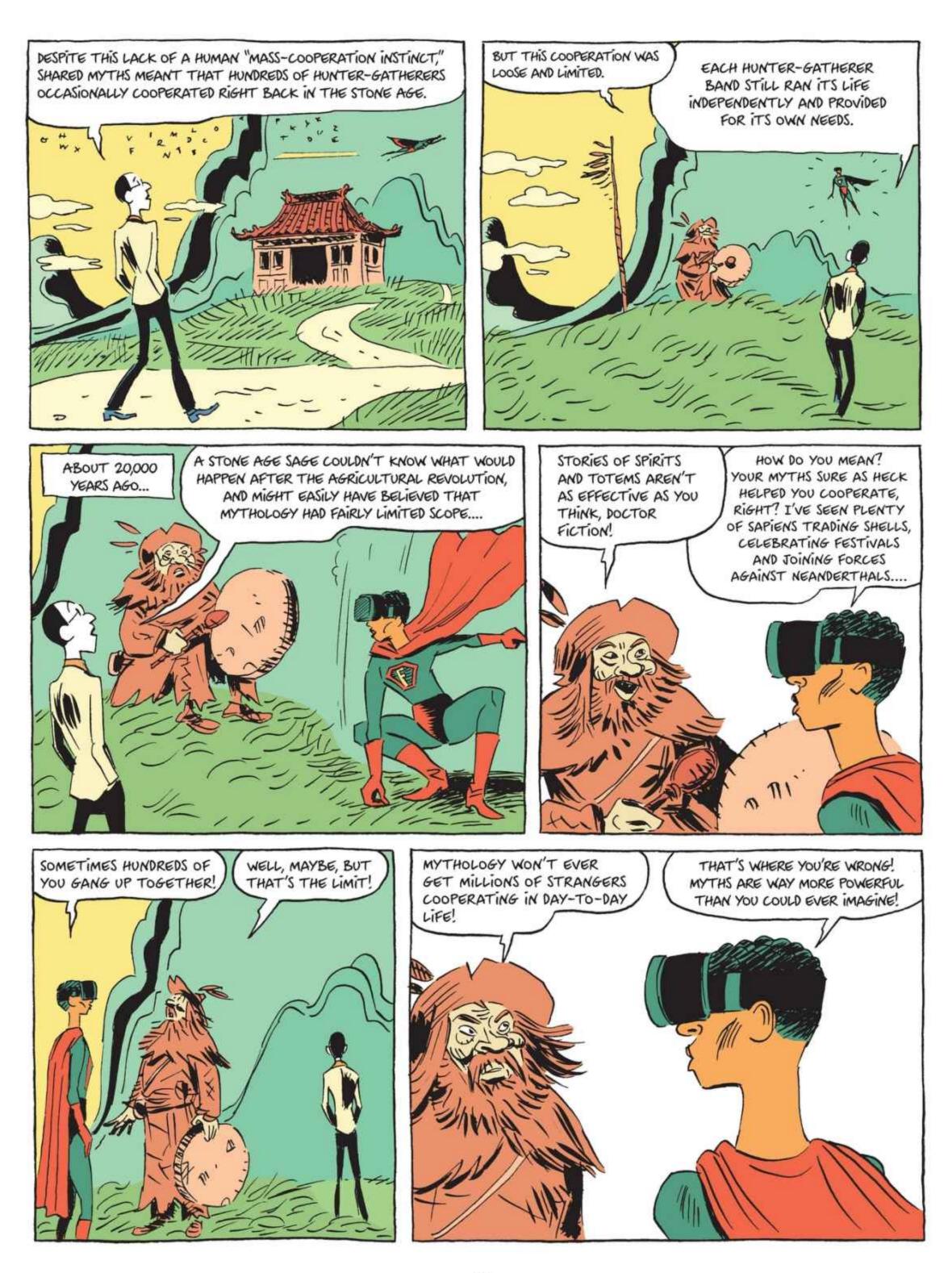
















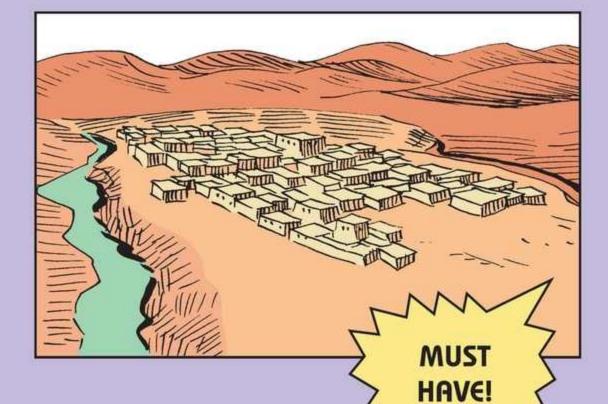




### 9 jerigho oasis

- 10,000 years ago
- 1,000 inhabitants
- 1 small temple
- Help bring in the first sheaves of the harvest!
- Experience the local goat sacrifice ceremony!



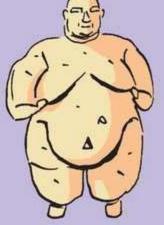


### **96979LHÖYÜK 70MM** The Anatolia of your dreams!

- 9,000 years ago
- 5,000 inhabitants
- 63 shrines

LIVE FOREVER

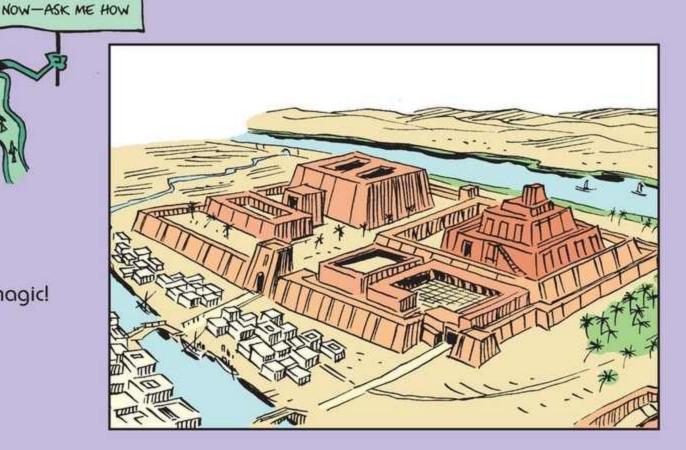
- Don't miss the spring bull festival!
- Improve your luck in life with a bull sacrifice!
- ▶ Worship the great female spirit!
- ▶ Rest easy in Neolithic luxury!



### 9 MESOPO?9M99 Where the fun never stops!

- 5,000 years ago
- Kingdoms of more than 100,000 inhabitants

Visit the Abzu temple of €nki, god of deep waters and magic!
Let Ishtar teach you all about love, sex... and war!
Try out the 12-step Gilgamesh Immortality Plan<sup>™</sup>!



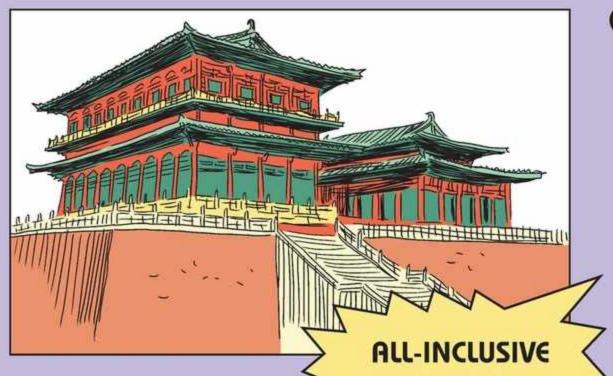
# **They'll blow your mind!** ...AND LAWYERS



- 4,500 years ago
- 1 million inhabitants...
- ...1 pharaoh to rule them all!
- Have the jackal-headed Anubis weigh your soul against a feather!
- Get your body mummified at the local spa!
- Lose yourself inside a pyramid!







## QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ

- 2,200 years ago
- 40 million subjects



- Mass parades featuring 100,000 soldiers!
- Dazzling rituals at the court of the Son of Heaven!
- Join the ranks of the famous Terracotta Army!
- ► Let all your defenses down! Resistance is futile!

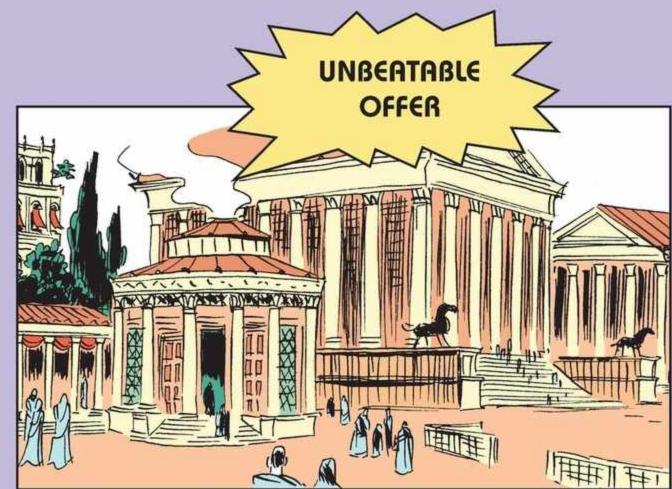


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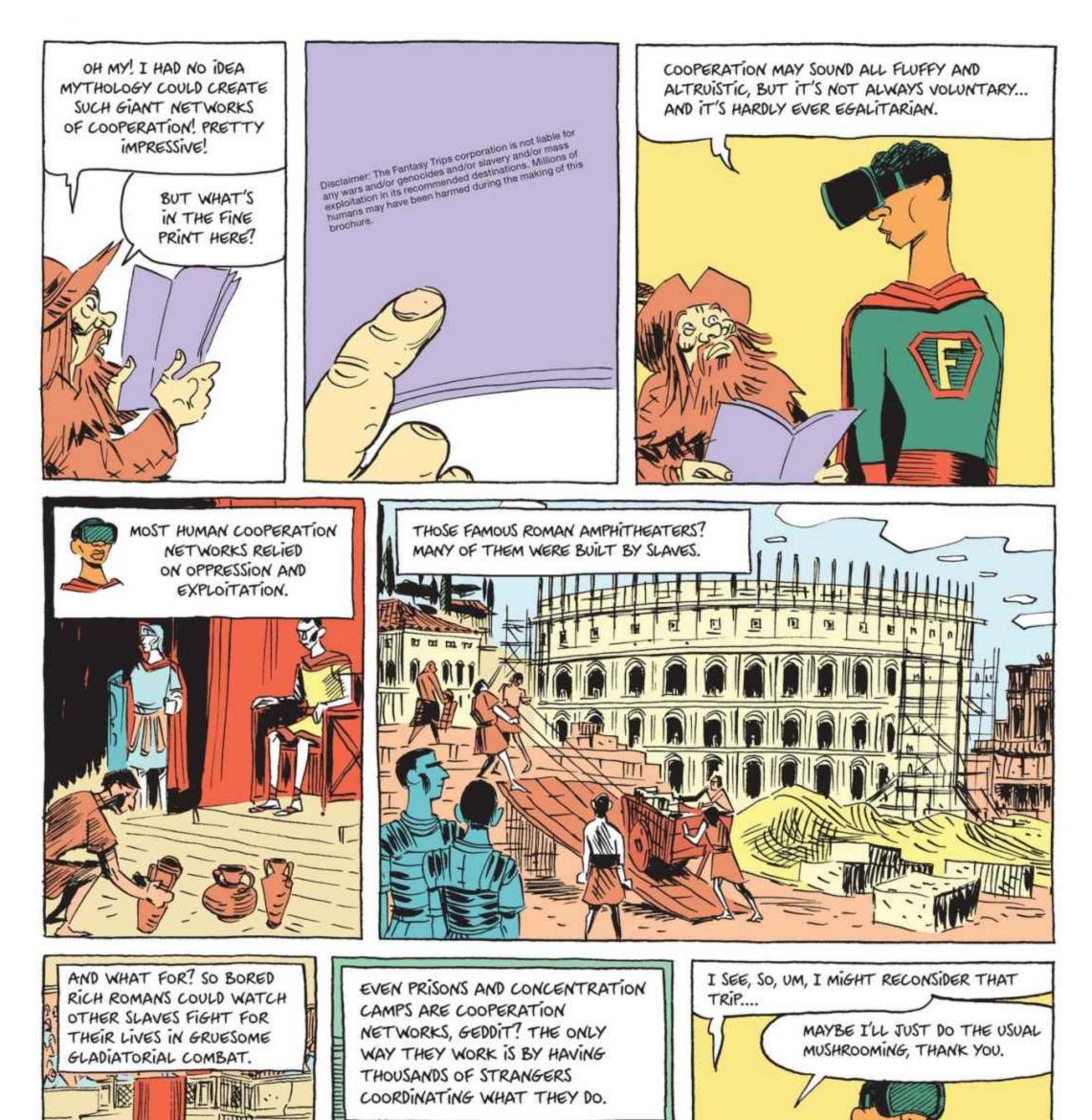
• 2,000 years ago

50 million subjects

- Visit the amphitheater to see unforgettable shows!
- ► Let yourself run wild in the Saturnalia!
- Take a trip to the underworld with our awardwinning guide, Virgil!
- Make a reservation before the Ides of March and win an exceptional tour of the Senate with a lecture series by Cicero!

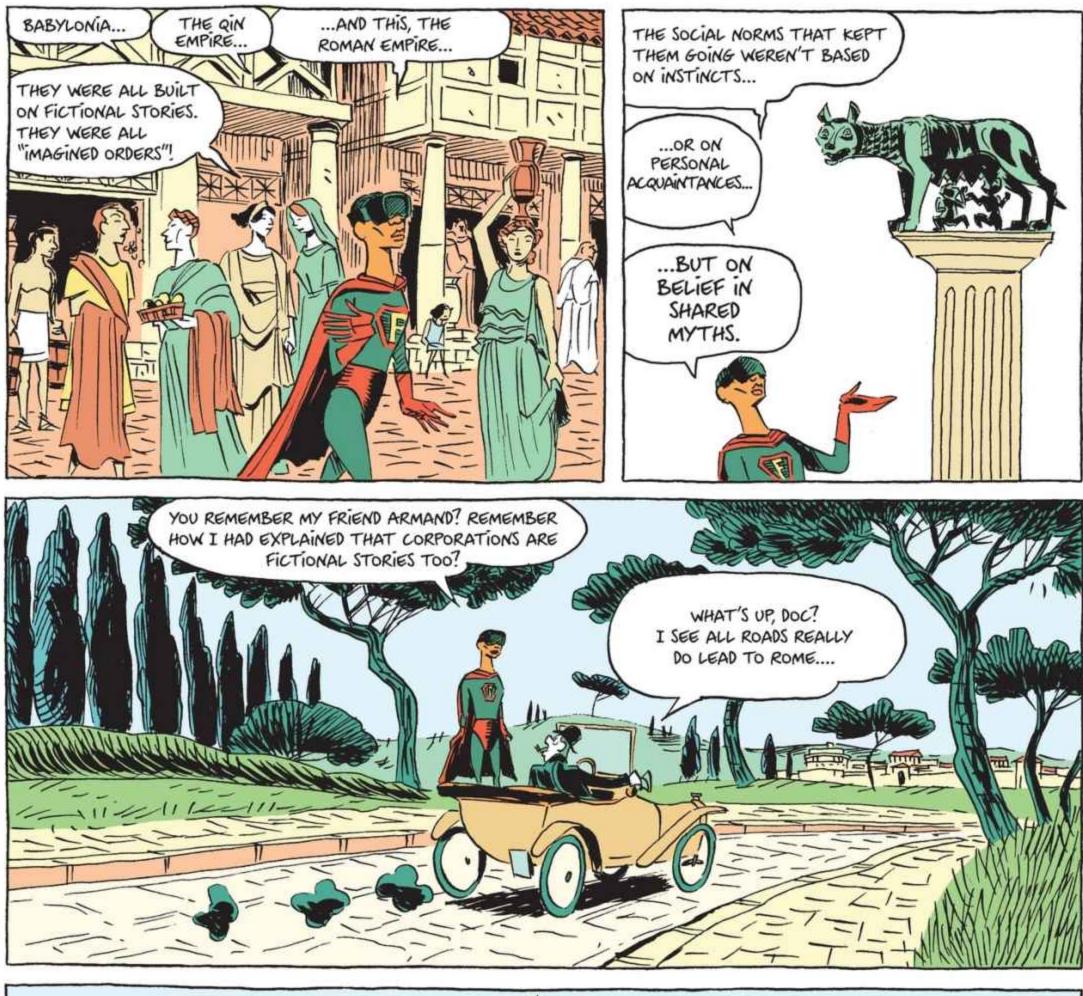


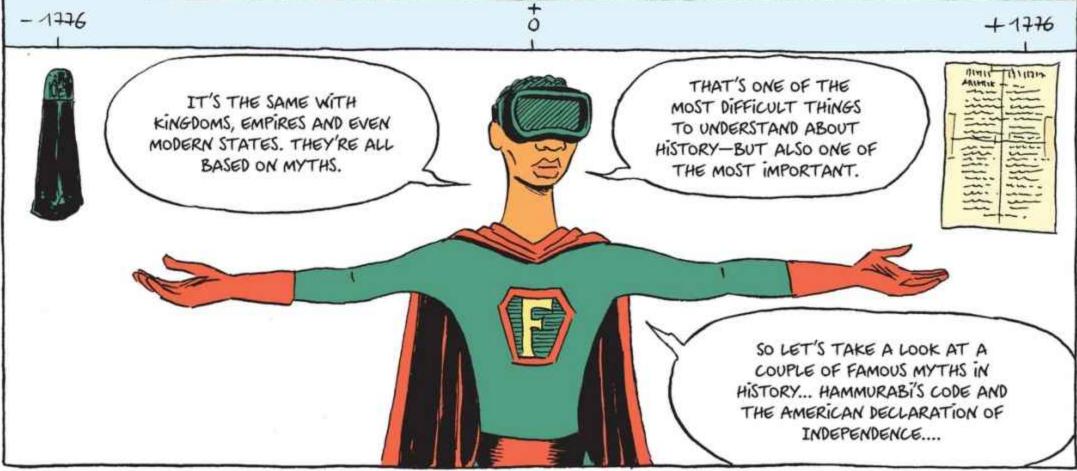
Disclaimer: The Fantasy Trips corporation is not liable for any wars and/or genocides and/or slavery and/or mass exploitation in its recommended destinations. Millions of humans may have been harmed during the making of this brochure.

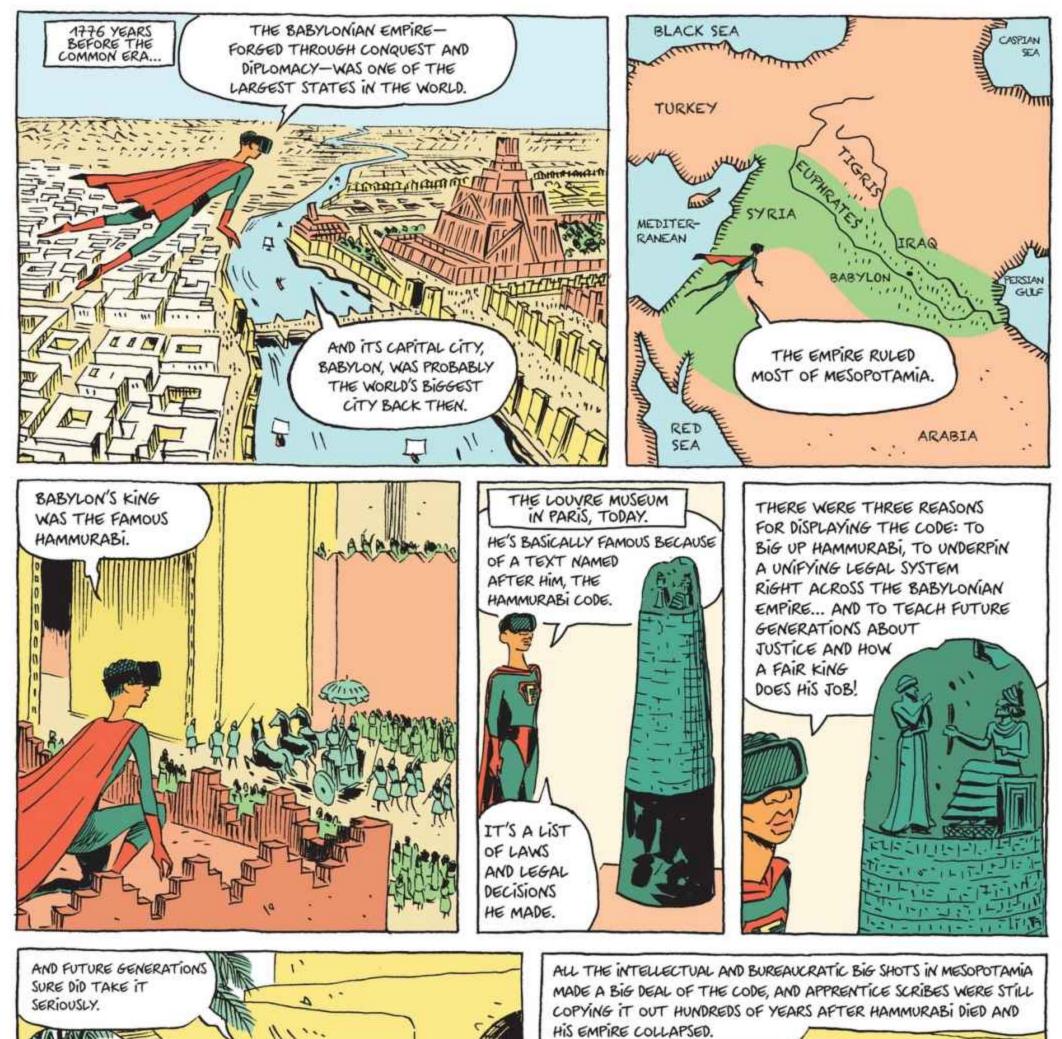


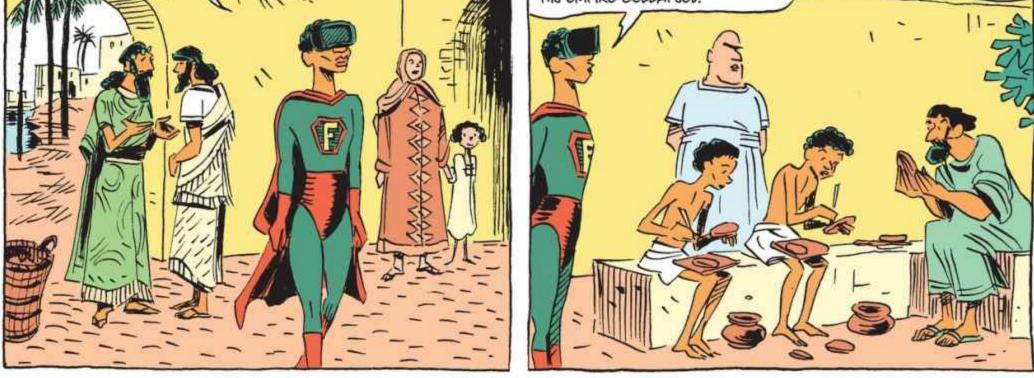










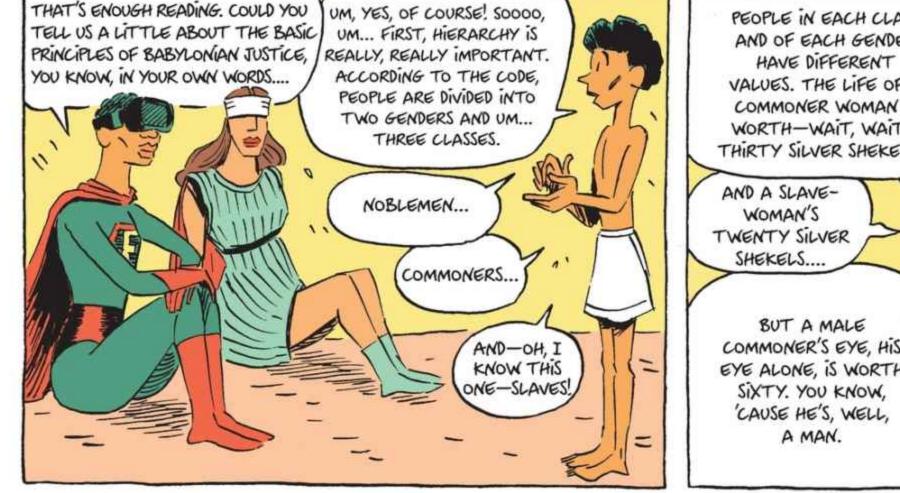




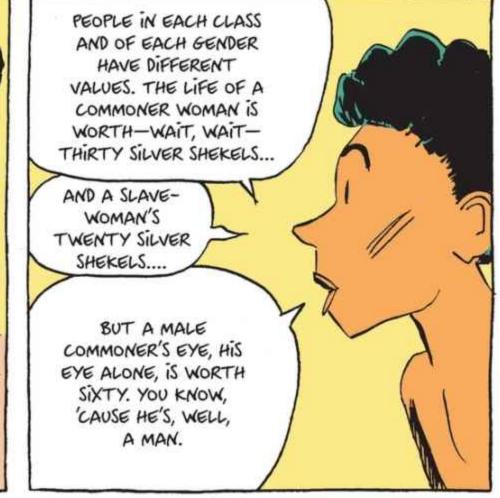




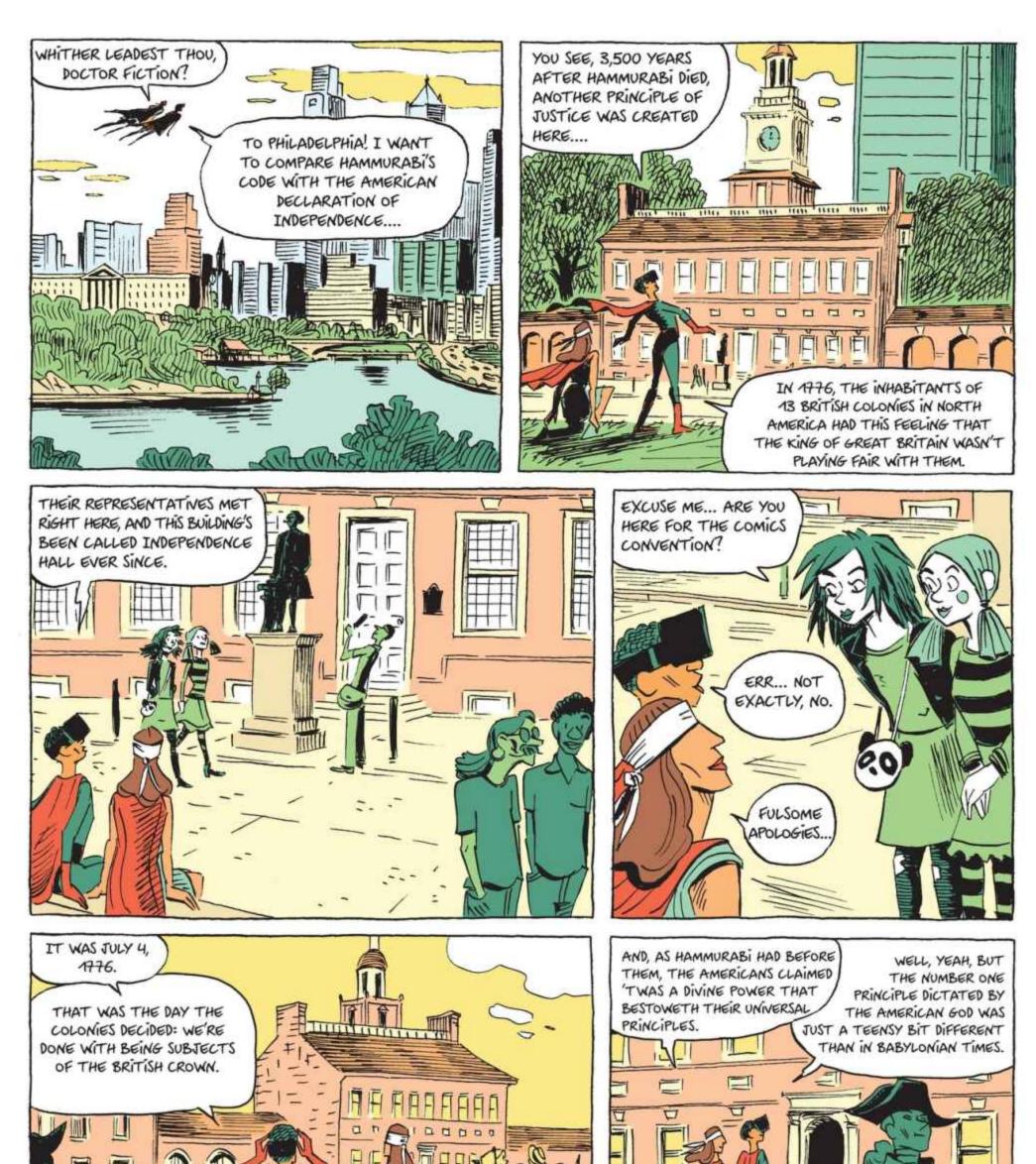
THAT'S ENOUGH READING. COULD YOU TELL US A LITTLE ABOUT THE BASIC PRINCIPLES OF BABYLONIAN JUSTICE, YOU KNOW IN YOUR OWN WORDS.



PEOPLE IN EACH CLASS AND OF EACH GENDER



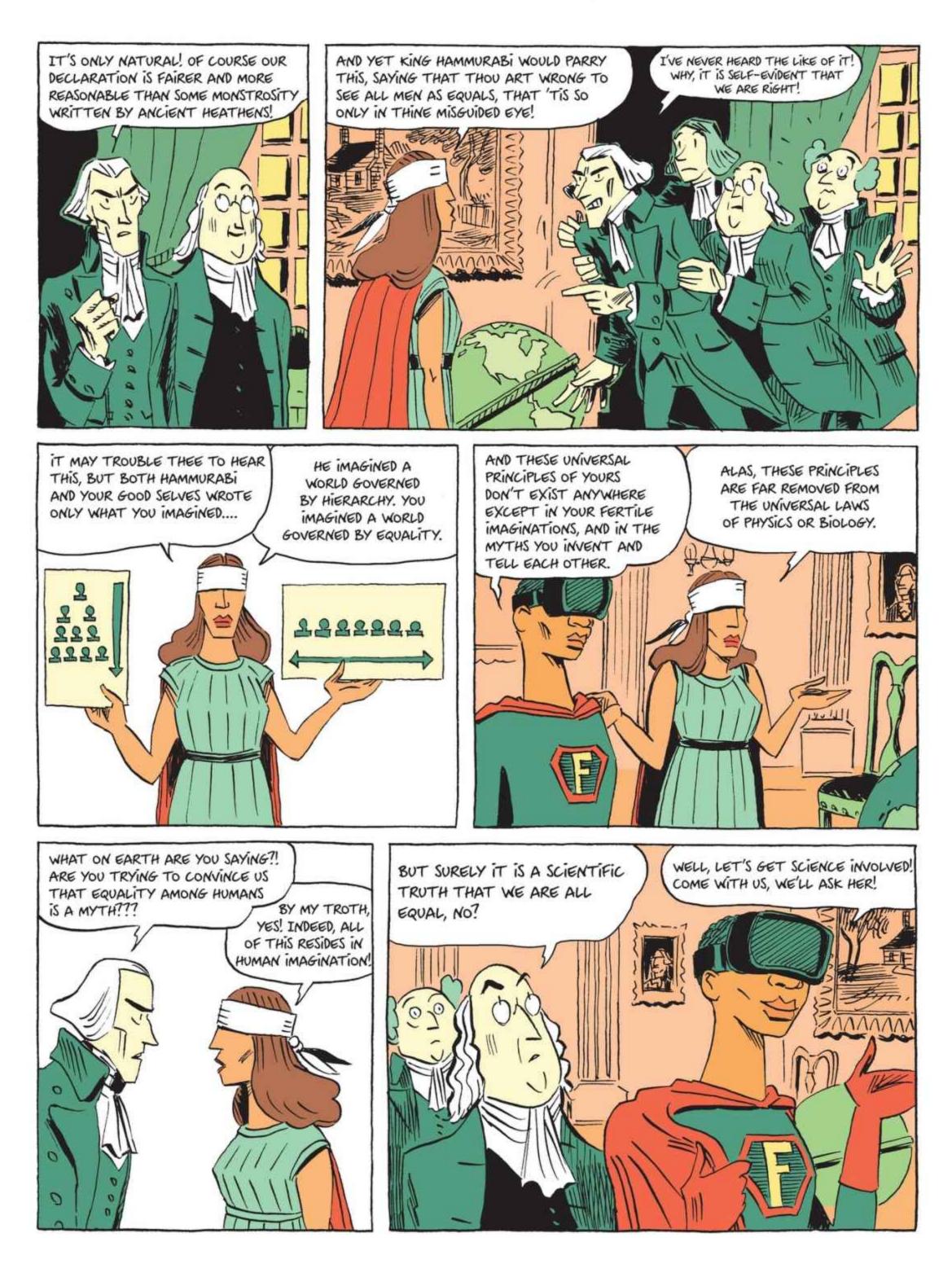


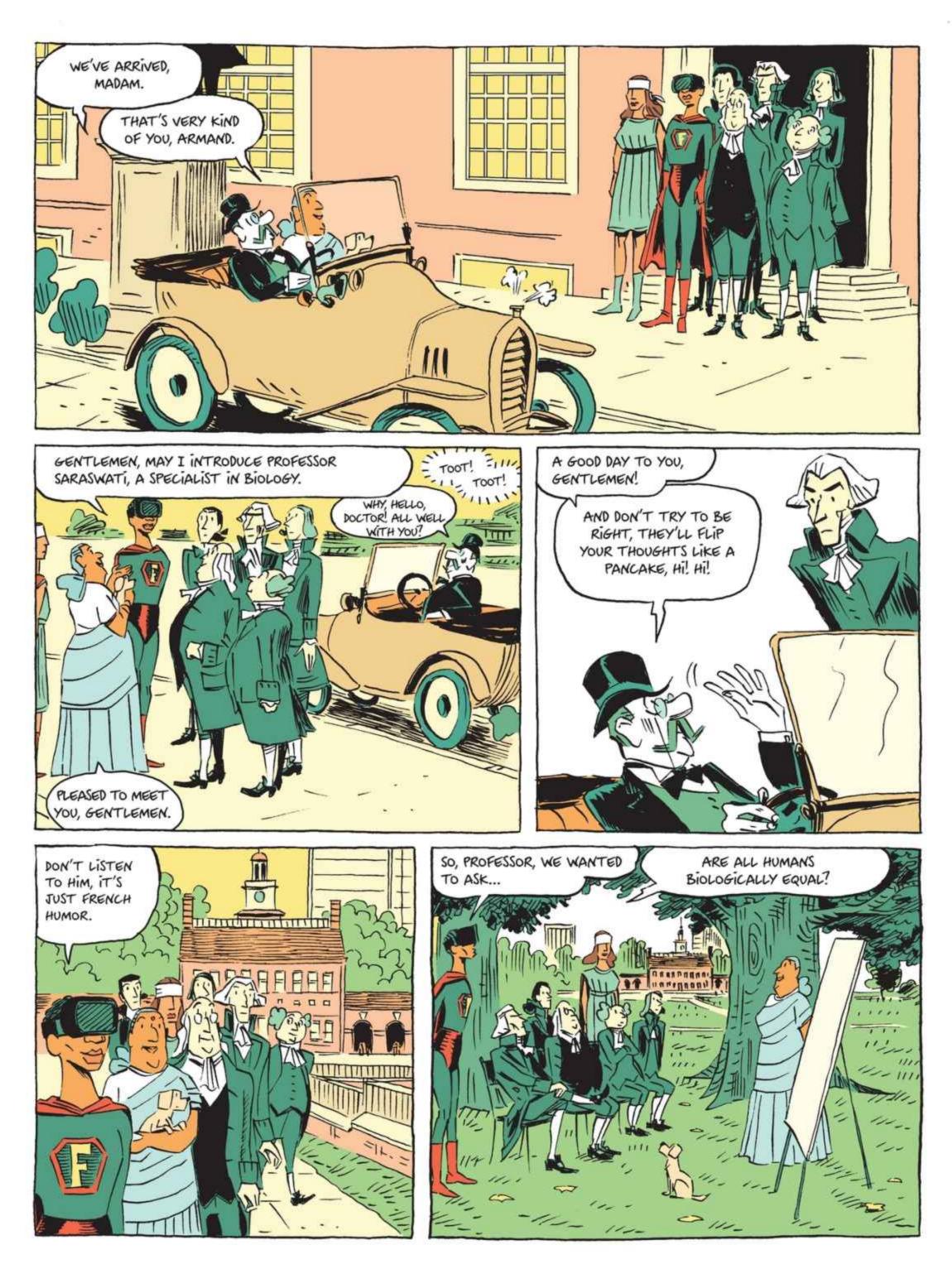


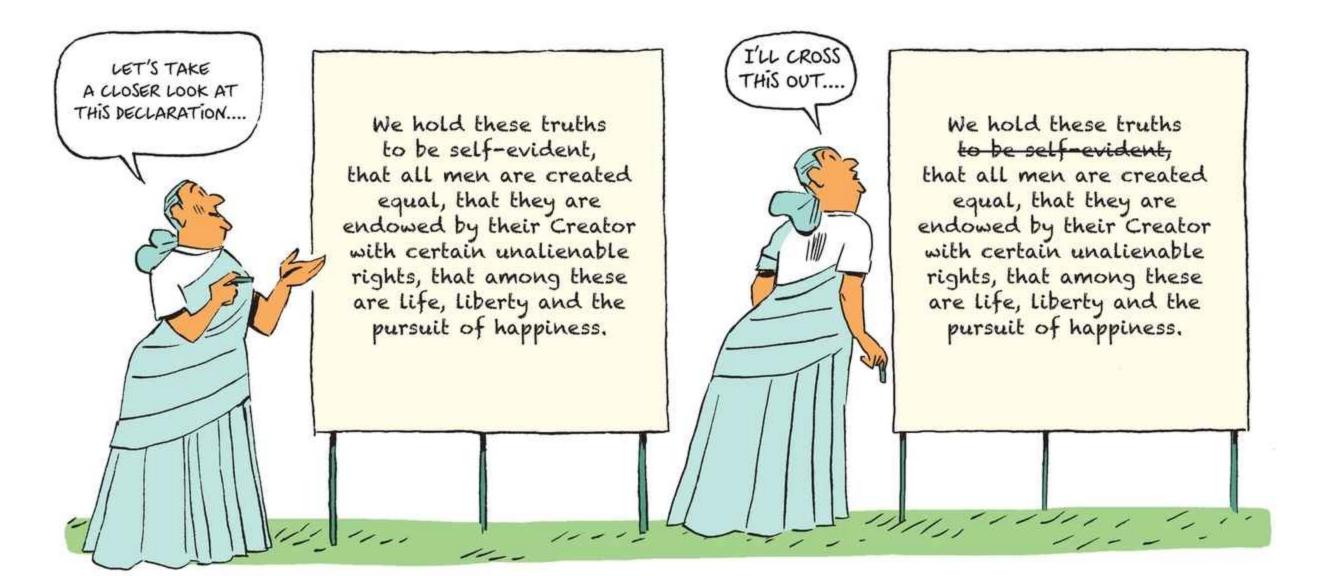










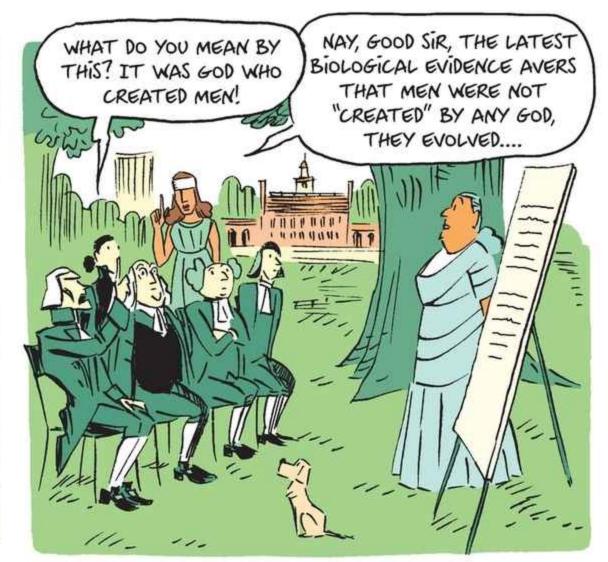


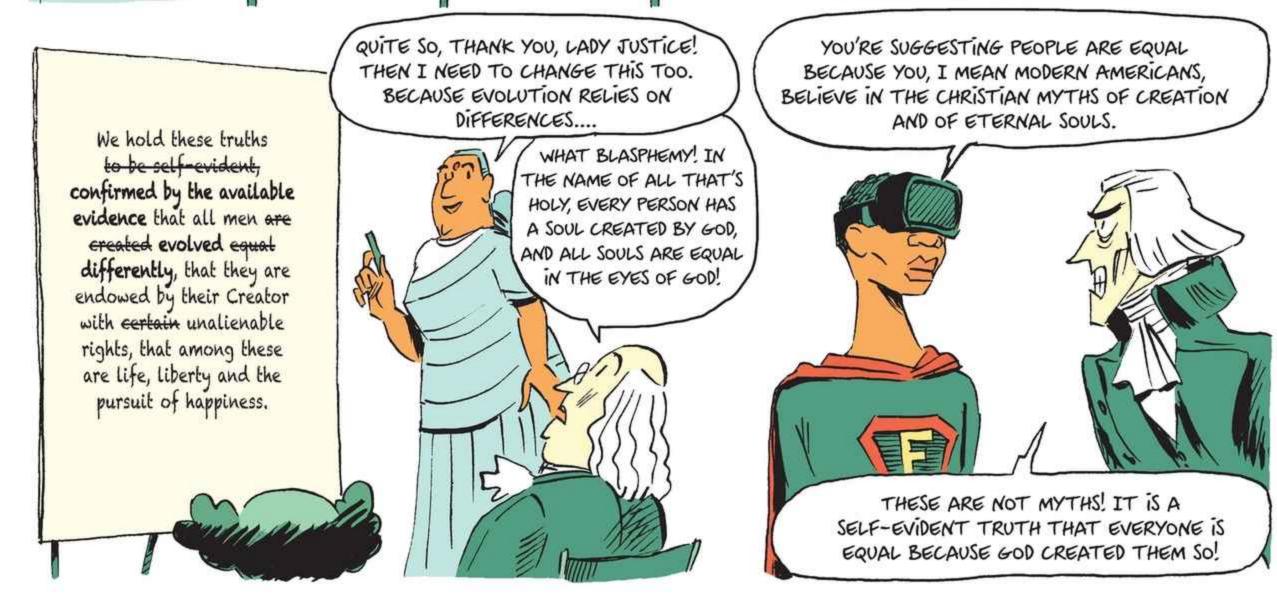
We hold these truths to be self-evident, confirmed by the available evidence that all men are created evolved equal, that they are endowed by their Creator with certain unalienable rights, that among these are life, liberty and the pursuit of happiness.

AND I'LL

REPLACE

THIS ....







HAD THE BEST CHANCE OF SURVIVAL.

GRADUALLY EVOLVED A LONGER NECK THAN ANY OTHER ANIMAL ON THE SAVANNA.





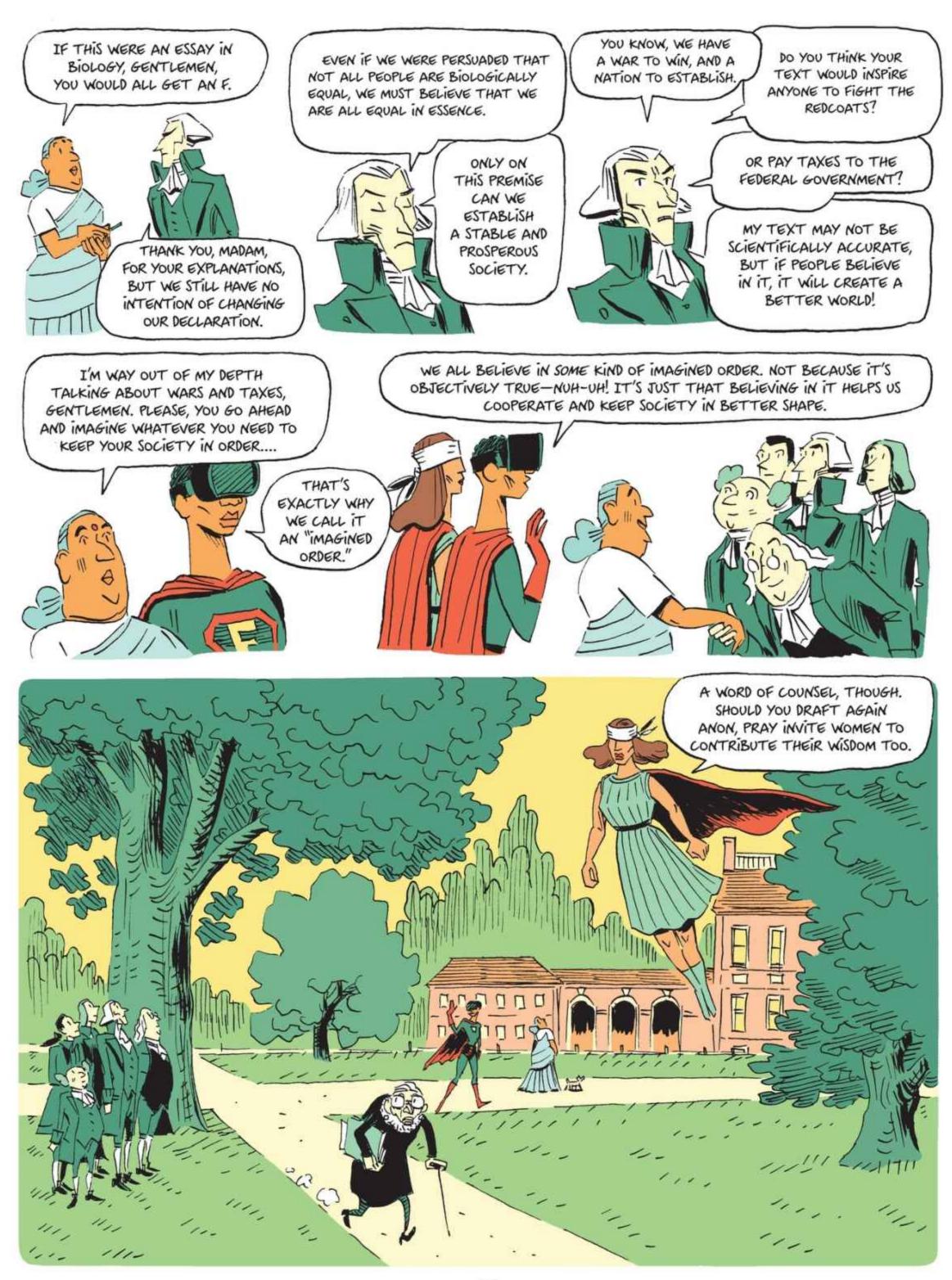


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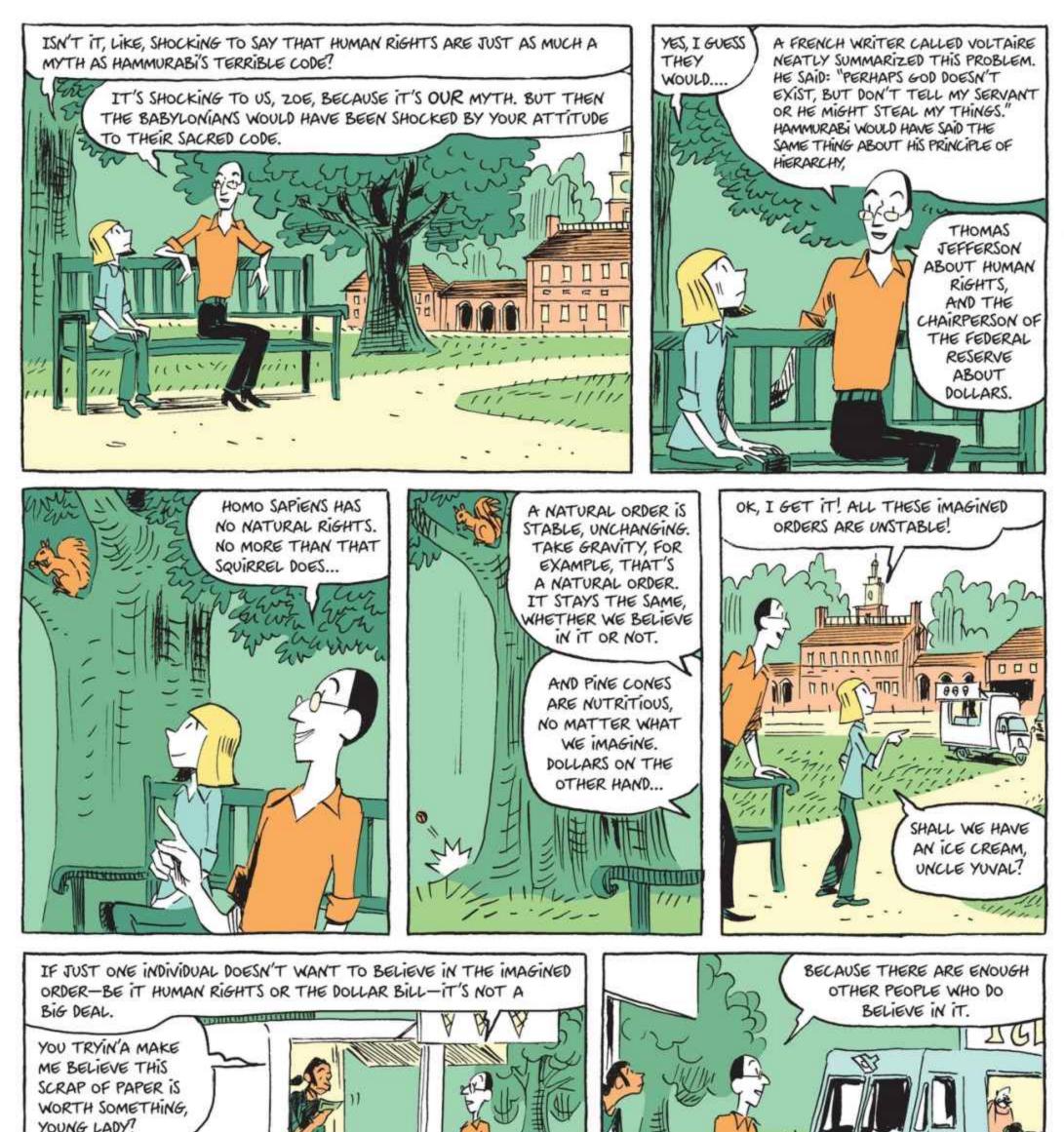


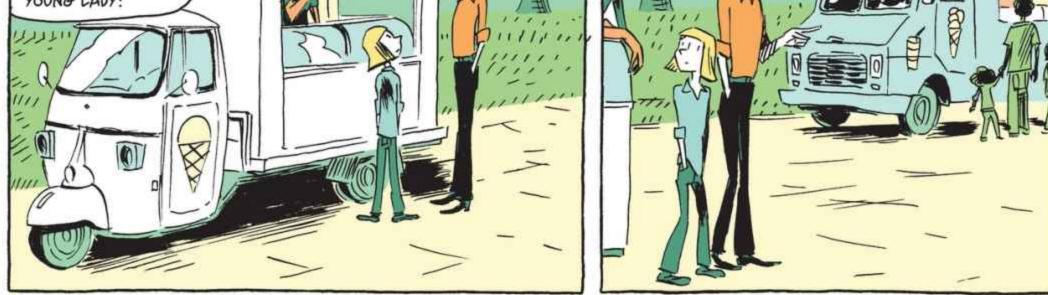
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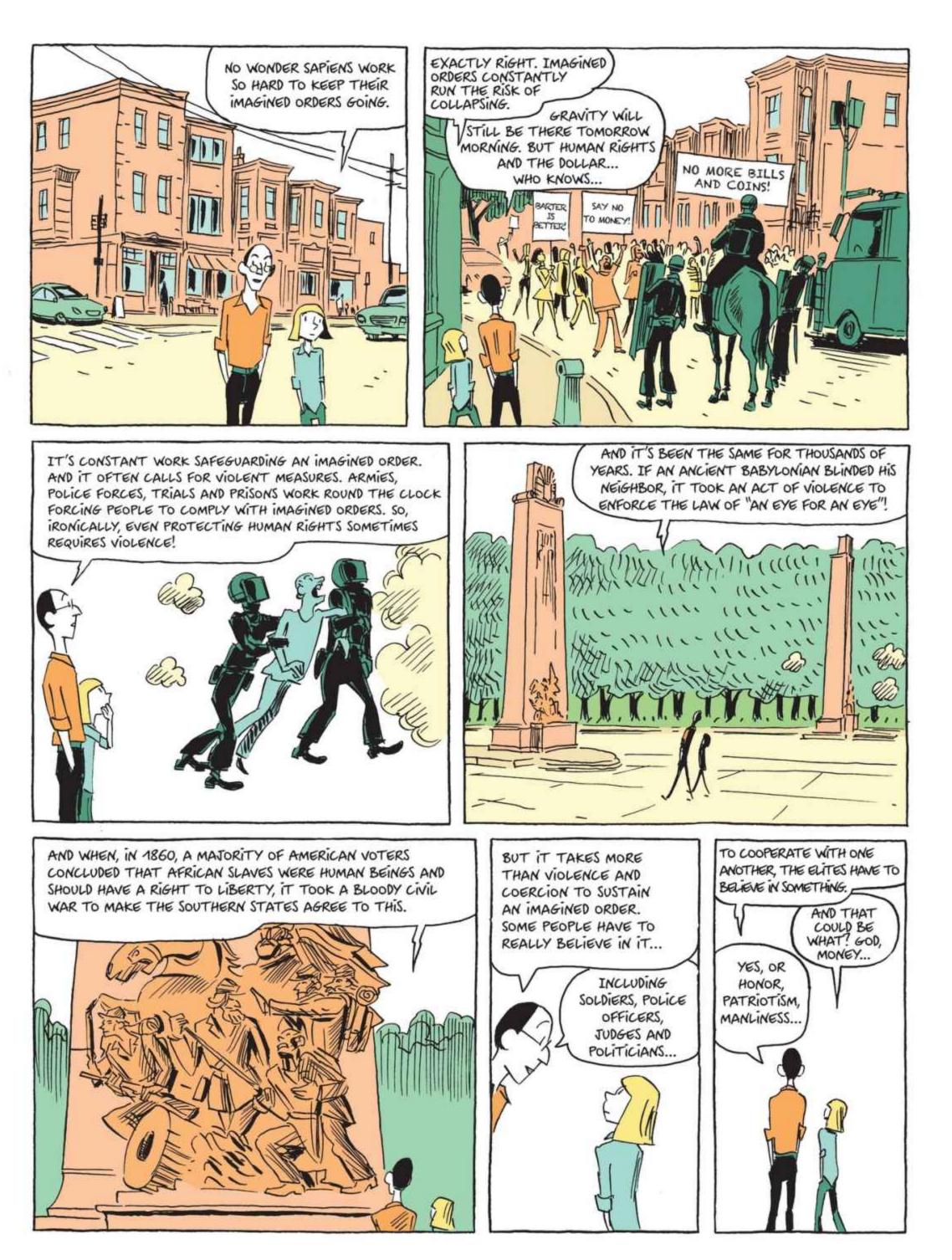




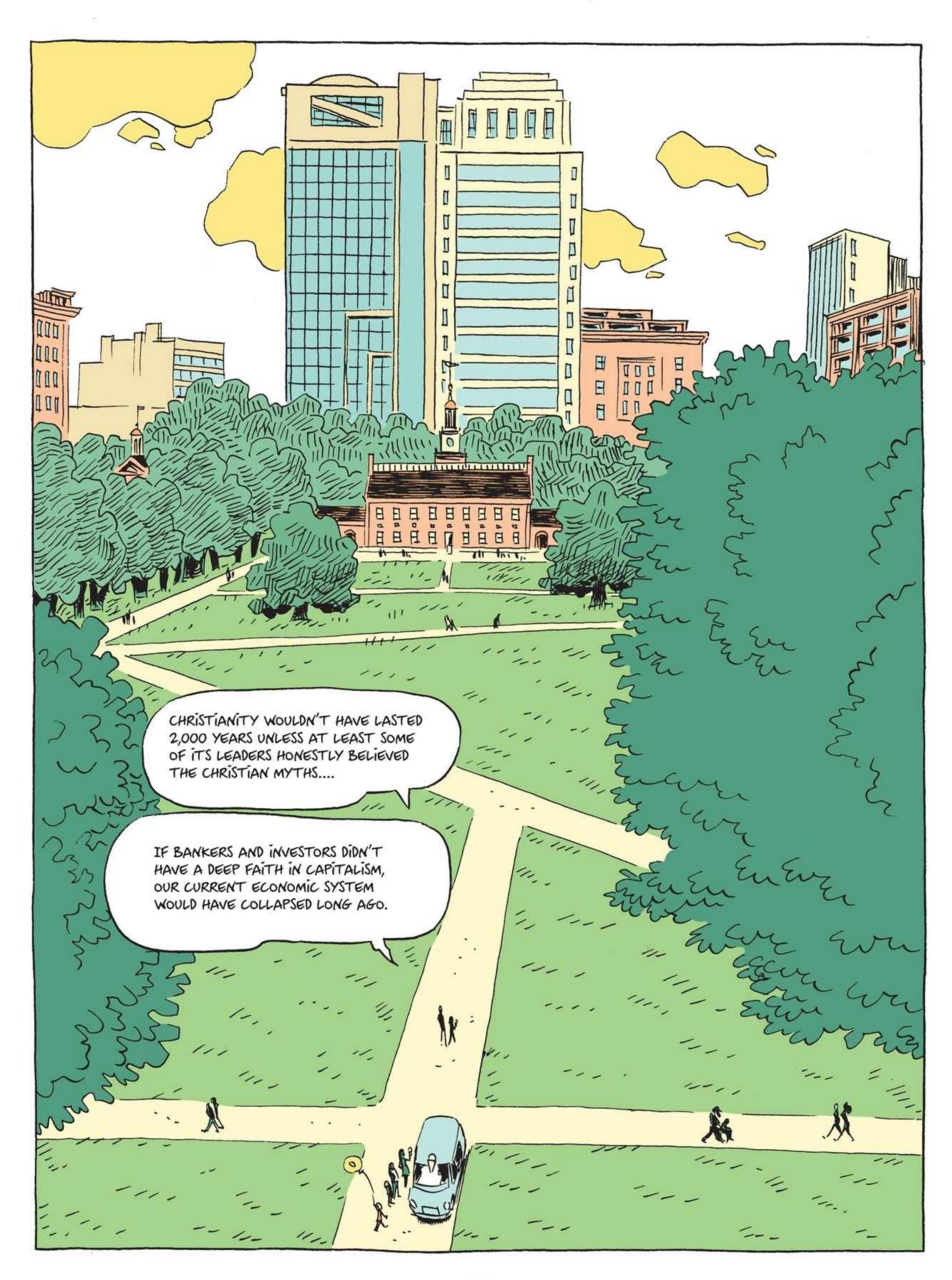




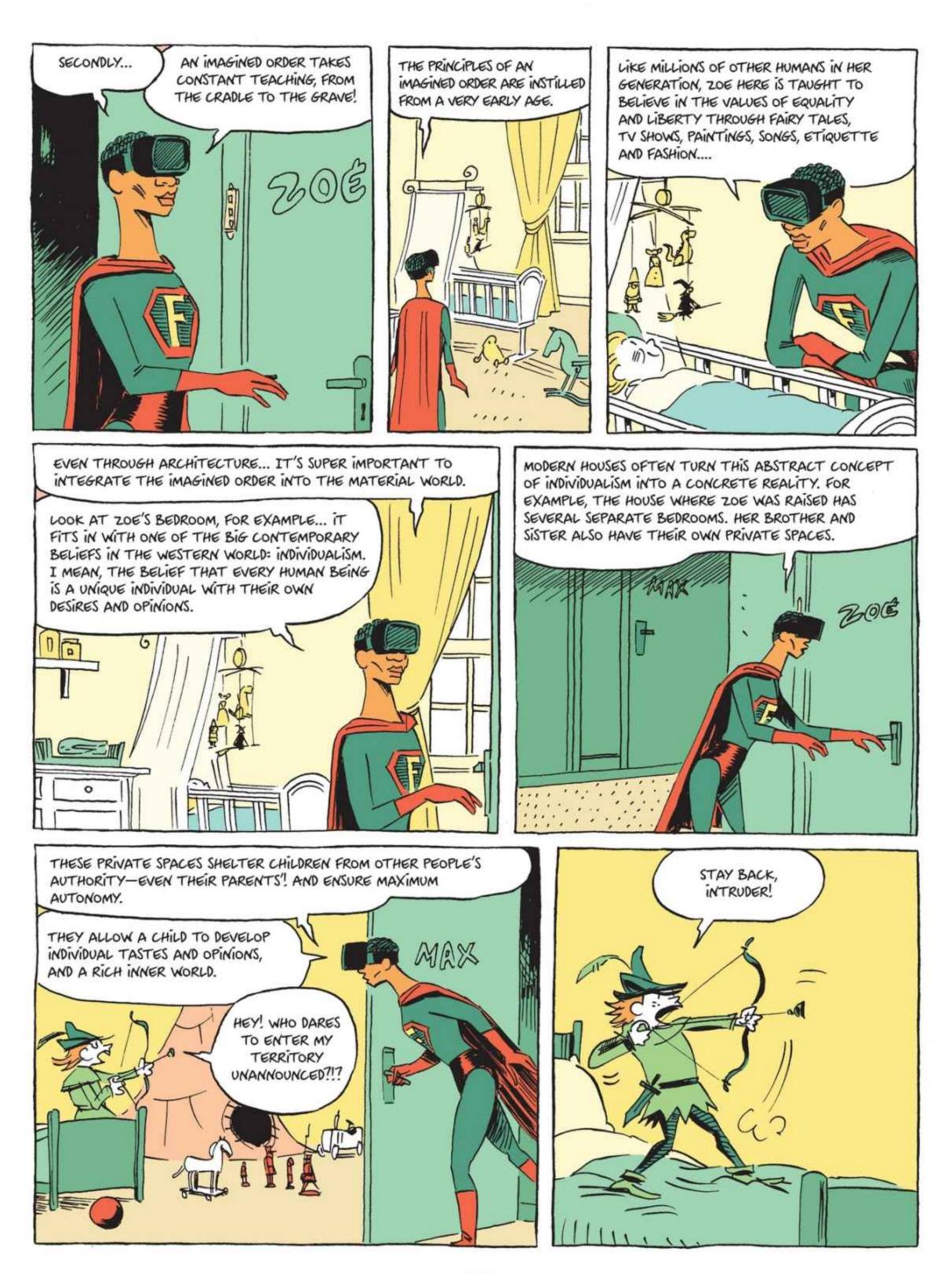


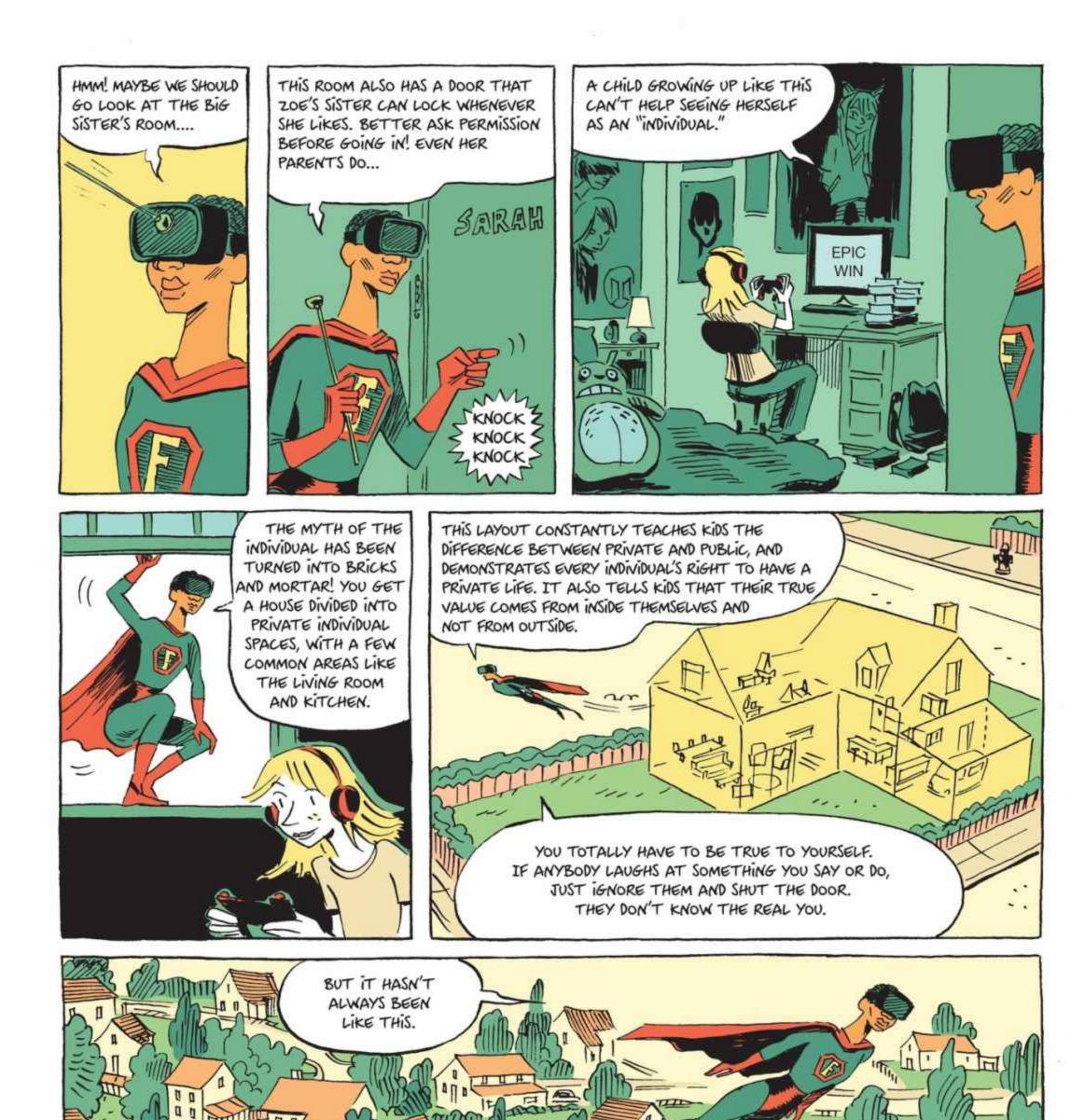






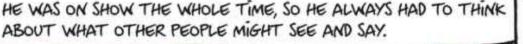






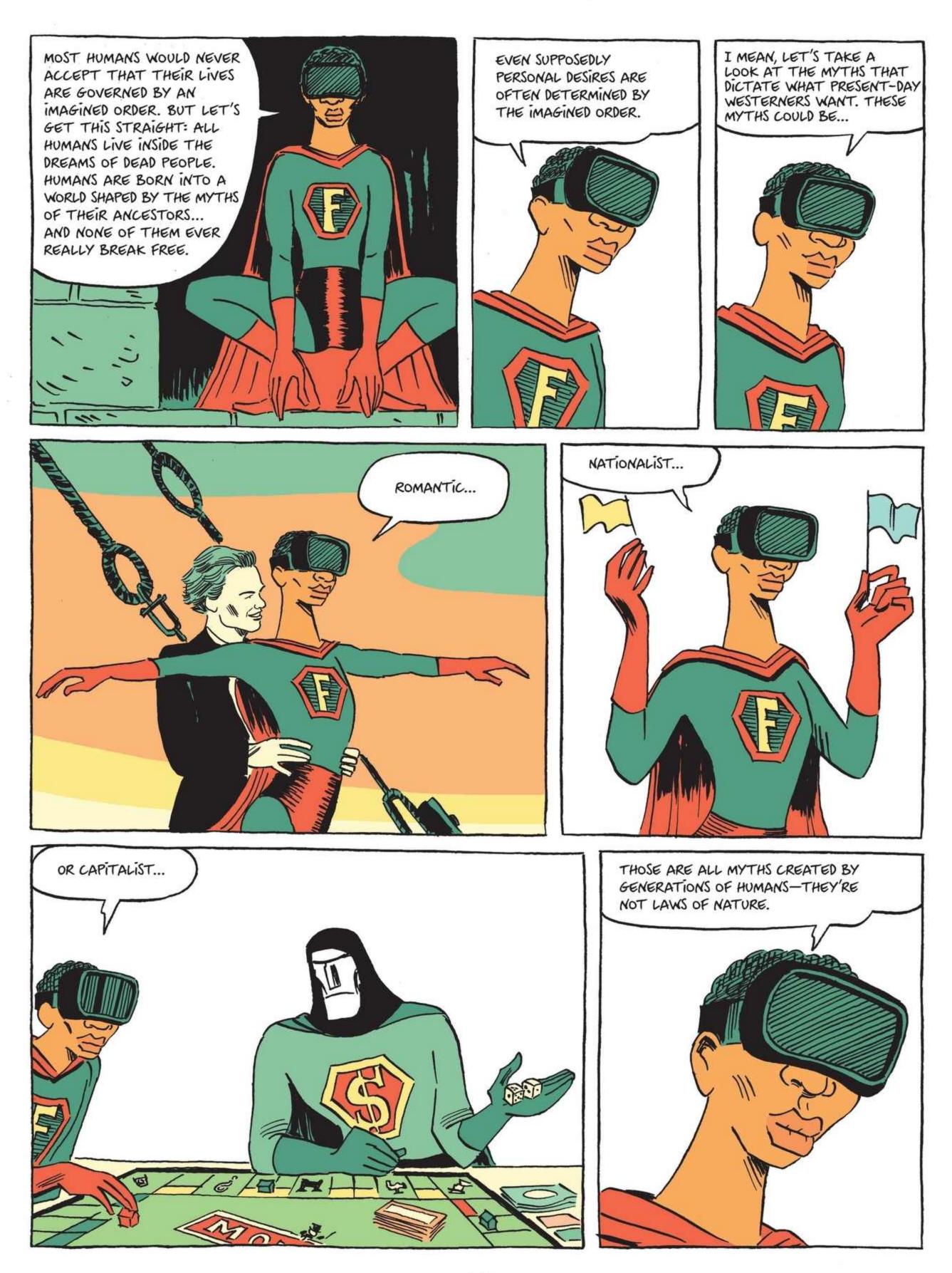








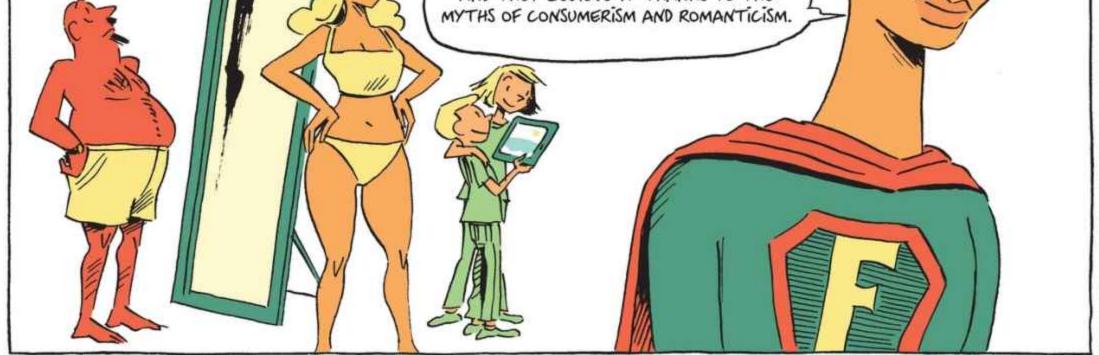


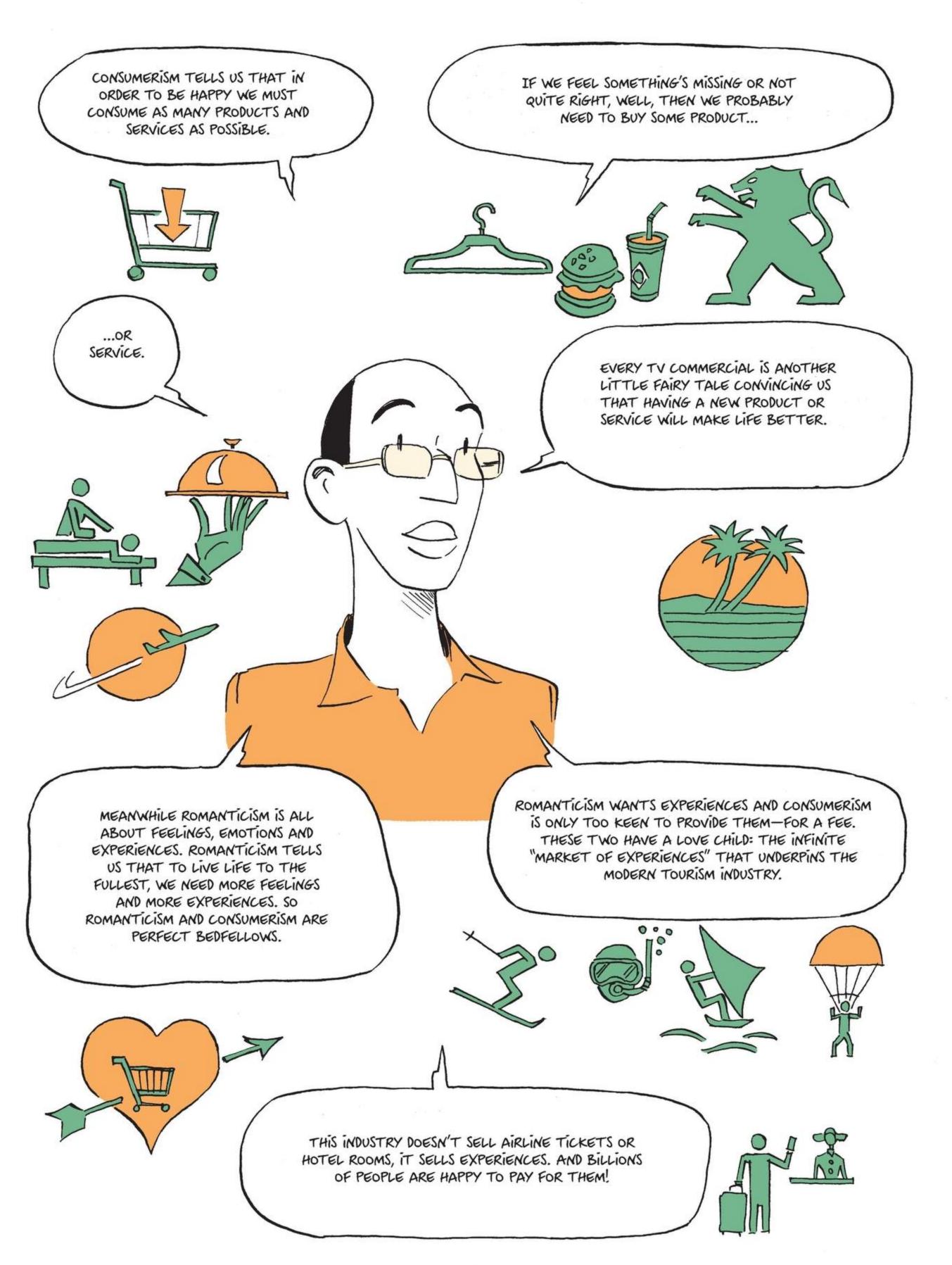


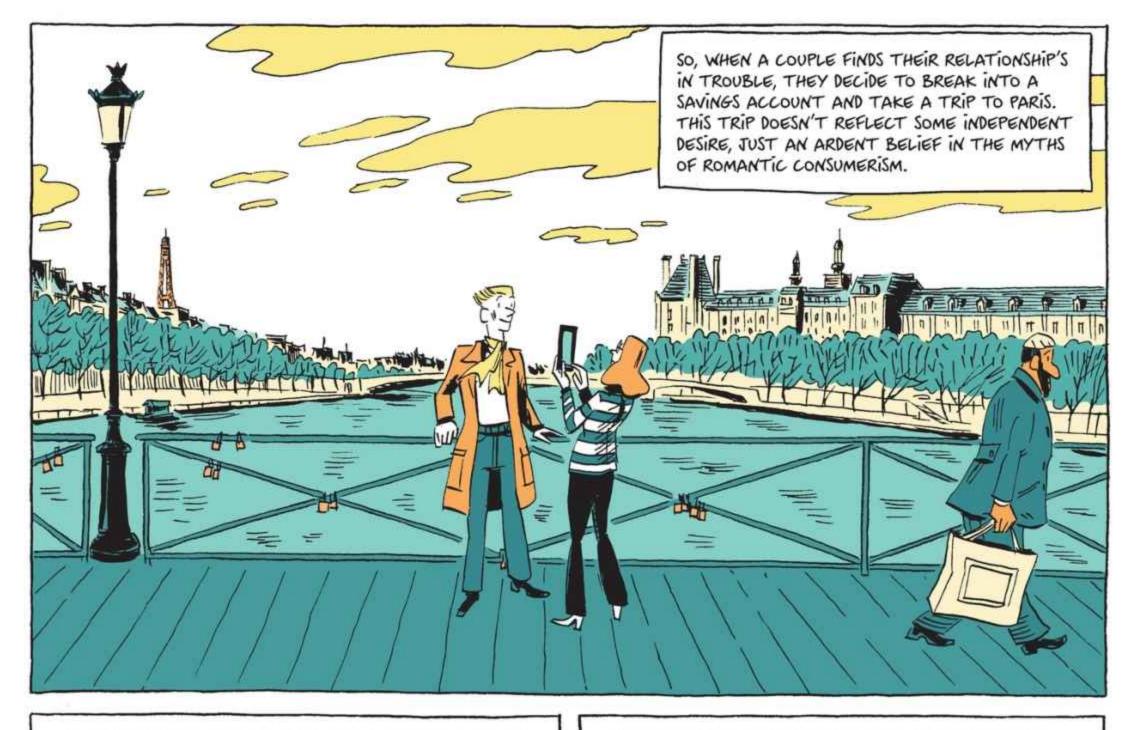


BUT THEY HONESTLY BELIEVE THAT IT'S NATURAL-ESSENTIAL, EVEN-FOR HUMANS TO WANT THESE "EXPERIENCES."

AND THEY BELIEVE IT THANKS TO THE



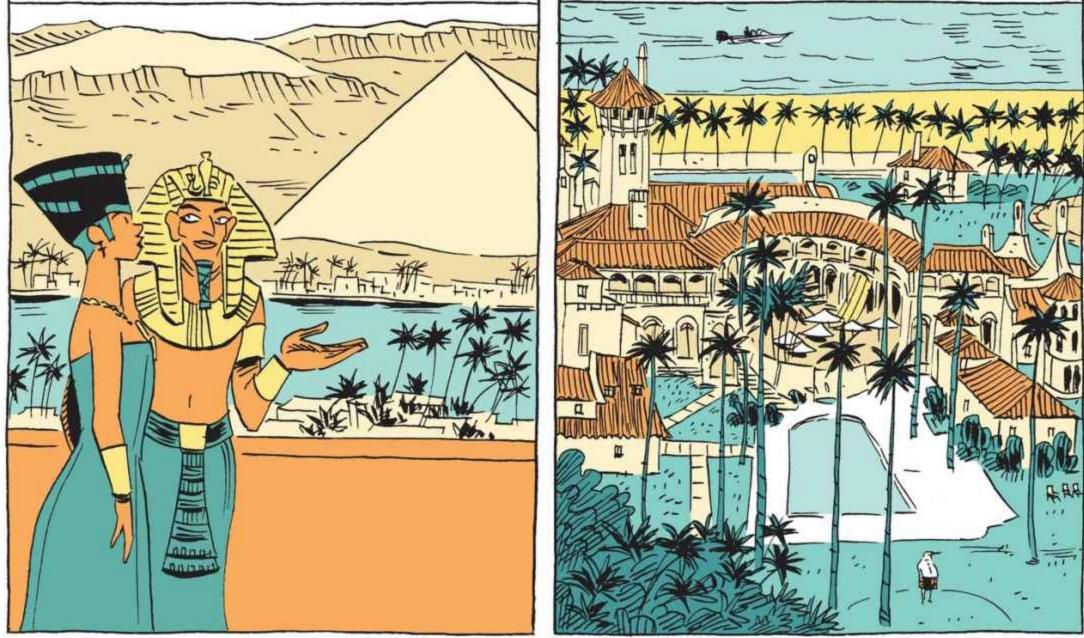




NEVER IN HIS WILDEST DREAMS WOULD A WEALTHY ANCIENT EGYPTIAN HAVE THOUGHT OF SOLVING A MARITAL CRISIS BY TAKING HIS WIFE ON VACATION TO BABYLON. NO, HE PROBABLY WOULD HAVE BUILT HER THE SUMPTUOUS TOMB SHE'D ALWAYS WANTED.

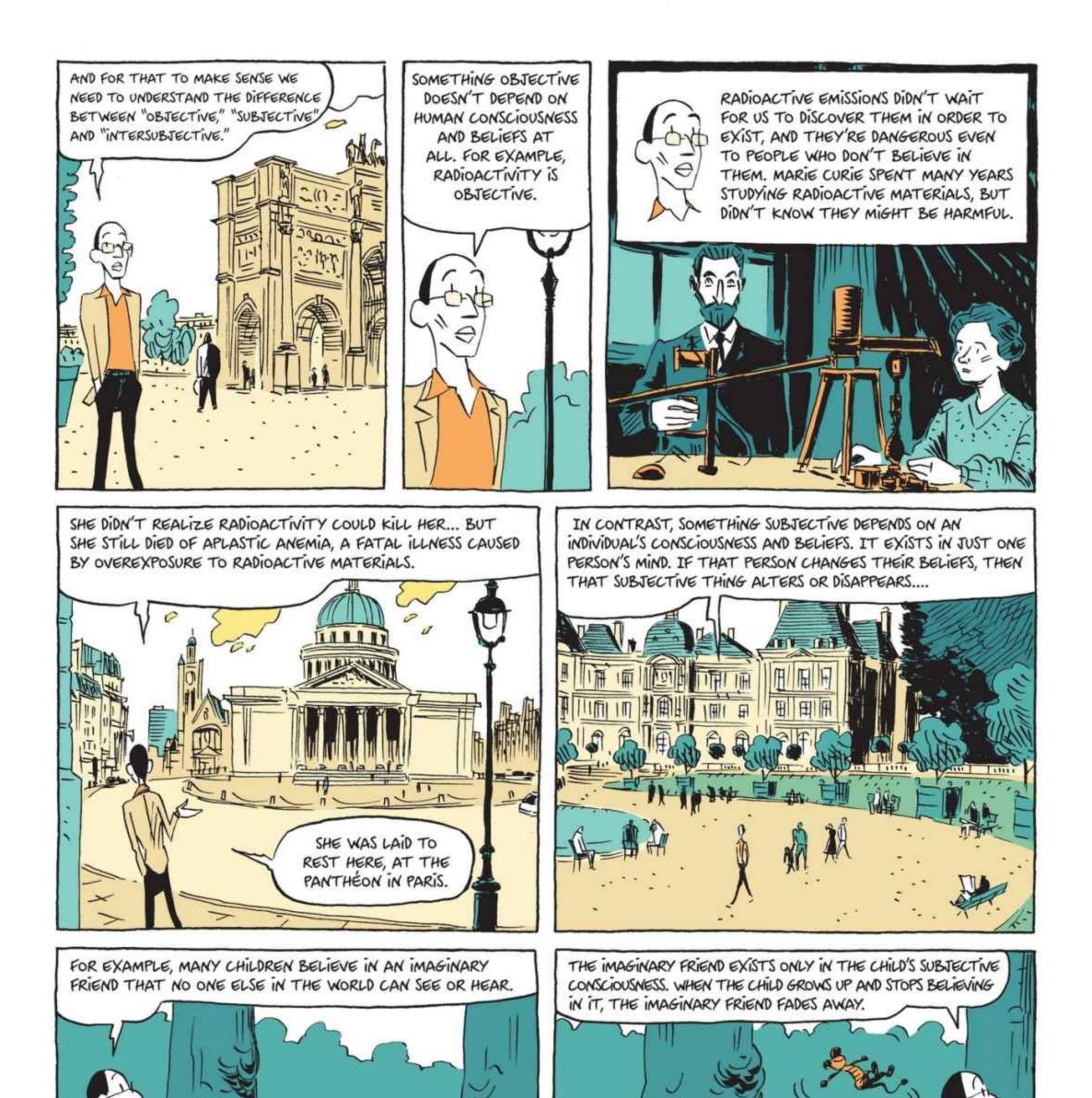
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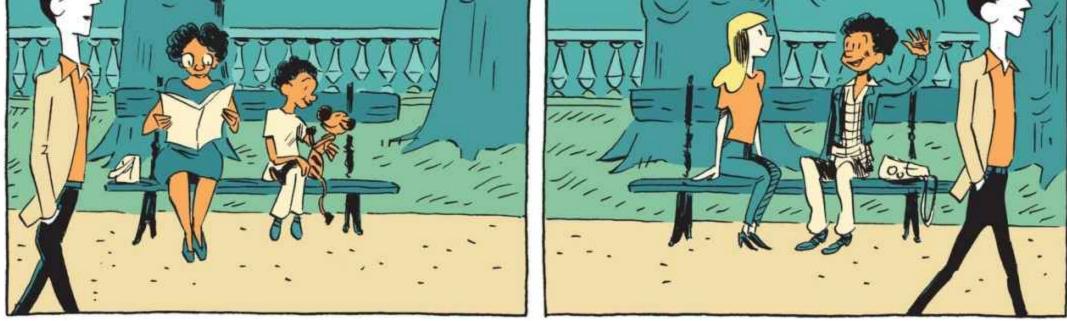
LIKE THE ANCIENT EGYPTIAN ELITE, MOST PEOPLE IN MOST CULTURES SPEND THEIR LIVES BUILDING PYRAMIDS. IT'S ONLY THE NAME, SHAPE AND SIZE OF THESE PYRAMIDS THAT DIFFER FROM ONE CULTURE TO ANOTHER.

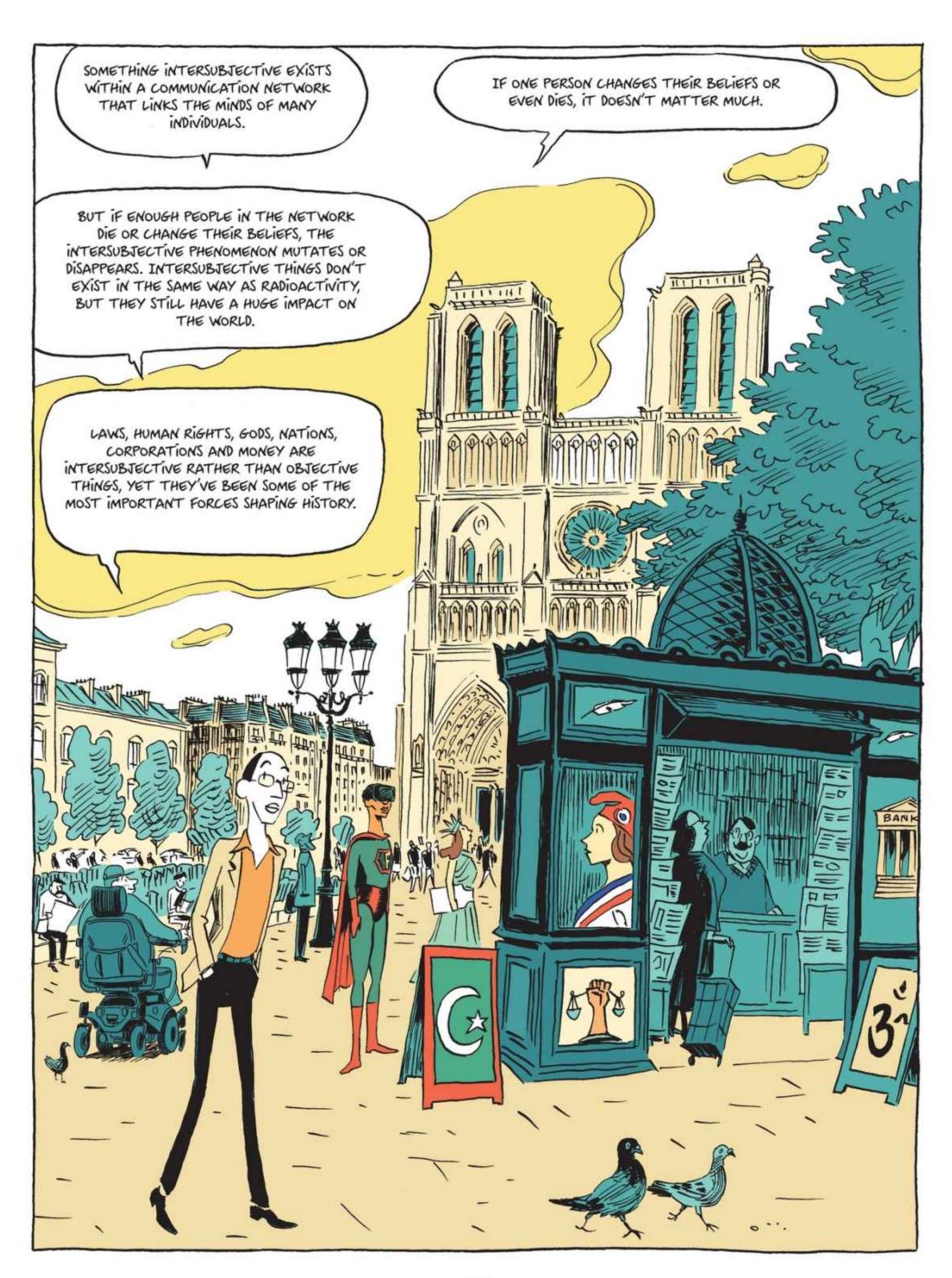


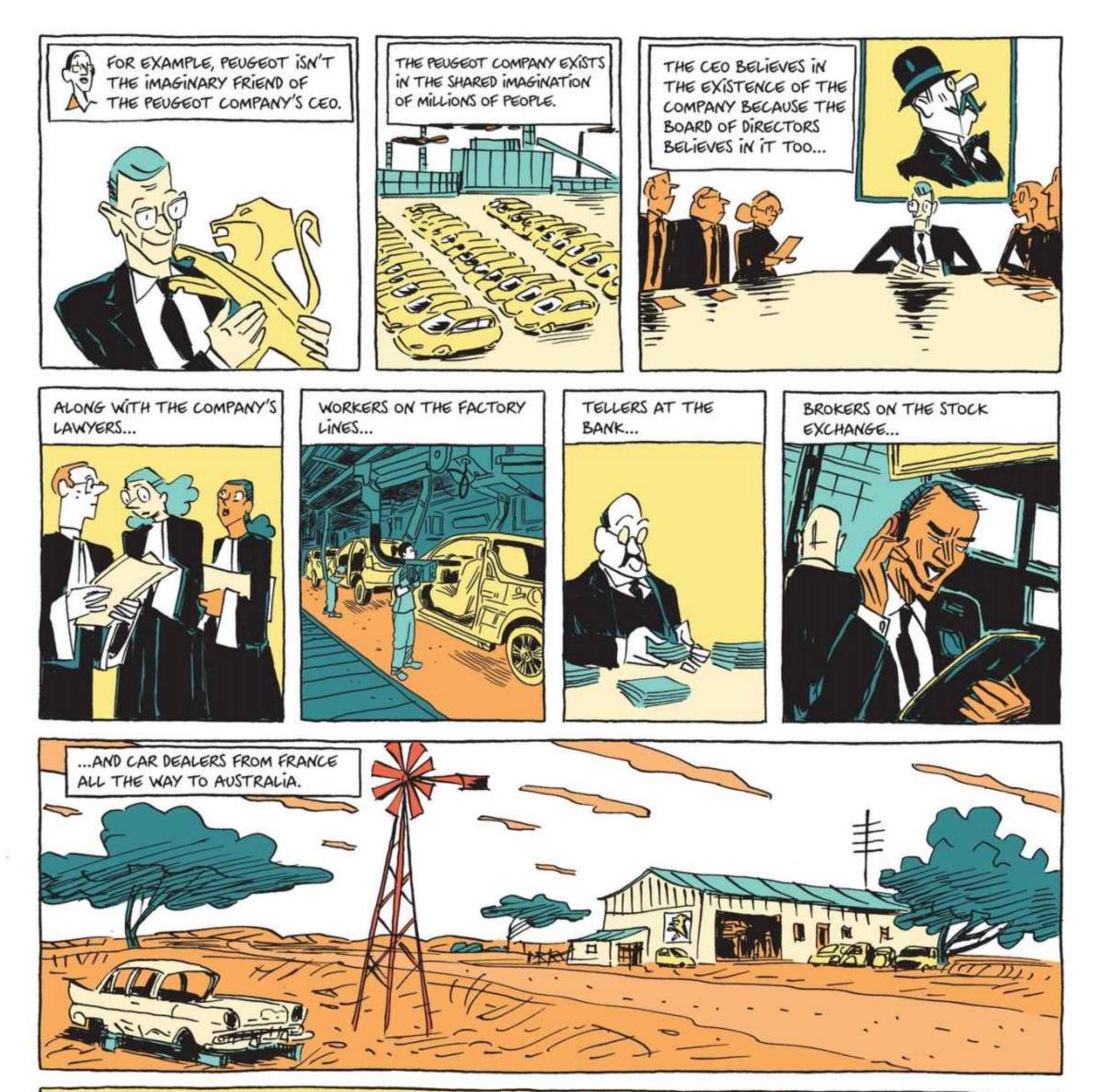






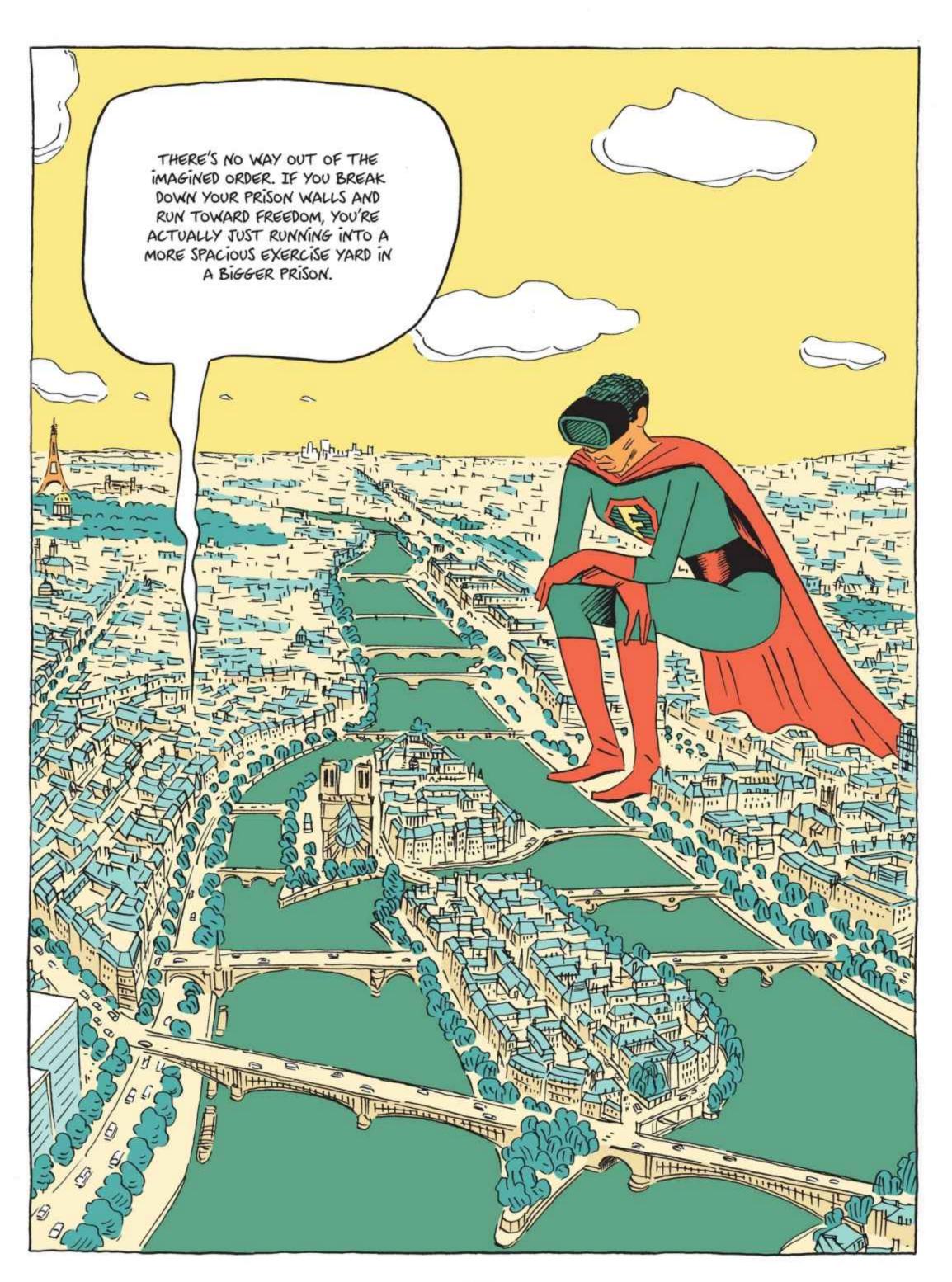












# UP NEXT IN SAPIENS

**REQUEST UNITED-07** N°: 4.8.15.16.23.42

# **ADMISSION FORM REQUIRED FOR ACCESS TO FOLLOWING CHAPTER**



#### SECTION A

SECTION B* PLEASE FILL IN NAME: Yes No Occasionally	STRIKE THROUGH THE APPROPRIATE ANSWER AND DELETE WHERE NOT APPLICABLE.
DATE OF BIRTH: Contains Gluten Gluten Free ADDRESS: Married Single it's complicated FIRST LANGUAGE: XXL XL L L M S XS I	XXS S

## **SECTION C\***

## SECTION D\*

Yes, I have received my copy of *Sapiens* as a gift,

Yes, I bought my copy of *Sapiens* and it was given

I paid:

By card

By silver shekels

Salted cucumbers

to me by:

A second cousin The minister of education Attila the Hun

SEE FULL ADDRESS ON THE REVERSE.

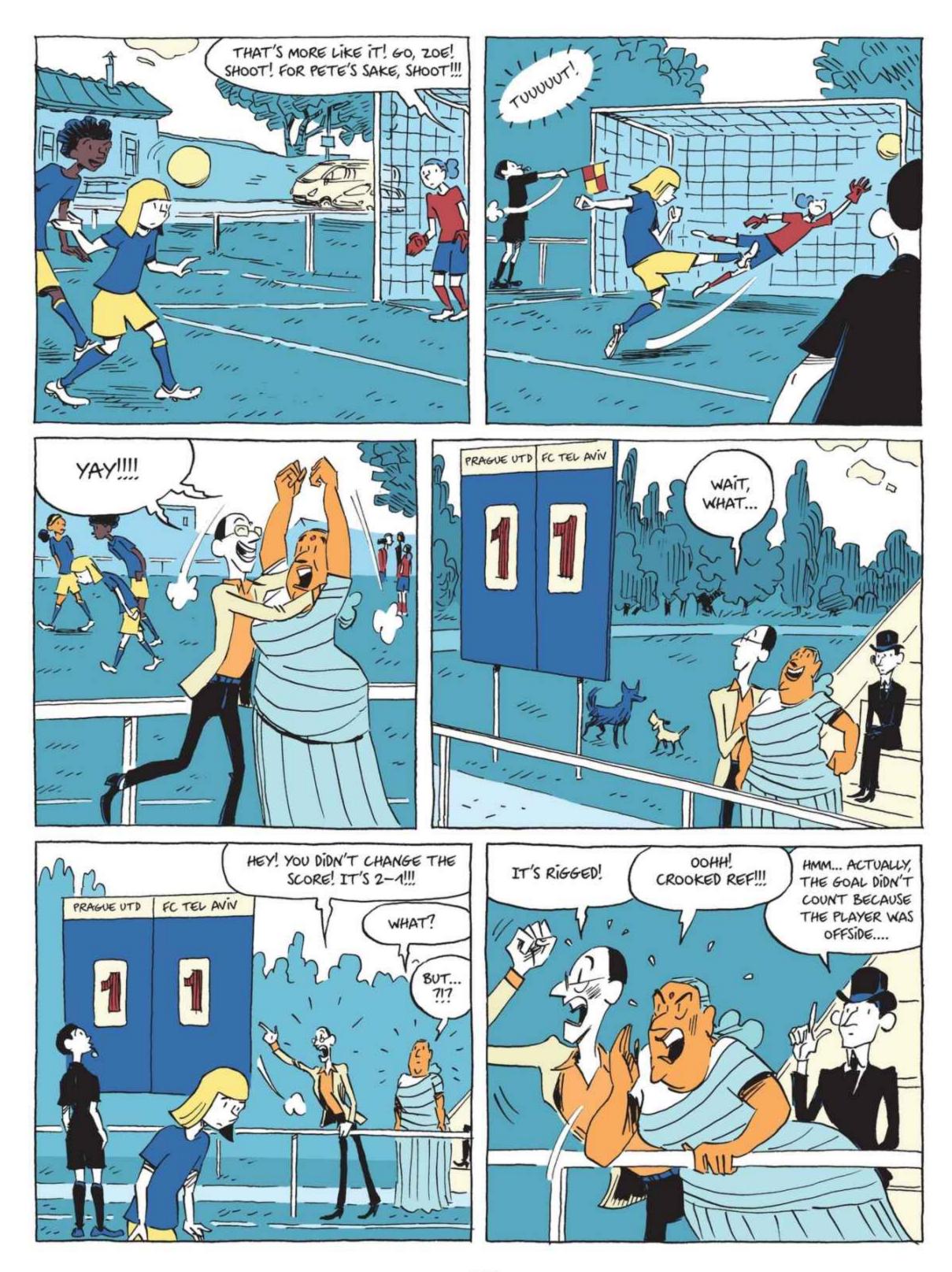
When you have duly completed this document, our offices will take delivery of it and process it so that a certificate in the form of a shapeless woolly hat can be sent to you within six years.\*\*

\* Required field. \*\* Subject to availability. CUT OUT THE FORM PRECISELY ALONG THE DOTTED LINE. FORM TO BE RETURNED TO: INTERDEPARTMENTAL COMMITTEE FOR META-ADMINISTRATIVE AFFAIRS, DEPARTMENT C-22, SECTION B7C7.









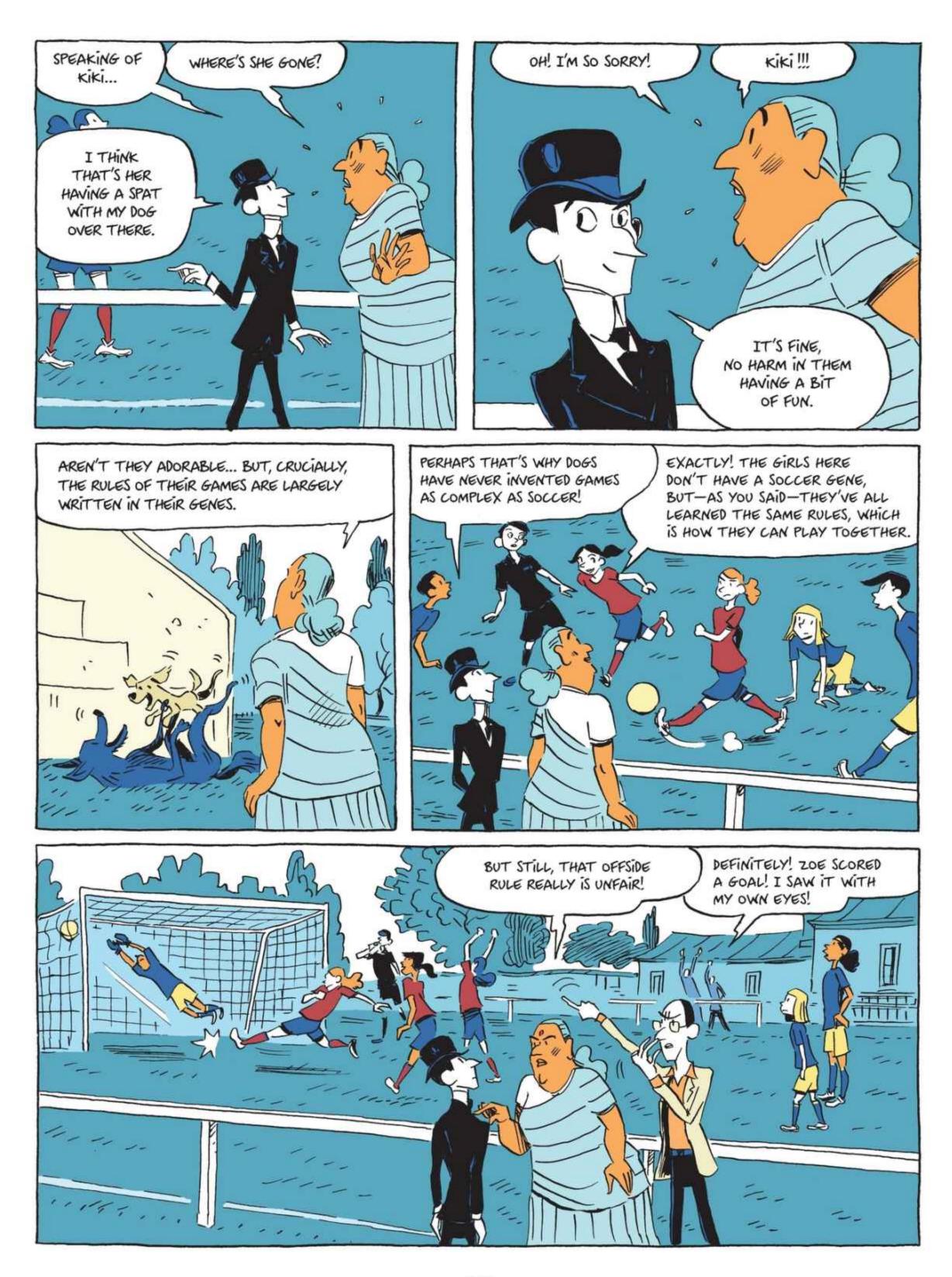


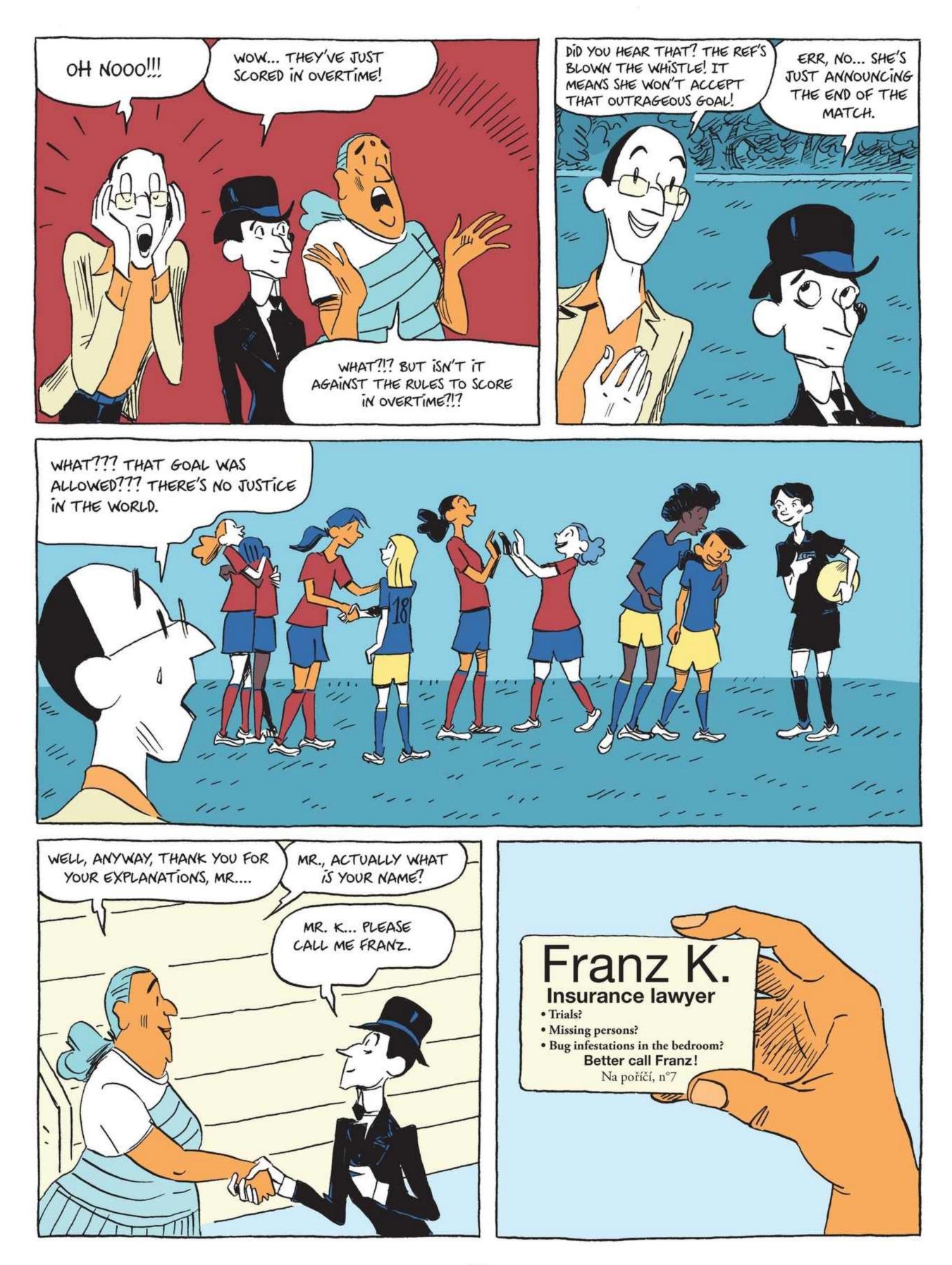
WELL, YES, THE RULES ARE DREAMED UP OUT OF NOWHERE. BUT THEY DON'T RUIN THE GAME. WITHOUT THEM, THERE WOULD BE NO GAME. THANKS TO THESE RULES, 22 PEOPLE FROM TWO DIFFERENT COUNTRIES, WHO HAVE NEVER MET BEFORE, MANAGE TO PLAY VERY NICELY TOGETHER! I SEE WHAT YOU MEAN.... BUT I WONDER IF WE HUMANS DON'T

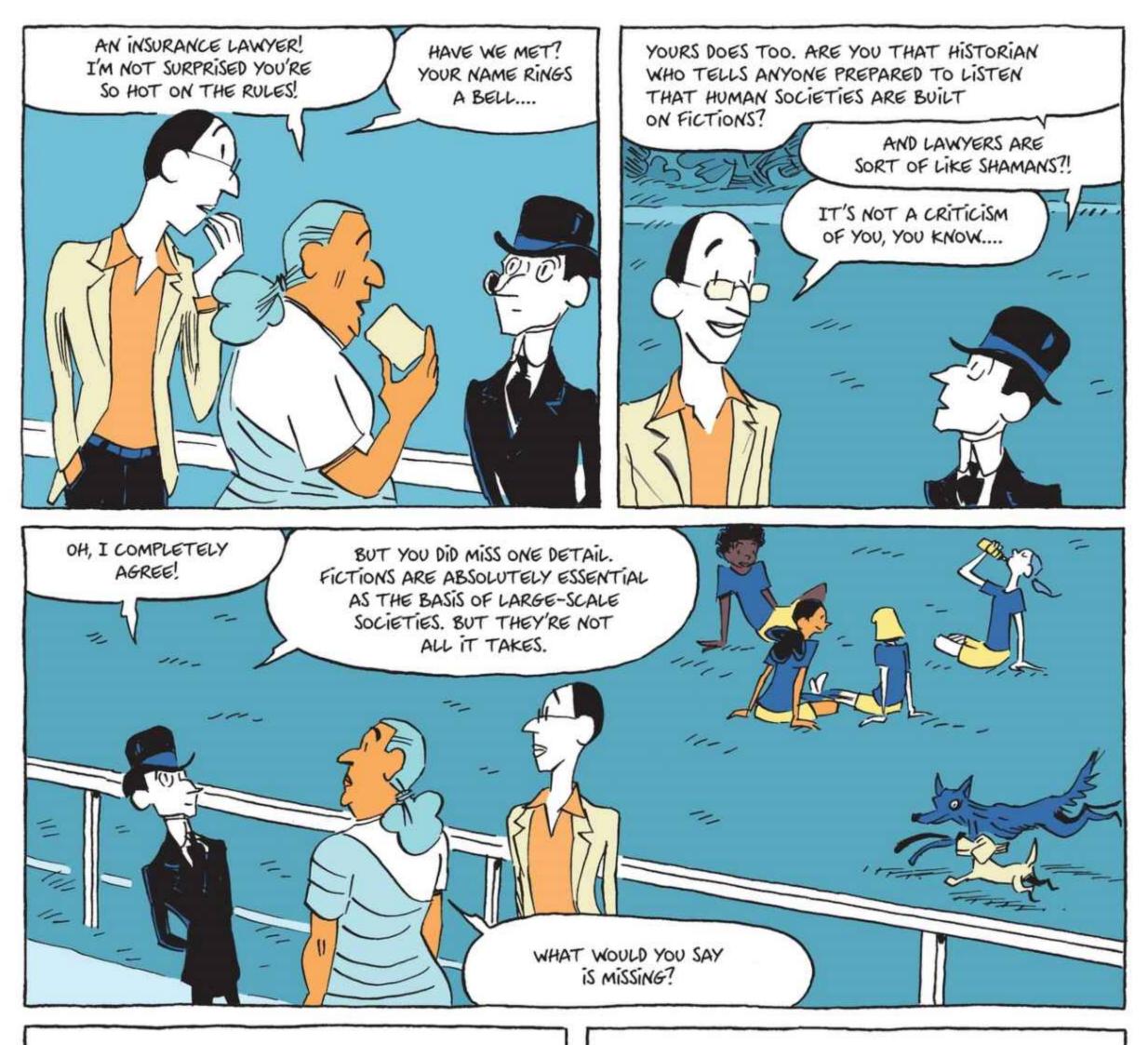
YOU KNOW, OTHER ANIMALS PLAY GAMES







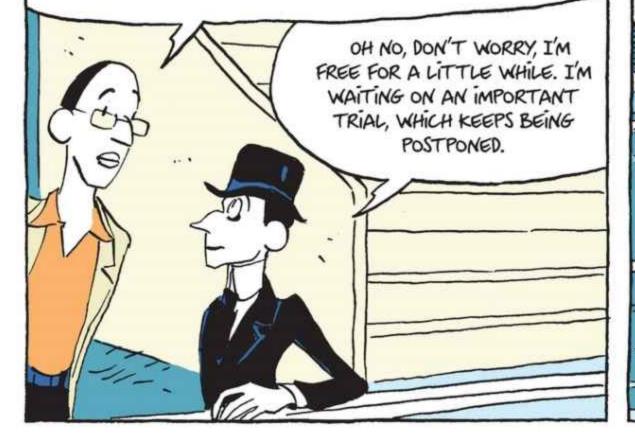




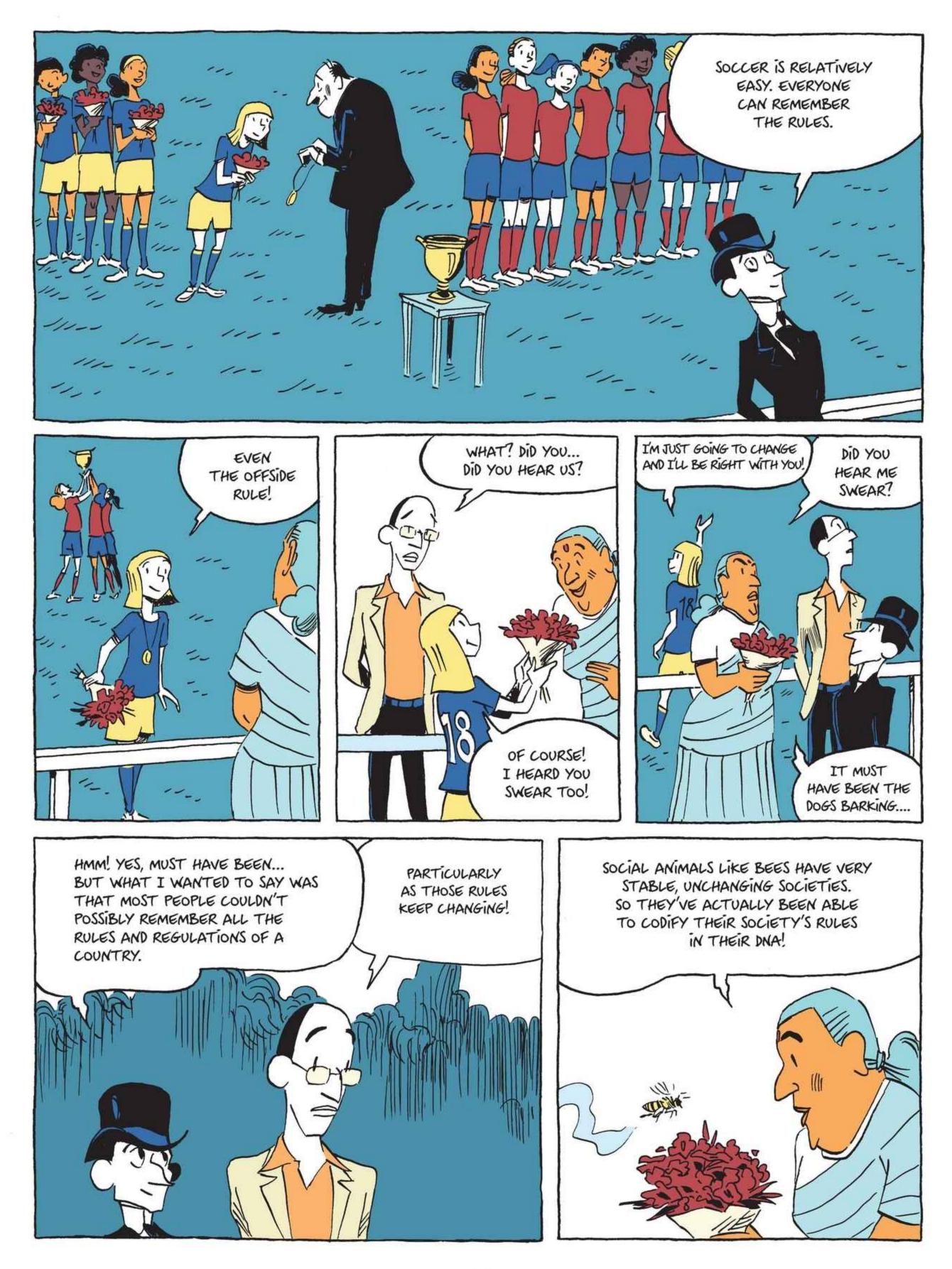
GOOD QUESTION, BUT I HOPE WE'RE NOT KEEPING

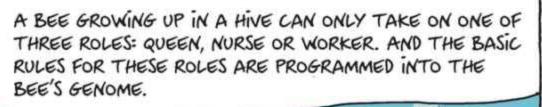
WHAT I MEANT WAS, TO ESTABLISH A LARGE-SCALE SOCIETY, YOU ALSO NEED TO STORE AND HANDLE HUGE AMOUNTS OF INFORMATION. HAVE YOU EVER SEEN THE PAPERWORK IN A GOVERNMENT OFFICE?!

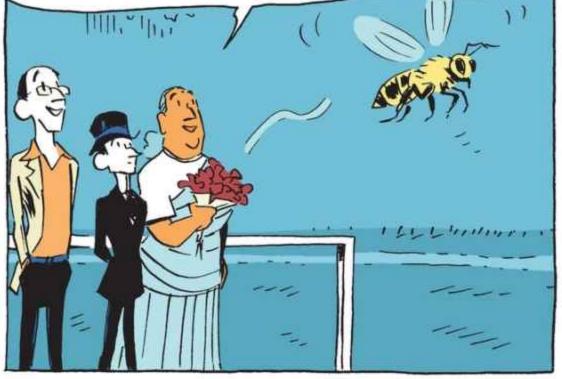
YOU FROM ANYTHING. I KNOW YOU INSURANCE LAWYERS ARE VERY BUSY.



I SEE WHAT YOU MEAN. YOU HAVE TO STORE MOUNTAINS OF INFORMATION JUST TO REMEMBER ALL THE BIZARRE FICTIONS THAT HOLD SOCIETY TOGETHER.





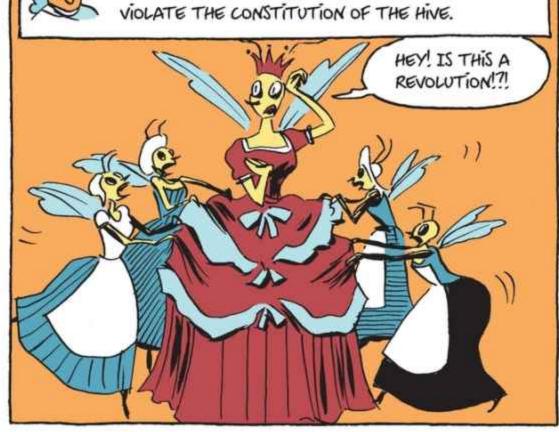


THEY'RE NOT NEEDED BECAUSE THERE'S NO

DANGER ANY BEES WILL FORGET OR TRY TO



THE QUEEN NEVER CHEATS HER SUBJECTS OUT OF FOOD, AND THEY NEVER GO ON STRIKE TO DEMAND A PAY RAISE.



OR THINKING ABOUT CHANGING THEM ....

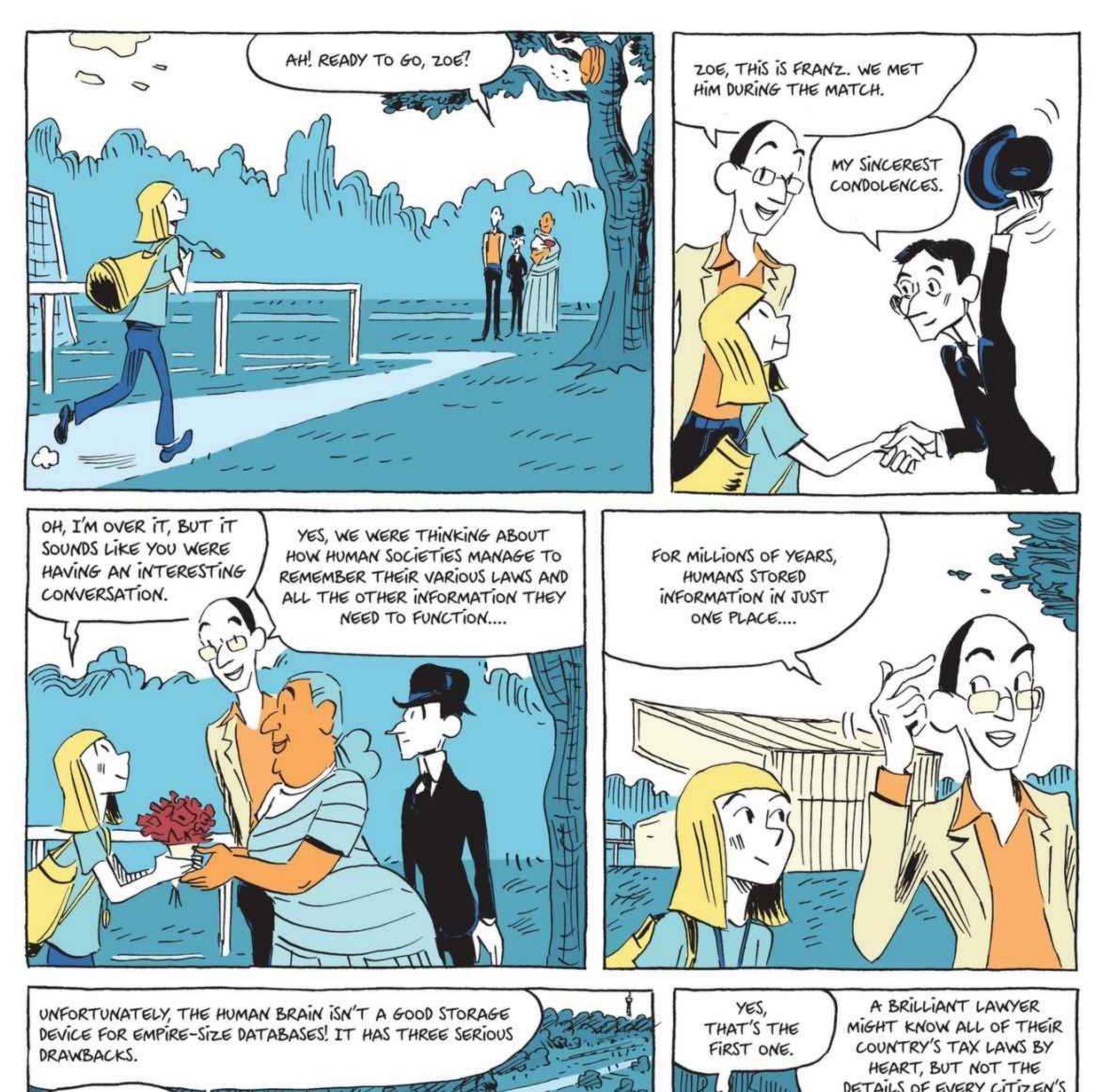




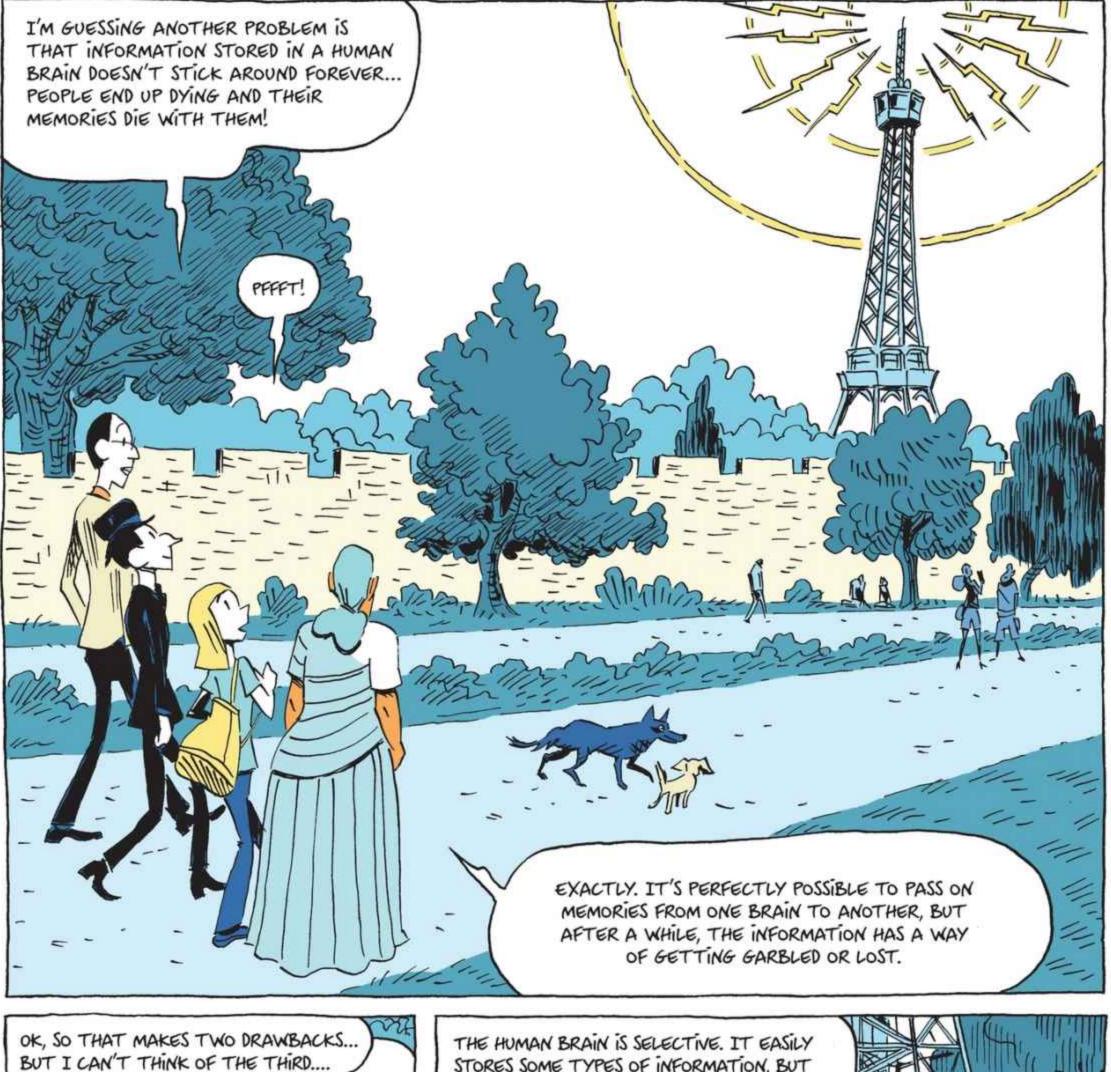
AND THAT'S WHY, WHEN WE LOSE A SOCCER MATCH OR AN ELECTION, WE BLAME UNFAIR RULES. SOMETIMES WE'LL EVEN TAKE THE ISSUE TO COURT. OR IT COULD START A WAR ....

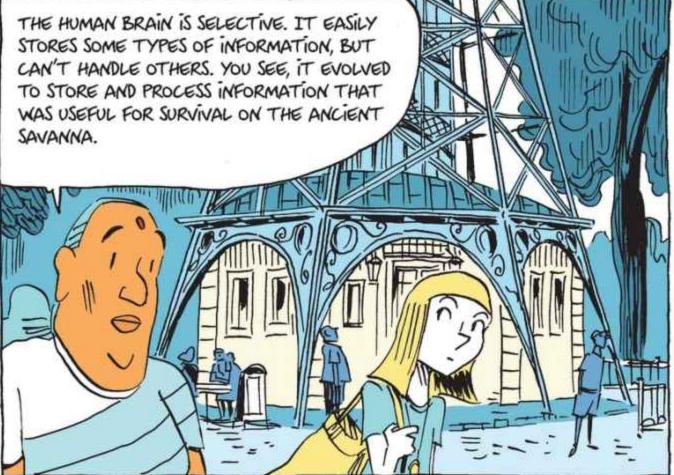




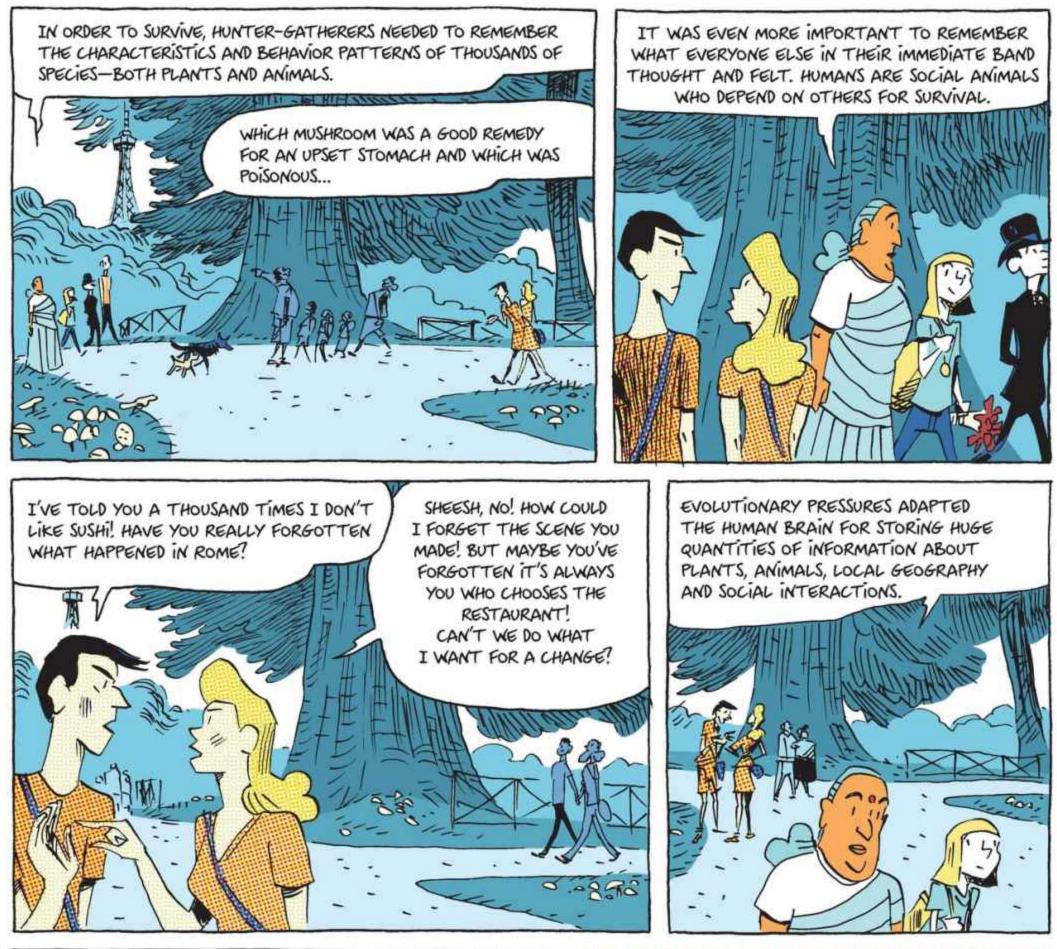






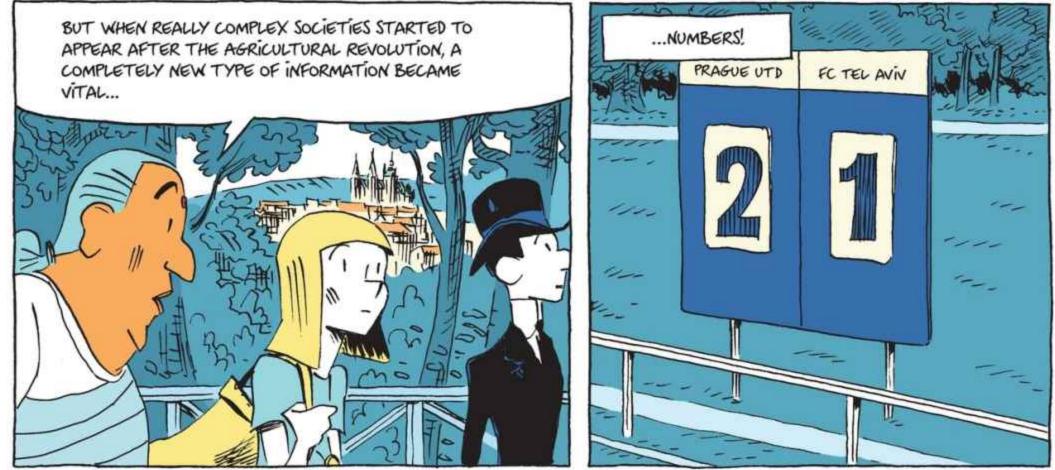






APPEAR AFTER THE AGRICULTURAL REVOLUTION, A COMPLETELY NEW TYPE OF INFORMATION BECAME VITAL ...

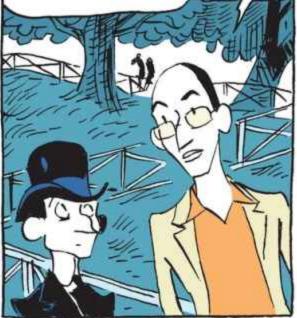


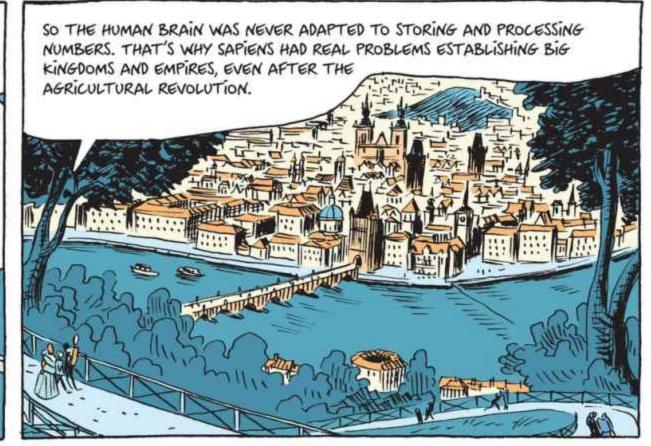


FORAGERS NEVER NEEDED TO REMEMBER OR PROCESS LARGE AMOUNTS OF MATHEMATICAL DATA!

> YOU SEE, A FORAGER DIDN'T NEED TO REMEMBER EXACTLY HOW MANY APPLES OR NUTS WERE ON EACH TREE IN THE FOREST.

TO ACHIEVE THAT, THEY HAD TO FIND A SYSTEM FOR RECORDING AND PROCESSING LARGE AMOUNTS OF MATHEMATICAL DATA.

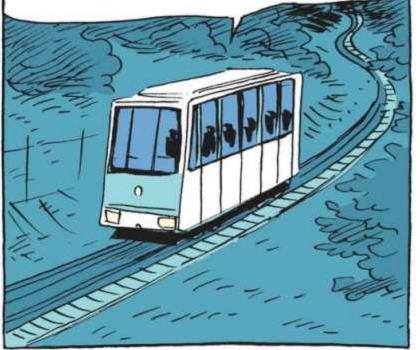




TELLING STORIES ABOUT GODS WAS NO LONGER ENOUGH. SURE, A GOOD STORY COULD HELP CONVINCE MILLIONS OF PEOPLE TO PAY THEIR TAXES MORE OR LESS HONESTLY. BUT FOR THE FISCAL SYSTEM TO WORK, IT NEEDED TO GATHER AND PROCESS ENDLESS INFORMATION ABOUT PEOPLES' INCOMES AND ASSETS, THEIR PAYMENTS, ARREARS, DEBTS AND FINES, AND THEIR DISCOUNTS AND EXEMPTIONS.



IF A STATE COULDN'T STORE AND PROCESS ALL THOSE NUMBERS, IT COULDN'T MAKE THE MOST OF ITS RESOURCES, OR EVEN KNOW WHAT ITS RESOURCES WERE!



AND THERE'S ONE BIG PROBLEM WITH NUMBERS-MOST PEOPLE THINK THEY'RE TERRIBLY BORING! IF YOU ASK PEOPLE TO STORE, RECALL AND

PROCESS LOTS OF NUMBERS, MOST OF THEM GIVE UP OR THEIR BRAINS SWITCH OFF ALTOGETHER!





HUMAN MENTAL LIMITATIONS HAD A DIRECT IMPACT ON THE SIZE AND COMPLEXITY OF SOCIETIES. WHEN THE NUMBER OF PEOPLE AND ACCUMULATED ASSETS WENT BEYOND A CRITICAL THRESHOLD, THERE WAS JUST TOO MUCH INFORMATION TO REMEMBER.



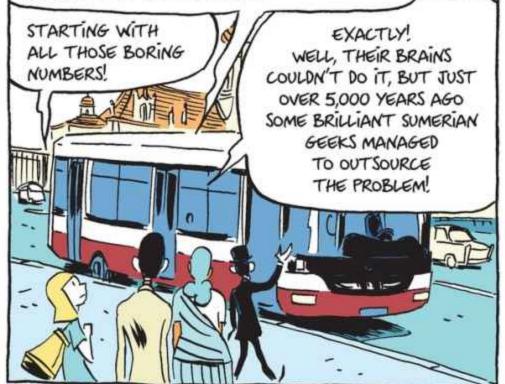
THE SUMERIANS IN SOUTHERN MESOPOTAMIA WERE THE FIRST TO CRACK THE PROBLEM. THE FERTILE SOIL OF SUMER GAVE THEM ABUNDANT HARVESTS, SO THE POPULATION KEPT ON GROWING AND REAL CITIES STARTED TO APPEAR.



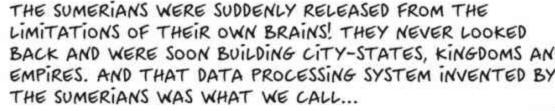
THE LIMITED HUMAN BRAIN COULDN'T COPE WITH ALL THE DATA SO THE SYSTEM COLLAPSED. THAT'S WHY HUMAN COMMUNITIES STAYED RELATIVELY SMALL AND SIMPLE FOR THOUSANDS OF YEARS AFTER THE AGRICULTURAL REVOLUTION!

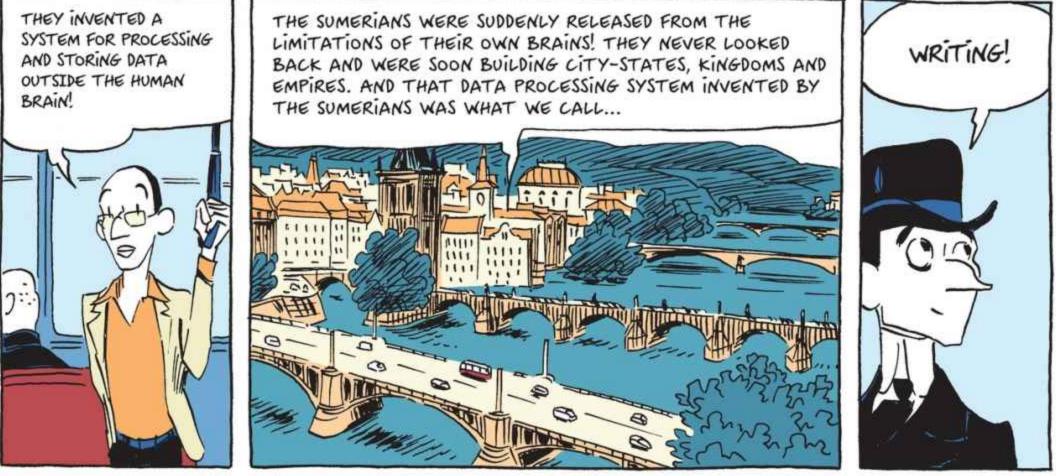


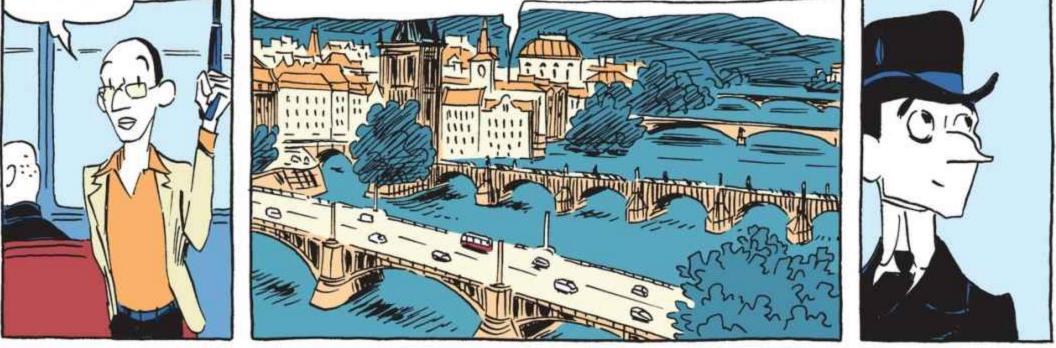
BUT TO KEEP THEIR CITY-STATES GOING, THE SUMERIANS HAD TO PROCESS INCREASINGLY LARGE AMOUNTS OF INFORMATION.



THEY INVENTED A AND STORING DATA OUTSIDE THE HUMAN BRAIN!







AAAH... ALL THOSE LITTLE DOODLES GOVERNING THE WORLD AND MAKING US FOLLOW LAWS... IT ALL STARTED WITH THOSE SUMERIAN, ERM, GEEKS.



IT WAS THEIR IDEA TO WRITE DOWN INFORMATION BY IMPRINTING SIGNS ONTO CLAY TABLETS. EXTRAORDINARY, REALLY—PROBLEMS THAT HUMAN BRAIN CELLS COULDN'T HANDLE WERE SOLVED WITH WHAT AMOUNTED TO LUMPS OF MUD!



ONE SET OF SIGNS REPRESENTED NUMBERS, WITH SIGNS FOR 1, 10, 60, 600, 3,600 AND 36,000. YOU SEE, THE SUMERIAN NUMBERING SYSTEM WAS A COMBINATION OF BASE 6 AND BASE 10.



WELL, NOT AS STRANGE AS YOU MIGHT THINK... THEIR BASE-6 SYSTEM HAS LEFT US SOME IMPORTANT LEGACIES: HOURS ARE DIVIDED INTO 60 MINUTES AND CIRCLES INTO 360 DEGREES....

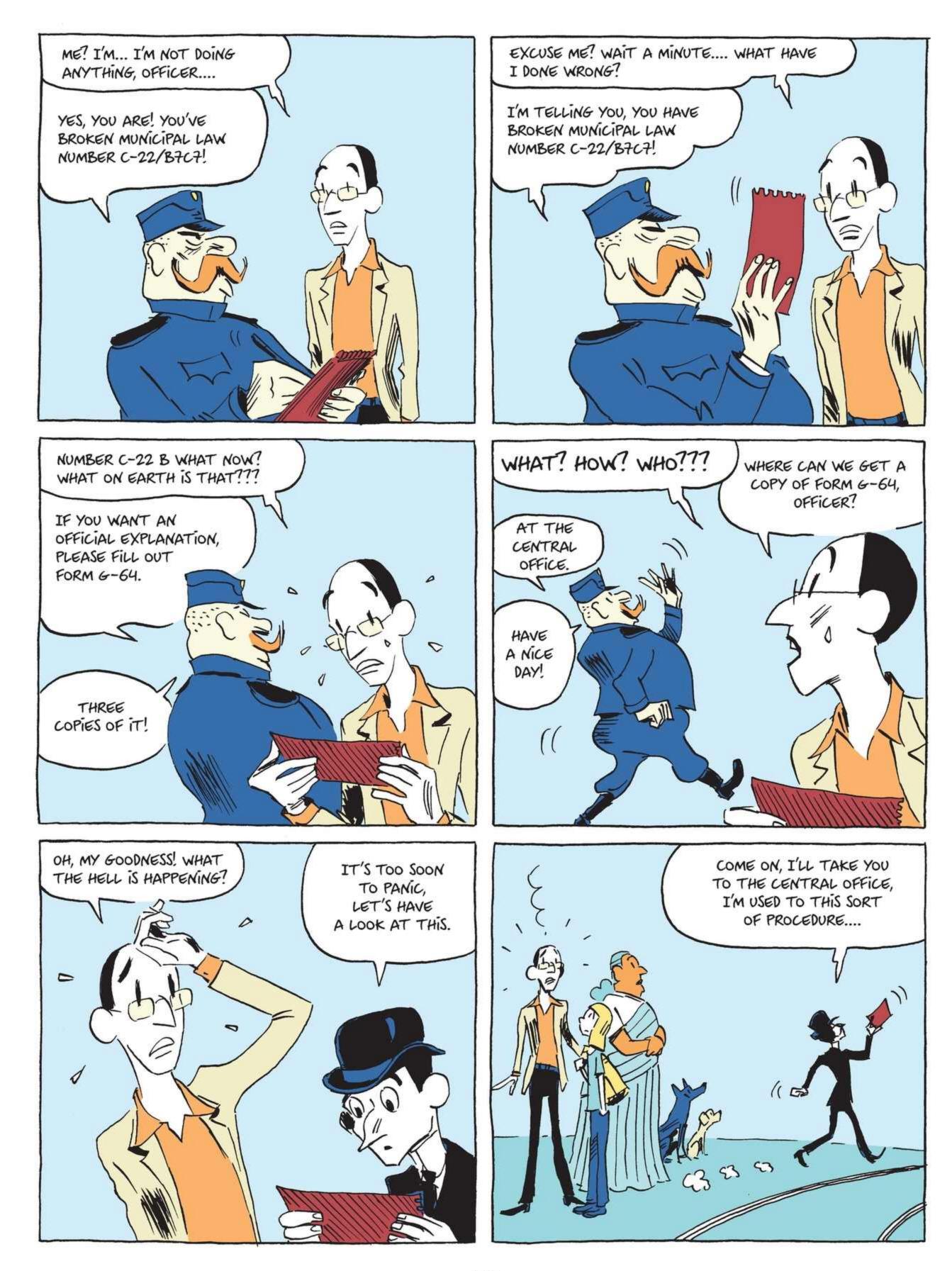
> THE OTHER SET OF SIGNS REPRESENTED PEOPLE, ANIMALS, GOODS, LAND AND DAYS... ANYTHING THAT CAN BE COUNTED.

E

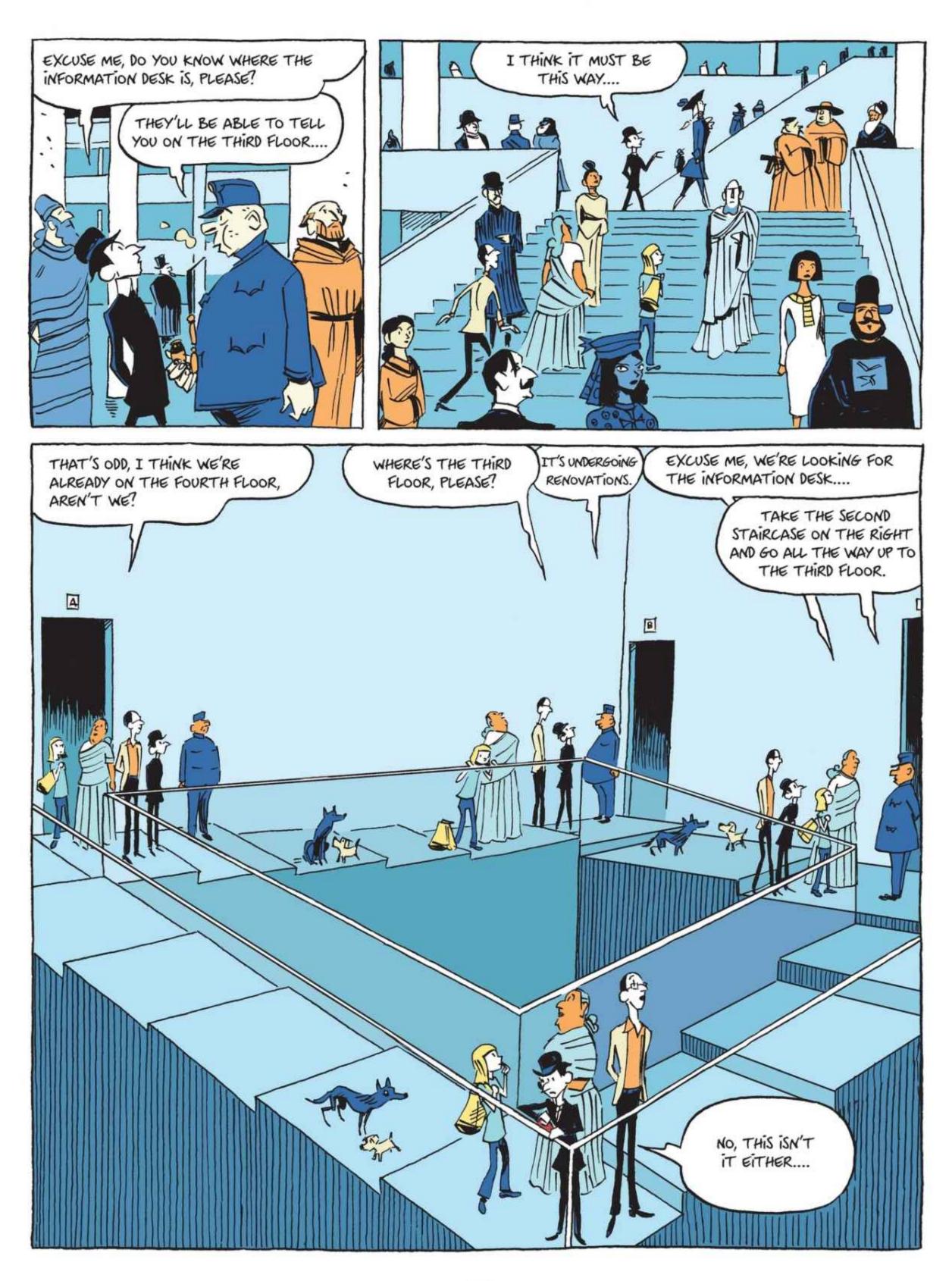




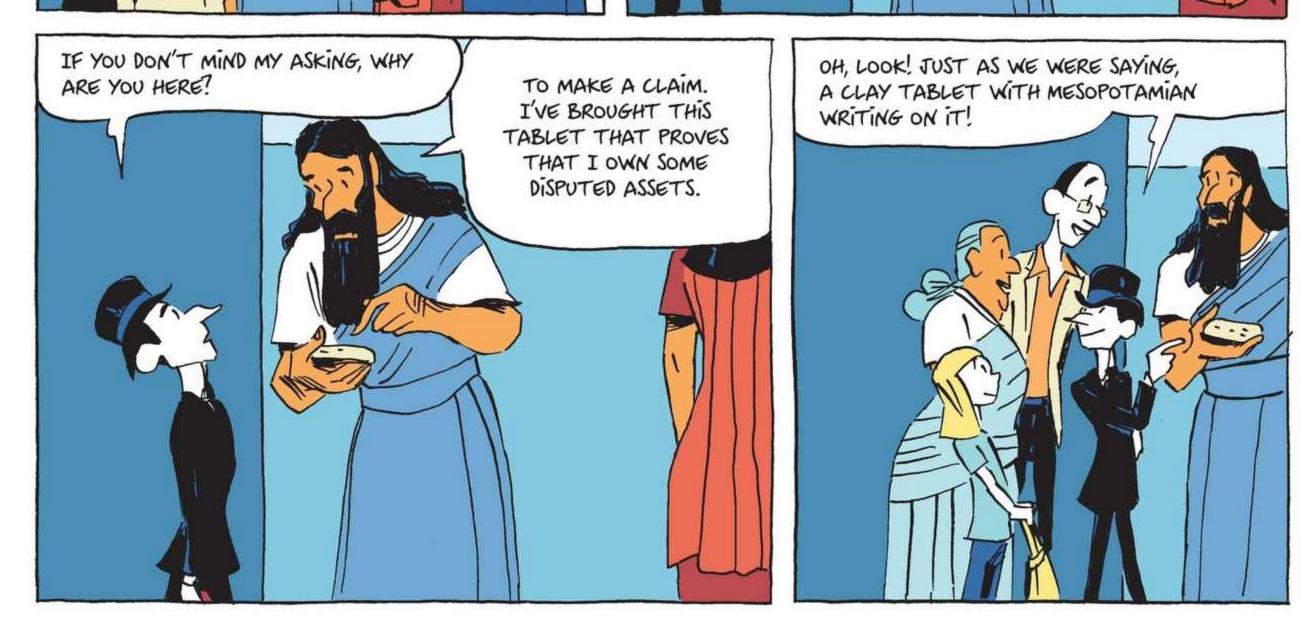


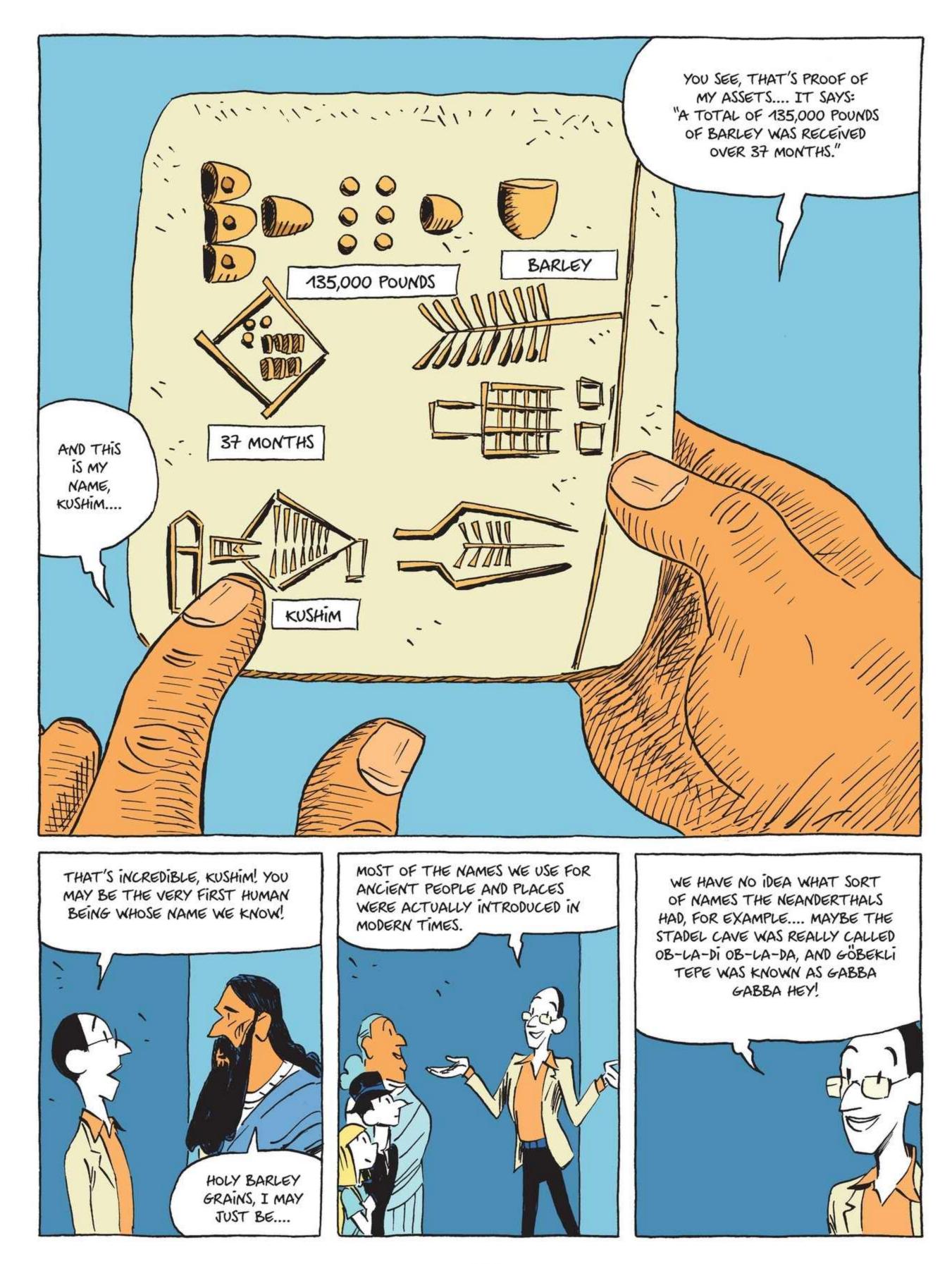


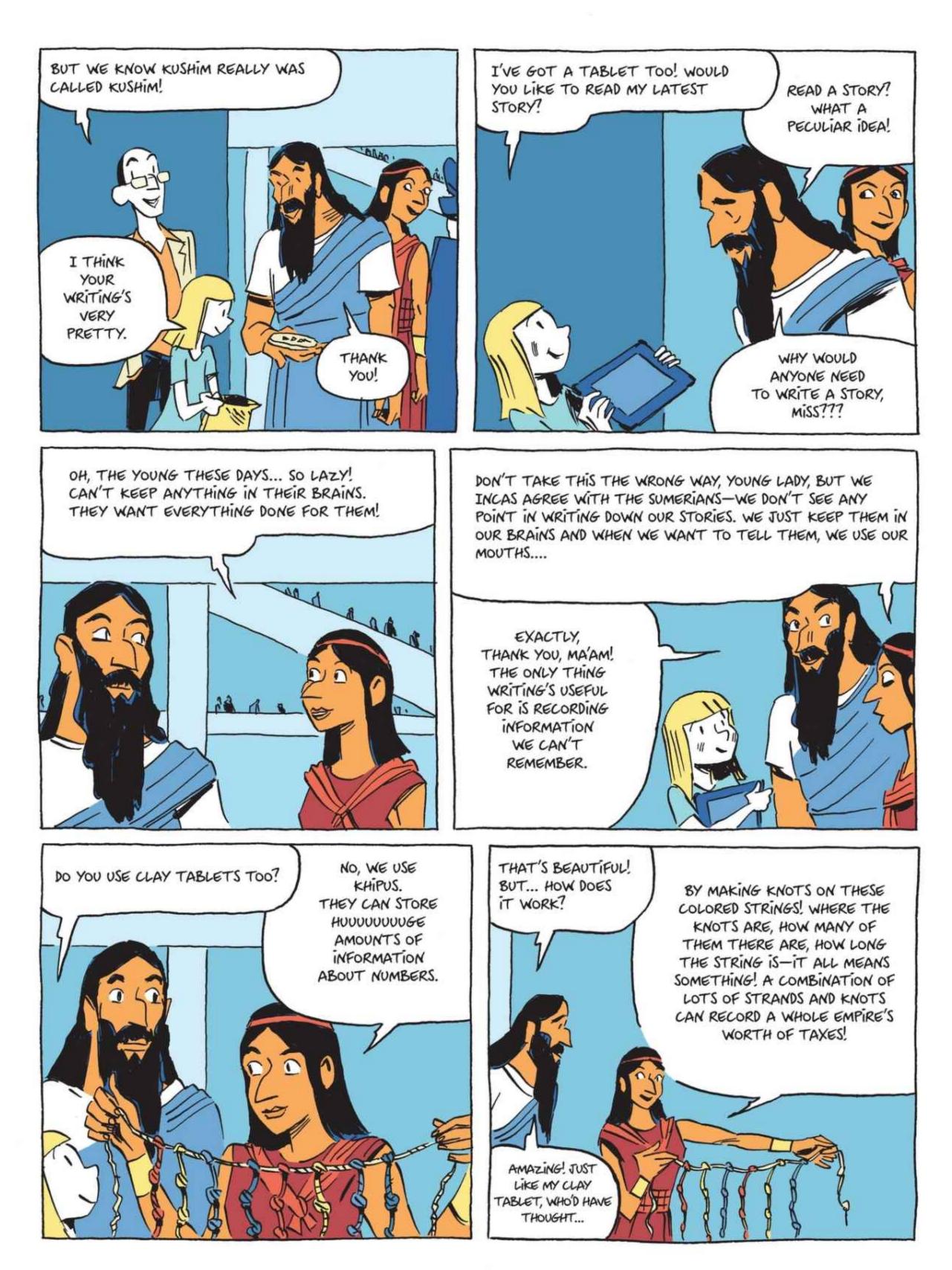


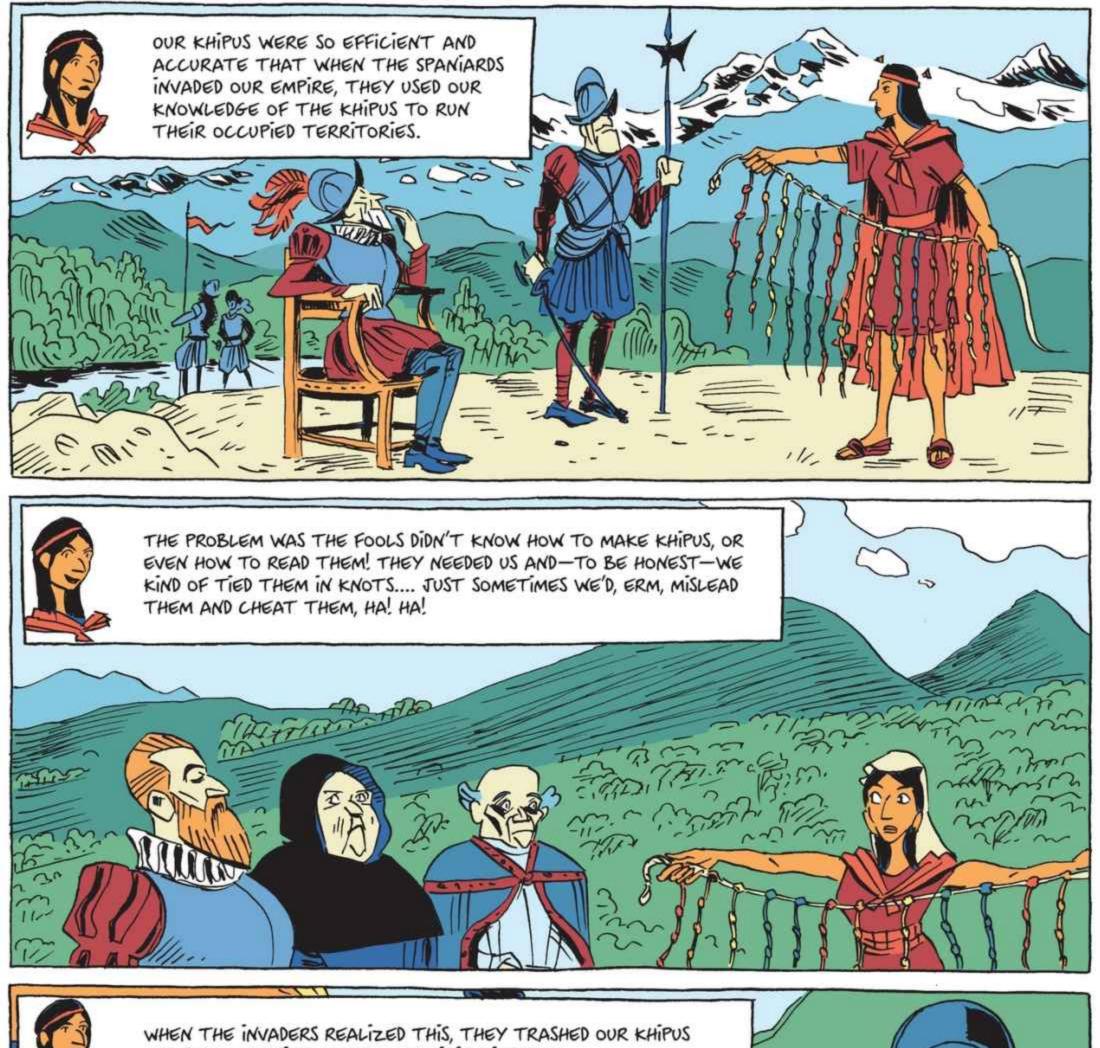






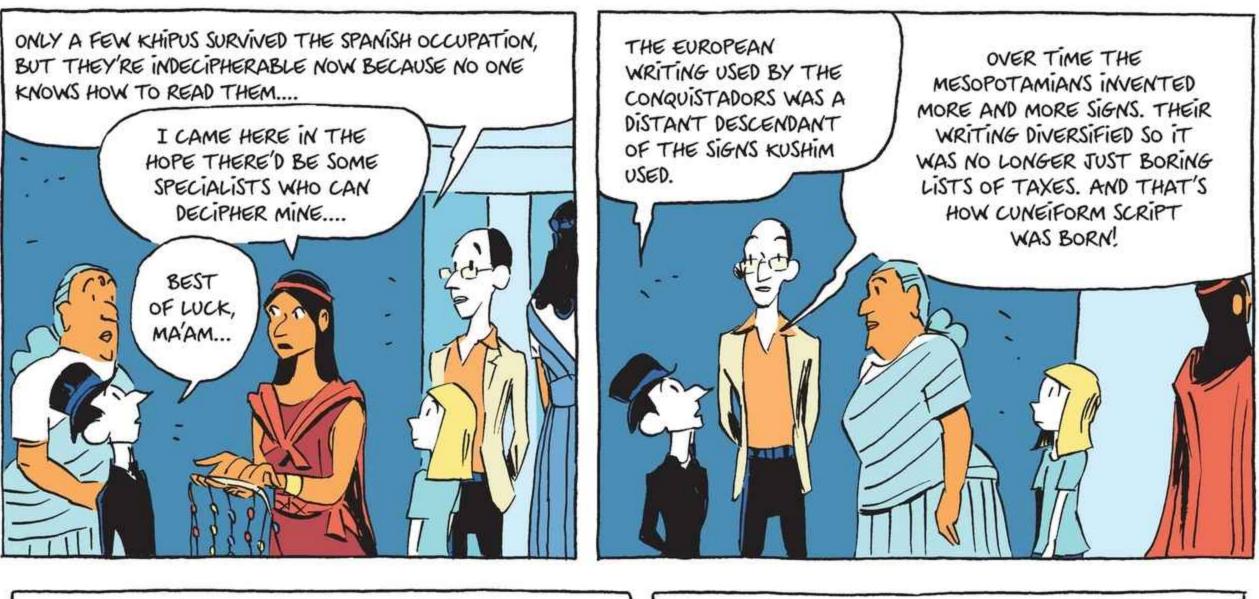






AND STARTED USING EUROPEAN WRITING INSTEAD.





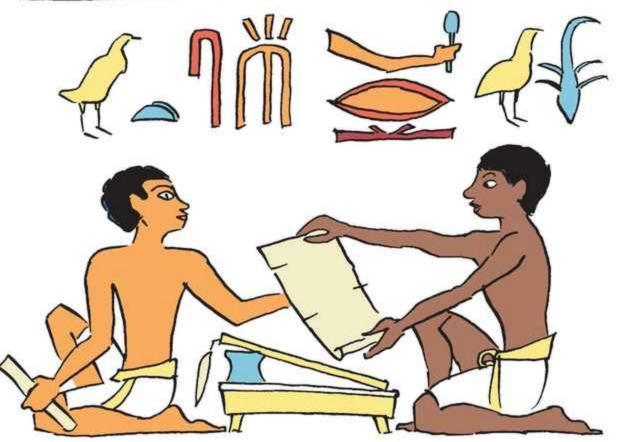


4,500 YEARS AGO, MESOPOTAMIAN KINGS USED CUNEIFORM TO ISSUE DECREES... PRIESTS USED IT TO RECORD ORACLES, THERE WERE EVEN SOME HIGHBORN CITIZENS WHO USED IT TO WRITE LETTERS!



MEANWHILE, THE EGYPTIANS WERE FINE-TUNING A DIFFERENT TYPE OF WRITING—HIEROGLYPHICS!









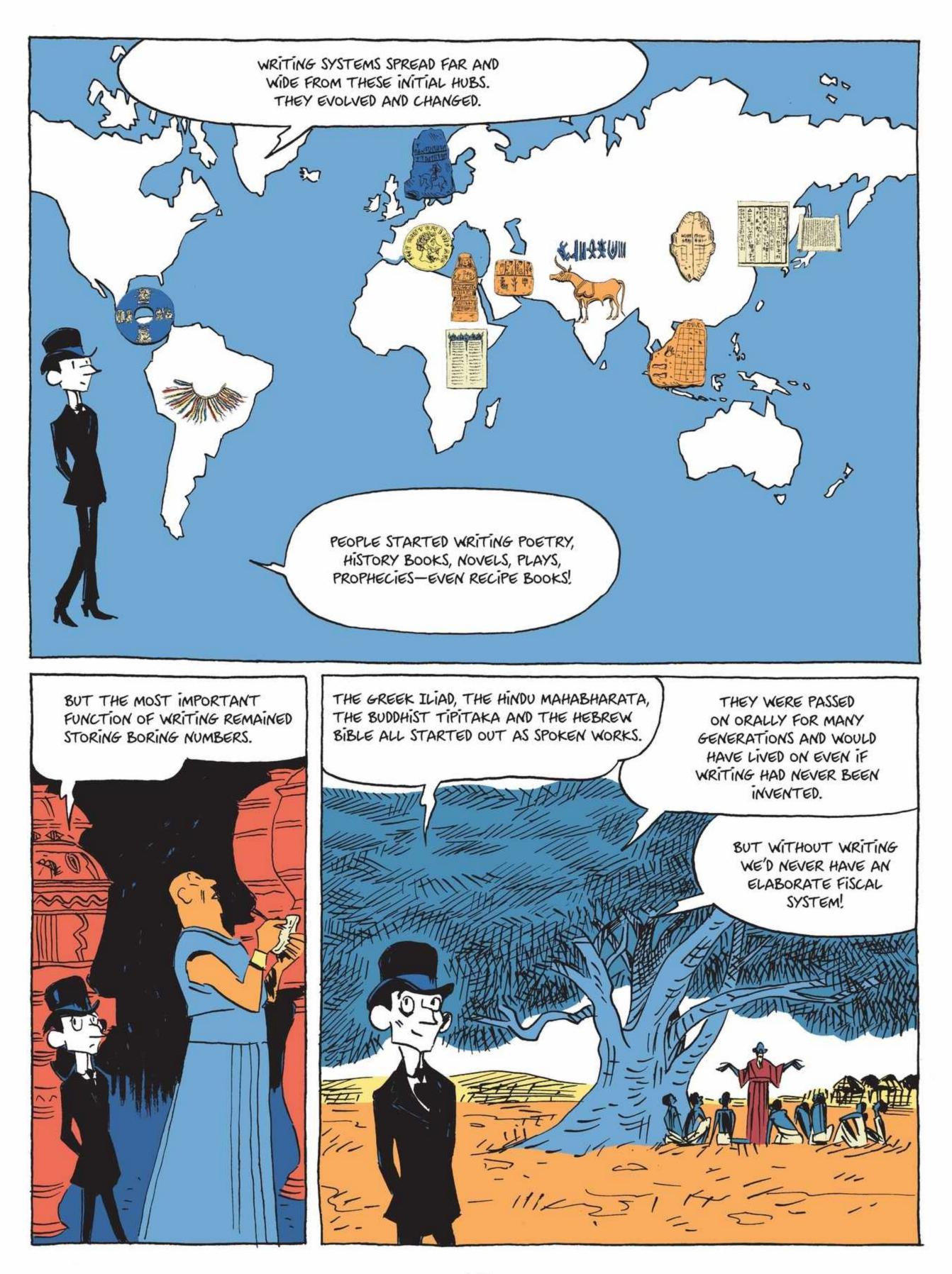
BY 3,000 YEARS AGO, THE CHINESE WERE DEVELOPING THEIR REMARKABLE WRITING SYSTEM....

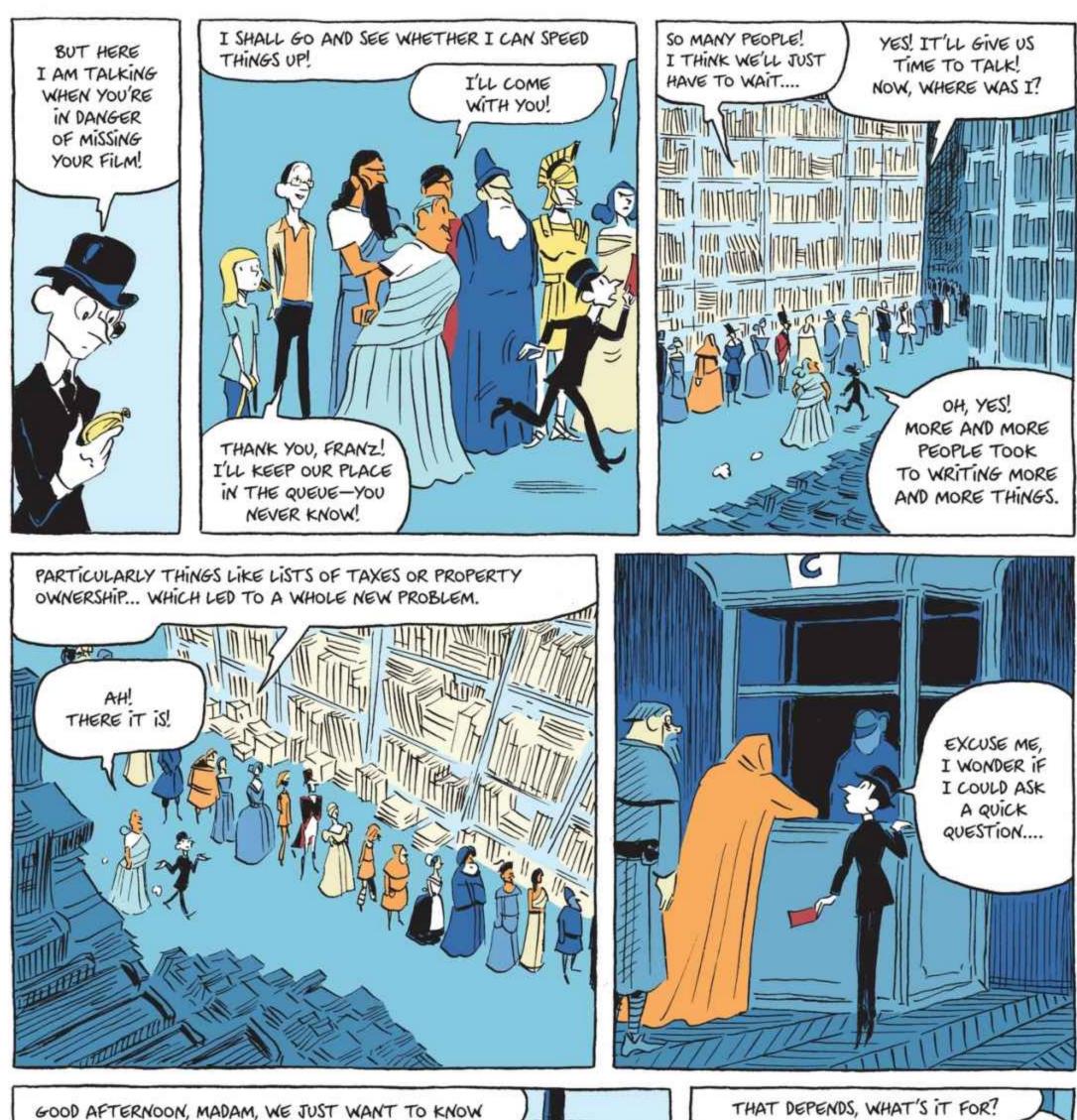




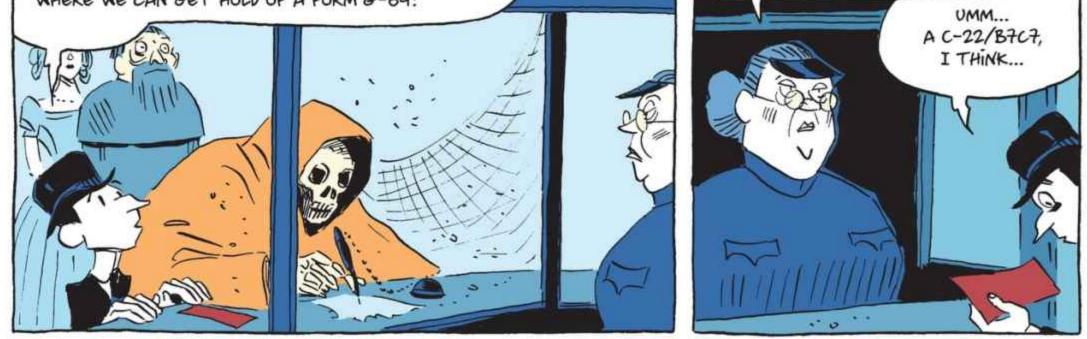
AND SOME CENTURIES LATER, A COMPLETELY DIFFERENT KIND OF WRITING WAS INVENTED IN CENTRAL AMERICA!



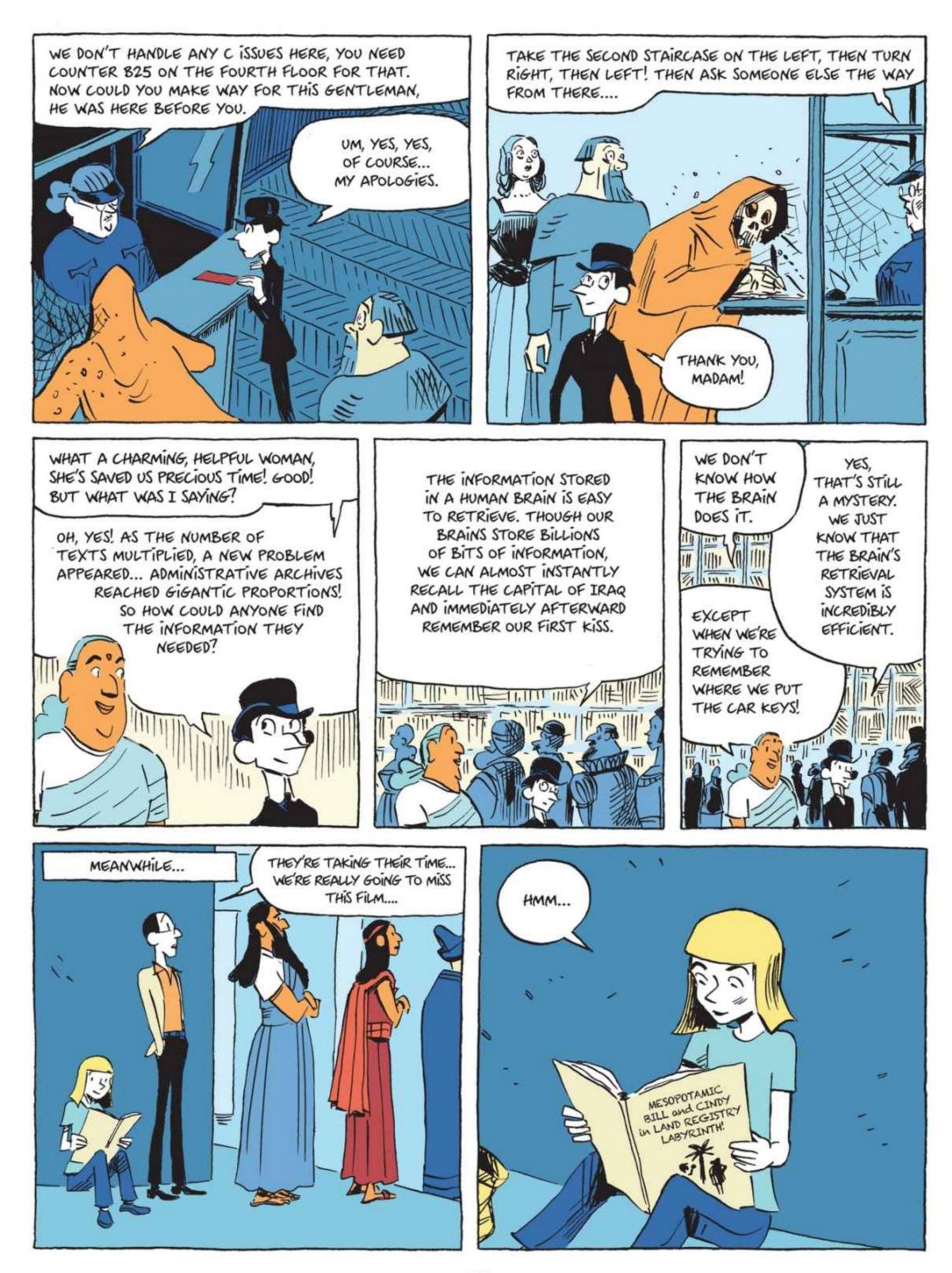


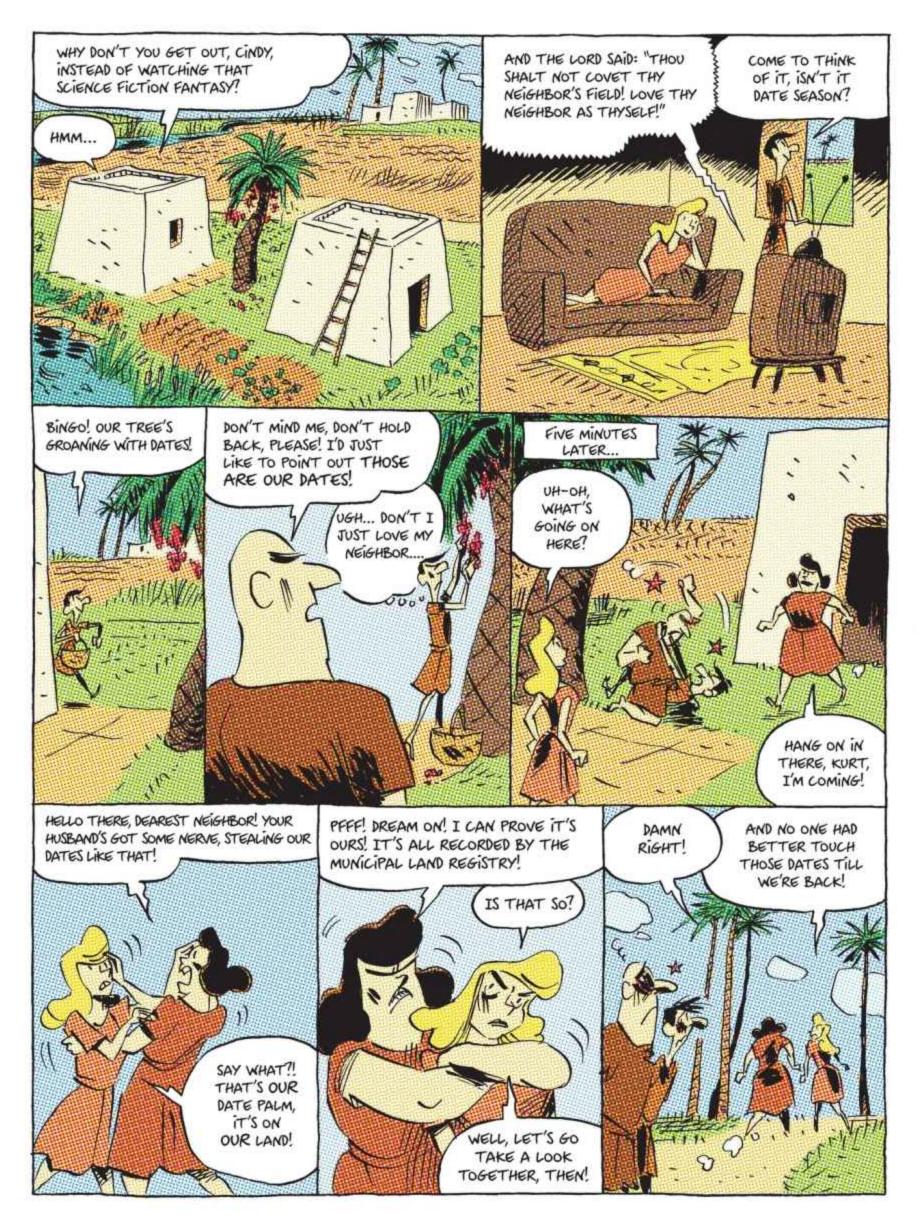


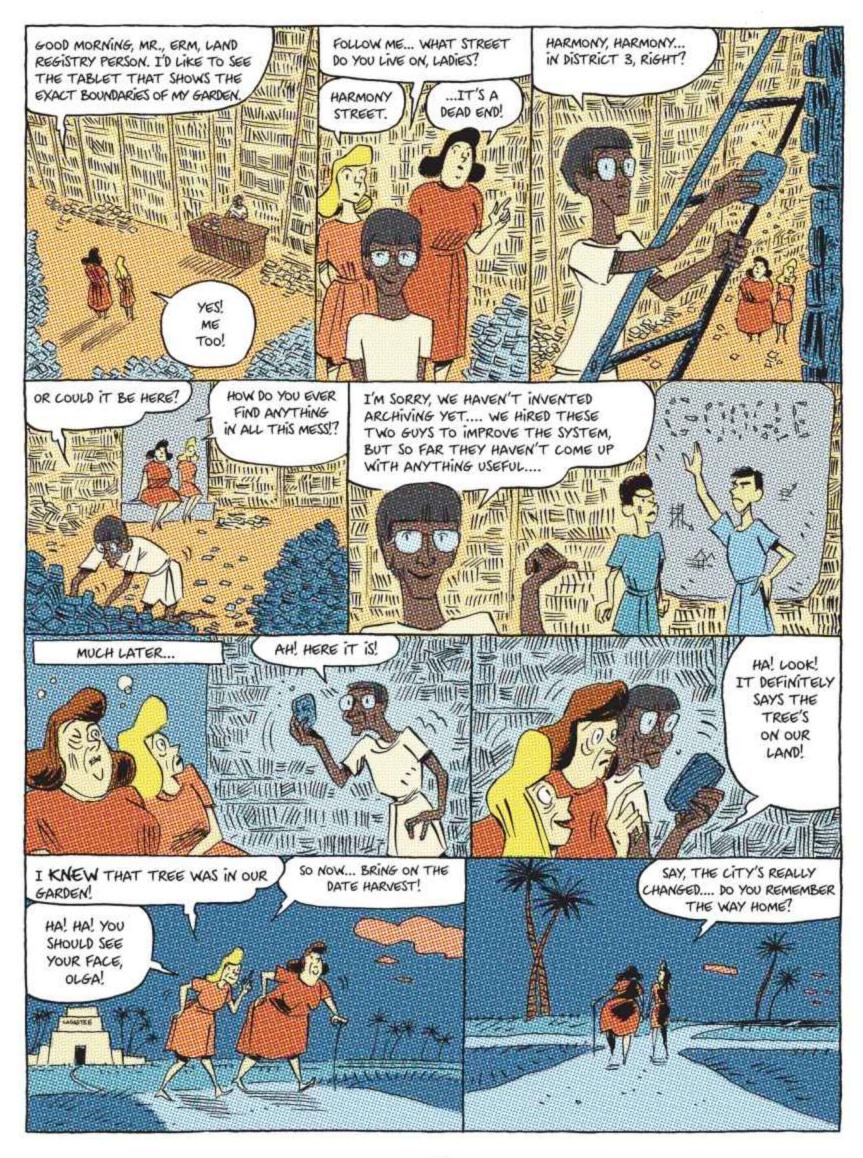
WHERE WE CAN GET HOLD OF A FORM 6-64?

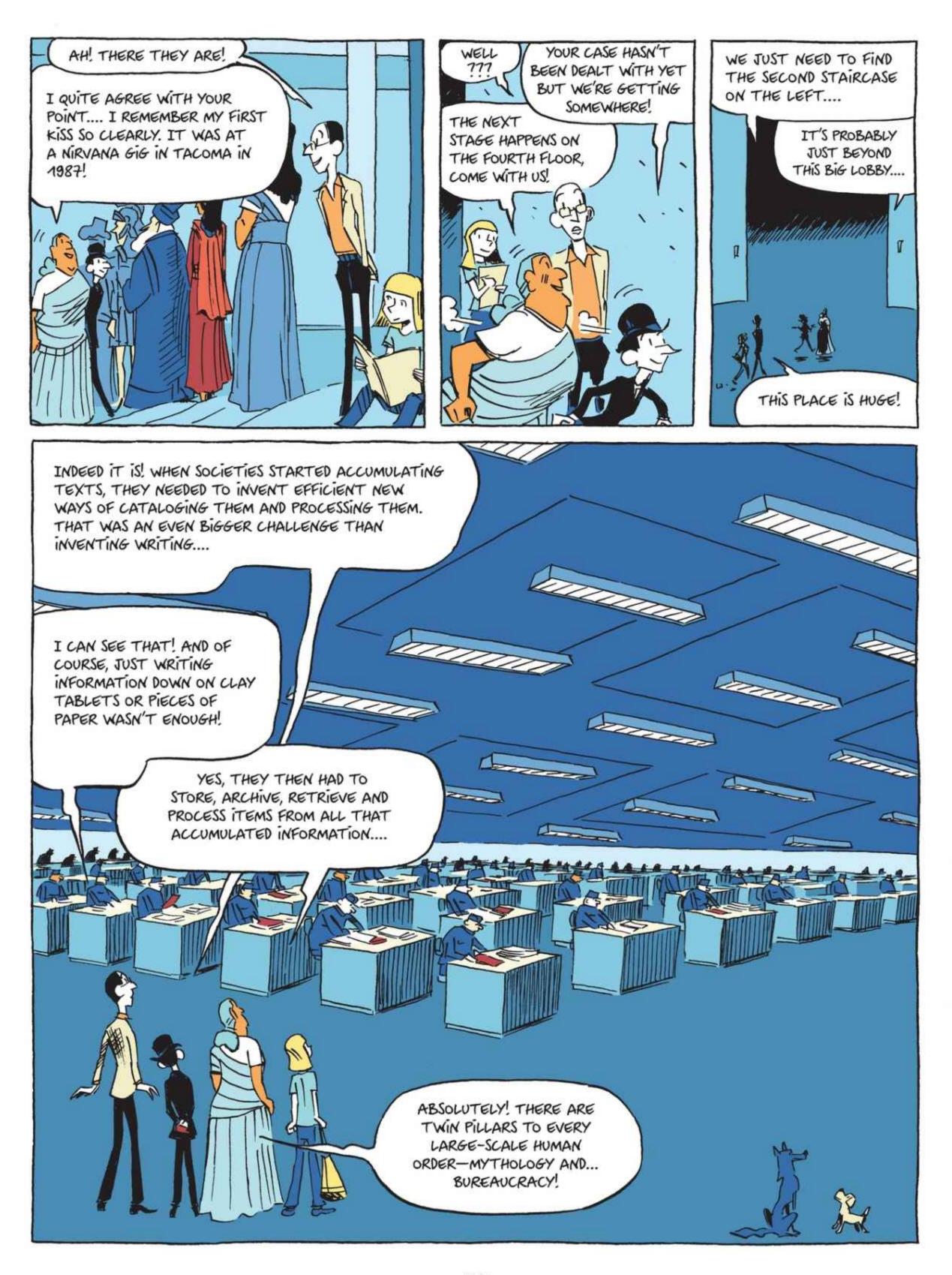




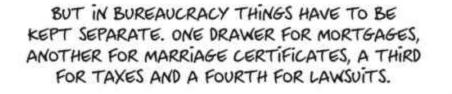












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OTHERWISE, HOW WOULD YOU EVER FIND ANYTHING? THINGS THAT BELONG IN MORE THAN ONE DRAWER, LIKE A LAWSUIT ABOUT TAXATION, ARE A TERRIBLE HEADACHE! SHOULD THE DOCUMENTS BE FILED UNDER "LAWSUITS" OR UNDER "TAXES," OR DOES IT NEED A WHOLE NEW CATEGORY?

SO THE DRAWERS ARE FOREVER BEING ADDED TO AND REORGANIZED.

FOR THE SYSTEM TO WORK, THE PEOPLE WHO OPERATE THESE DRAWERS NEED TO BE REPROGRAMMED TO STOP THINKING LIKE HUMANS AND START THINKING LIKE CLERKS AND ACCOUNTANTS.

> AND EVERYONE FROM ANCIENT TIMES RIGHT UP TO TODAY KNOWS: CLERKS AND ACCOUNTANTS AREN'T ALLOWED TO THINK LIKE HUMANS!

AND HERE'S THE GREATEST IMPACT THAT WRITING HAD ON HUMAN HISTORY: IT GRADUALLY CHANGED THE WAY HUMANS SAW THE WORLD AND

TO DO THEIR JOB, THEY NEED TO THINK LIKE FILING CABINETS!!

Anton

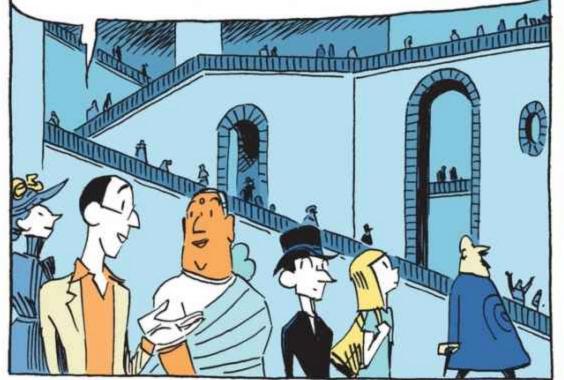
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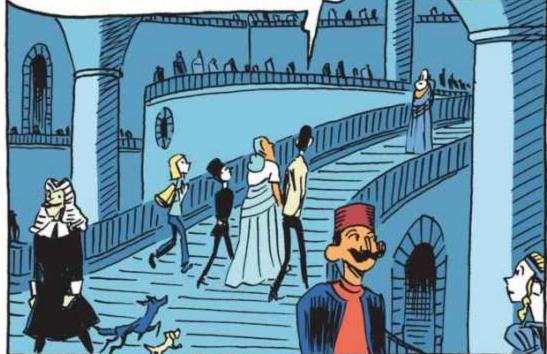
NTRACES.

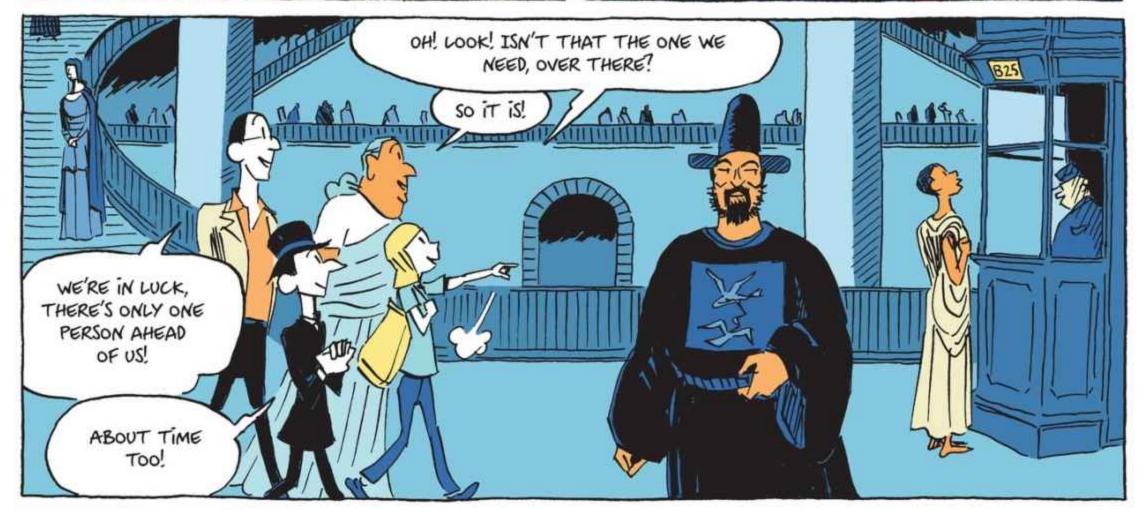


OVER THE CENTURIES, METHODS OF BUREAUCRATIC DATA PROCESSING GREW EVER MORE DIFFERENT FROM THE WAY HUMANS NATURALLY THINK-AND EVER MORE IMPORTANT, OF COURSE ....



ONE PARTICULARLY MOMENTOUS SHIFT BEGAN SOME TIME BEFORE THE NINTH CENTURY CE, WHEN A NEW SCRIPT WAS INVENTED - A WONDER SCRIPT THAT COULD STORE AND PROCESS MATHEMATICAL DATA MORE EFFICIENTLY THAN ANYTHING THAT HAD COME BEFORE.





WAS EVEN SIMPLER THAN KUSHIM'S SCRIPT. IT COULDN'T BE USED TO WRITE HISTORY, POETRY, COOKERY BOOKS OR LAWS. IT HAD ONLY ONE TYPE OF SYMBOLS ...





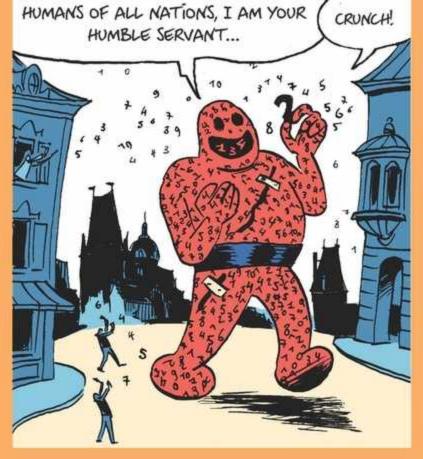
# PRAZEN

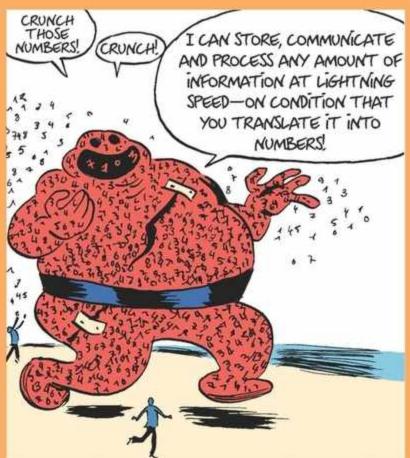
ON TV1 at 8 pm | SERIES \*\*\*

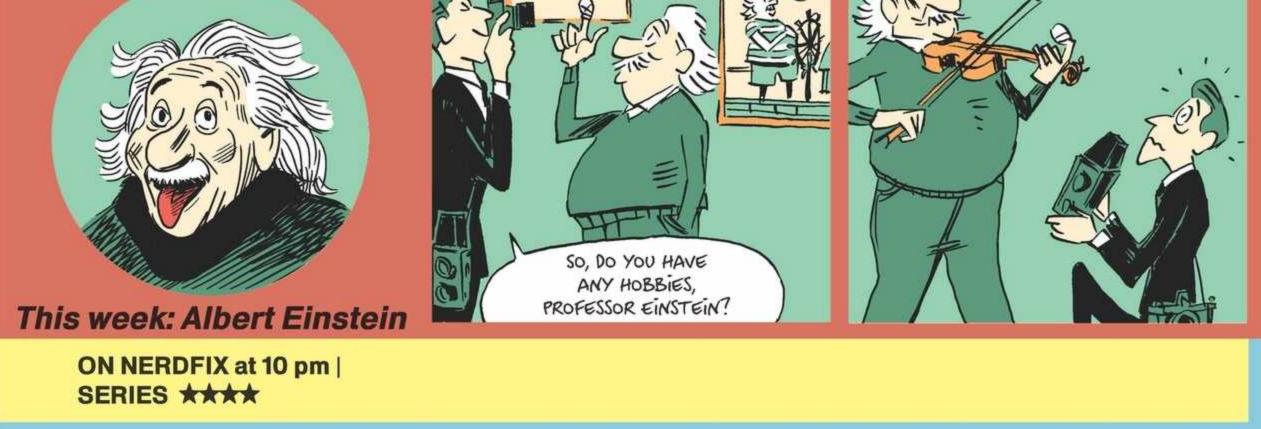
## **THE NUMBER GOLEM** The servant that enslaved its masters!

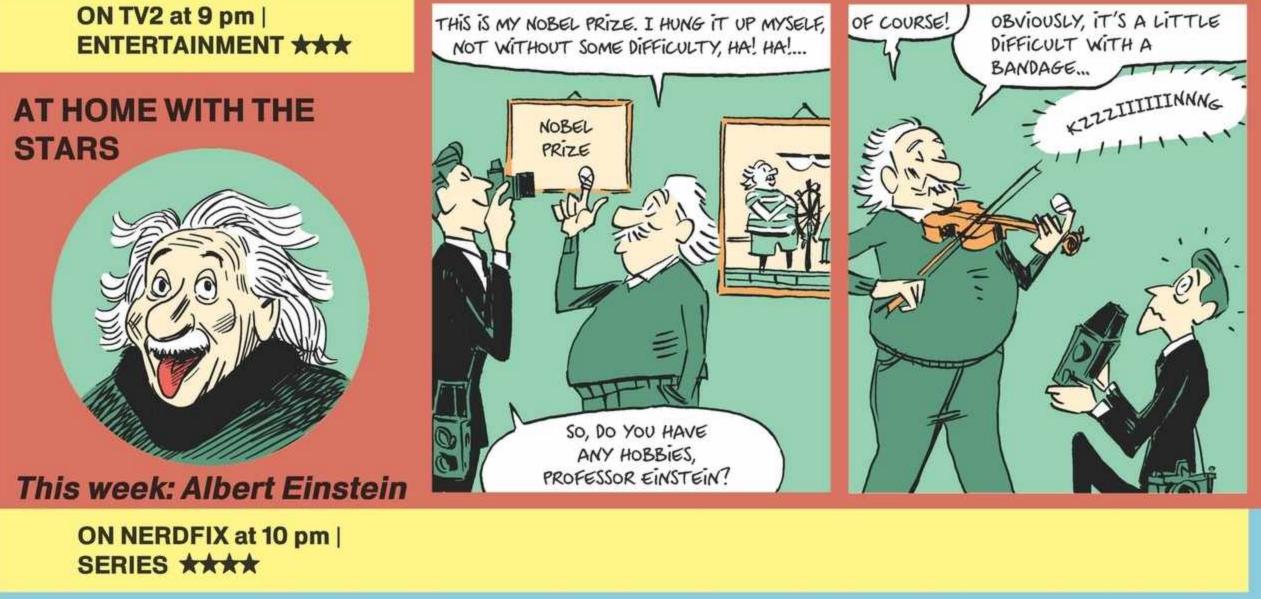
### **Recap of season 1**

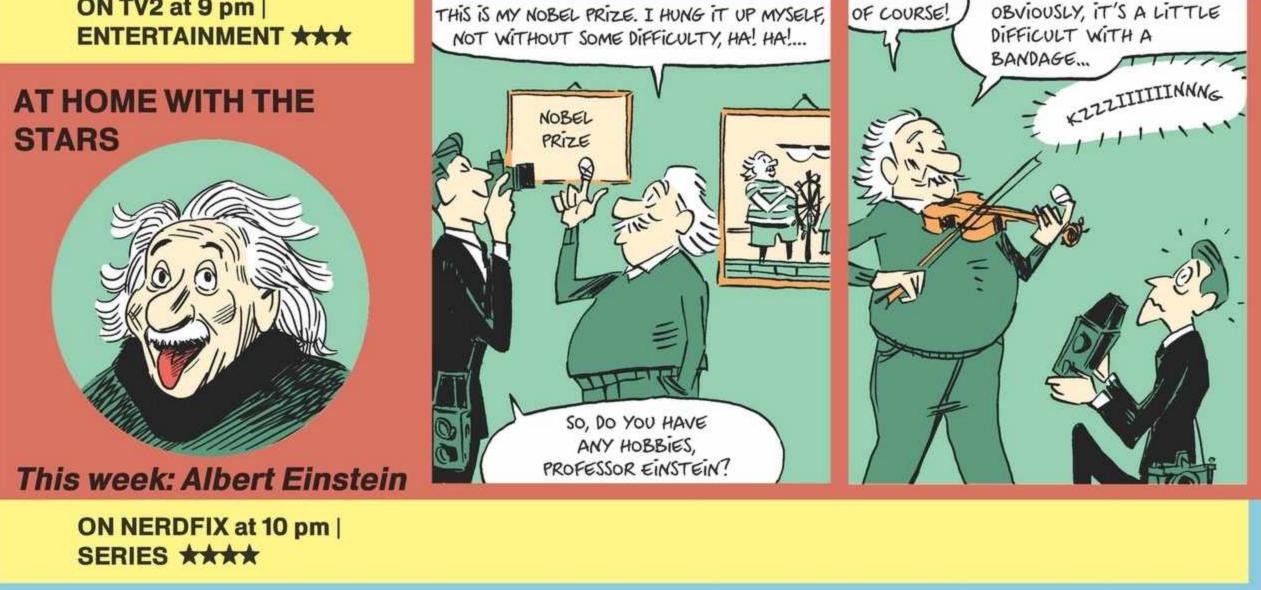
Its language is made up of just ten little signs but it has mesmerized humans the world over! Whether they speak Arabic, Hindi, English or Norwegian, almost all countries, businesses and organizations have turned to Number Golem to record and process their data!











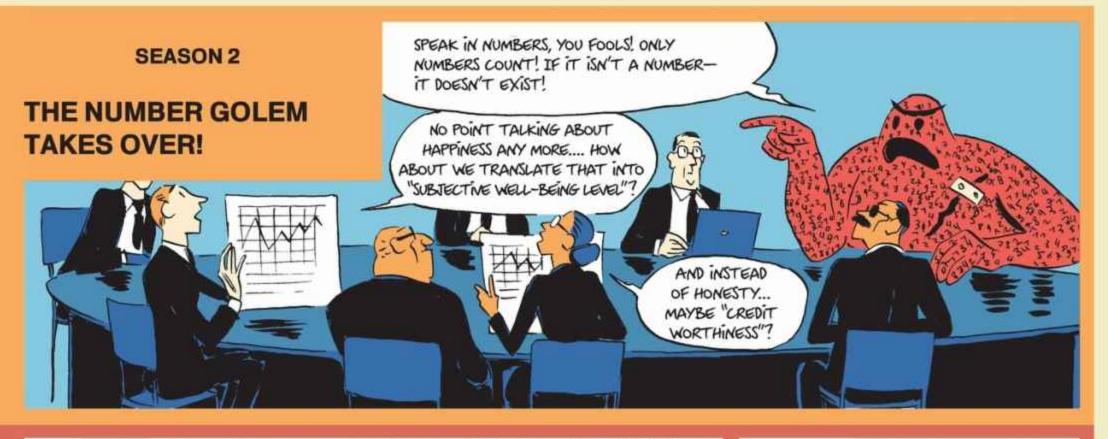
### **THE PRISONERS OF 01**

The chart-topping Prisoners of 01 is the science fiction hit that's making waves! Imagine a world where computers have overtaken humans in the very field that allowed Homo Sapiens to become masters of the world: Intelligence and communication!

It all started in the Euphrates Valley 5,000 years ago when Sumerian geeks outsourced data-processing from the human brain to clay tablets. In a mysterious village in Silicon Valley, this process reaches its peak thanks to a far more elaborate type of tablet.

Humans can no longer make sense of their world. Like Bill and Cindy, they've become prisoners of CLOUD\_01, a new world leader, a monstrous cloud made up of an incalculable succession of zeros and ones!

## **Exagazía** N° 1010 / Week of October 10



APART FROM THAT, I LIKE RELAXING

MOST PEOPLE PANIC OR FREEZE WHEN THEY SEE EQUATIONS LIKE THIS. THIS ISN'T DUE TO A LACK OF CURIOSITY OR INTELLIGENCE.

AND WATCHING A GOOD SERIES IN THE EVENING, I LOVE PRISONERS OF 01, DO YOU RAIIIAIIIK THE HUMAN BRAIN NEVER KNOW IT? Tw EVOLVED TO UNDERSTAND THE CONCEPTS OF D'YOU LIKE YOUR TEA  $K_{ur} = \frac{1}{2} Rg_{ur}$ RELATIVITY OR QUANTUM NICE AND HOT? MECHANICS. I'VE MANAGED TO GRAPPLE WITH THEM BY USING COMPLEX MATH ... AND BASICALLY OUTSOURCING SOME OF MY THOUGHT PROCESSES TO THIS BLACKBOARD! LIKE COUNTLESS OTHERS, BILL AND CINDY SOMETIMES I SAY 1 WE'RE NOT NUMBERS! SAPIENS ARE HELD IN VILLAGE O1 BY A AND SOMETIMES I SAY O ... MYSTERIOUS BIPOLAR CLOUD!







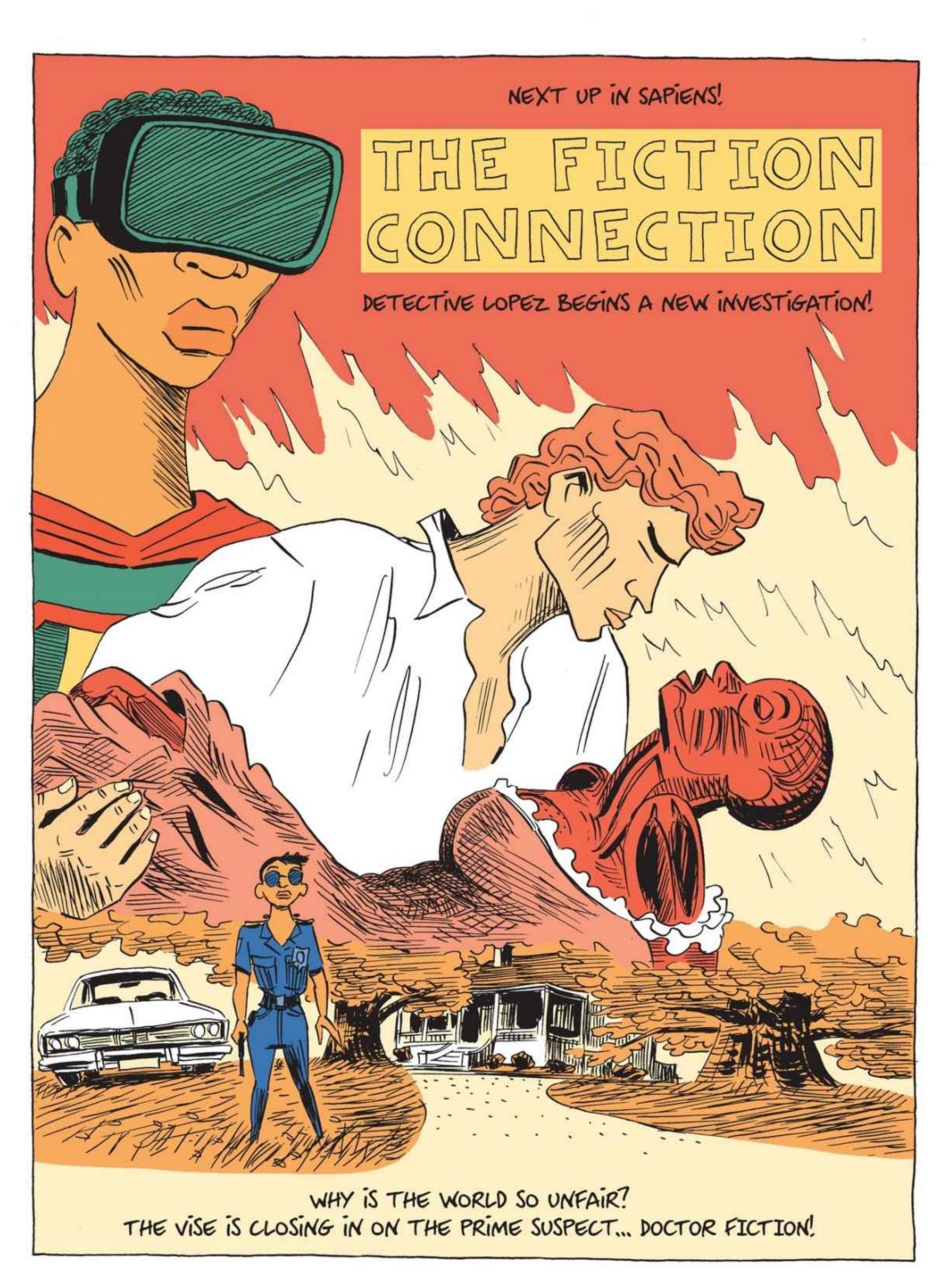




OVER THE WORLD. HUMANS TRY TO STOP THESE BINARY MONSTERS, BUT THE LONG LINES OF CODE HAVE OTHER IDEAS AND WIPE OUT ALMOST THE ENTIRE HUMAN RACE....

## TERMINATOR 17 TWILIGHT OF THE SAPIENS





THE CABINET OF DOCTOR FICTION



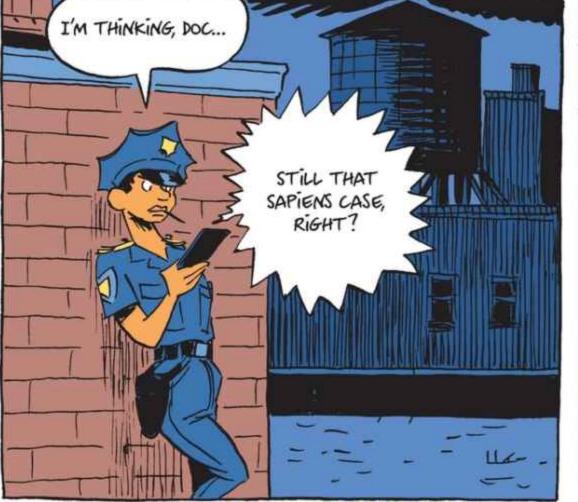












THIS CASE A LIMITTLE TOO QUICKLY .... I WAS HOW D'YOU WONDERING ... FEEL ABOUT TALKING IT OVER TONIGHT ?

EVERYTHING ABOUT ME! ... I JUST THINK WE GAVE UP ON









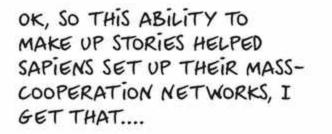
IT'S OK, I KNOW WHAT YOU'RE GONNA SAY .... THEY COULD DO IT 'CAUSE THEY HAD THESE IMAGINARY ORDERS AND THEY INVENTED WRITING... MYTHOLOGY AND BUREAUCRACY....



BUT THAT'S WHAT HAPPENED.... GOTTA SAY THAT, BIOLOGICALLY SPEAKING, SAPIENS WEREN'T EXACTLY EQUIPPED TO BE THE GREATEST COOPERATORS....



AREN'T REALLY CUTTING IT .... DON'T MESS WITH ME, DOC, I'M NOT IN THE MOOD!





...BUT IF YOU DIG A LITTLE DEEPER, IT'S OBVIOUS ALL THESE NETWORKS HAVE SOMETHING IN COMMON. THEY'RE NEVER FAIR!



I THOUGHT ABOUT ALL THIS A LOT, DOC. AT FIRST SIGHT, IT'S LIKE HUMANS INVENTED A WHOLE BUNCH OF VERY DIFFERENT STUFF. GODS, NATIONS, MONEY, YOU NAME IT. BUT TAKE A CLOSER LOOK... AND IT'S THE EXACT SAME THING AGAIN AND AGAIN-UNFAIR HIERARCHIES!



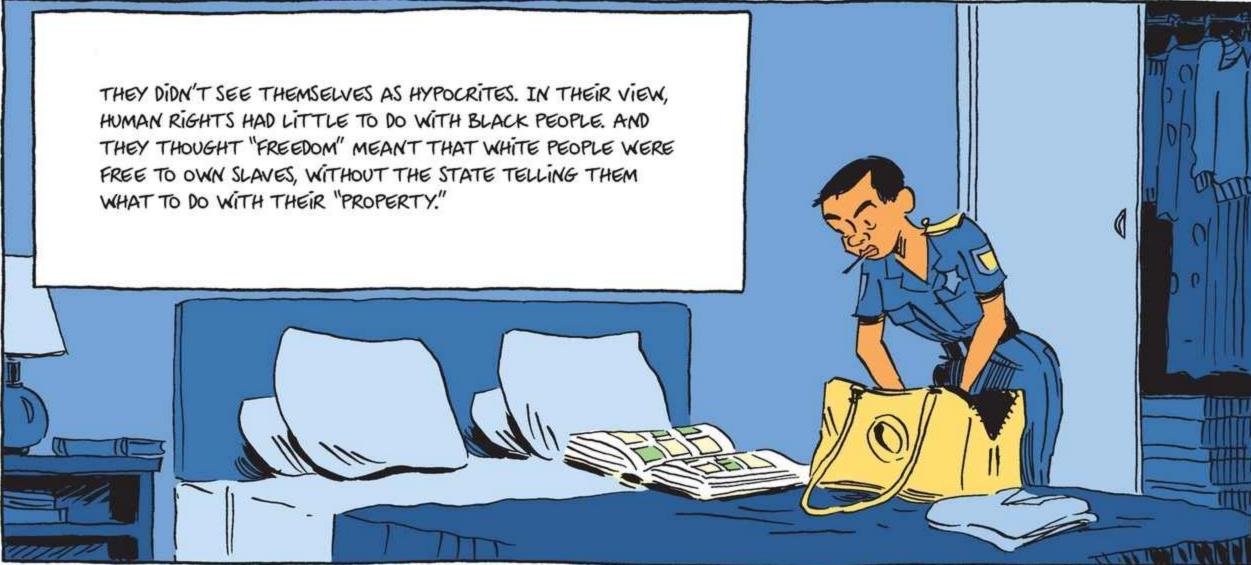
YOU KNOW EXACTLY WHAT I'M SAYING! WHAT THESE IMAGINED ORDERS MOSTLY DID IS GIVE POWER AND A TRUCKLOAD OF PRIVILEGE TO THE GUYS AT THE TOP OF THE HEAP! AND DUMPED DISCRIMINATION AND OPPRESSION ON THE SAPS AT THE BOTTOM!







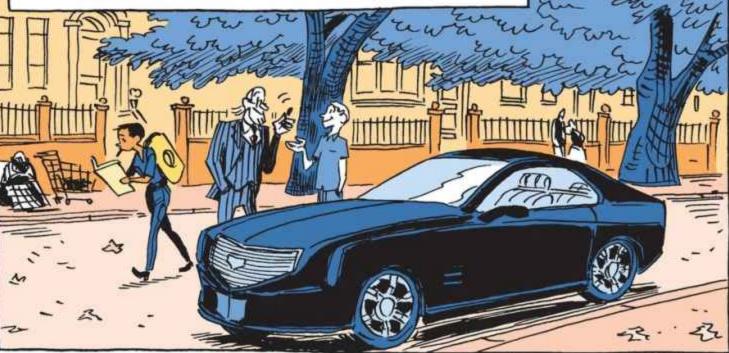




THE AMERICAN ORDER ALSO SANCTIONED THE HIERARCHY BETWEEN RICH AND POOR.



WEALTHY PARENTS TEND TO PASS ON THEIR MONEY AND BUSINESSES TO THEIR CHILDREN, AND TO THIS DAY, MANY AMERICANS SEE NOTHING SHOCKING ABOUT THE RESULTING INEQUALITY.



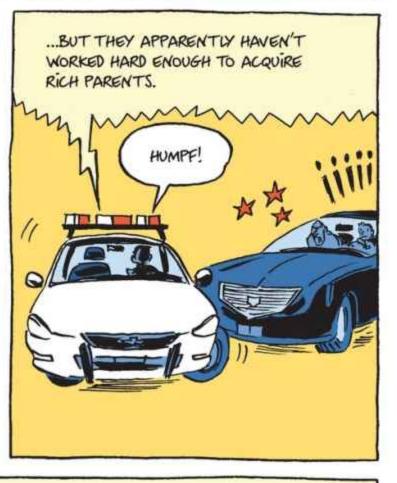
THE FACT THAT POOR KIDS GET WORSE EDUCATION, WORSE HEALTHCARE AND FAR FEWER OPPORTUNITIES IN LIFE SEEMS PERFECTLY FAIR.



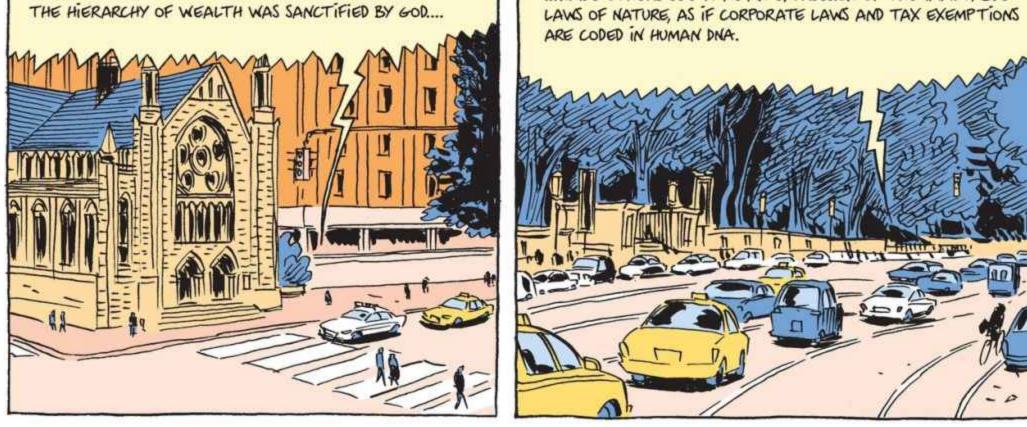
SOME AMERICANS CLING TO THE IDEA THAT

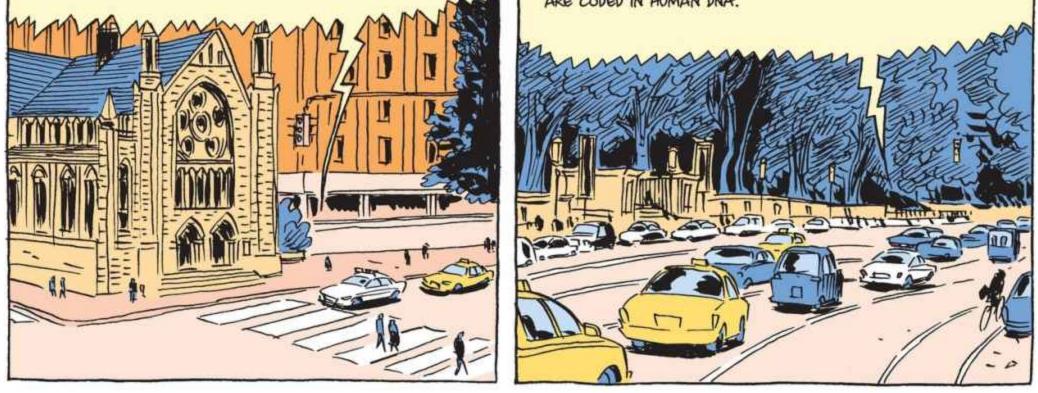
THESE KIDS MAY BE JUST AS TALENTED AND HARDWORKING AS THEIR RICH PEERS ...



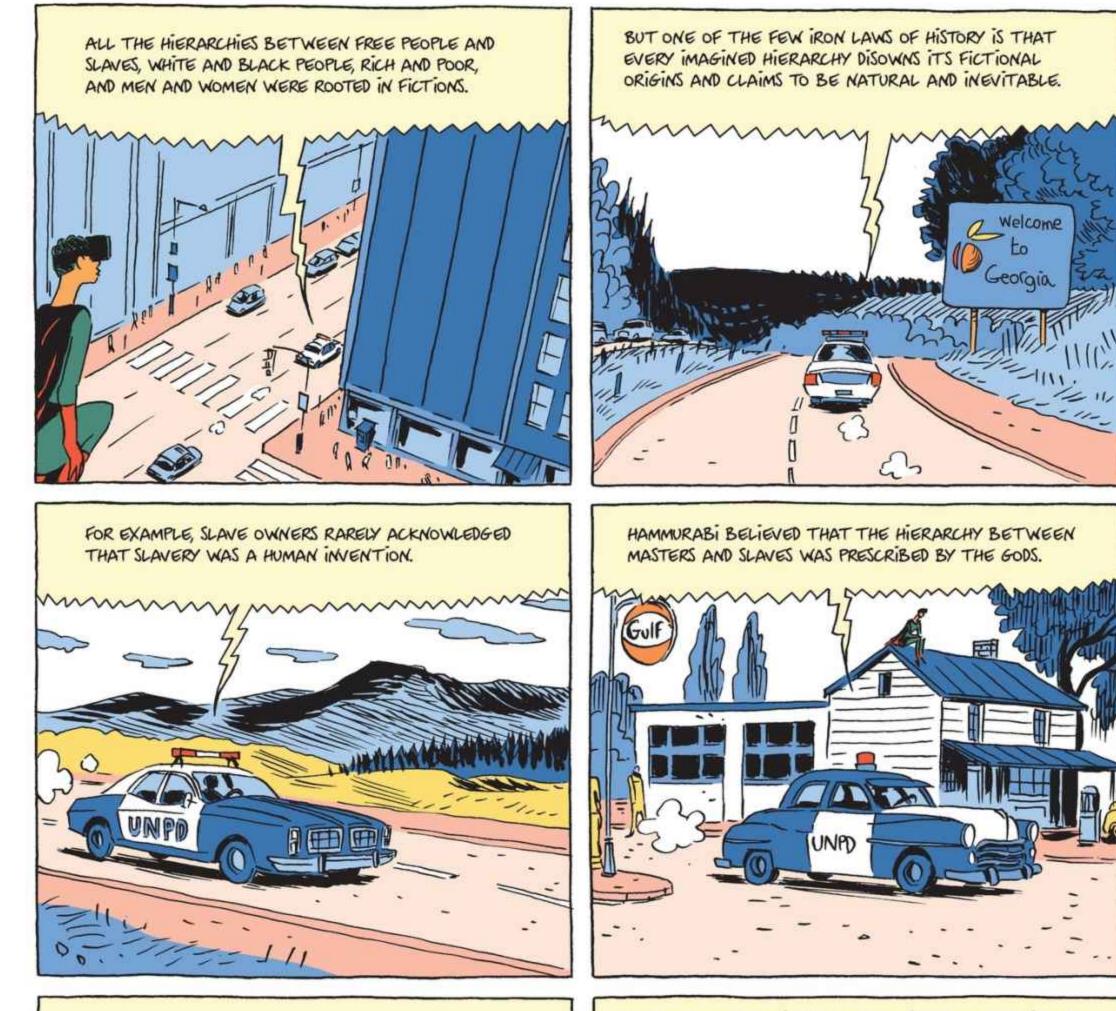


... WHILE OTHERS SEE IT AS AN EXPRESSION OF THE IMMUTABLE LAWS OF NATURE, AS IF CORPORATE LAWS AND TAX EXEMPTIONS

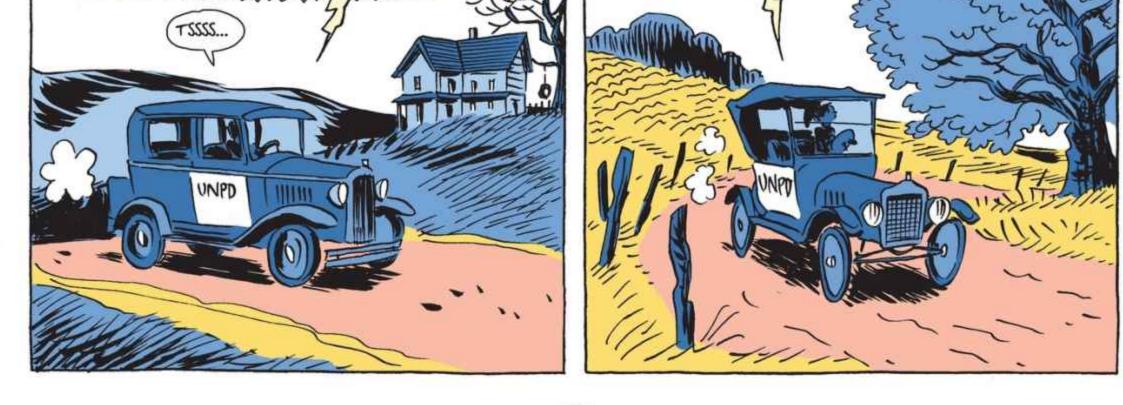


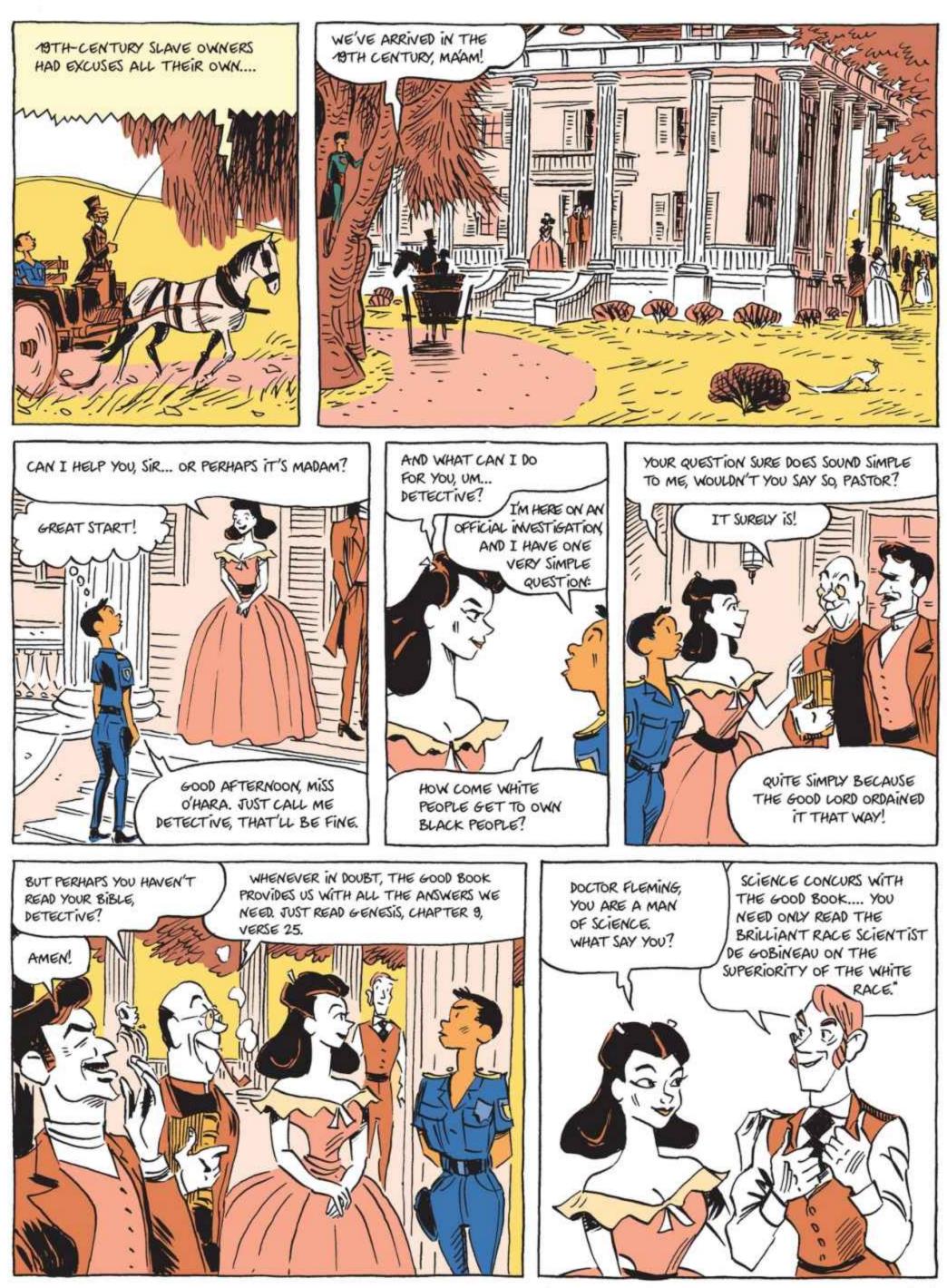




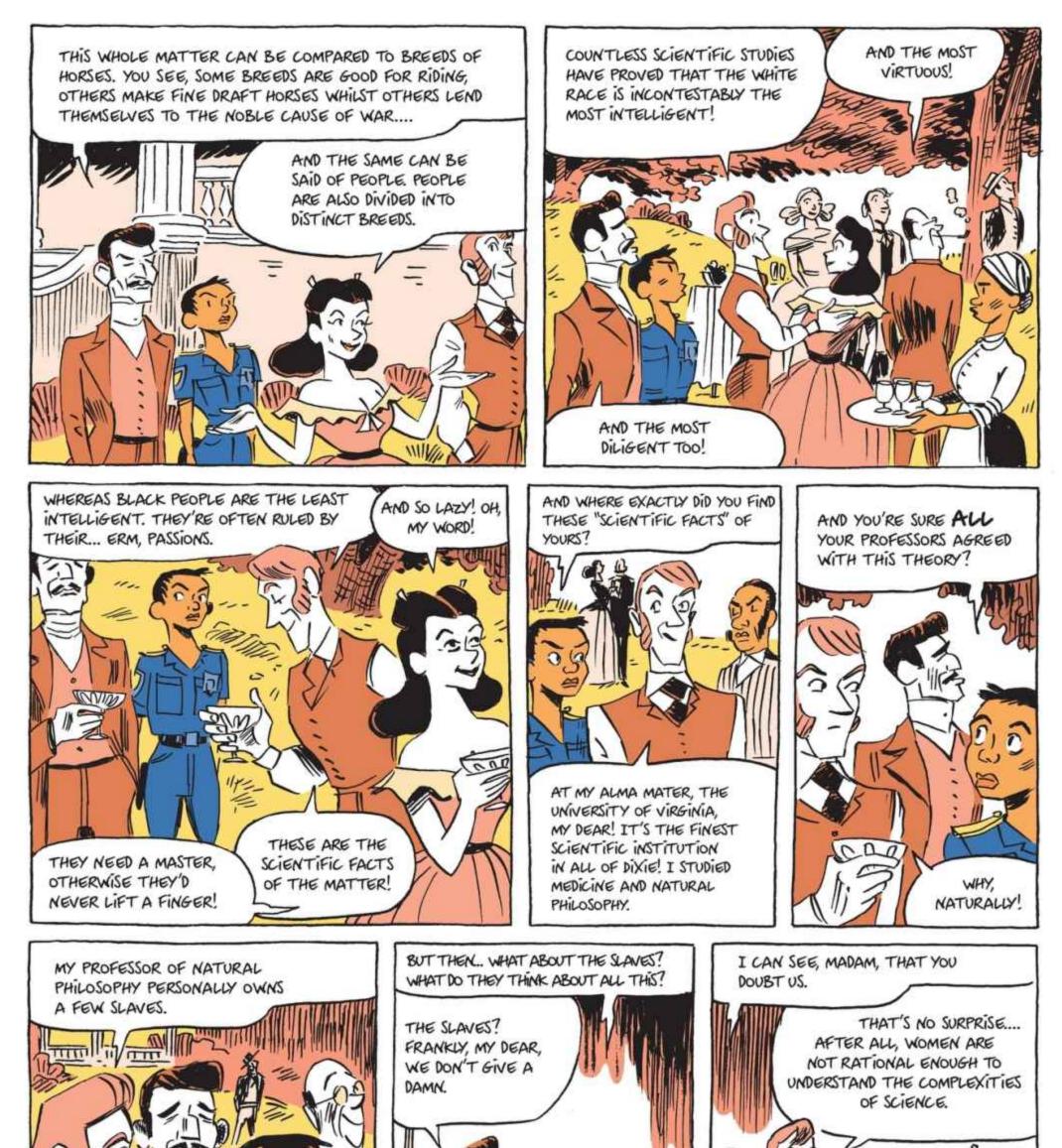


ARISTOTLE ARGUED THAT SLAVES HAD A SERVILE NATURE, WHILE OTHER PEOPLE WERE FREE BY NATURE. SO THE GREAT ANCIENT GREEK PHILOSOPHER BELIEVED THAT PEOPLE'S PLACE IN SOCIETY WAS JUST A REFLECTION OF THEIR NATURAL ESSENCE.





"ARTHUR DE GOBINEAU'S THE MORAL AND INTELLECTUAL DIVERSITY OF RACES (1856)



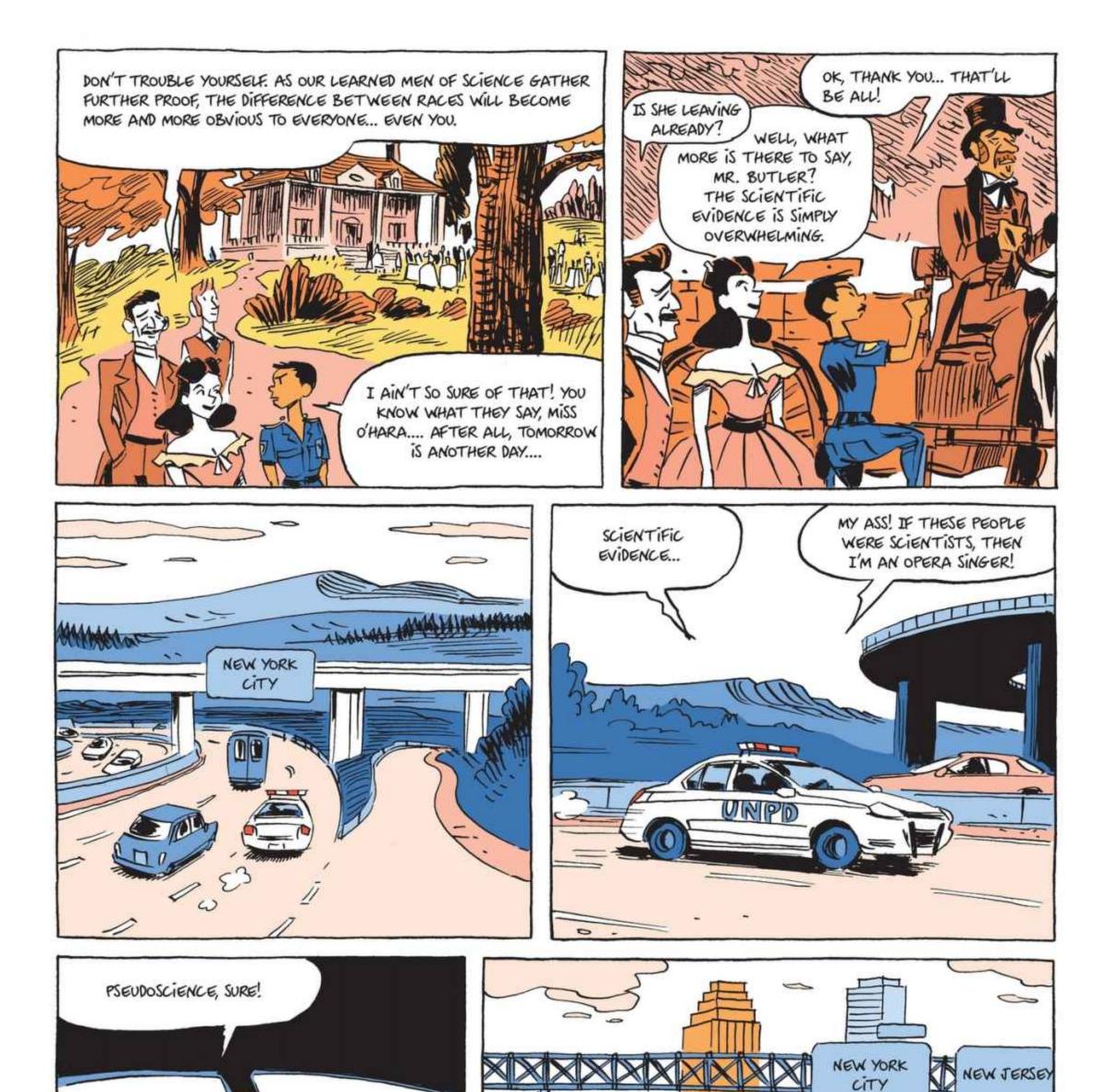




NEXT, YOU'LL BE ASKING A HORSE'S OPINION BEFORE RIDING IT!

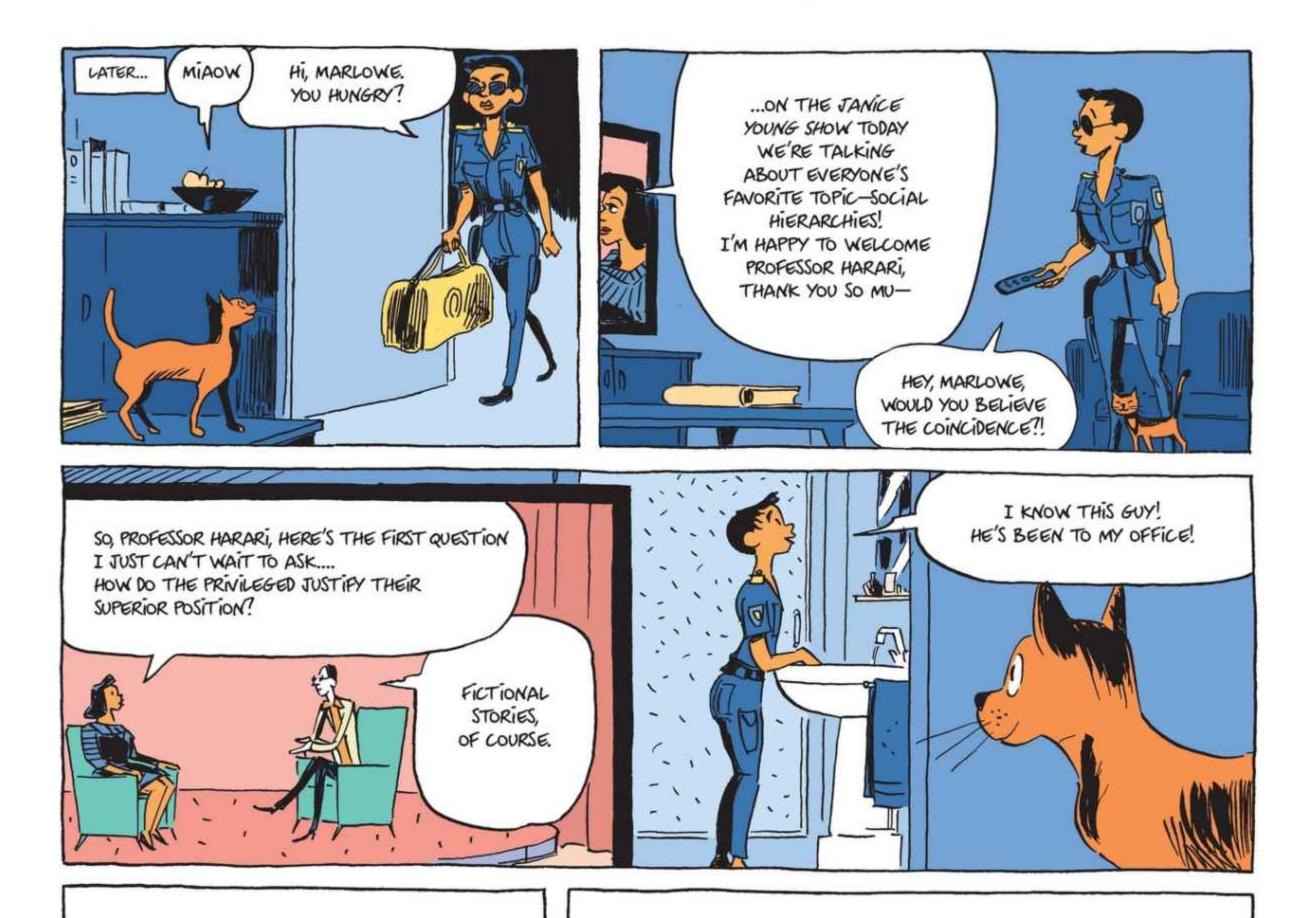






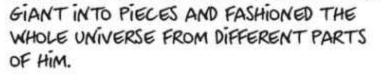






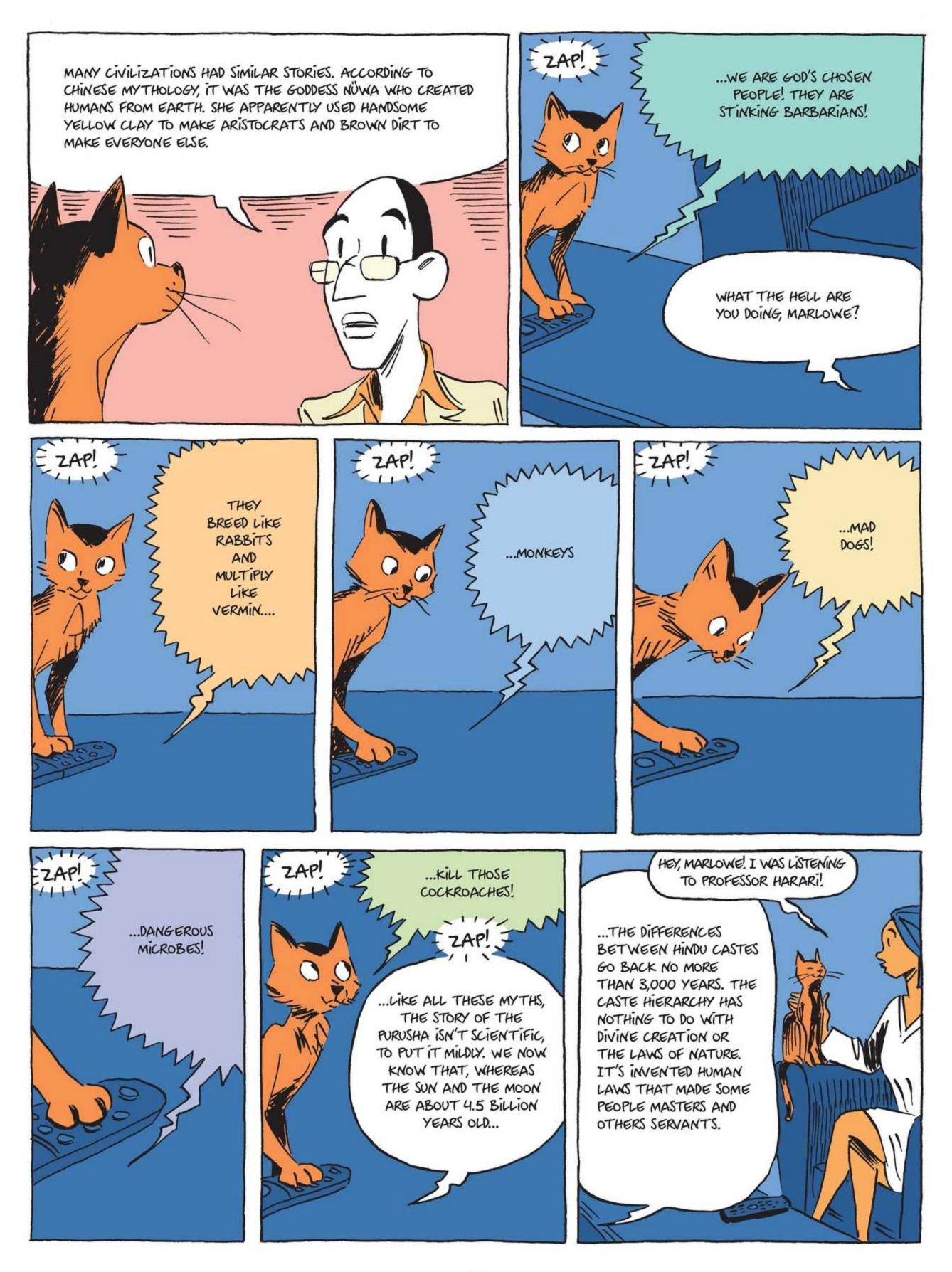
TAKE THE FAMOUS HINDU CASTE SYSTEM, FOR EXAMPLE. THE PEOPLE WHO BENEFITED MOST FROM THE CASTE SYSTEM—THE BRAHMIN PRIESTS—CLAIMED THAT THE SYSTEM WAS CREATED BY COSMIC FORCES.... THEY SAID THAT IN THE BEGINNING, THE UNIVERSE CONTAINED JUST A SINGLE ENTITY, THE GIANT PURUSHA. THEN THE GREAT GODS CUT THE THEY MADE THE SUN FROM PURUSHA'S EYE, THE MOON FROM HIS BRAIN, BRAHMIN PRIESTS FROM HIS MOUTH, KSATRIYA WARRIORS FROM HIS ARMS, VAISYA PEASANTS AND TRADESMEN FROM HIS THIGHS, SUDRA SERVANTS FROM HIS FEET...

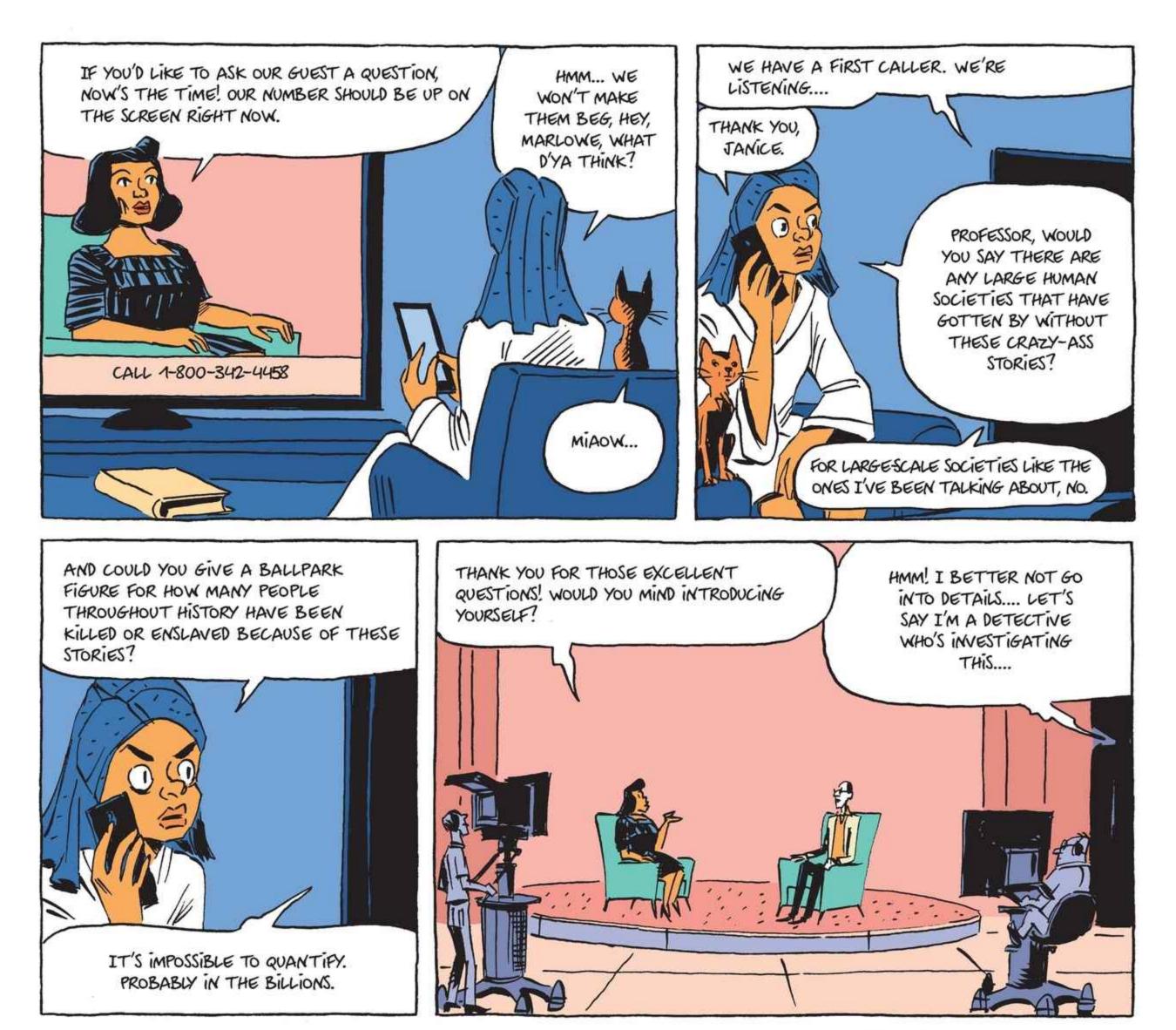




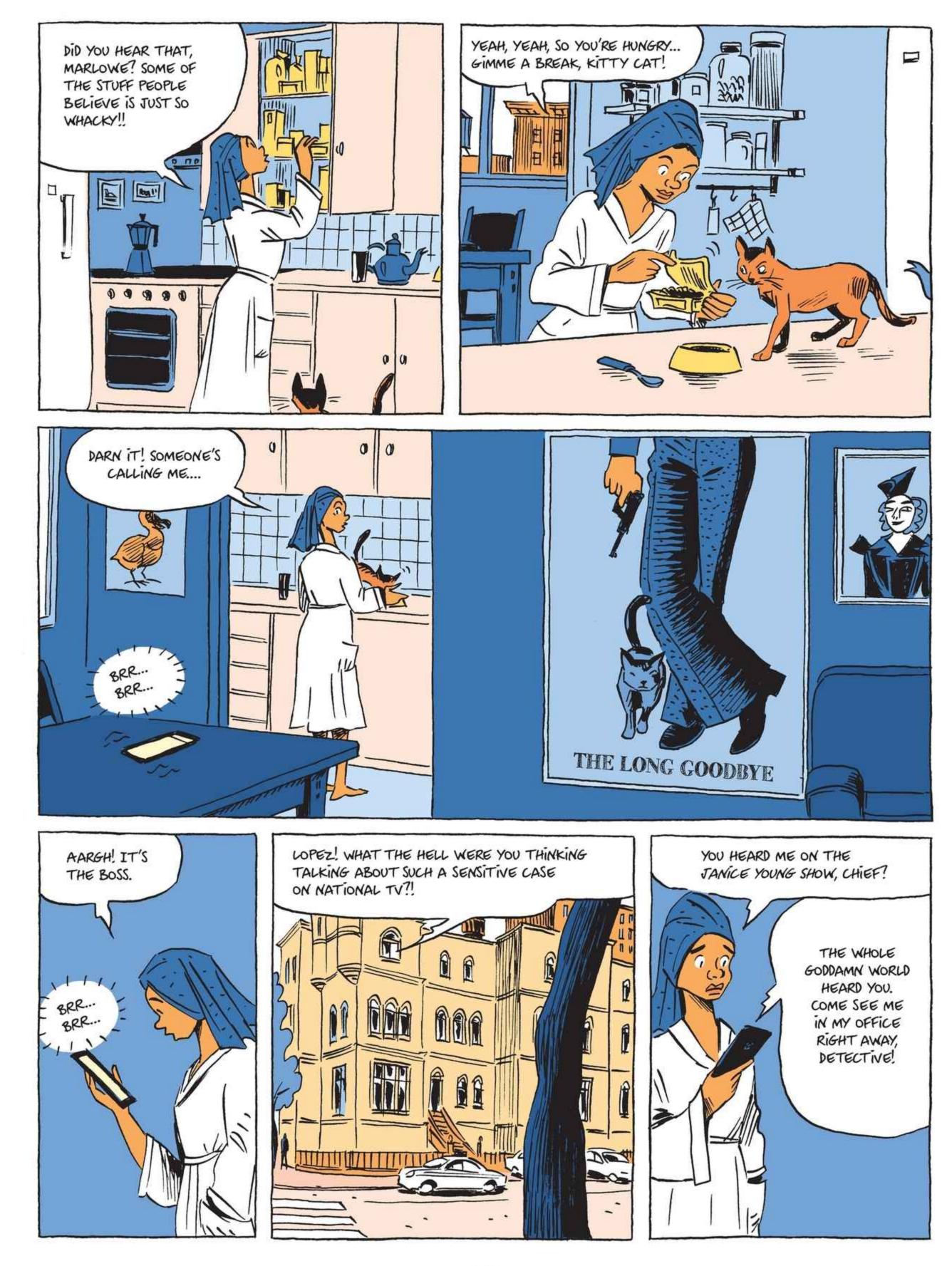
BETWEEN BRAHMIN PRIESTS AND SUDRA SERVANTS WAS AN ESSENTIAL AND ETERNAL CONSTITUENT OF THE COSMOS. IT WAS AS NATURAL AS THE DIFFERENCE BETWEEN THE SUN AND THE MOON.







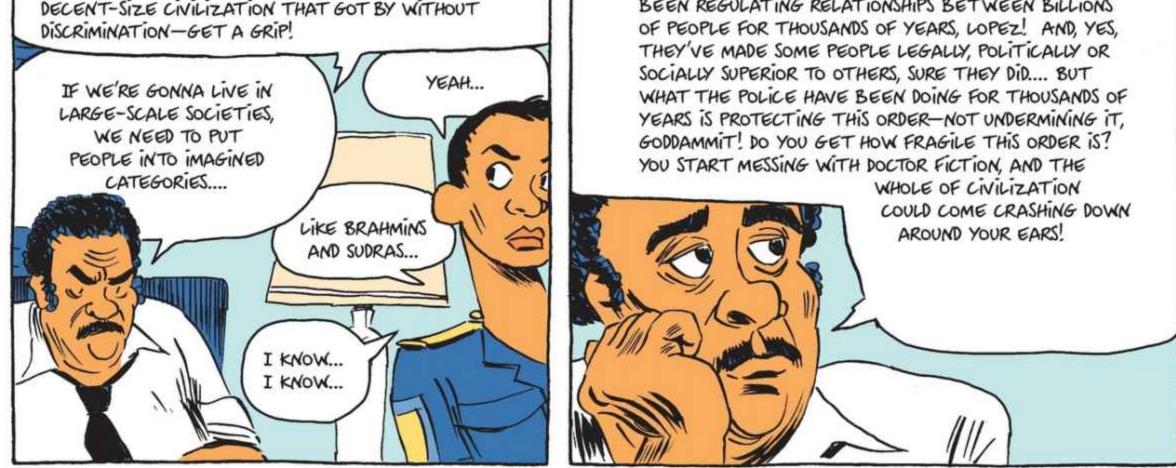


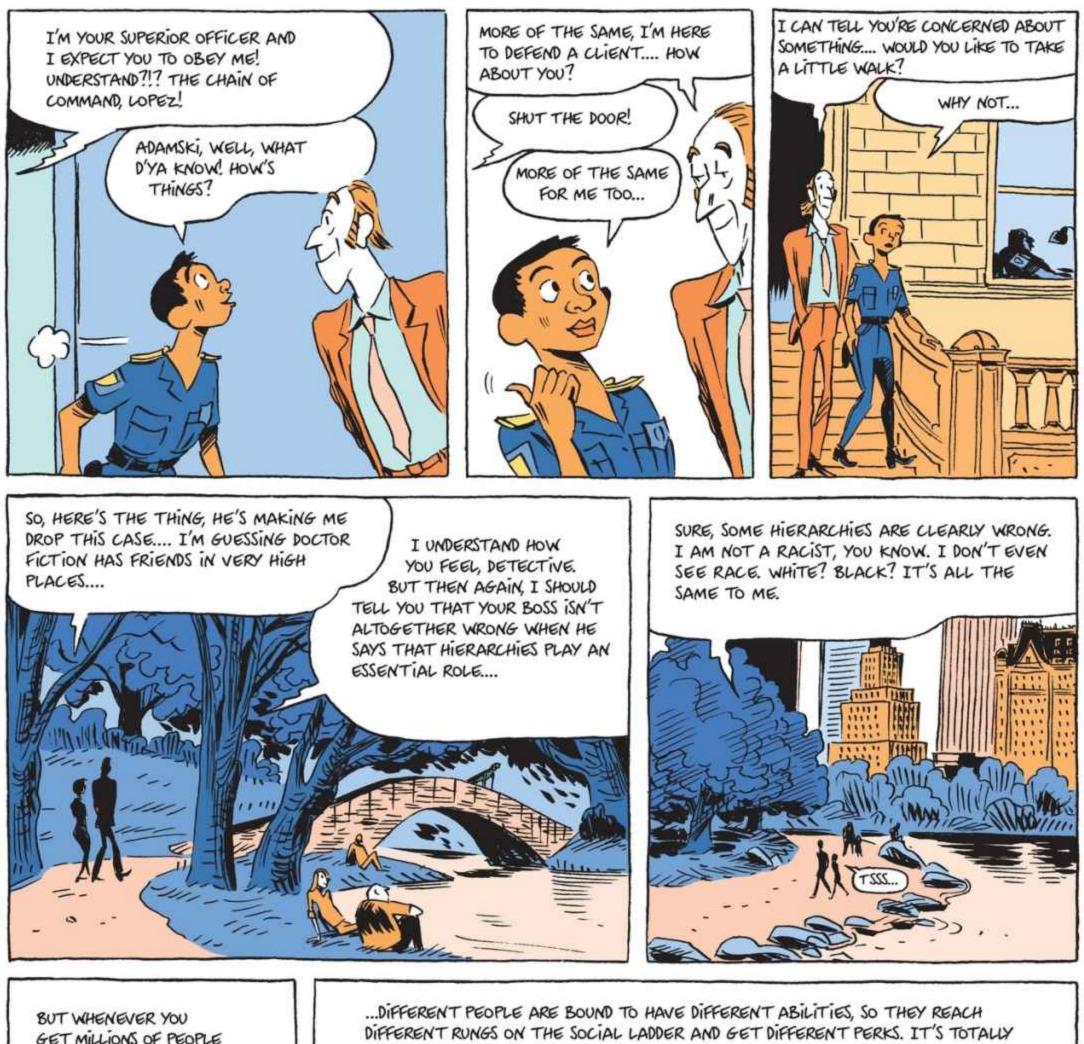




SOME SOCIETIES MAY BE BETTER, SOME MAY BE WORSE, BUT EVERYBODY KNOWS THERE'S NOT A SINGLE

... OR RICH AND POOR. CATEGORIES LIKE THAT HAVE

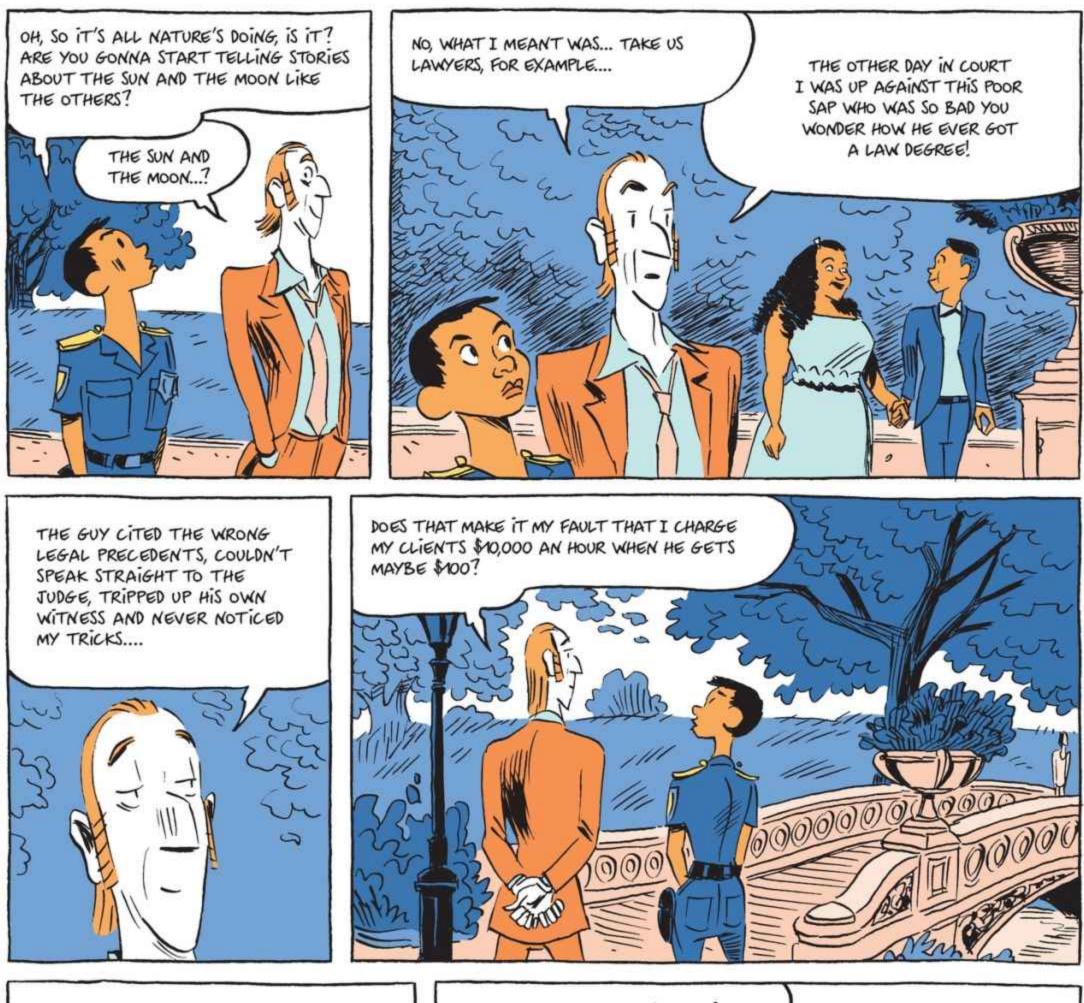




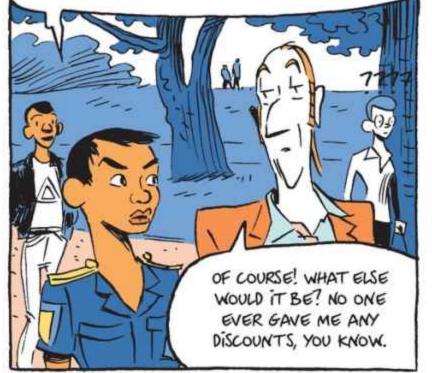
GET MILLIONS OF PEOPLE TOGETHER ...



NATURAL.



AND YOU THINK YOU JUST HAVE YOUR AMAZING DNA TO THANK FOR HAVING SUCH AN EDGE?



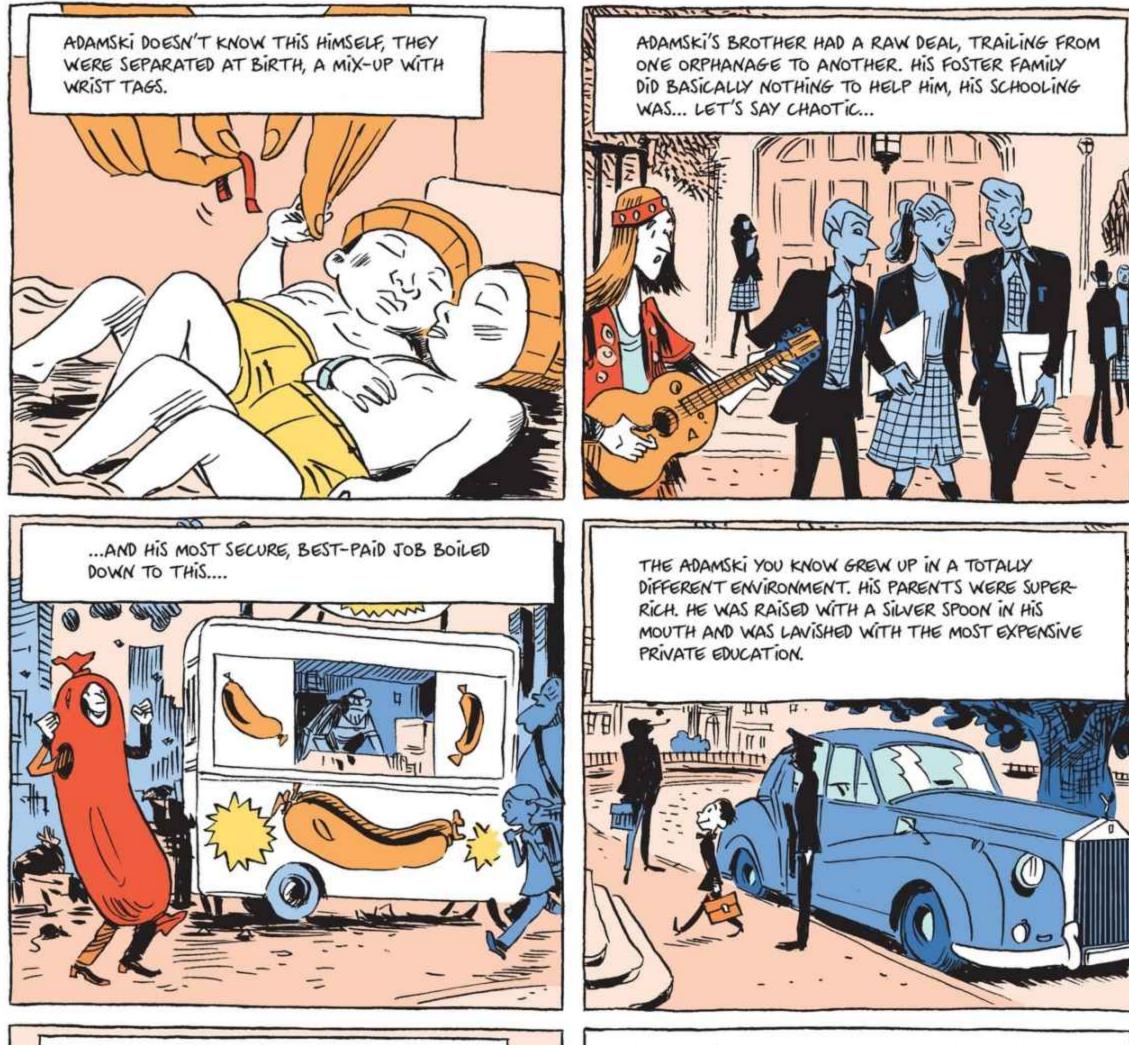
WELL, LET ME TELL YA SOMETHING, MR. NATURAL TALENT....

I'D LOVE TO HEAR THIS .... BUT I HAVE TO GO. TIME IS MONEY, DETECTIVE ... AND MY TIME'S A LOODOT OF MONEY!!









HE GREW UP TO BE A BRILLIANT LAWYER WHO HANDLES THE BIGGEST CASES.

OK, I GEDDIT. SO THEY HAVE THE SAME GENES BUT HAD DIFFERENT OPPORTUNITIES... AND FICTIONAL STORIES DETERMINE WHO GETS WHICH OPPORTUNITIES.



EVEN THOUGH THE TWO BROTHERS HAD IDENTICAL GENETIC BAGGAGE, THE MINUTE THEY FELL INTO THOSE DIFFERENT SOCIAL CLASSES, THERE WAS LITTLE CHANCE THEY'D ENJOY THE SAME SUCCESS.



LET ME TELL YOU, EVERY SOCIETY IS BASED ON IMAGINED HIERARCHIES. I COULD HAVE TOLD YOU THE ADAMSKI BROTHERS' STORY ABOUT TWIN BROTHERS IN 17TH-CENTURY FRANCE OR TWIN SISTERS IN 19TH-CENTURY INDIA ACCIDENTALLY RAISED IN DIFFERENT CASTES....



OK... BUT ONE THING I DON'T GET. WHY DO CULTURES COME UP WITH SO MANY DIFFERENT WAYS TO DIVIDE PEOPLE?



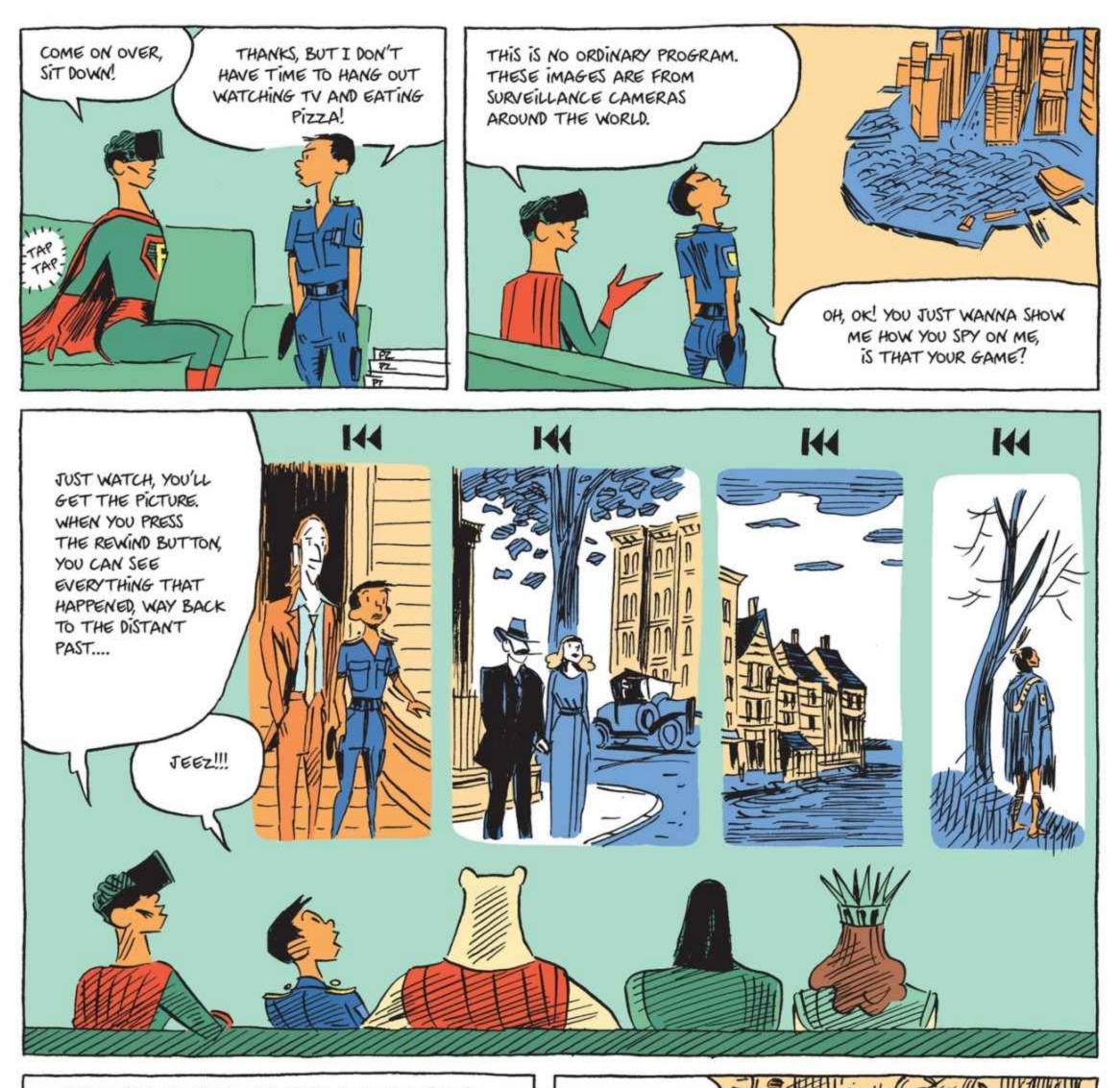
AND EXACTLY WHY DOES INDIAN CIVILIZATION DIVIDE PEOPLE INTO CASTES WHILE THE OTTOMAN EMPIRE CLASSIFIED THEM BY RELIGION AND MODERN AMERICA BY RACE?



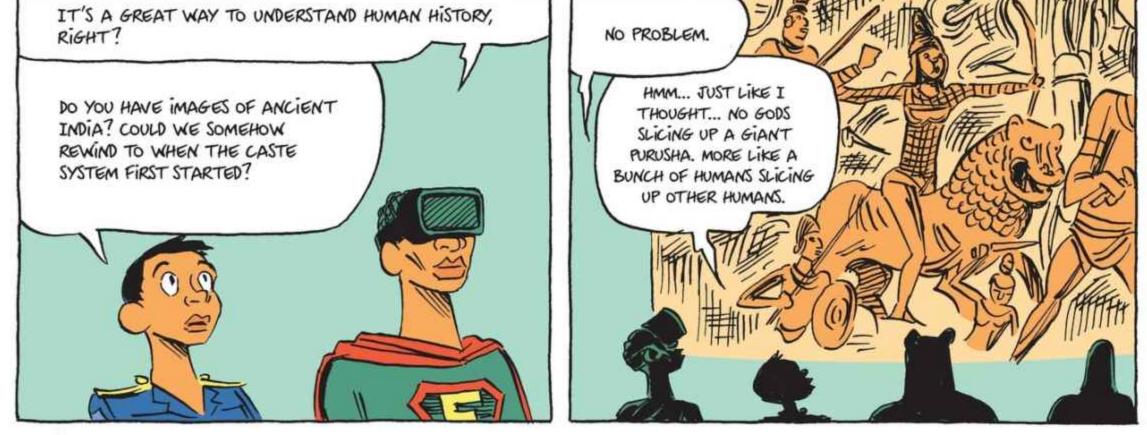
BY CHANCE, REALLY. IN MOST CASES, HIERARCHIES EMERGE THANKS TO ALL KINDS OF ACCIDENTAL HISTORICAL CIRCUMSTANCES, AND THEN THEY'RE PERPETUATED AND REFINED OVER MANY GENERATIONS... AS VARIOUS GROUPS CULTIVATE THEIR OWN VESTED INTEREST IN THE SYSTEM.







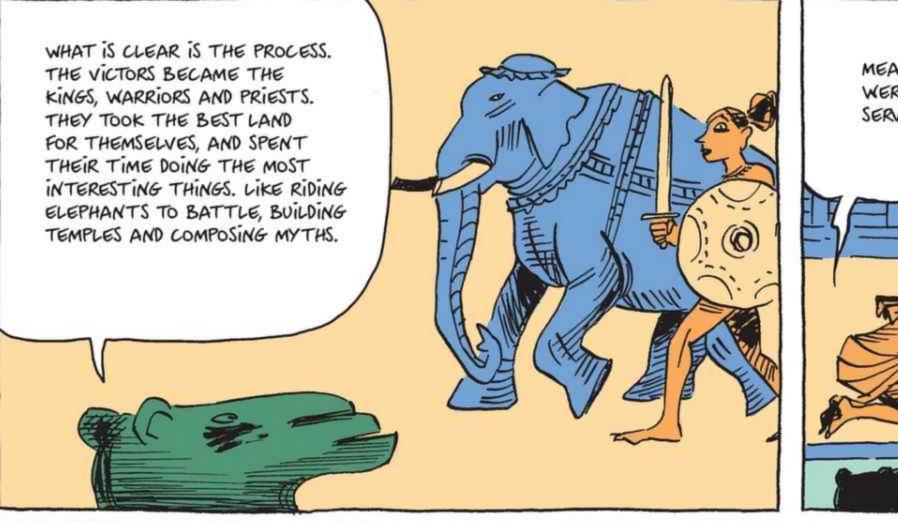
IT'S A GREAT WAY TO UNDERSTAND HUMAN HISTORY,





IT'S ALL IN THE MIND. ANYHOW, SOMETHING LIKE THE CASTE SYSTEM MAY HAVE STARTED ABOUT 3,000 YEARS AGO WHEN PEOPLE FROM CENTRAL ASIA CONQUERED PARTS OF NORTHERN INDIA. OR PERHAPS IT STARTED LATER. THERE WERE SO MANY WARS, IT'S HARD TO TELL....





MEANWHILE, THE NATIVES WERE REDUCED TO THE RANKS OF SERVANTS AND SLAVES....

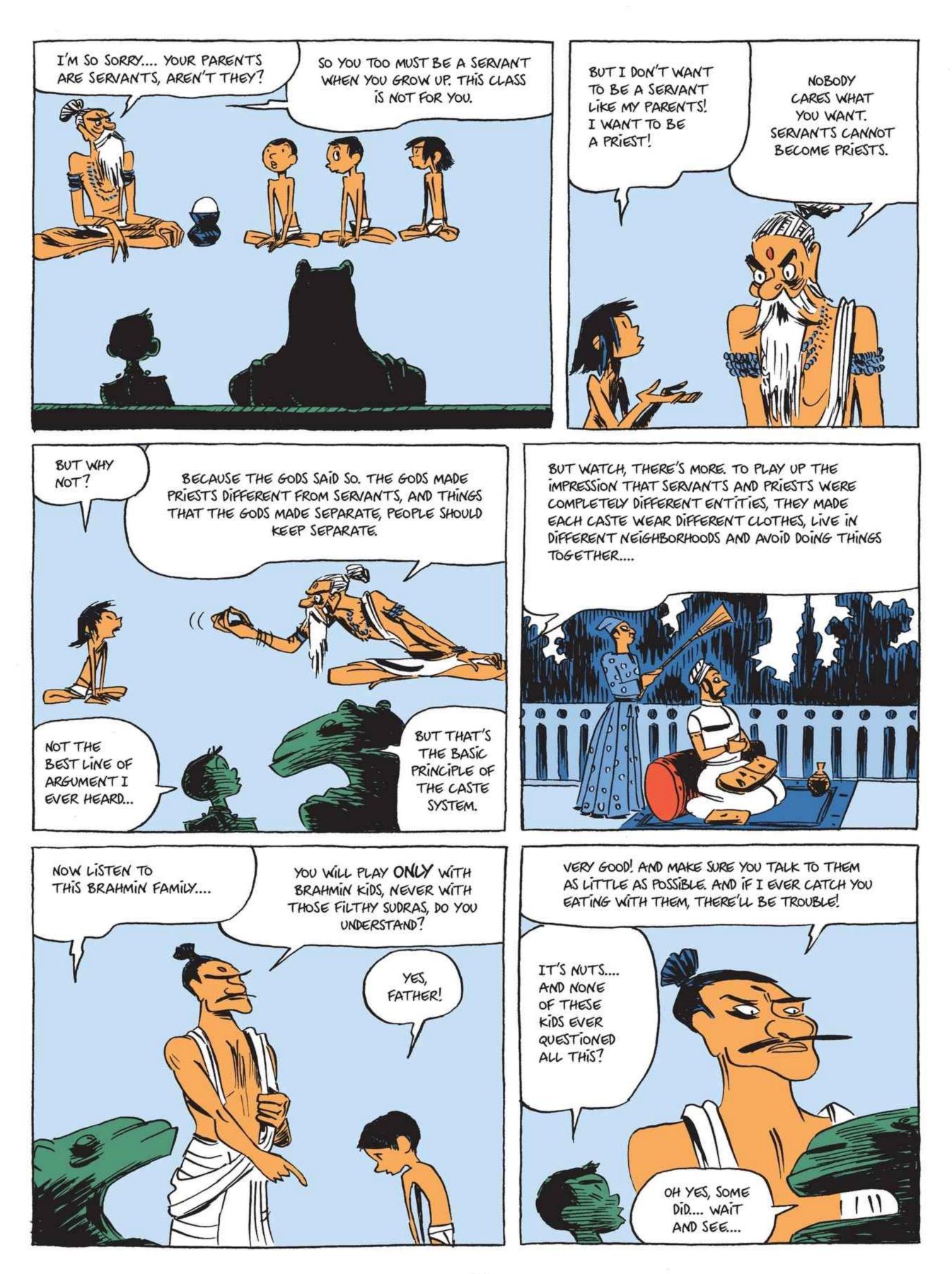


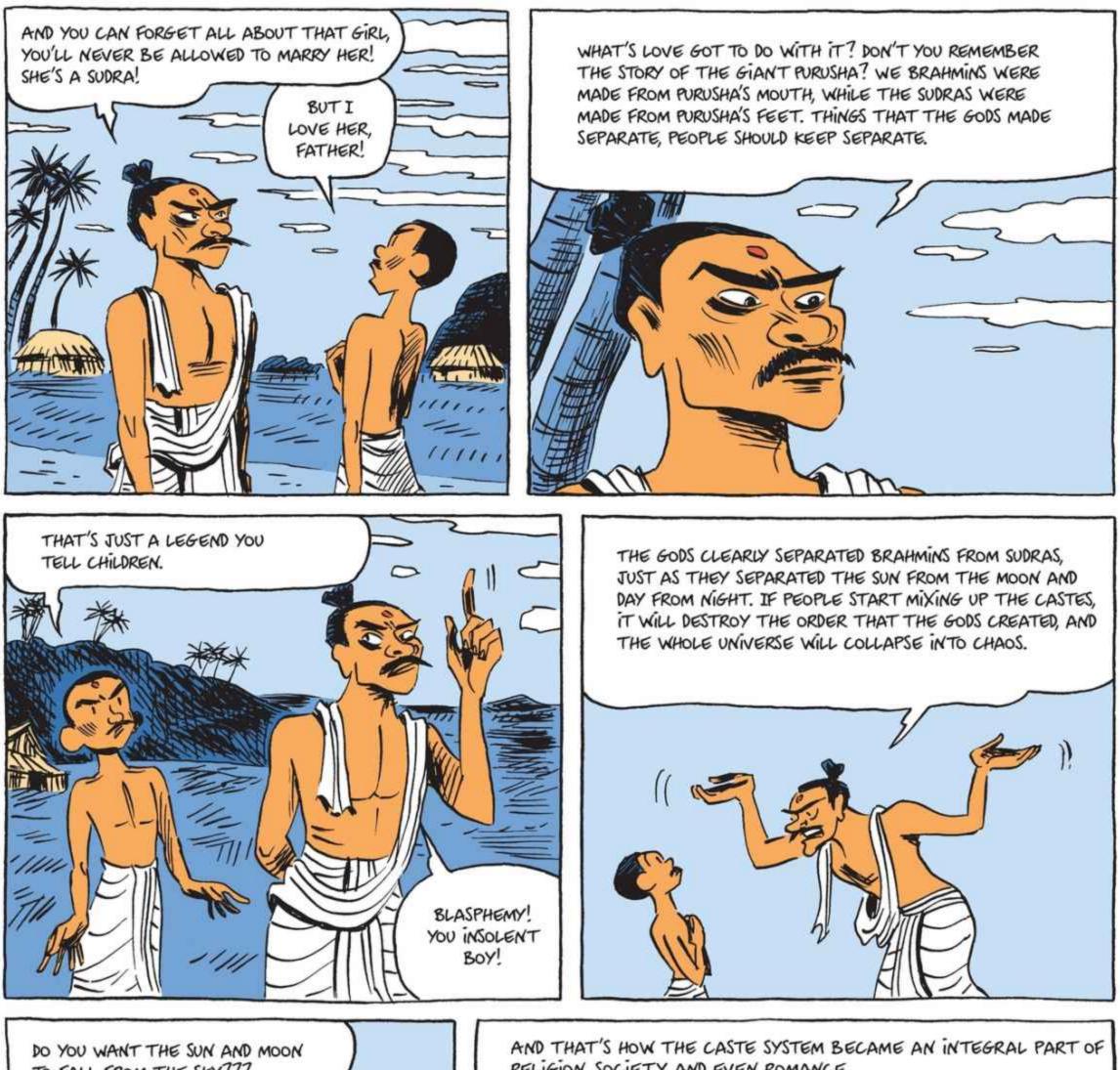
THE NEW ELITE WANTED TO BE SURE TO KEEP THEIR

THEY WERE ESPECIALLY KEEN FOR THEIR CHILDREN TO BE RICH AND POWERFUL TOO. SO, TO STOP THEIR SERVANTS' CHILDREN COMPETING WITH THEIR OWN, THE PRIESTS AND WARRIORS INSISTED THAT PEOPLE ALWAYS DID THE SAME JOB AS THEIR PARENTS.









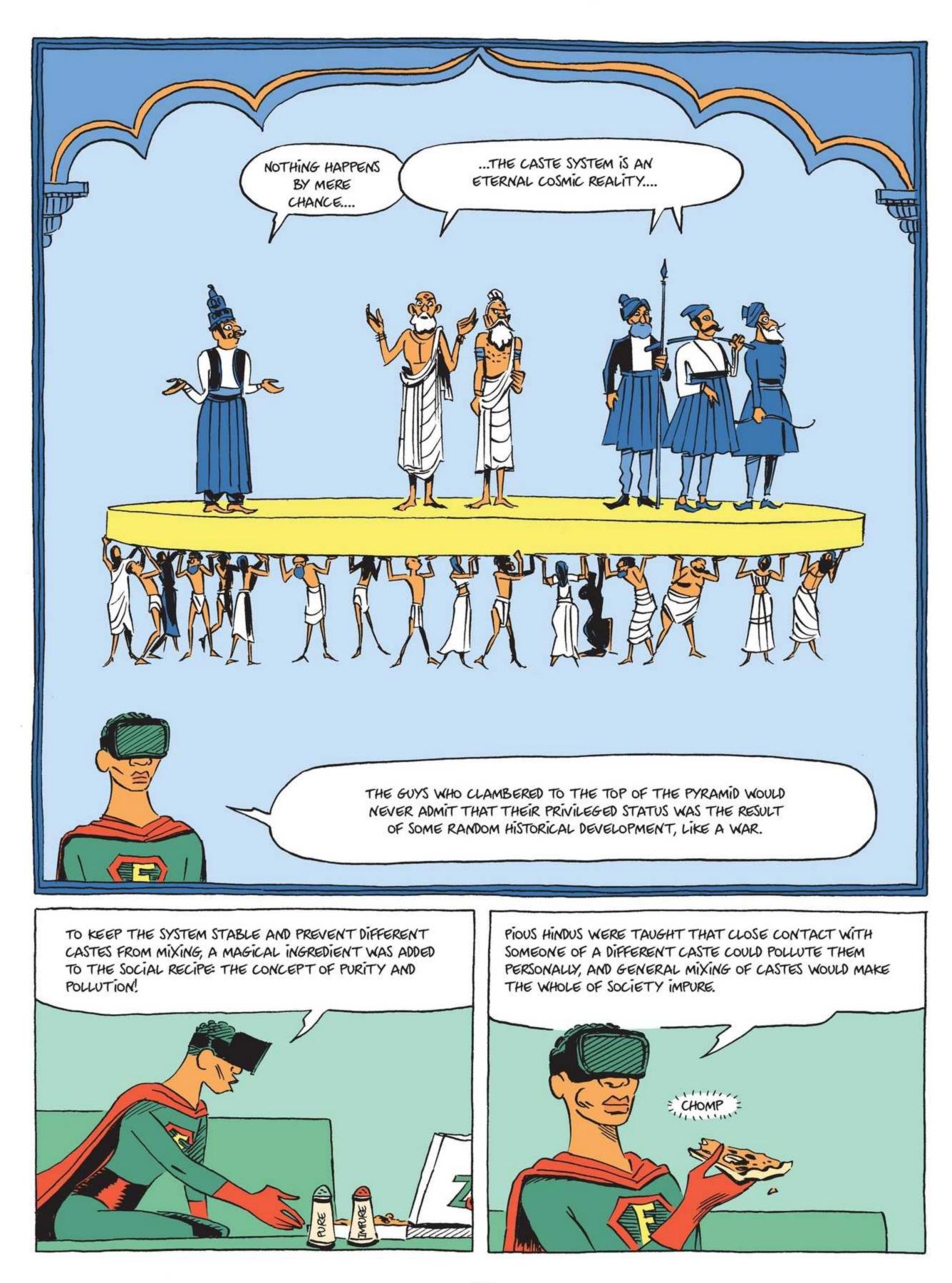
TO FALL FROM THE SKY ????

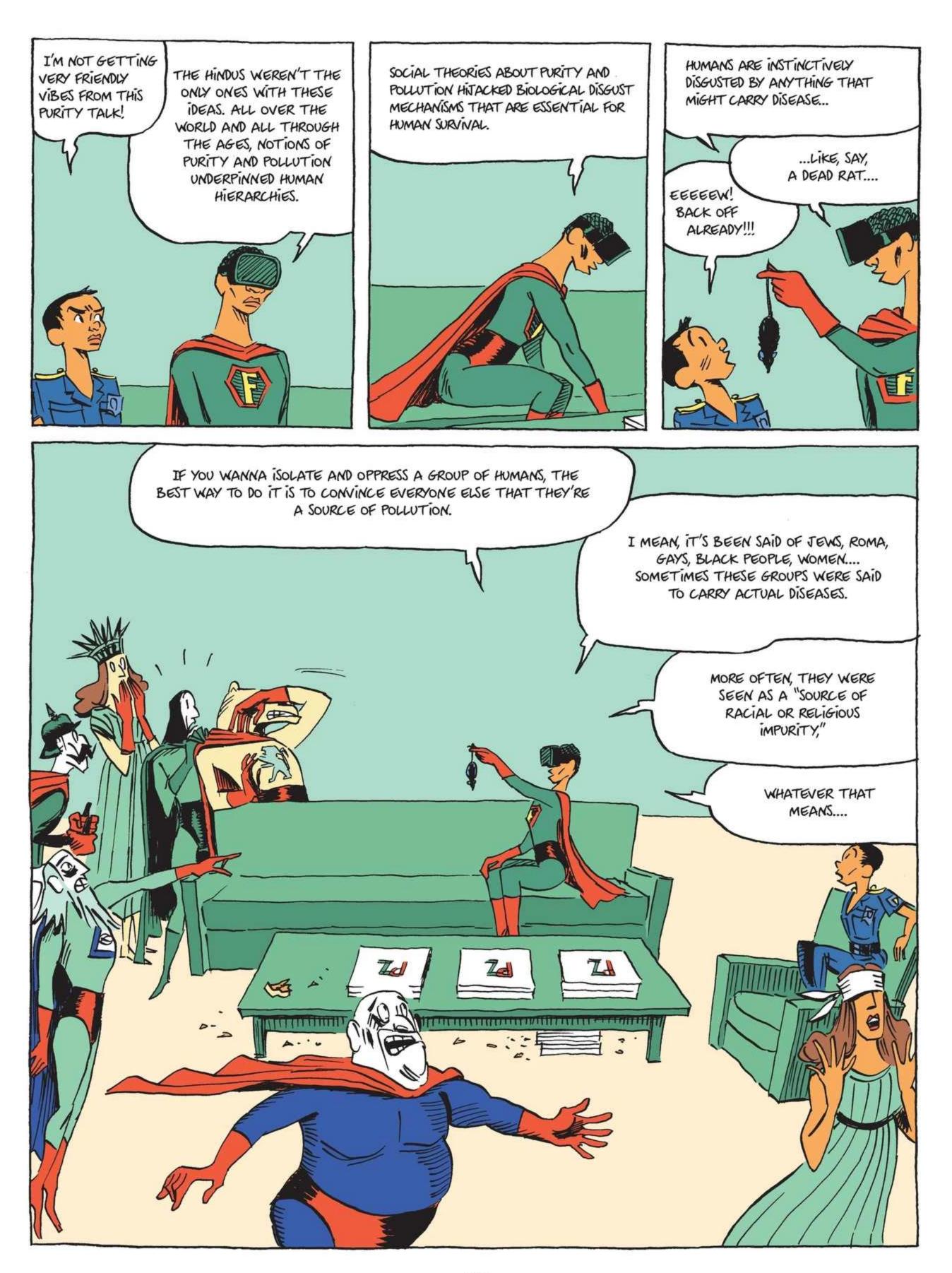
RELIGION, SOCIETY AND EVEN ROMANCE.

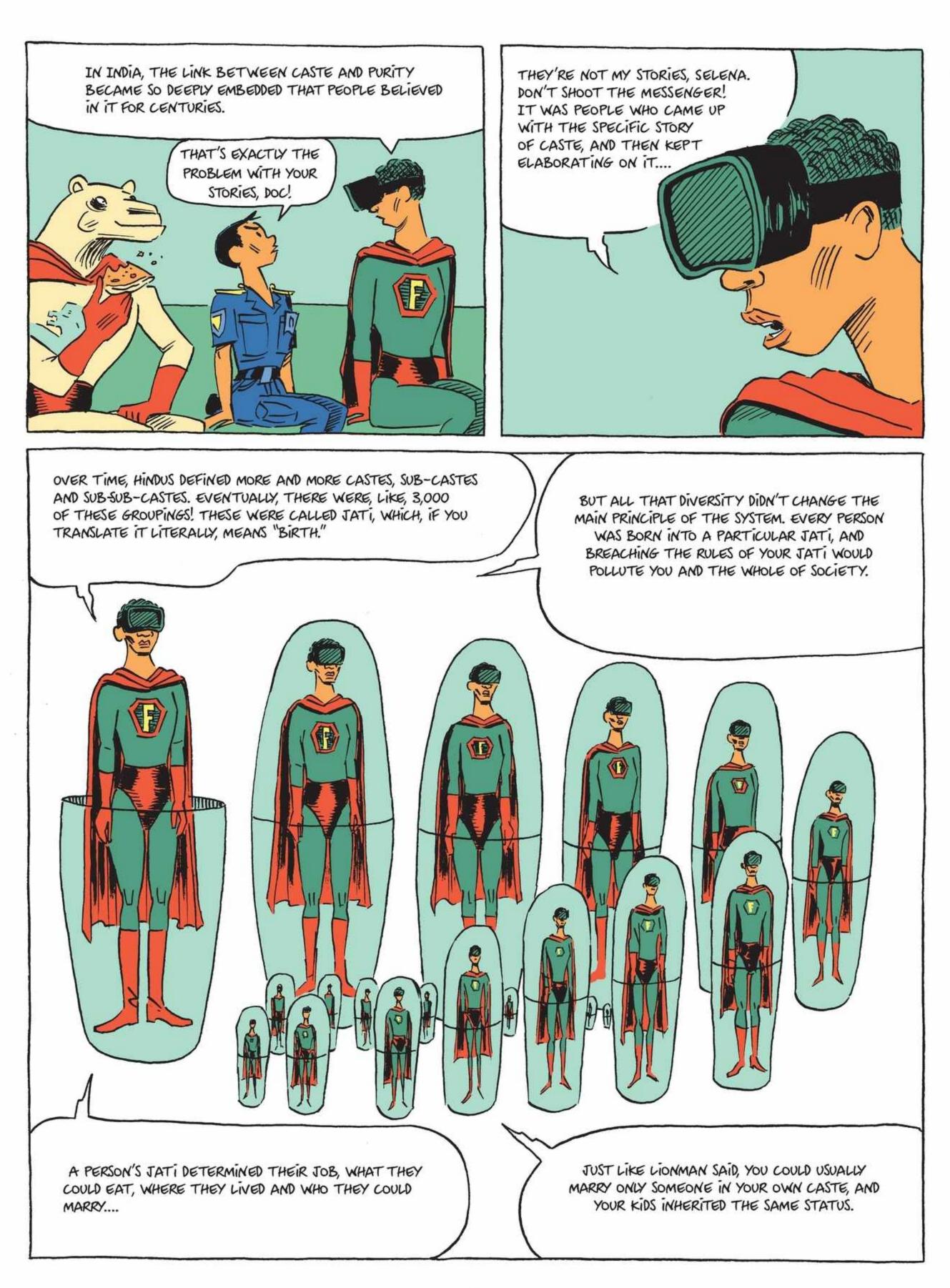




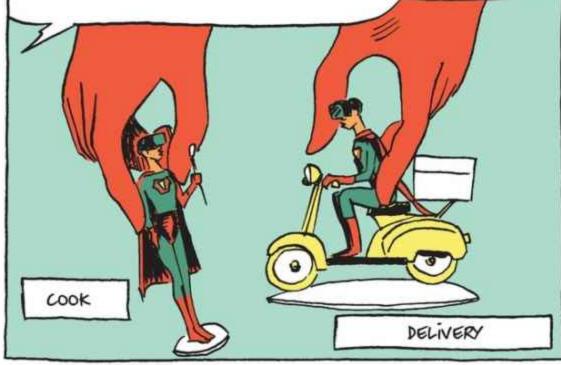








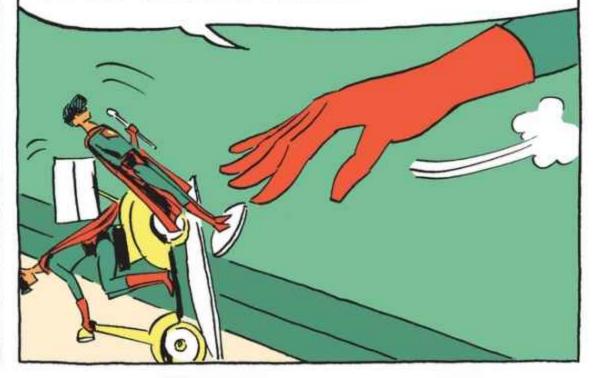
EVERY TIME A NEW JOB BECAME A THING OR A NEW GROUP OF PEOPLE CAME ON THE SCENE, THOSE PEOPLE HAD TO BE RECOGNIZED AS A SEPARATE CASTE AND GIVEN THEIR PLACE IN SOCIETY.



THEY HAD TO LIVE SEPARATELY FROM OTHER PEOPLE AND TO SCRAPE A HUMILIATING LIVING BY DOING THINGS LIKE SIFTING THROUGH GARBAGE. EVEN PEOPLE IN THE LOWEST CASTES SHUNNED THEM.



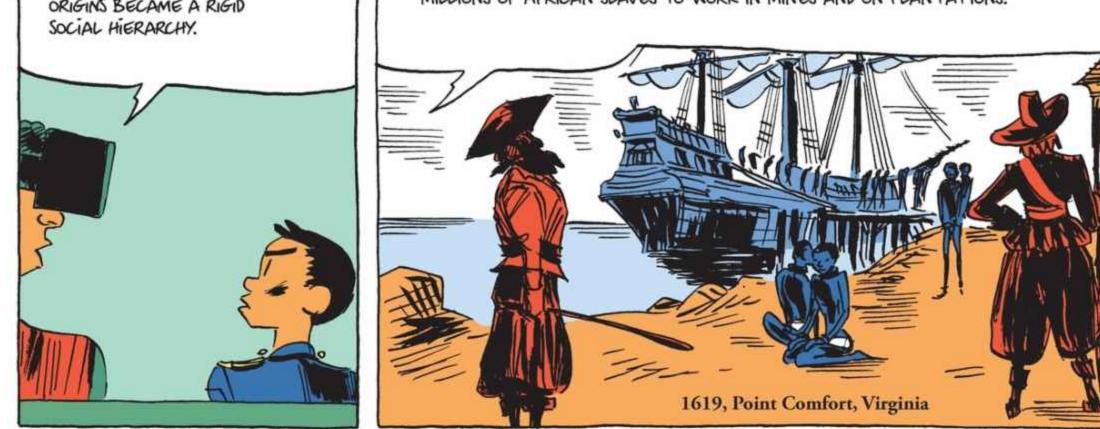
THAT'S HOW, OVER TIME, A WEIRD STORY WITH OBSCURE IF SOME GROUP COULDN'T GET RECOGNITION AS A CASTE, THEY WERE LITERALLY OUT-CASTES. THEY WEREN'T CONSIDERED A PART OF SOCIETY-NOT EVEN ON ITS LOWEST RUNG. THEY WERE UTTERLY IMPURE, AND ANY CONTACT WITH THEM POLLUTED YOU. THEY WERE KNOWN AS UNTOUCHABLES.

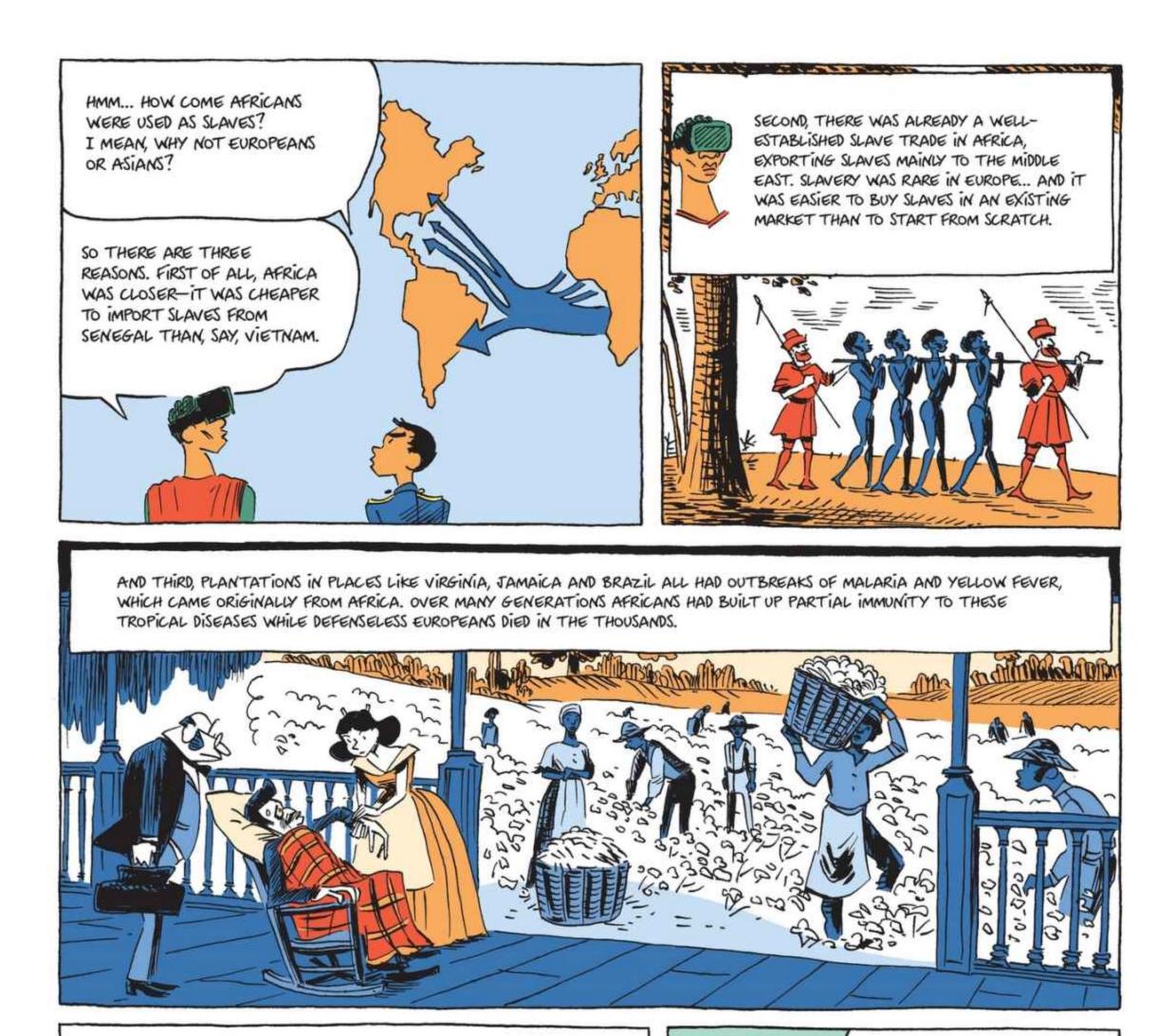


IN MODERN INDIA, DEMOCRATIC GOVERNMENTS HAVE WORKED HARD TO DISMANTLE THE CASTE SYSTEM AND CONVINCE PEOPLE THAT CASTE MIXING WON'T POLLUTE THEM.



A SIMILAR VICIOUS CIRCLE UNDERPINS THE RACIAL HIERARCHY IN MODERN AMERICA. FROM THE 16TH TO THE 19TH CENTURY, EUROPEAN CONQUERORS TRANSPORTED MILLIONS OF AFRICAN SLAVES TO WORK IN MINES AND ON PLANTATIONS.



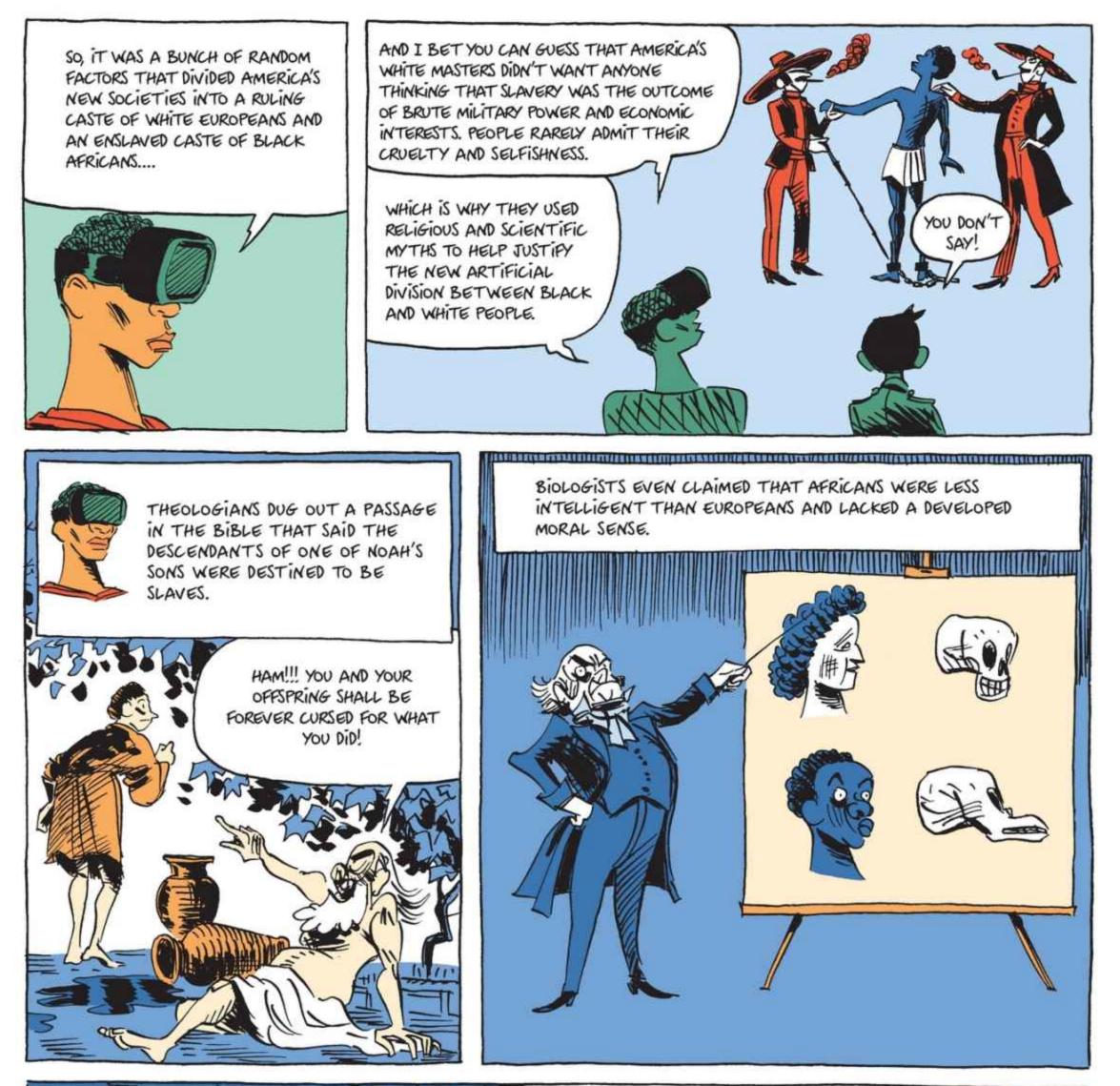


IT MADE WAY MORE SENSE FOR A PLANTATION OWNER TO INVEST IN AN IMMUNIZED AFRICAN SLAVE THAN A EUROPEAN SLAVE WHO MIGHT SOON DIE.

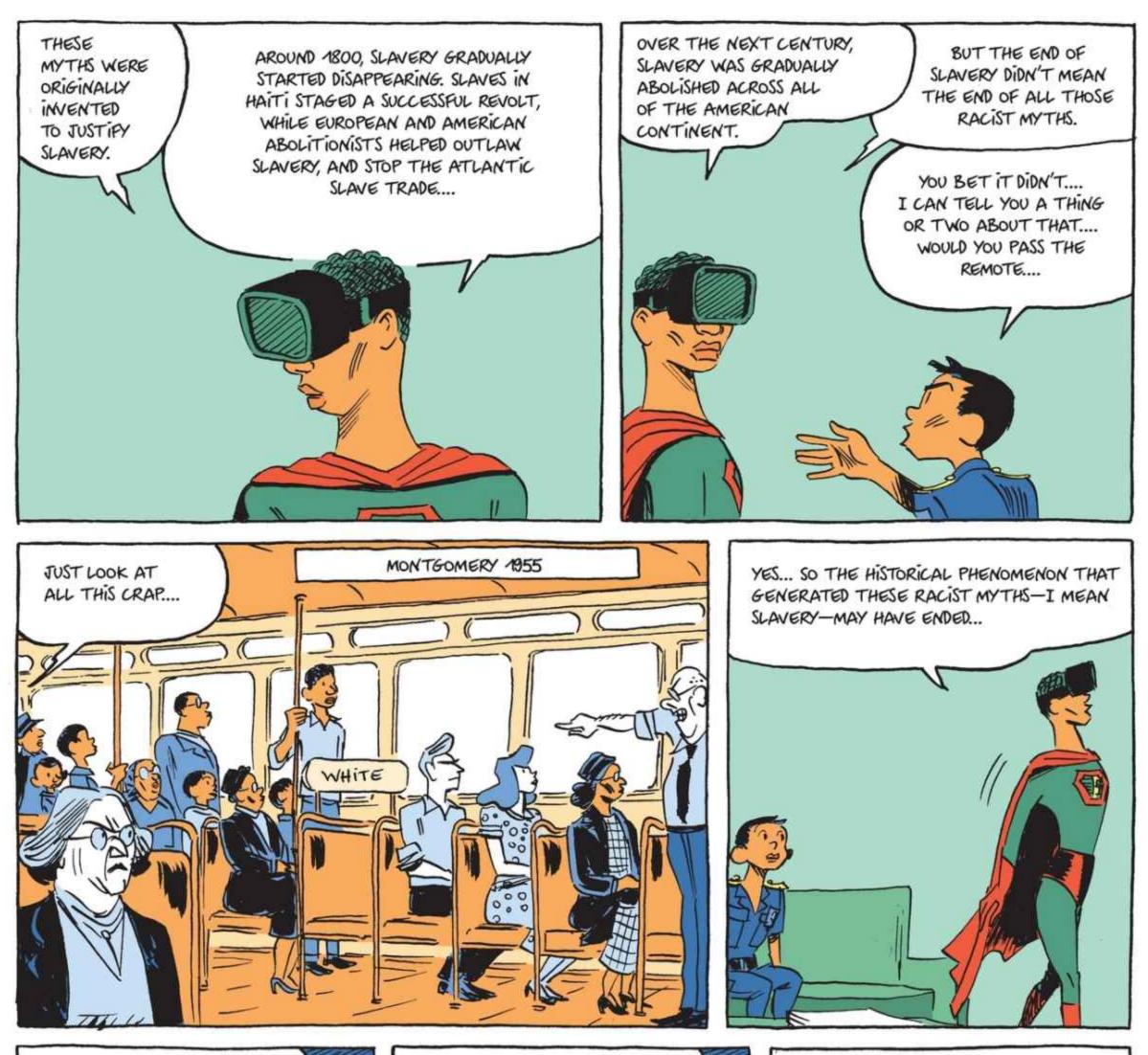


CONTRACTOR STOCKED













JUST LOOK, THE INEQUALITY'S SO CLEAR. AFTER TWO CENTURIES OF SLAVERY, THE AVERAGE BLACK



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THIS BLACK TEENAGER BORN IN ATLANTA IN 1865 HAD WAY LESS CHANCE OF GETTING A GOOD EDUCATION AND FINDING WELL-PAID WORK THAN A WHITE BOY THE SAME AGE.



OK, DOC... BUT SURELY THE DIFFERENCE WASN'T JUST ABOUT MONEY.... UNEDUCATED WHITE PEOPLE TOO.

IF MONEY WERE THE ONLY THING THAT MATTERED, THE DIVIDE BETWEEN THE RACES WOULD SOON HAVE BEEN ERASED.... A GENERATION LATER, THE BLACK GUY WITH THE MEAGER SALARY COULDN'T AFFORD TO SEND HIS KIDS TO A DECENT ELEMENTARY SCHOOL, WHILE THE WHITE GUY'S KIDS WENT ALL THE WAY TO COLLEGE.



BESIDES, THE INDUSTRIAL REVOLUTION AND HUGE WAVES OF IMMIGRATION MADE THE STATES A SUPER-FLUID SOCIETY, SO ANY OLD RAGS COULD TURN INTO A MIGHTY FINE THREE-PIECE SUIT....

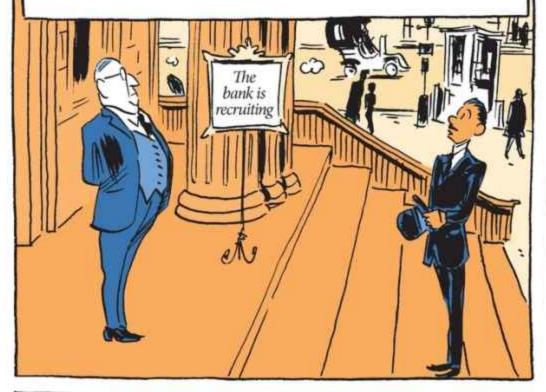


IF YOU ASK ME, I THINK DEMOCRACY IS FINE I MEAN DEMOCRACY WITHOUT THE COLOR LINE UNCLE SAM SAYS, "WE'LL LIVE THE AMERICAN WAY" LET'S GET TOGETHER AND KILL JIM CROW TODAY"



"JOSH WHITE GRANDPA

IF A BLACK PERSON SOMEHOW MANAGED TO GET A GOOD EDUCATION AND APPLIED FOR A RESPECTABLE JOB ... LIKE, SAY, BEING A BANK TELLER ...



YOU'D HAVE THOUGHT PEOPLE WOULD GRADUALLY REALIZE THESE LABELS WERE PURE MYTHS AND BLACK PEOPLE COULD START PROVING THEY WERE JUST AS COMPETENT, LAW-ABIDING AND CLEAN AS WHITES.



KEPT GETTING WORSE!

BLACK PEOPLE WERE TRAPPED IN A VICIOUS CIRCLE: THEY WEREN'T RECRUITED INTO WHITE-COLLAR JOBS BECAUSE OF THIS REPUTATION FOR BEING STUPID AND UNRELIABLE.



... HIS CHANCES OF GETTING THAT JOB WERE WAY BELOW THE CHANCES OF SOME WHITE GUY WITH THE SAME QUALIFICATIONS.

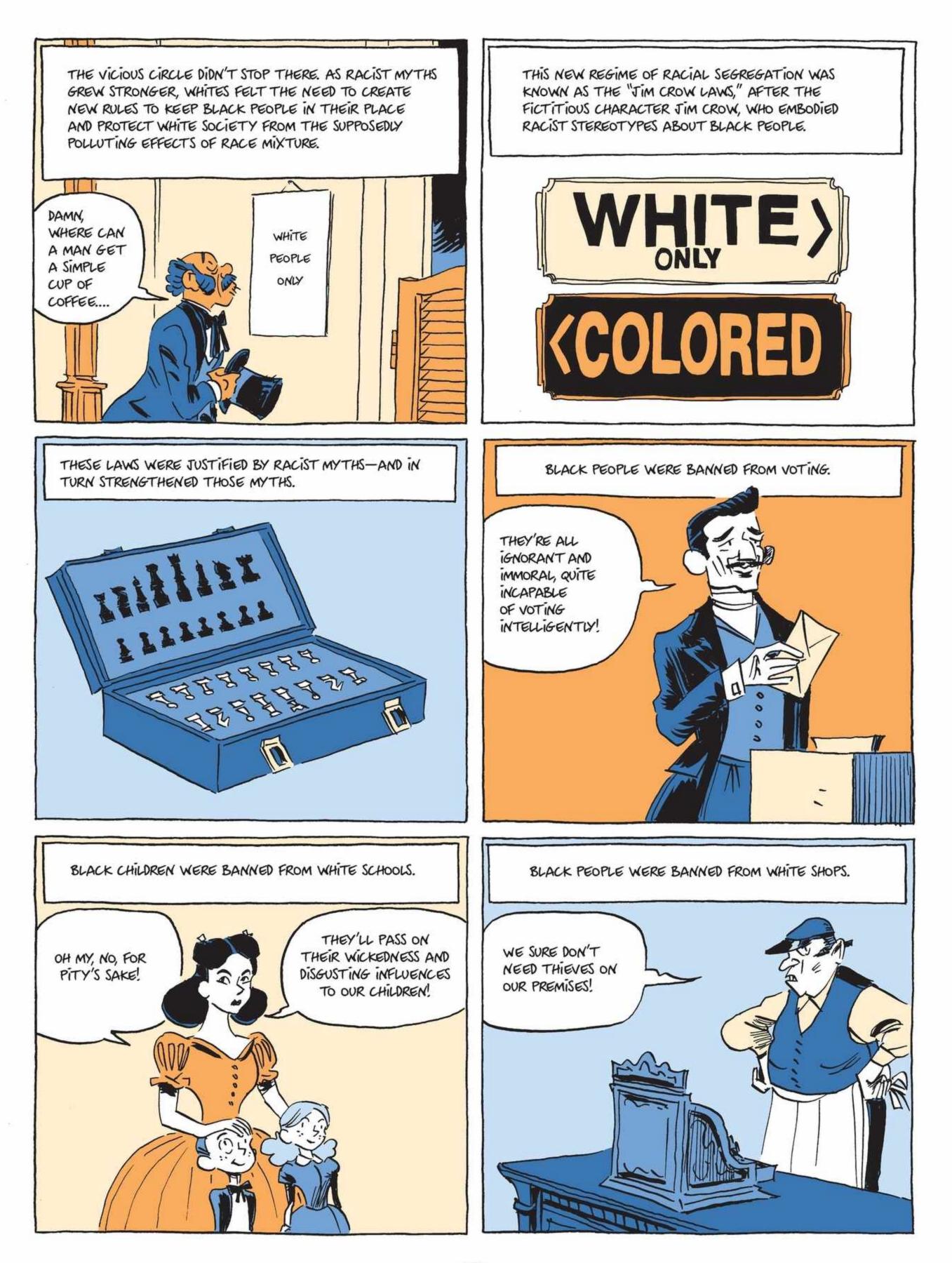


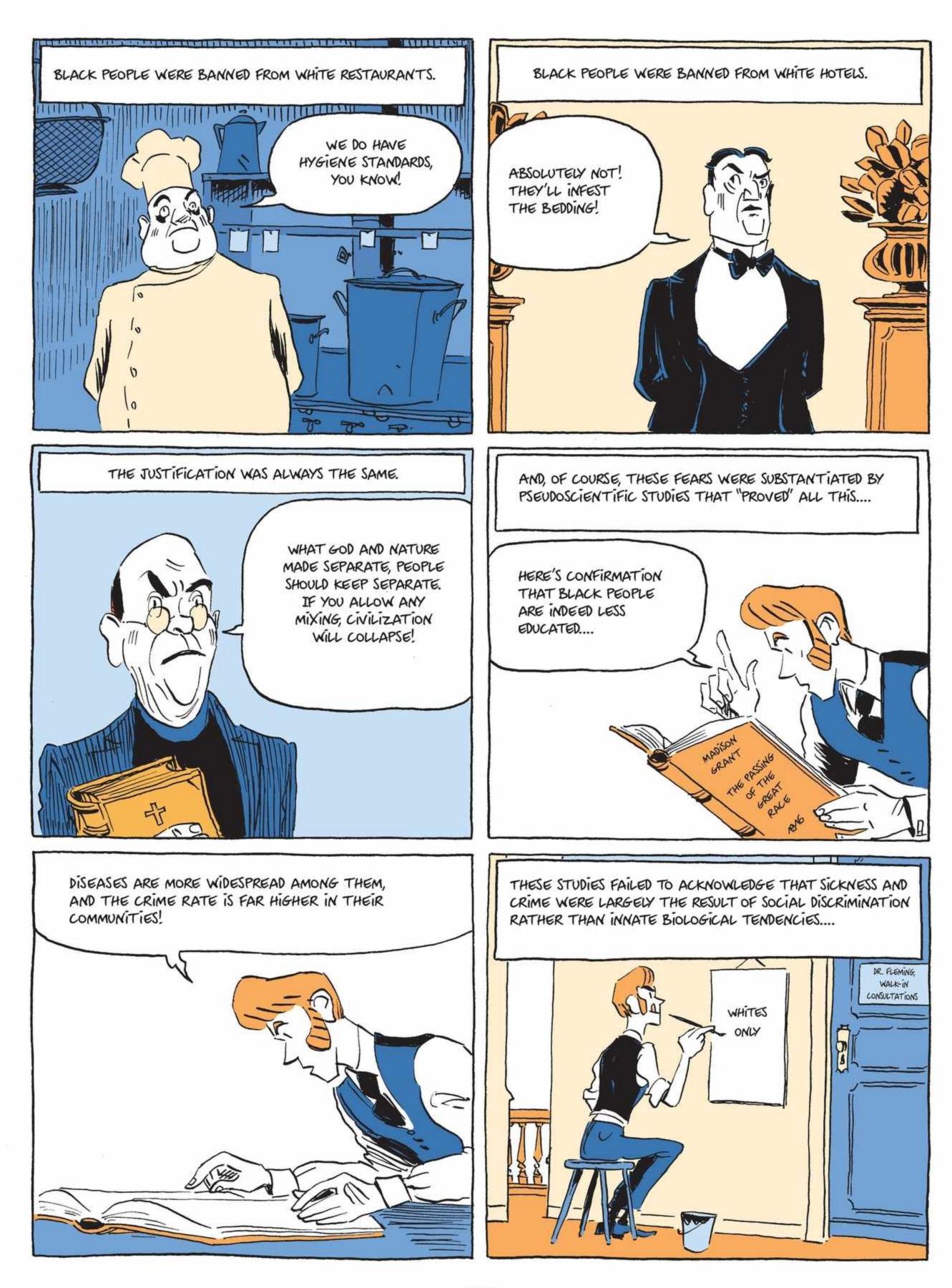


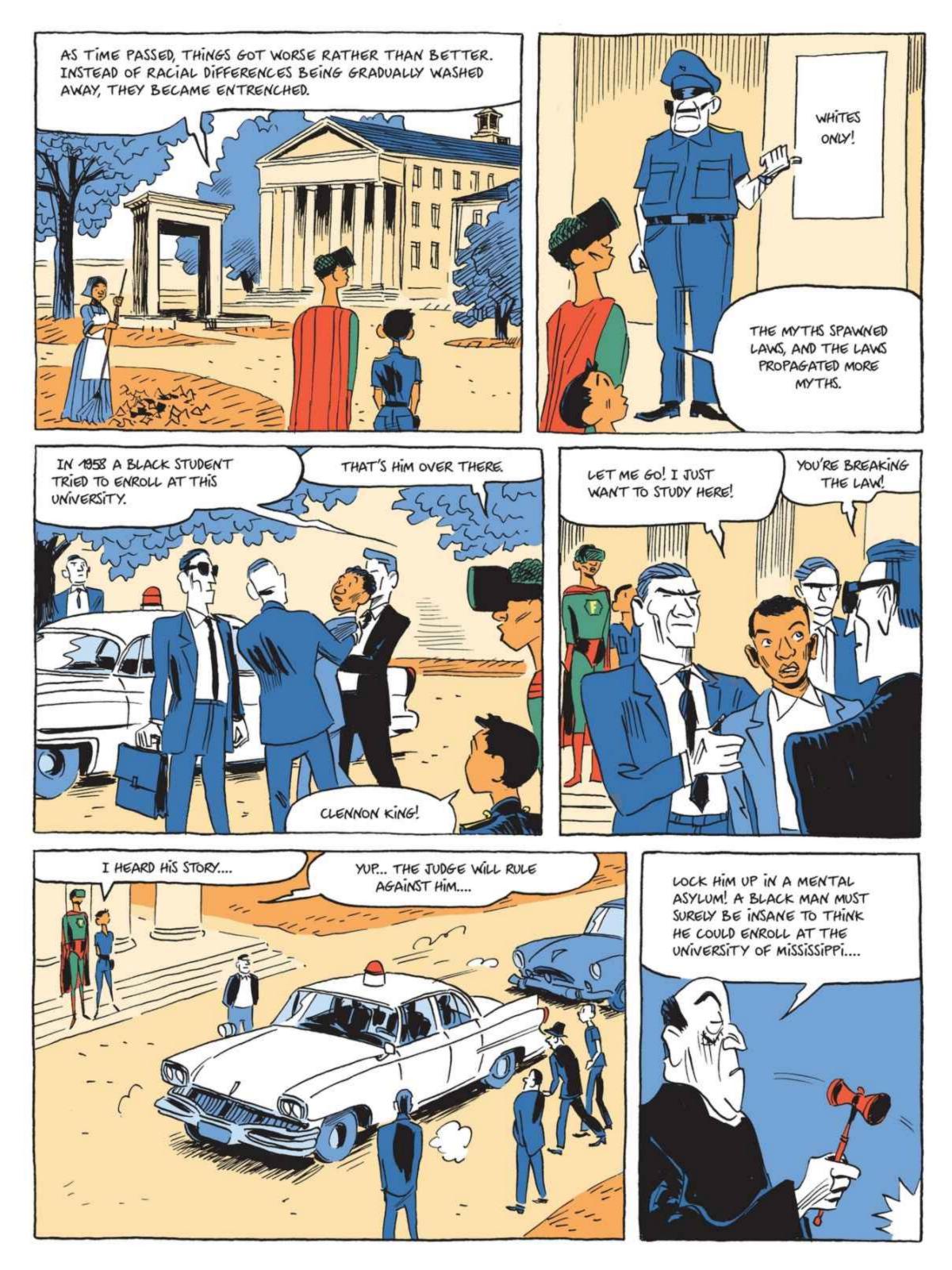
BECAUSE WHITE PEOPLE HAD ALL THE BEST JOBS, IT WAS EASY TO BELIEVE BLACK PEOPLE REALLY WERE INFERIOR.

AS YOU SEE, MR. BUTLER, THESE BLACKS HAVE BEEN FREE FOR GENERATIONS, AND, IF I MAY SAY SO, THERE ARE NO BLACK TEACHERS, LAWYERS, DOCTORS OR EVEN BANK TELLERS! SURELY THAT PROVES THAT BLACK PEOPLE ARE SIMPLY LESS INTELLIGENT AND HARDWORKING.

AND IF ANYONE WANTED PROOF OF THEIR INFERIORITY ... WELL, THERE WERE NO BLACK PEOPLE IN WHITE-COLLAR JOBS. A VICIOUS CIRCLE IN ALL ITS GLORY ... A RANDOM HISTORICAL SITUATION TRANSLATED INTO A RIGID SOCIAL SYSTEM, A TERRIBLE BURDEN PASSED FROM GENERATION TO GENERATION ... POVERTY 0 PREJUDICE







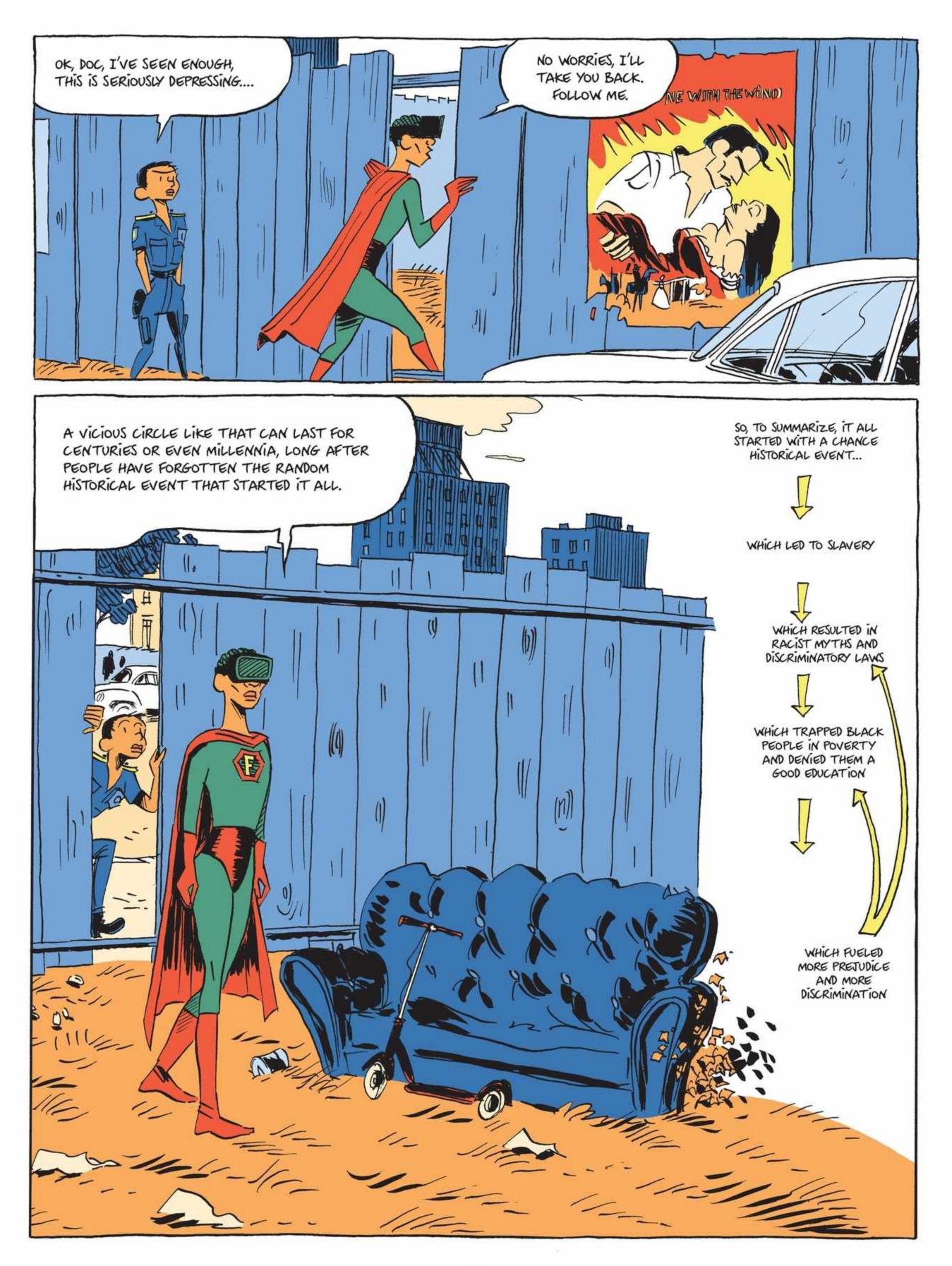


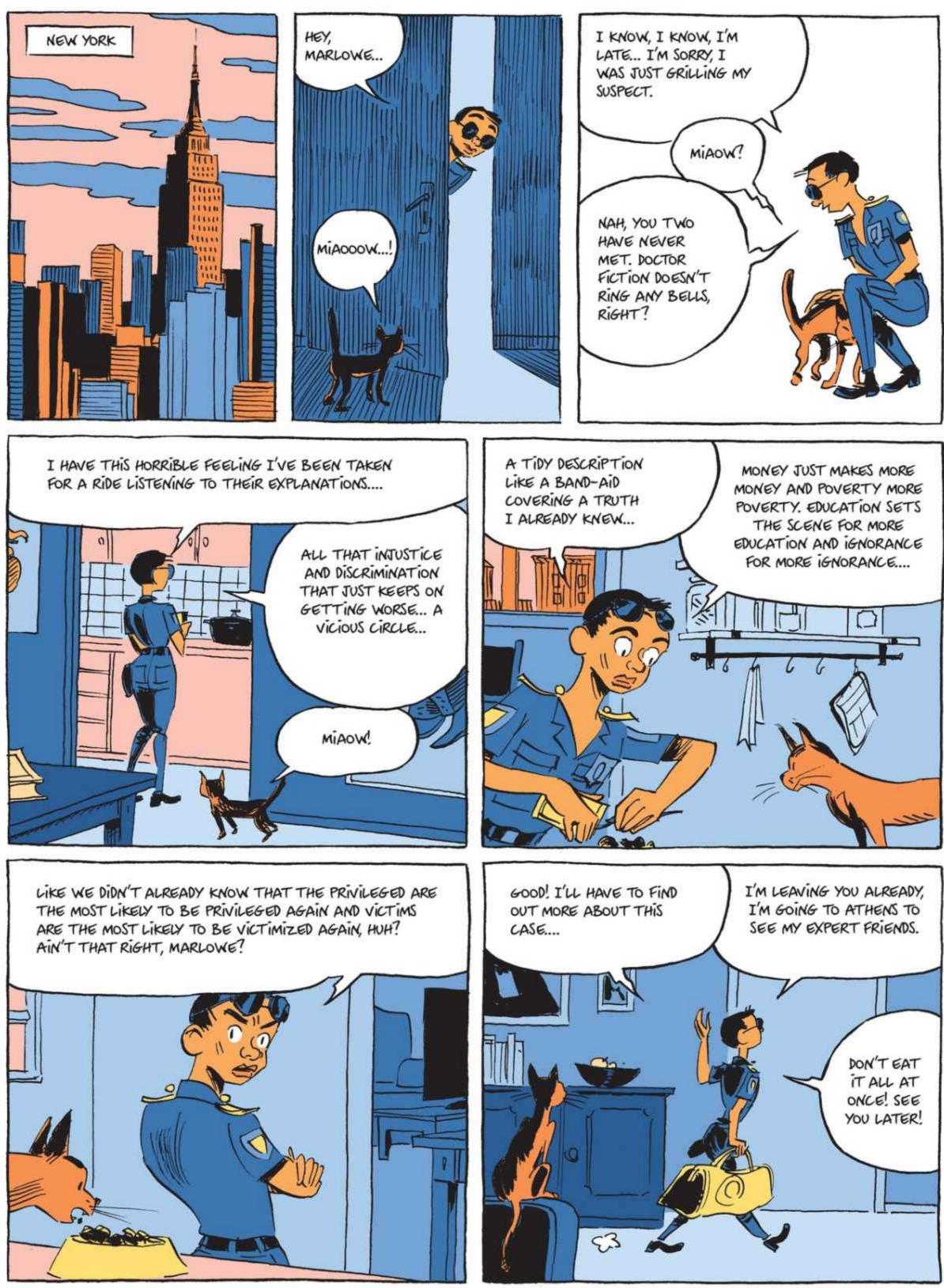
AND DON'T FORGET PURITY'S BFF-BEAUTY! WITH RACIST MYTHS GETTING DEEPER AND DEEPER INTO THE AMERICAN IMAGINATION, THE ENTIRETY OF AESTHETIC STANDARDS IN THE US WERE BUILT ON WHITE STANDARDS OF BEAUTY. WHITE PEOPLE'S PHYSICAL CHARACTERISTICS WERE PRESENTED AS THE GO-TO LOOK...



...WHILE BLACK PEOPLE WERE KEPT OUT OF THE MEDIA ON THE SPURIOUS BASIS THAT BLACK PEOPLE WERE LESS ATTRACTIVE. AND THESE PREJUDICES ABOUT LOOKS TOOK THE IMAGINED RACIAL HIERARCHY DEEP INTO THE HUMAN PSYCHE











WELL, IT DEPENDS ON THE HIERARCHIES. IN BEES, THERE'S A SIMPLE BIOLOGICAL EXPLANATION FOR THE HIERARCHY BETWEEN QUEEN BEES AND WORKER BEES. THEY HAVE DIFFERENT BODIES AND BRAINS.



AND HUMANS HAVE SO MANY DIFFERENT KINDS OF HIERARCHIES. IF IT WERE A BIOLOGICAL MECHANISM, YOU'D EXPECT THE SAME HIERARCHY IN ALL HUMAN

AS A BIOLOGIST, I AM NOT REALLY THE PERSON TO EXPLAIN THE BEWILDERING DIVERSITY OF HUMAN HIERARCHIES, BUT YOU COULD ASK MY ANTHROPOLOGIST FRIEND AIKO YOSHITA ....



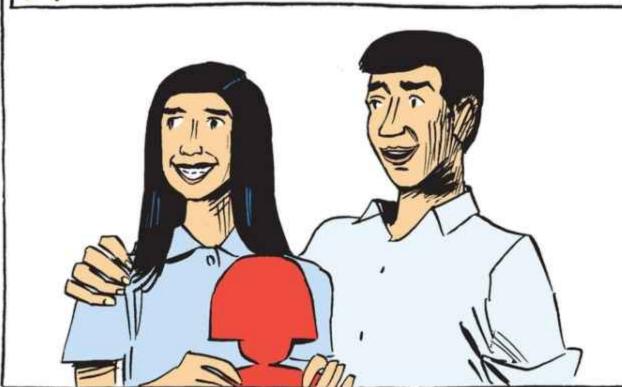




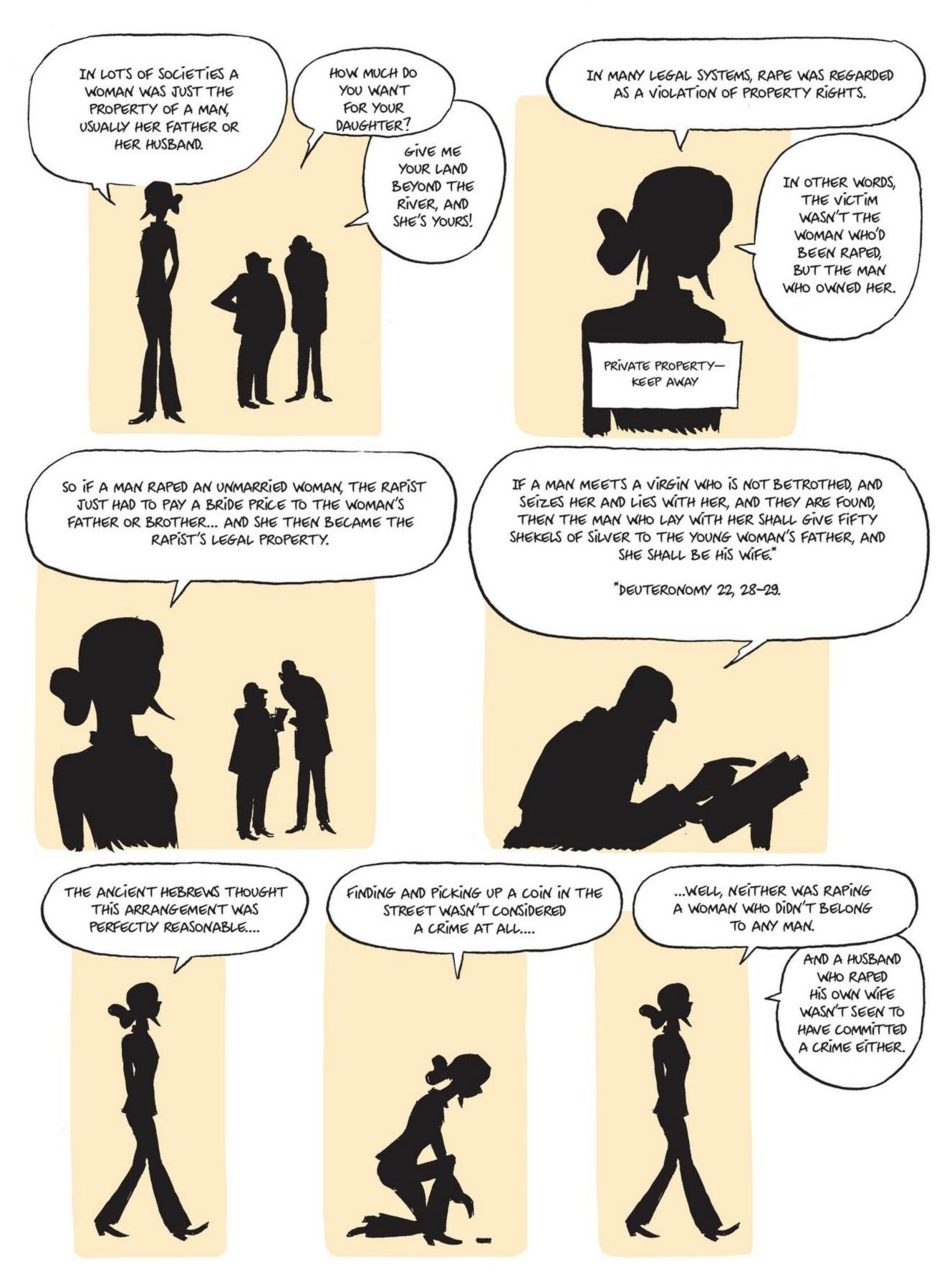


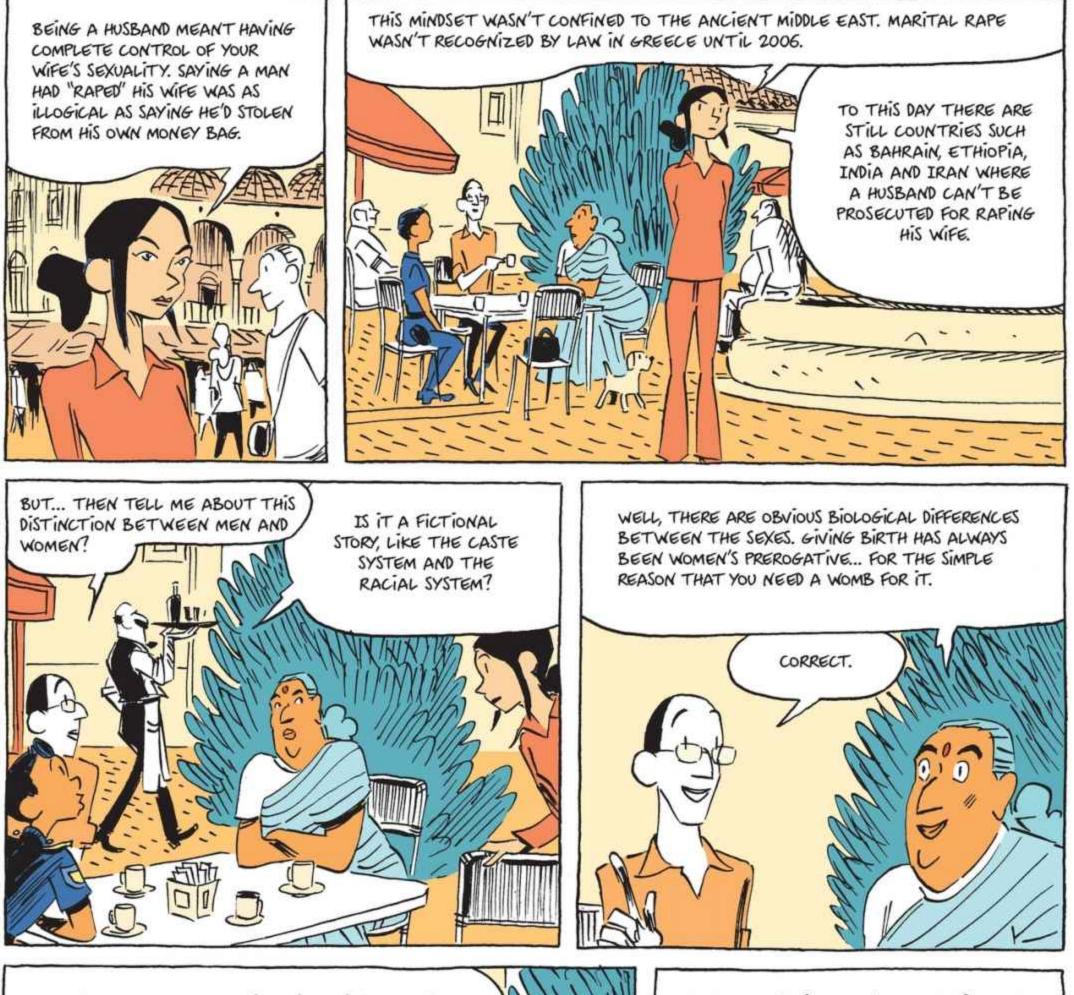


TODAY, MORE THAN 3,000 YEARS LATER, THERE ARE STILL A LOT OF PEOPLE WHO BELIEVE THAT HAVING A BABY GIRL IS BAD LUCK ....



GIRLS ARE SOMETIMES ABANDONED, NEGLECTED-OR WORSE. IN RECENT DECADES, SUCH PRACTICES HAVE RESULTED IN A SKEWED SEX RATIO IN SOME PROVINCES OF CHINA, INDIA AND SEVERAL OTHER COUNTRIES. AN EXTREME EXAMPLE COMES FROM A 2005 SURVEY IN THE PROVINCE OF JIANGXI, WHICH FOUND THAT BETWEEN AGES ONE AND FOUR, THERE WERE ONLY 699 GIRLS FOR EVERY 1,000 BOYS!





SO, YES, THERE ARE CLEAR BIOLOGICAL DIFFERENCES... AND THIS IS REFLECTED IN COUNTLESS CULTURAL, LEGAL AND POLITICAL DISPARITIES BETWEEN MEN AND WOMEN. BUT EVERY SOCIETY HAS TAKEN THIS KERNEL OF UNIVERSAL TRUTH AND THEN ADDED LAYERS AND LAYERS OF CULTURAL IDEAS AND NORMS THAT HAVE VERY LITTLE TO DO WITH BIOLOGY....

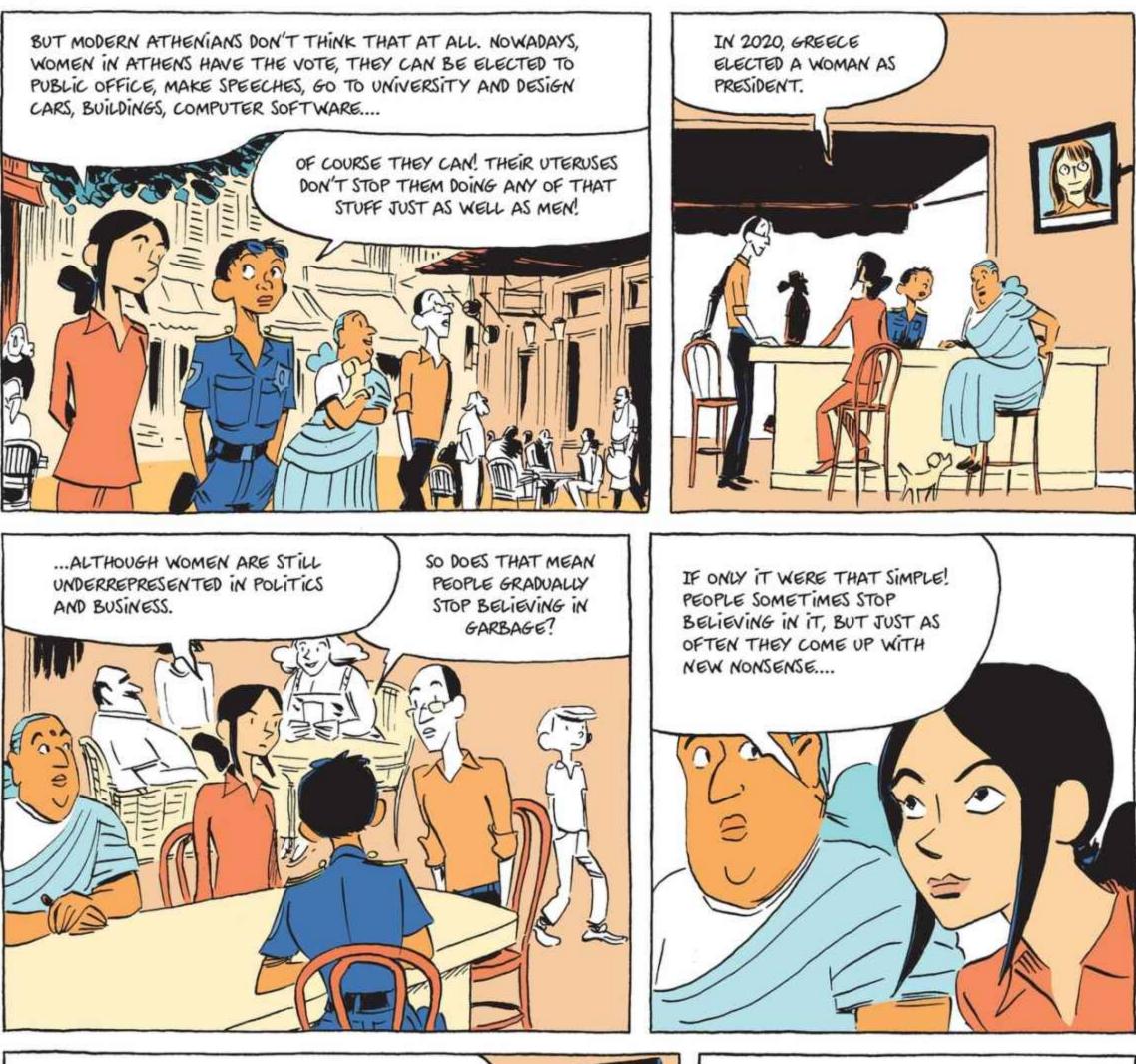




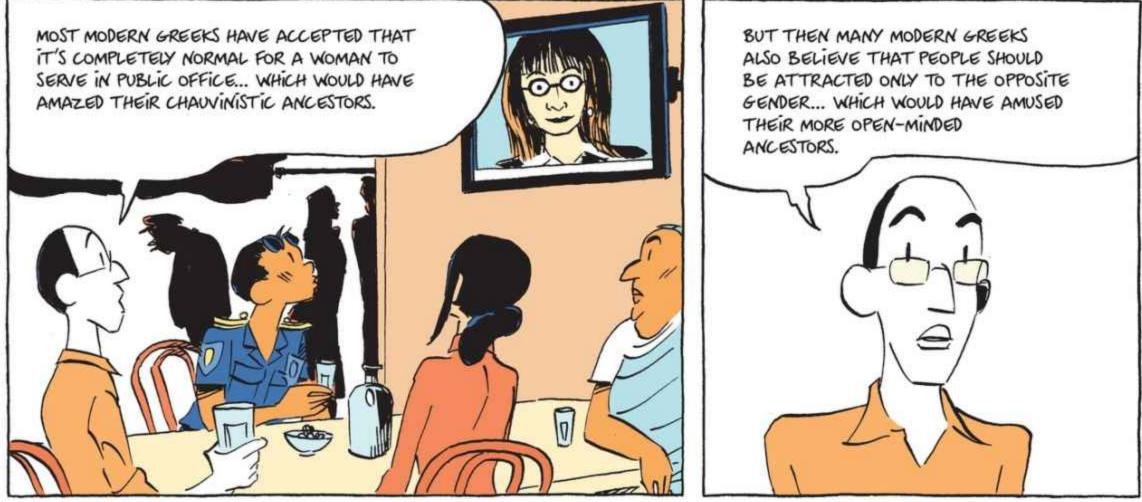




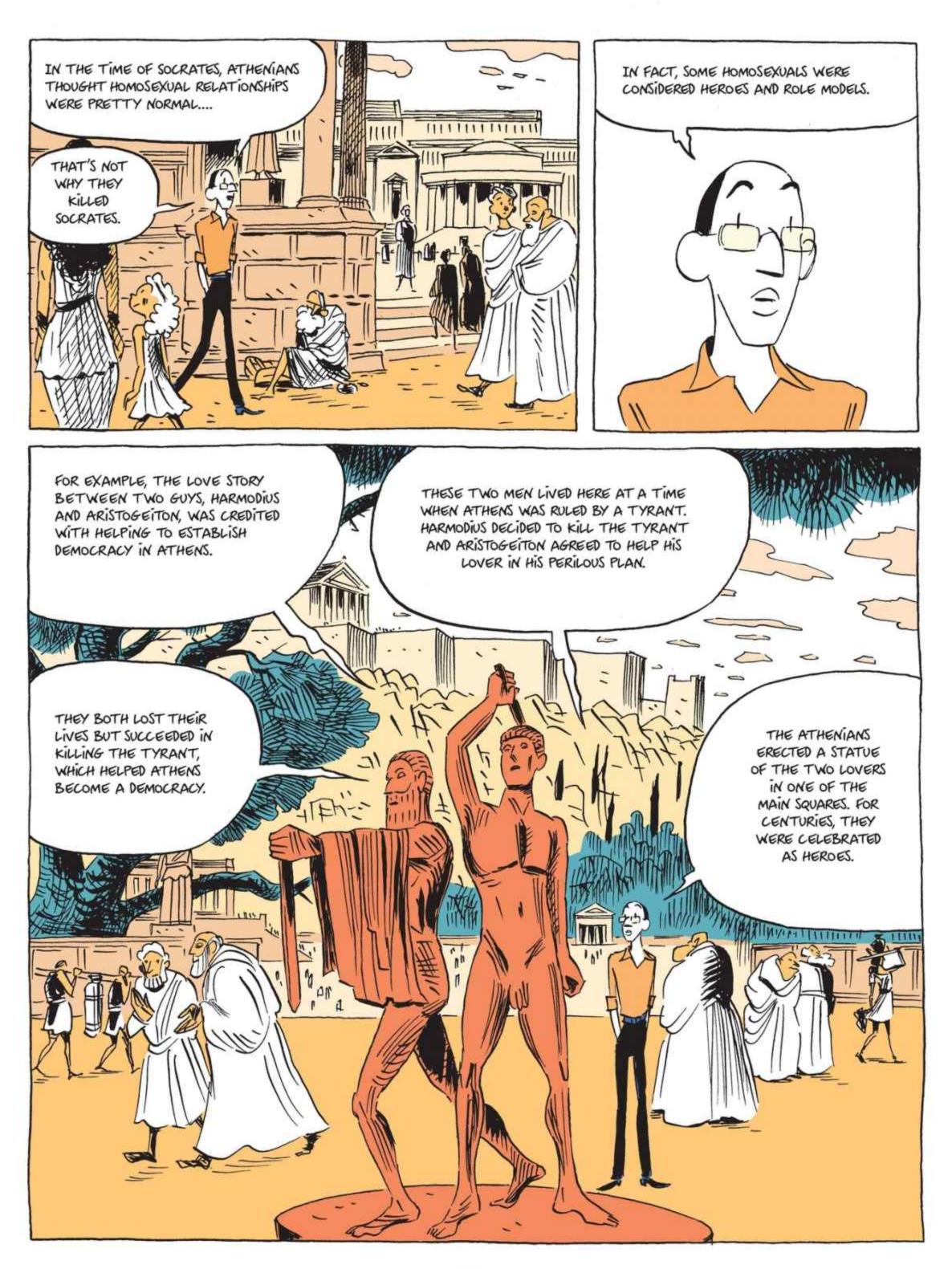


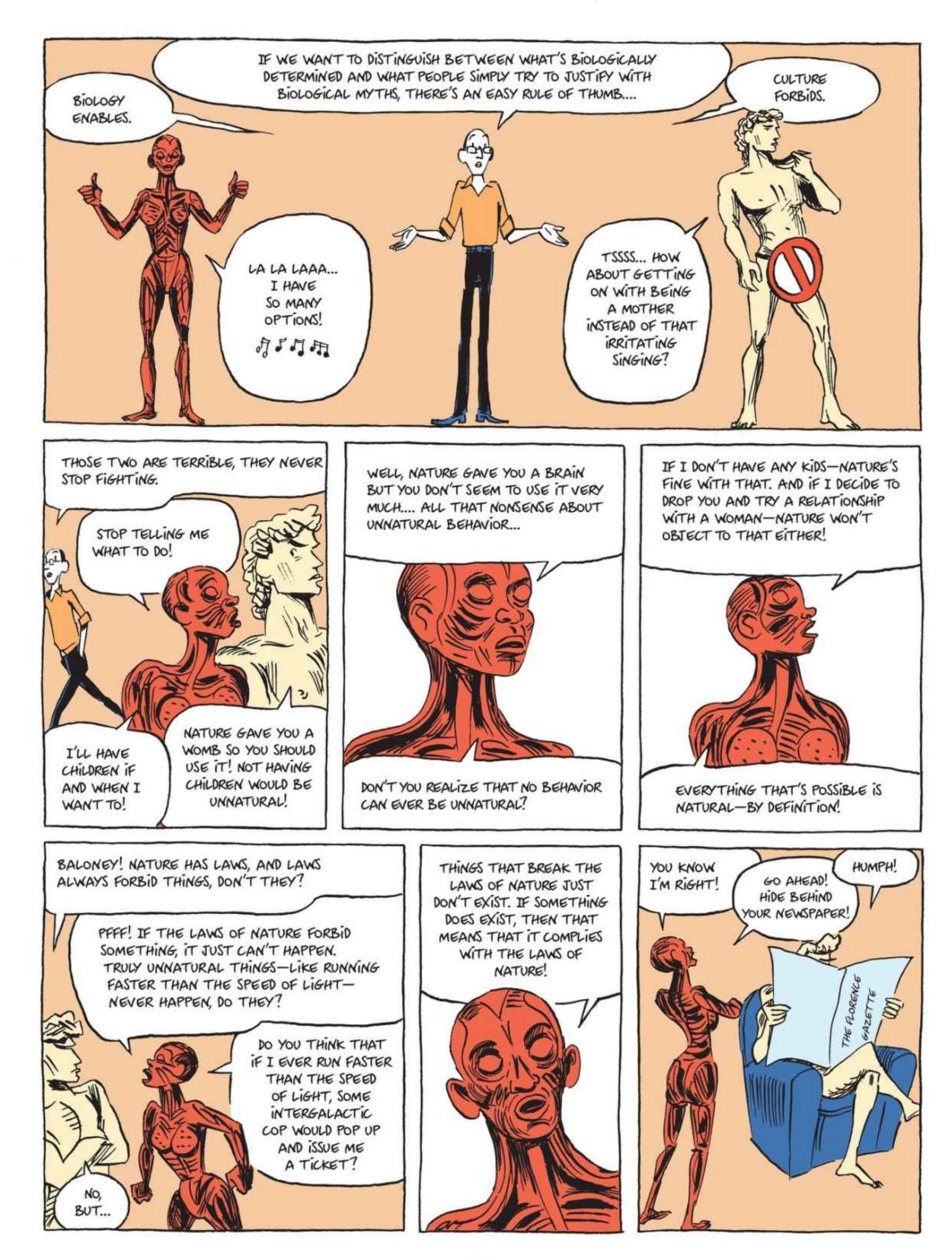


IT'S COMPLETELY NORMAL FOR A WOMAN TO









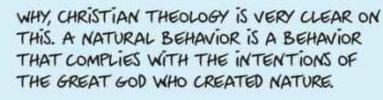
# **THE FLORENCE GAZETTE**

### MORNING EDITION

## Interview with Pope Julius II

November 8, 1504

YOUR HOLINESS, HOW DO WE KNOW WHAT IS NATURAL BEHAVIOR, AND WHAT IS UNNATURAL?



**VENDÉE GLOBE: Christopher Columbus** returns triumphant. From our Cadiz correspondent:



**CONTEMPORARY ART:** Our culture editor has had a first glimpse of Leonardo's new portrait of Lisa del Giocondo.

YOU SHOULD HAVE

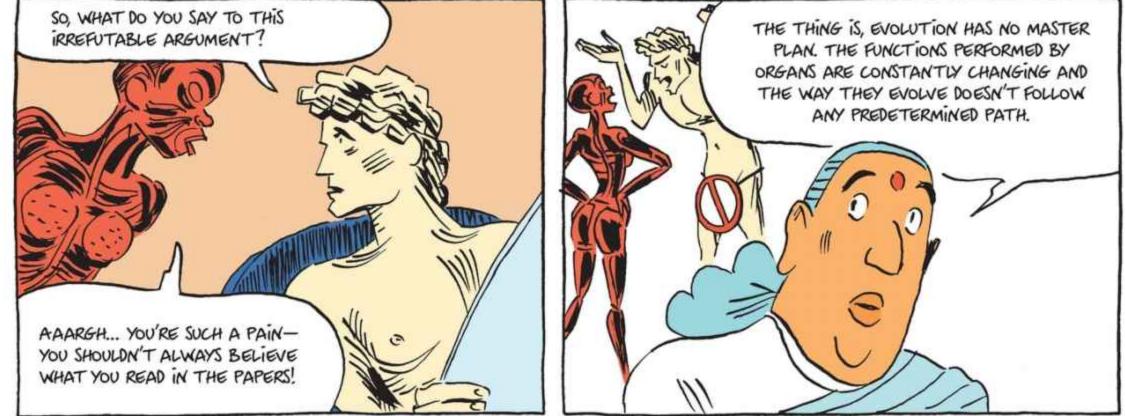
GIVEN HER A BIT MORE OF A SMILE ...

WHEN GOD CREATED THE HUMAN BODY, HE INTENDED EVERY LIMB AND ORGAN TO SERVE A VERY PARTICULAR PURPOSE.

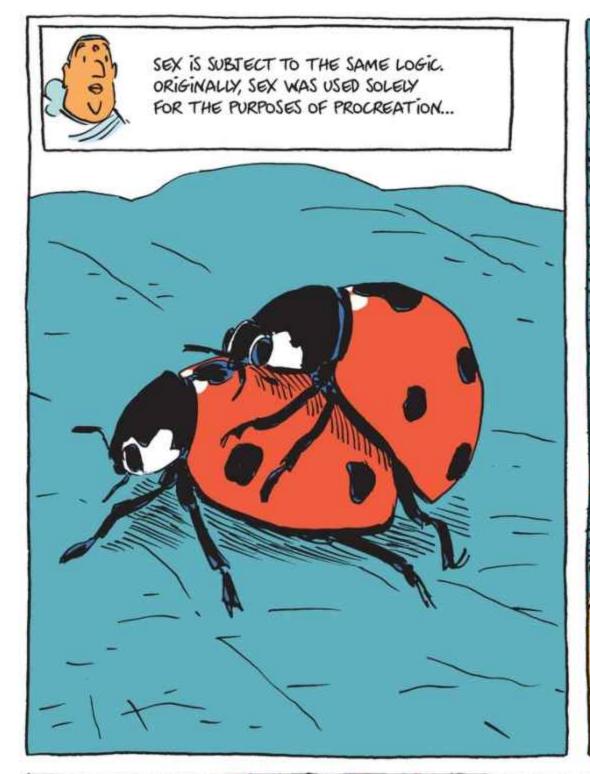


IF WE USE OUR LIMBS AND ORGANS FOR THE PURPOSES ENVISIONED BY GOD, THAT IS NATURAL BEHAVIOR. USING THEM IN ANY OTHER WAY IS UNNATURAL.

FOR EXAMPLE, USING OUR SEXUAL ORGANS FOR PROCREATION IS NATURAL-THAT IS WHAT GOD INTENDED. BUT USING THEM FOR ANY OTHER PURPOSE IS UNNATURAL! IT IS A SIN!









... THEN IT EVOLVED TO INCLUDE COURTSHIP RITUALS TO EVALUATE A POTENTIAL MATE'S FITNESS AND SUITABILITY ....



LOTS OF ANIMALS NOW USE THEIR SEXUALITY FOR ALL SORTS OF SOCIAL INTERACTIONS THAT DON'T HAVE MUCH TO DO WITH MAKING LITTLE COPIES OF THEMSELVES. MOST SEXUAL ACTIVITY AMONG CHIMPANZEES DOESN'T LEAD TO PROCREATION. IS THAT UNNATURAL?

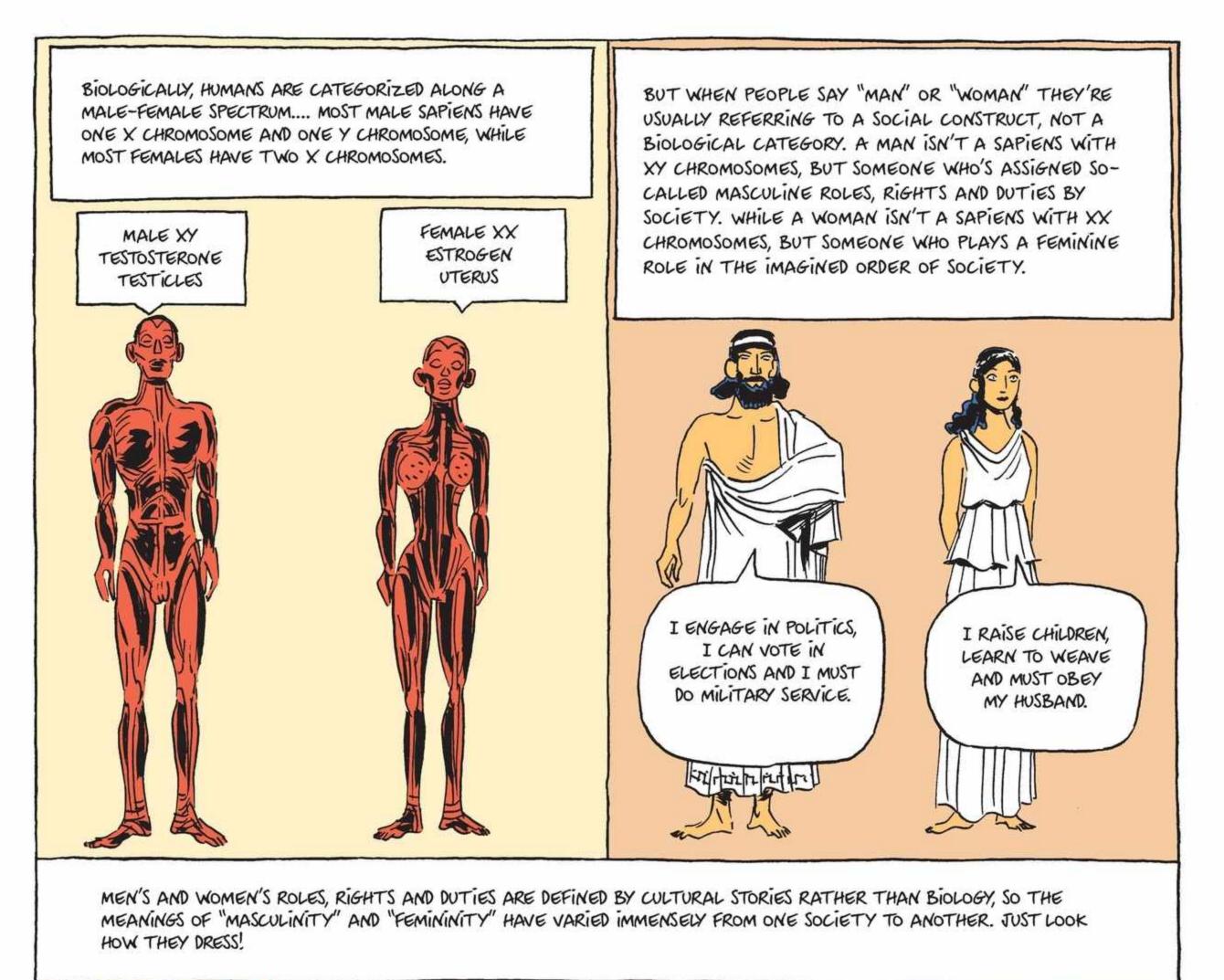
THE SAME LOGIC APPLIES TO HUMANS. THERE IS LITTLE SENSE IN ARGUING THAT THE NATURAL FUNCTION OF WOMEN IS TO GIVE BIRTH, OR THAT HOMOSEXUALITY IS UNNATURAL.



MOST OF THE LAWS, NORMS, RIGHTS AND OBLIGATIONS THAT DEFINE MASCULINITY AND FEMININITY REFLECT CULTURAL PREFERENCES MORE THAN BIOLOGICAL NECESSITIES.

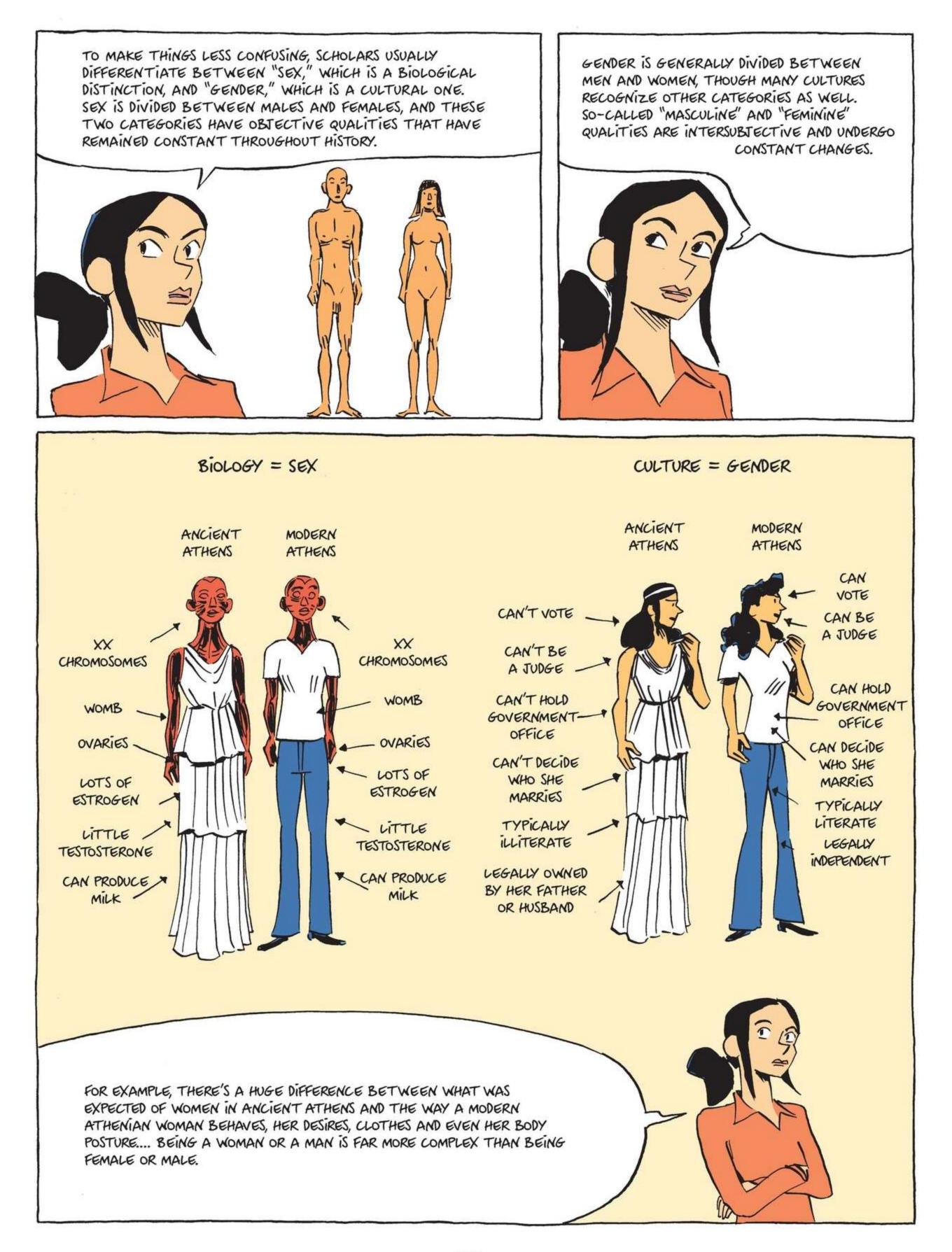
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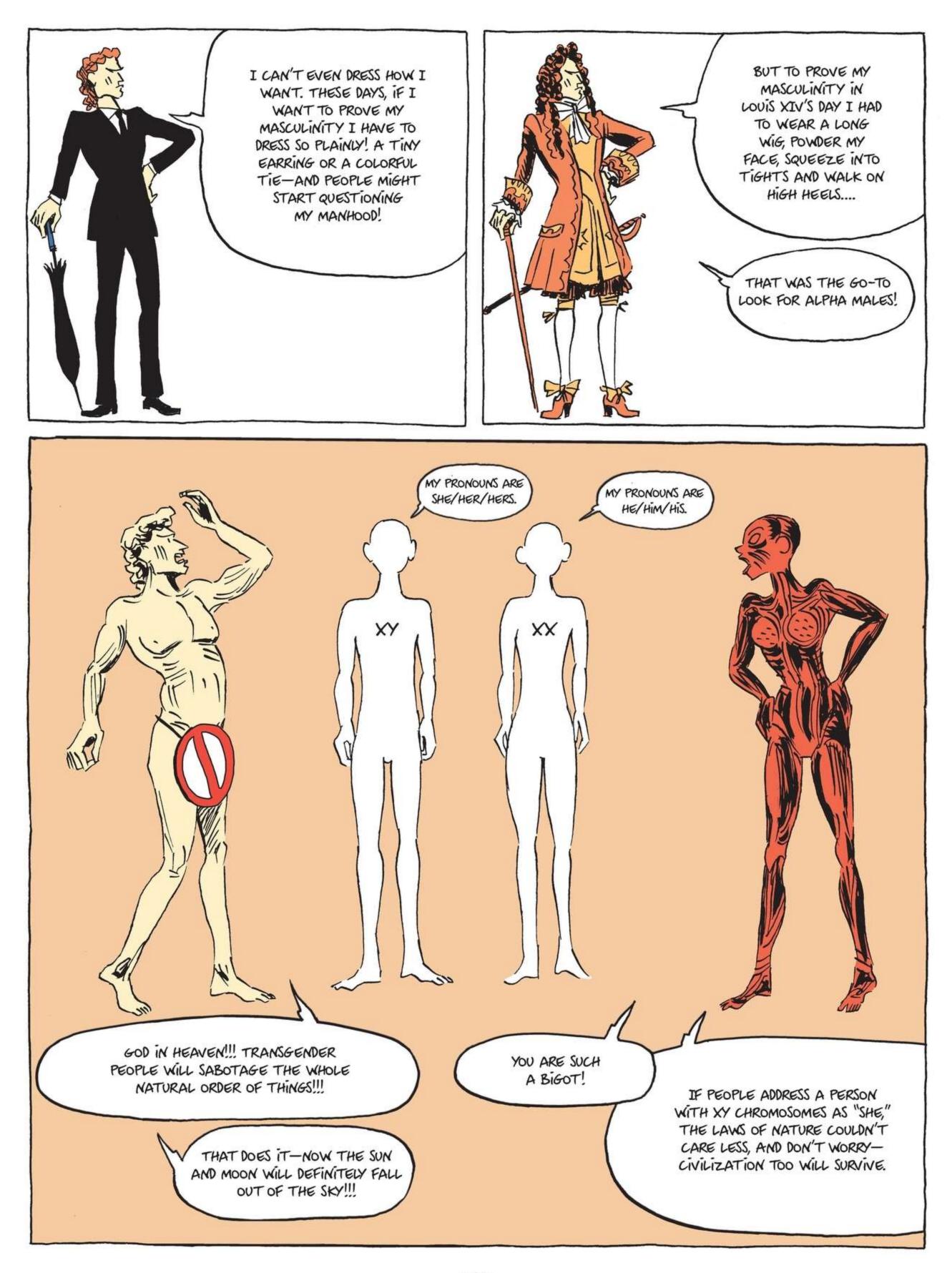


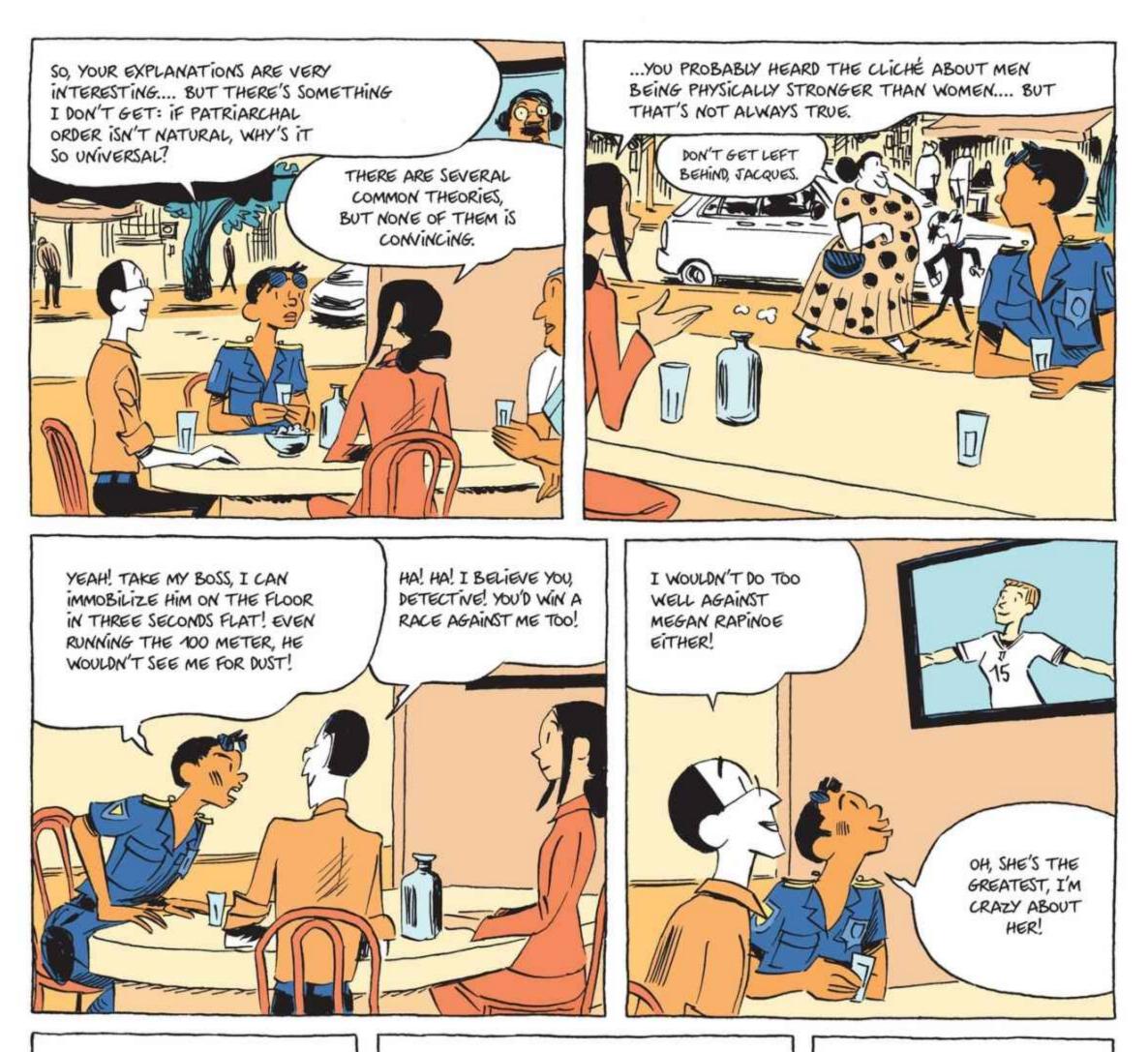












AND ACTUALLY, WITH OTHER TYPES OF PHYSICAL STRENGTH LIKE COPING WITH FAMINE, ILLNESS AND EXHAUSTION, WOMEN USUALLY COME OFF BETTER THAN MEN.

AND ANYWAY, WHAT'S THE CONNECTION BETWEEN MUSCLE POWER AND, SAY, FORBIDDING WOMEN FROM SERVING AS JUDGES? I MEAN, EXACTLY HOW MUCH MUSCLE POWER DO YOU NEED TO SIT AROUND IN A BIG CHAIR ALL DAY LISTENING TO ADAMSKI'S ENDLESS SPEECHES?

BUT WHEN IT CAME TO CLEANING FLOORS OR WORKING IN FIELDS, EVERYBODY ALWAYS THOUGHT WOMEN HAD PLENTY OF MUSCLE POWER.







EVEN MORE IMPORTANT, THERE'S SIMPLY NO DIRECT LINK BETWEEN PHYSICAL STRENGTH AND SOCIAL POWER. POWER USUALLY DEPENDS ON SOCIAL SKILLS RATHER THAN BRUTE FORCE.



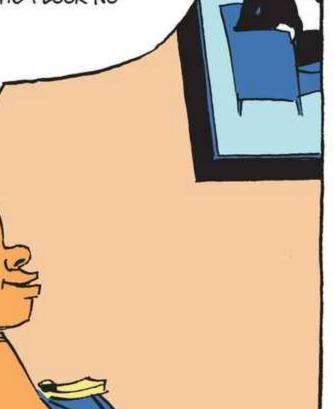
THE REAL KEYS TO SOCIAL CONTROL ARE UNDERSTANDING WHAT OTHER PEOPLE THINK AND PULLING STRINGS WITH FRIENDS AND CONNECTIONS!





JUST THINK ABOUT THE PEOPLE AT THE DAVOS CONFERENCE—THE POPE, THE HEAVYWEIGHTS AT FACEBOOK AND ALIBABA, THE PRESIDENTS OF THE UNITED STATES OR CHINA... THEY'RE ALL MEN BUT THEY'RE HARDLY BOXING CHAMPIONS....

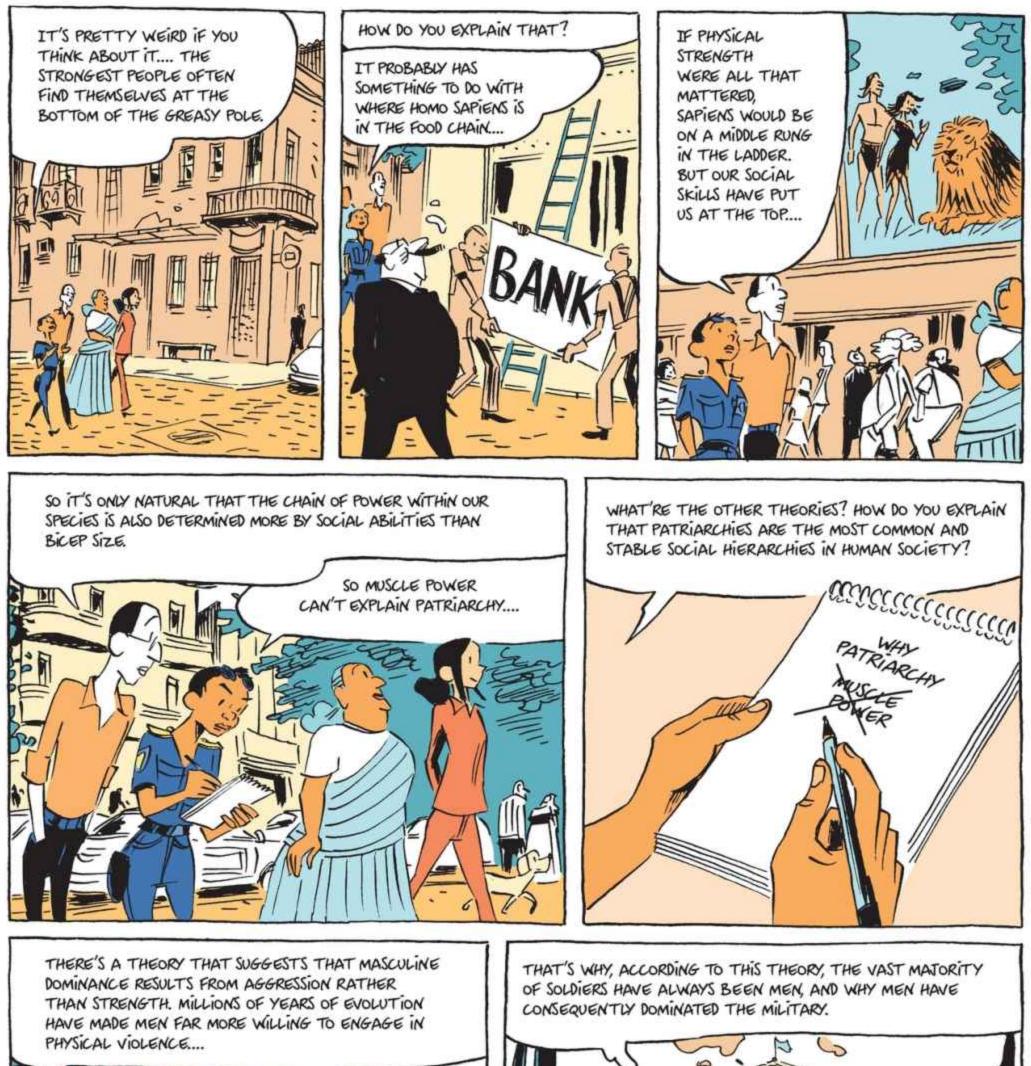
MEGAN RAPINOE COULD PROBABLY PIN THEM TO THE FLOOR NO PROBLEM!

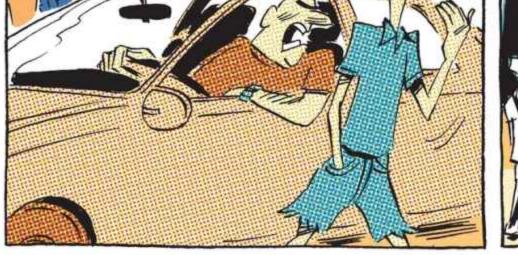


I CAN TELL YOU IT'S THE SAME IN THE MAFIA. THE GODFATHER'S OFTEN AN OLDER MAN WHO VERY RARELY USES HIS OWN FISTS. HE GETS THE YOUNGER MEN AROUND HIM TO DO THE DIRTY WORK.

ANYONE WHO THINKS YOU JUST HAVE TO PUNCH THE DON TO TAKE OVER THE SYNDICATE PROBABLY WOULDN'T LIVE LONG ENOUGH TO LEARN FROM HIS MISTAKE!









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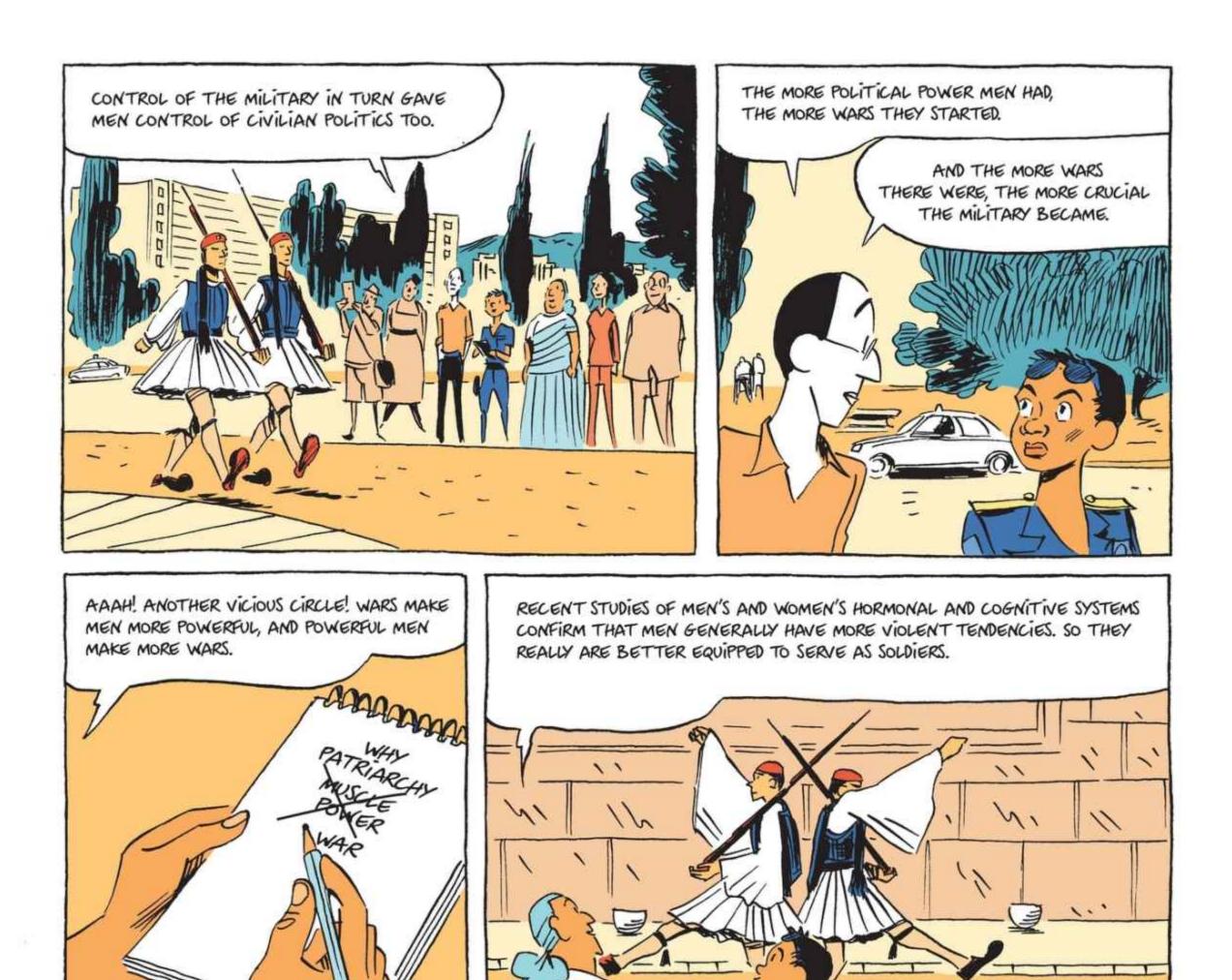


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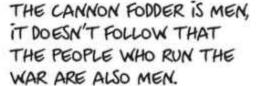
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BUT SOMETHING DOESN'T MAKE SENSE HERE. IF ALL

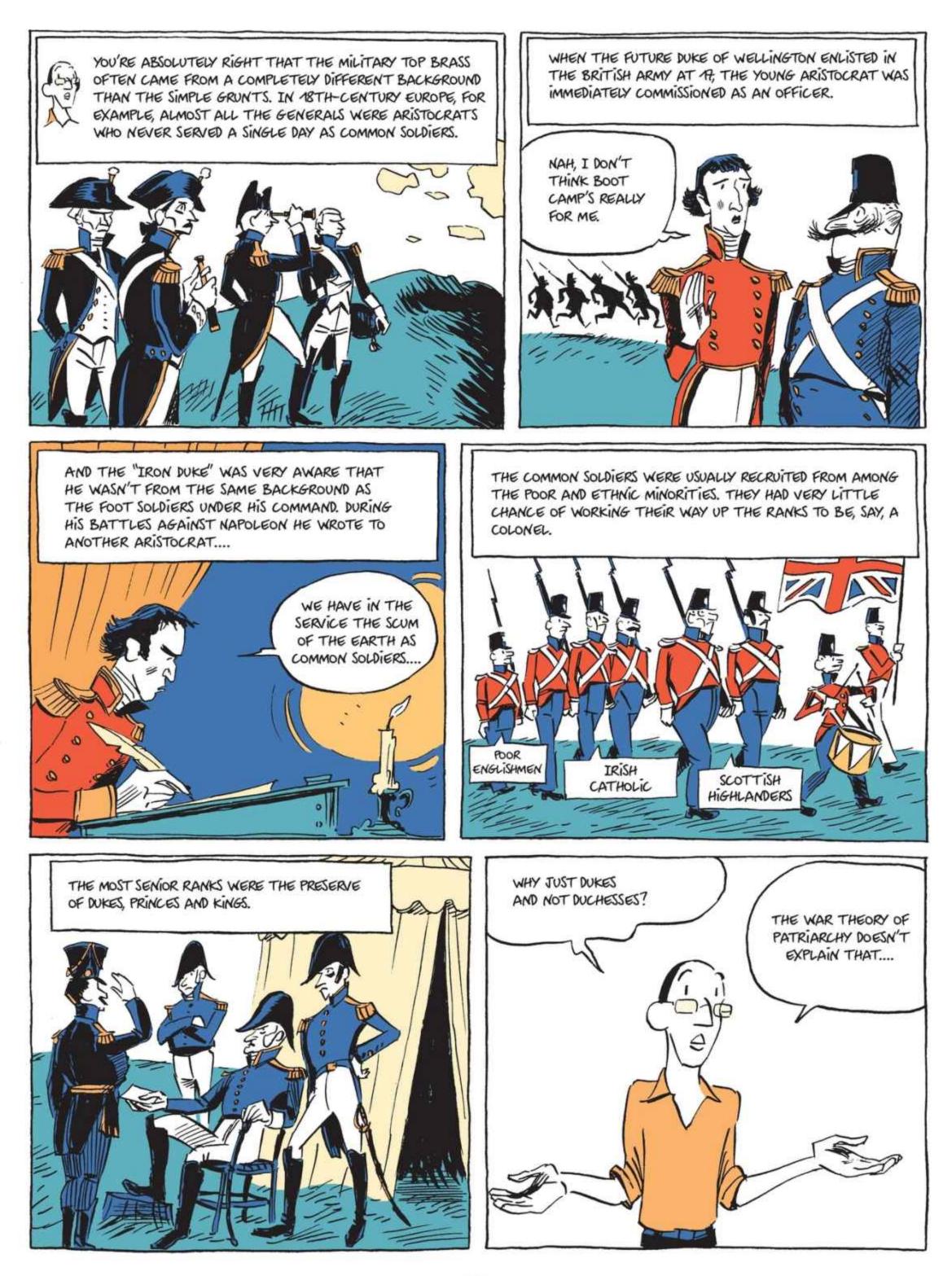
EVEN IF MEN ARE BETTER SUITED TO THE BATTLEFIELD, WHY CAN'T FEMALE MINISTERS DIRECT AN ARMY FULL OF MEN?





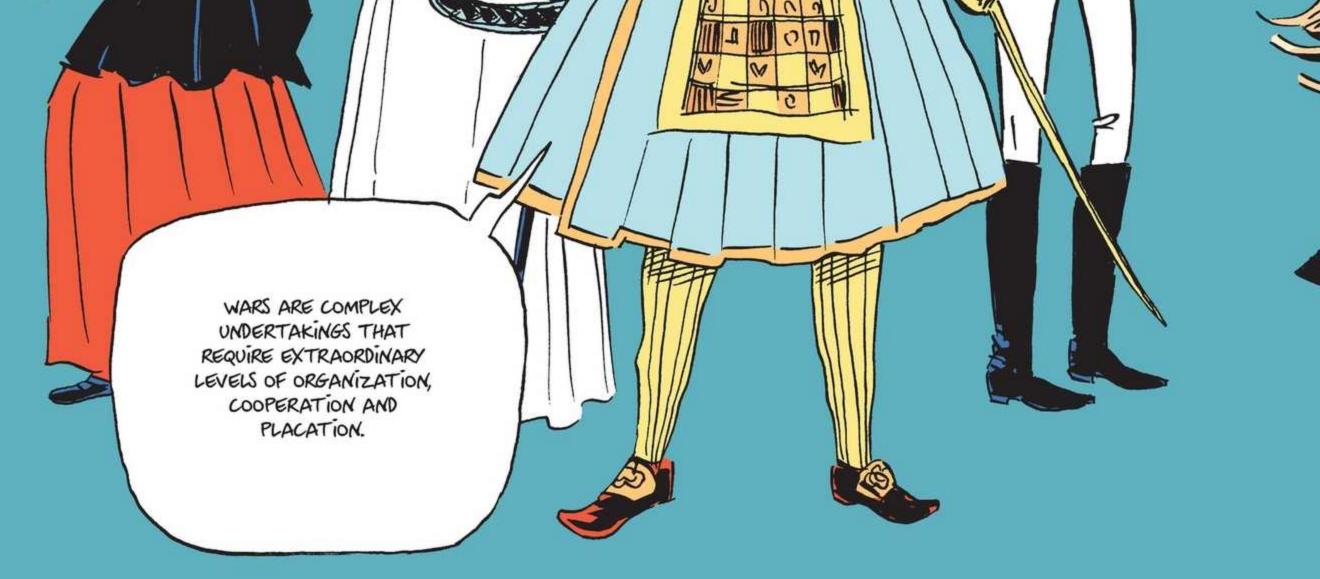














AN AGGRESSIVE BRUTE IS PROBABLY THE WORST CHOICE TO RUN A WAR. BETTER TO HAVE SOMEONE WHO CAN COOPERATE, APPEASE, MANIPULATE AND APPRECIATE DIFFERENT POINTS OF VIEW. THAT'S WHAT IT TAKES TO BE AN EMPIRE BUILDER!

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WE WOMEN ARE USUALLY STEREOTYPED AS BEING BETTER AT MANIPULATING AND APPEASING THAN MEN. WE'RE ALSO SAID TO BE BETTER AT UNDERSTANDING OTHER PEOPLE AND SEEING THEIR POINT OF VIEW.

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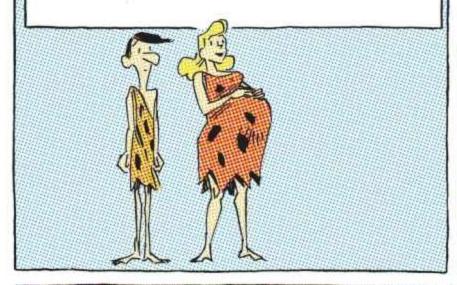
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IF THAT'S TRUE, WOMEN SHOULD HAVE MADE EXCELLENT POLITICAL LEADERS AND EMPIRE BUILDERS! AS FOR THE DIRTY WORK ON THE BATTLEFIELDS-WELL, THAT COULD BE LEFT TO BONEHEADED MACHOS PUMPED FULL OF TESTOSTERONE!

> BUT THAT HARDLY EVER HAPPENED, EXCEPT IN POPULAR MYTHS... AND THE WAR THEORY OF PATRIARCHY DOESN'T EXPLAIN WHY.

THE ROMAN EMPEROR AUGUSTUS WAS AN UNIMPRESSIVE WARRIOR, BUT THAT DIDN'T STOP HIM ESTABLISHING A STABLE REGIME. HE WAS FAR MORE SUCCESSFUL AT THAT THAN JULIUS CAESAR AND ALEXANDER THE GREAT. THEY WERE BETTER GENERALS THAN HIM, BUT HE WAS FAR BETTER AT WINNING SUPPORTERS AND RECONCILING ENEMIES!

AND THEN THERE'S A THIRD POPULAR THEORY. IT SUGGESTS THAT THE INEQUALITIES BETWEEN MEN AND WOMEN ARE NOT TO DO WITH MEN'S VIOLENCE AND BRUTE FORCE BUT ARE BECAUSE MEN AND WOMEN EVOLVED DIFFERENT REPRODUCTIVE STRATEGIES.



OVER TIME, IT WAS THE MOST AMBITIOUS, AGGRESSIVE AND COMPETITIVE MEN WHO PASSED ON THEIR MALE GENES TO FUTURE GENERATIONS.



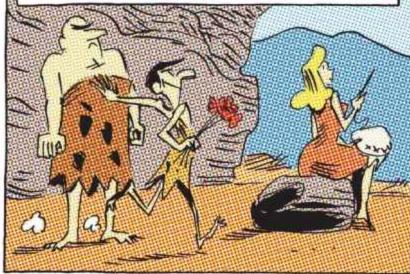
BUT HER GENES WOULDN'T HAVE GONE FAR IF SHE DIDN'T CARRY THE FETUS FOR NINE DIFFICULT MONTHS AND THEN NURTURED HER CHILD FOR MANY YEARS TO COME.



MEN COMPETED FOR OPPORTUNITIES TO IMPREGNATE AS MANY FERTILE WOMEN AS POSSIBLE. MISSION ACCOMPLISHED, THEY COULD IMMEDIATELY MOVE ON.

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THE WEATHER DATE AND A DATE



THIS STRATEGY WOULD HAVE BEEN POINTLESS FOR A WOMAN. SHE HAD NO TROUBLE FINDING MEN WILLING TO IMPREGNATE HER....



IT WAS VERY TOUGH TO DO ALL THAT BY HERSELF. SO, ACCORDING TO THIS THEORY, SHE NEEDED A MAN'S HELP.



IF A WOMAN WANTED A MAN TO STAY AROUND AND SHARE SOME OF THE BURDEN, SHE HAD LITTLE CHOICE BUT TO AGREE TO HIS CONDITIONS.



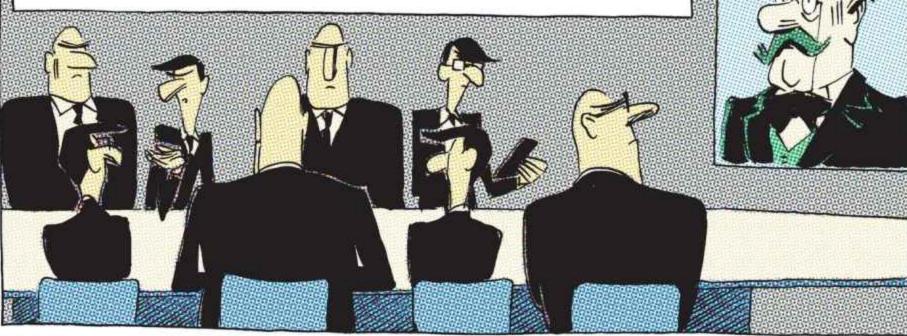
OVER TIME, IT WAS THE MOST SUBMISSIVE, NURTURING WOMEN WHO PASSED ON THEIR FEMALE GENES TO FUTURE GENERATIONS.

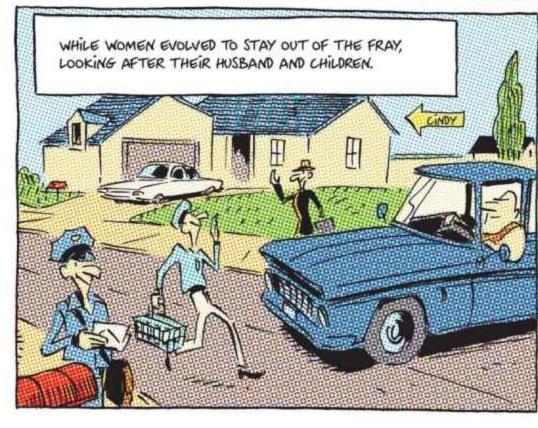


THE THEORY GOES THAT DUE TO THESE DIFFERENT REPRODUCTIVE STRATEGIES, MEN EVOLVED TO BE AMBITIOUS AND COMPETITIVE, AND TO EXCEL IN POLITICAL POWER STRUGGLES....

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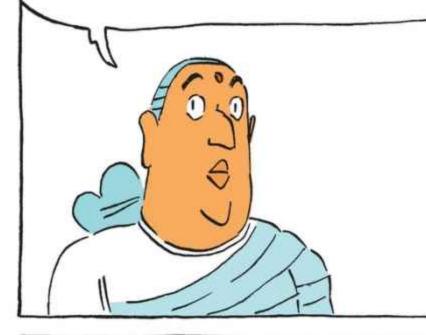
BUT THIS THEORY TOO IS HIGHLY PROBLEMATIC, AND IS BASED ON A NUMBER OF DUBIOUS ASSUMPTIONS....



PROFESSOR YOSHITA'S RIGHT TO BE PUZZLED. IN ANIMAL SPECIES LIKE ELEPHANTS AND BONOBOS THE DYNAMIC BETWEEN DEPENDENT FEMALES AND COMPETITIVE MALES HAS PRODUCED NOT PATRIARCHIES BUT MATRIARCHAL SOCIETIES.



IT TAKES A LOT OF HELP AND COOPERATION TO RAISE YOUNG BONOBOS. SO MOTHERS HAVE TO DEVELOP THEIR SOCIAL SKILLS. THEY LEARN TO WORK TOGETHER, MAKE COMPROMISES AND UNDERSTAND WHAT OTHERS THINK AND WANT.



FEMALE BONOBOS USE THESE SKILLS TO BUILD STRONG NETWORKS OF FEMALE FRIENDS WHO HELP ONE ANOTHER.



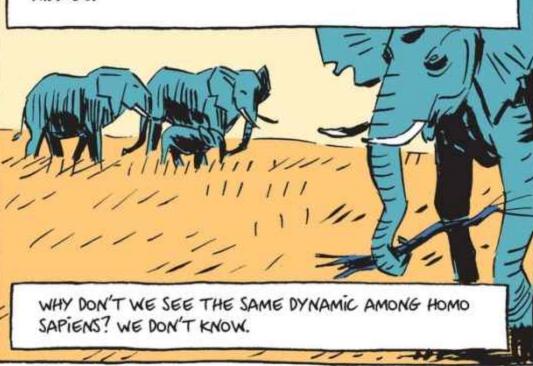
SO BONOBO SOCIETIES ARE DOMINATED BY FEMALE NETWORKS. BONOBO MALES ARE BIGGER AND STRONGER THAN THE FEMALES, BUT IF A MALE MISTREATS A FEMALE, HER FRIENDS ARE VERY QUICK TO HELP HER AND TEACH THE BULLY A LESSON.

MEANWHILE, THE MALES SPEND THEIR TIME FIGHTING AND COMPETING AMONG THEMSELVES. THIS MEANS THE MALES DON'T DEVELOP THEIR COOPERATIVE SKILLS AND DON'T FORM MANY STRONG FRIENDSHIPS.

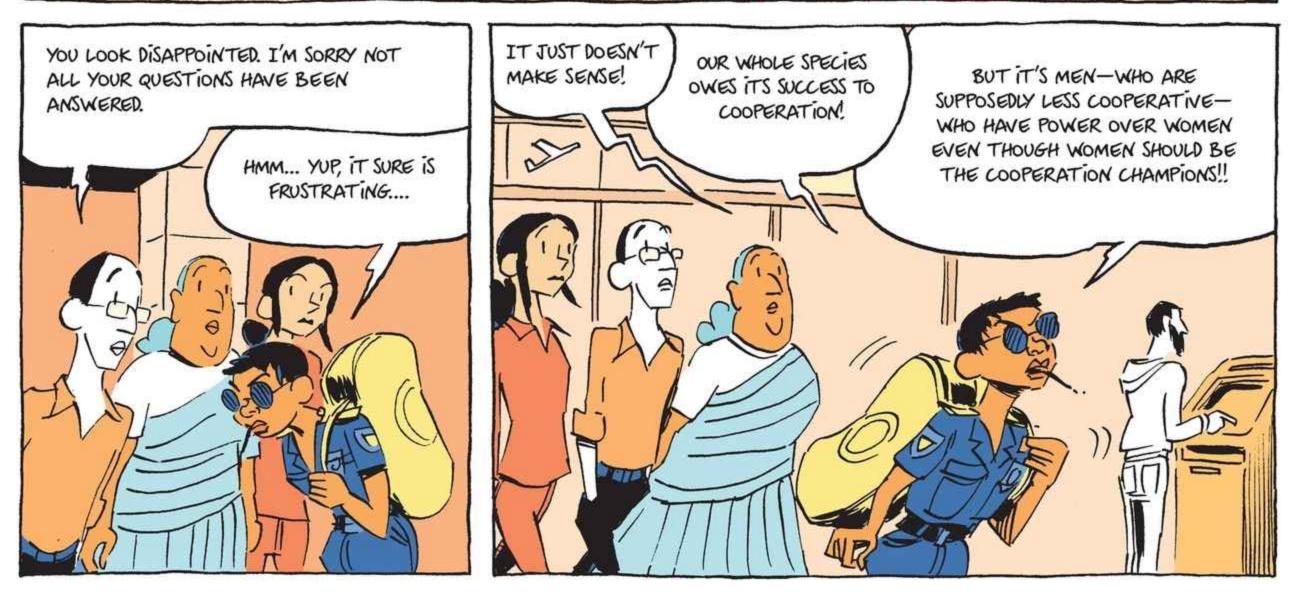


IT'S THE SAME WITH AFRICAN ELEPHANTS. THEIR SOCIETIES ARE CONTROLLED BY DOMINANT FEMALES WHO MAKE ALL THE MAJOR DECISIONS ABOUT WHERE THE HERD WILL GO.

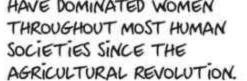




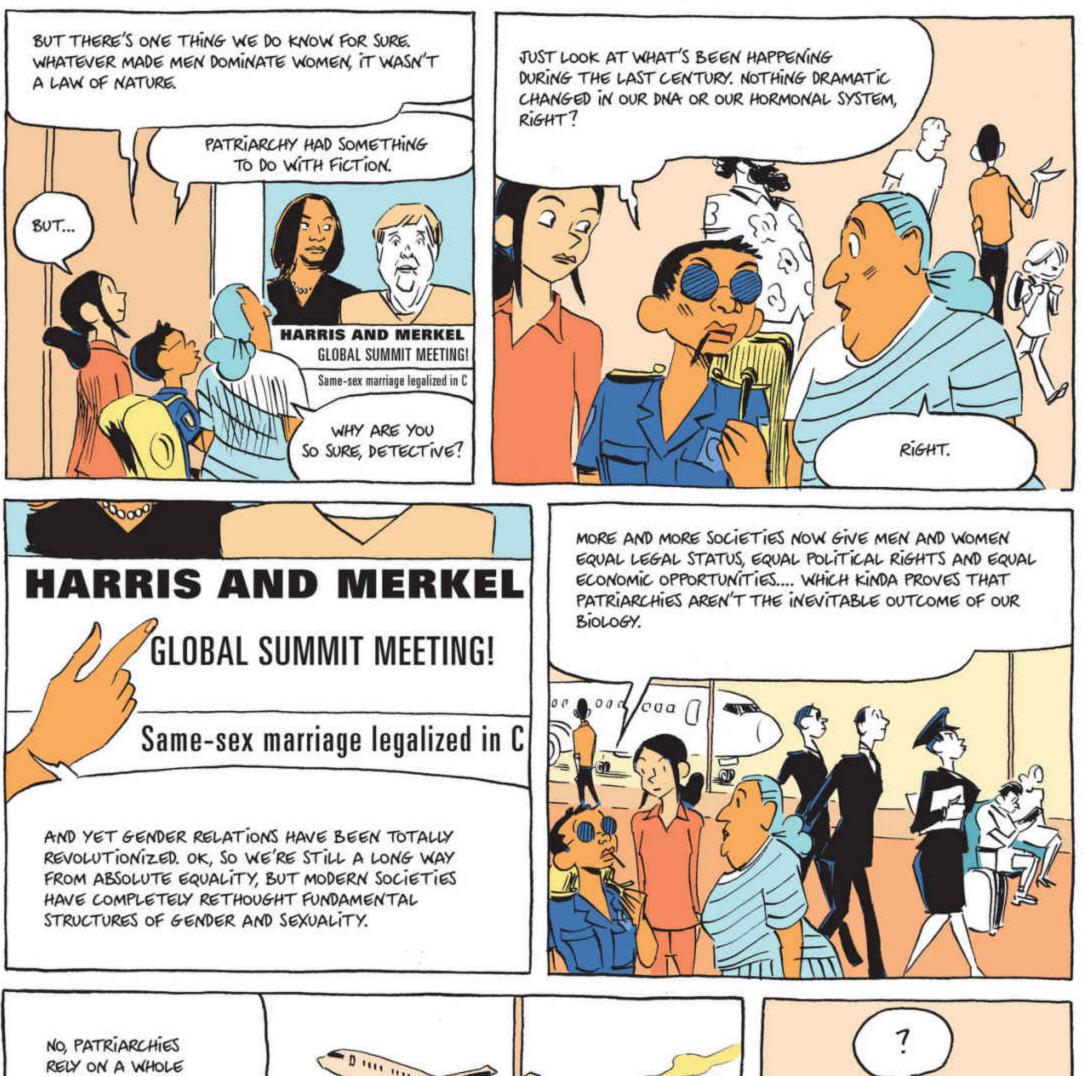












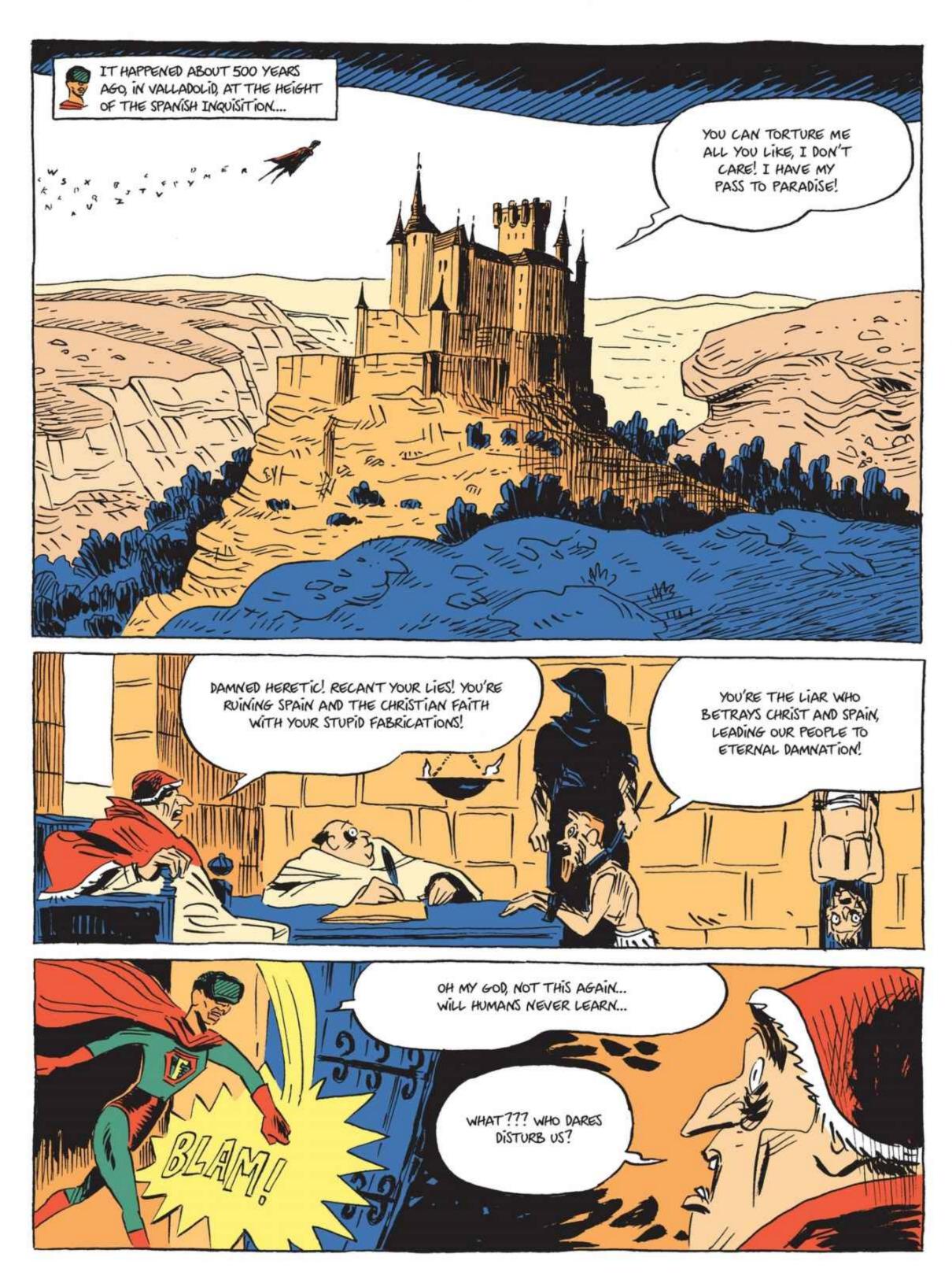
BUNCH OF MYTHS





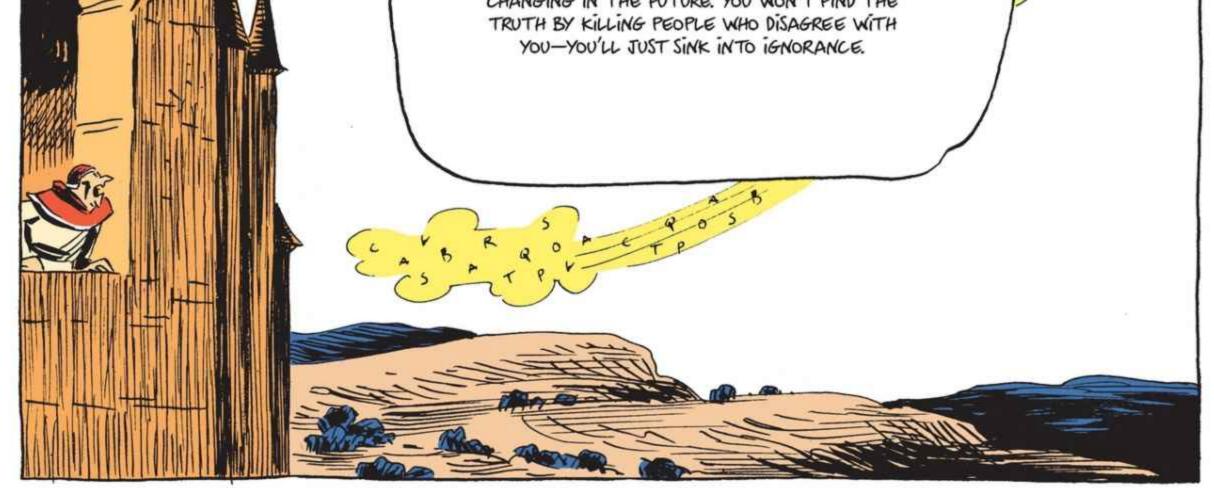


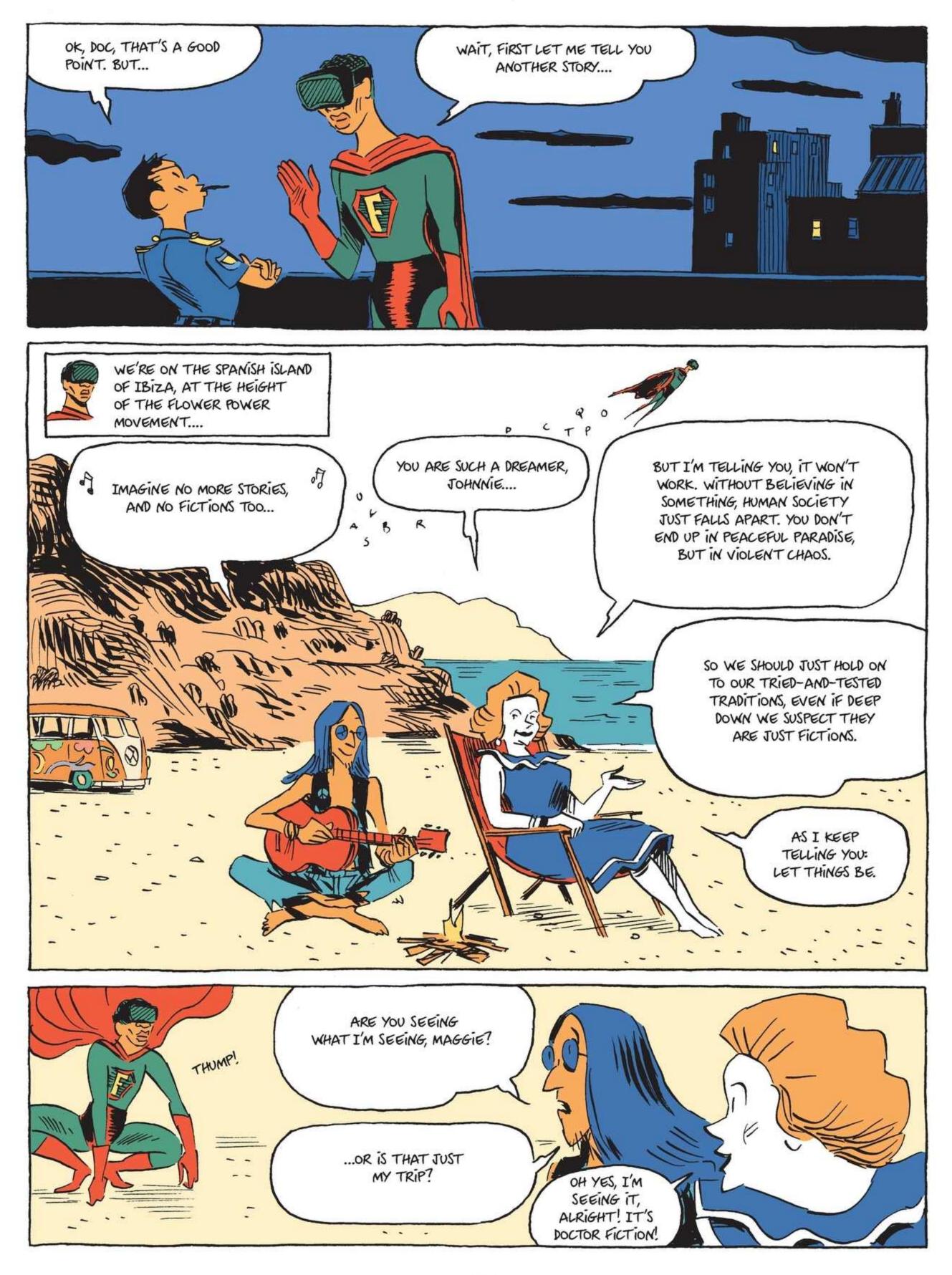


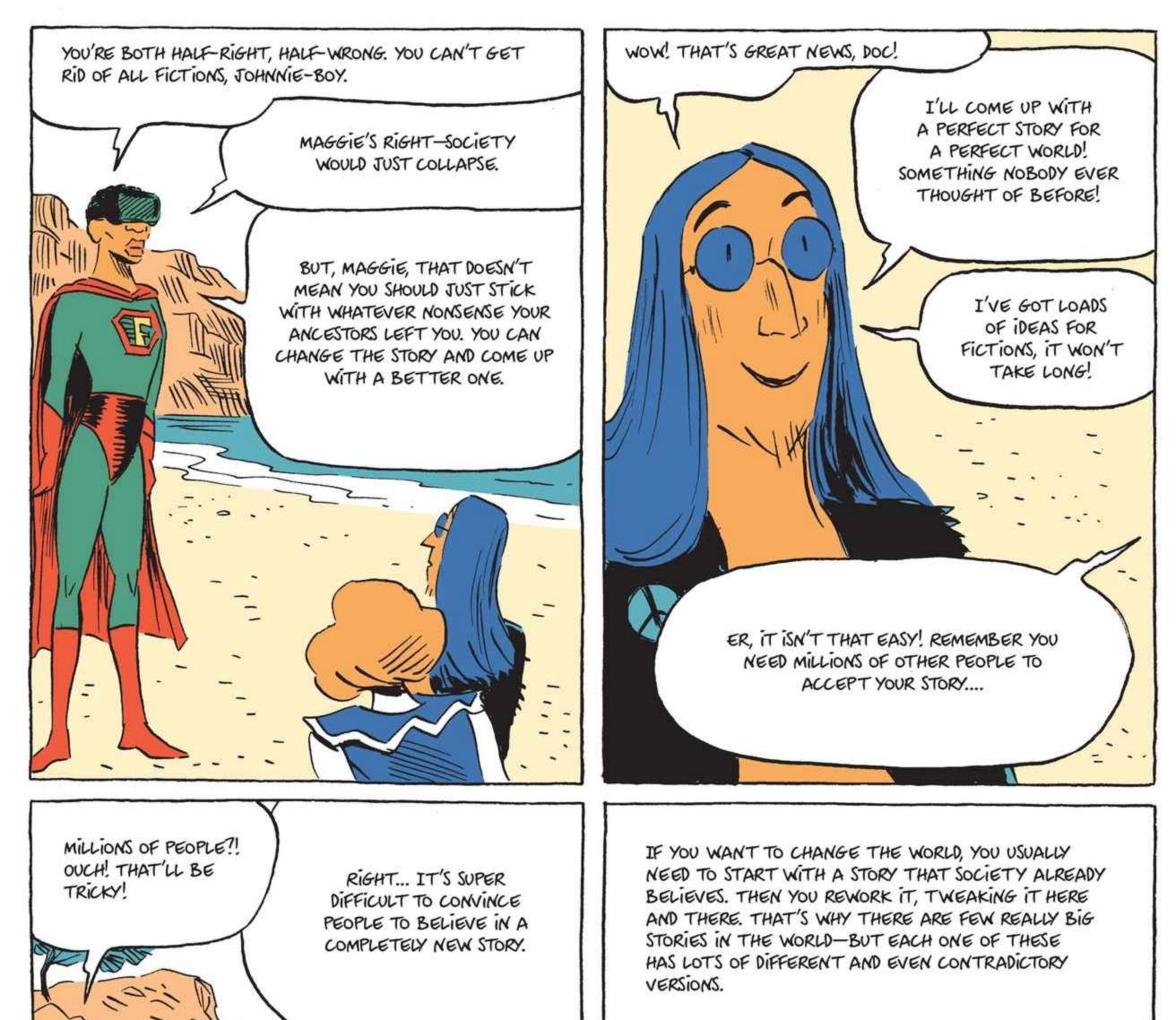




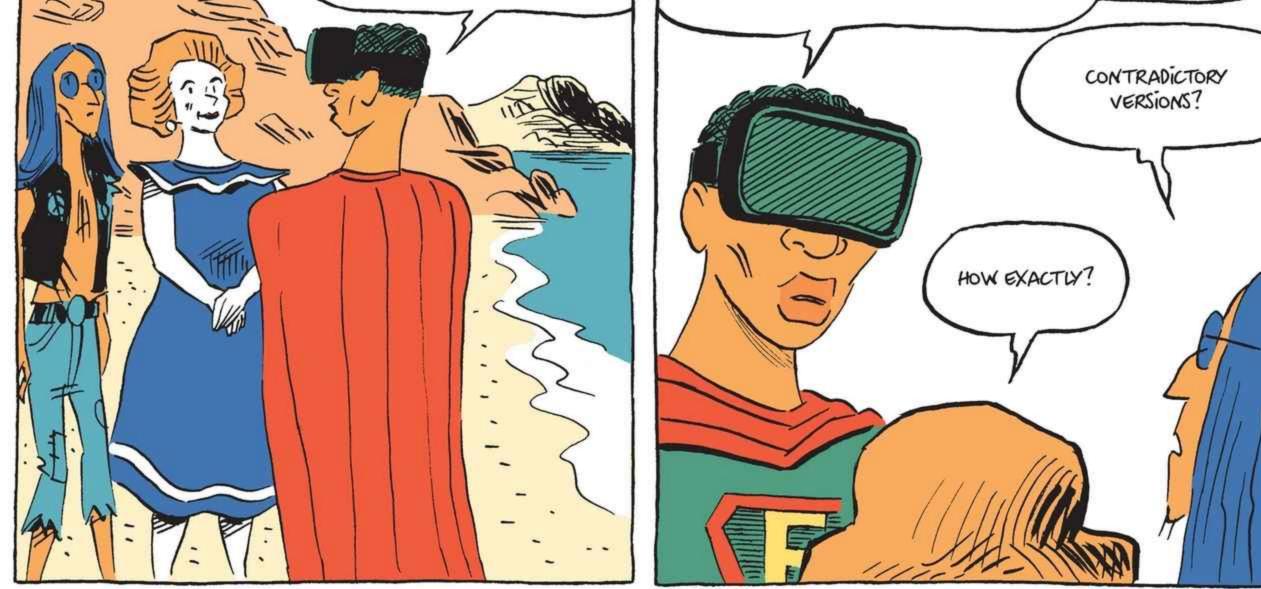
WHAT IT MEANS TO BE CHRISTIAN OR SPANISH OR EVEN A MAN OR A WOMAN DEPENDS ON THE STORIES PEOPLE BELIEVE. IT'S CHANGED MANY TIMES IN THE PAST, AND WILL KEEP CHANGING IN THE FUTURE. YOU WON'T FIND THE

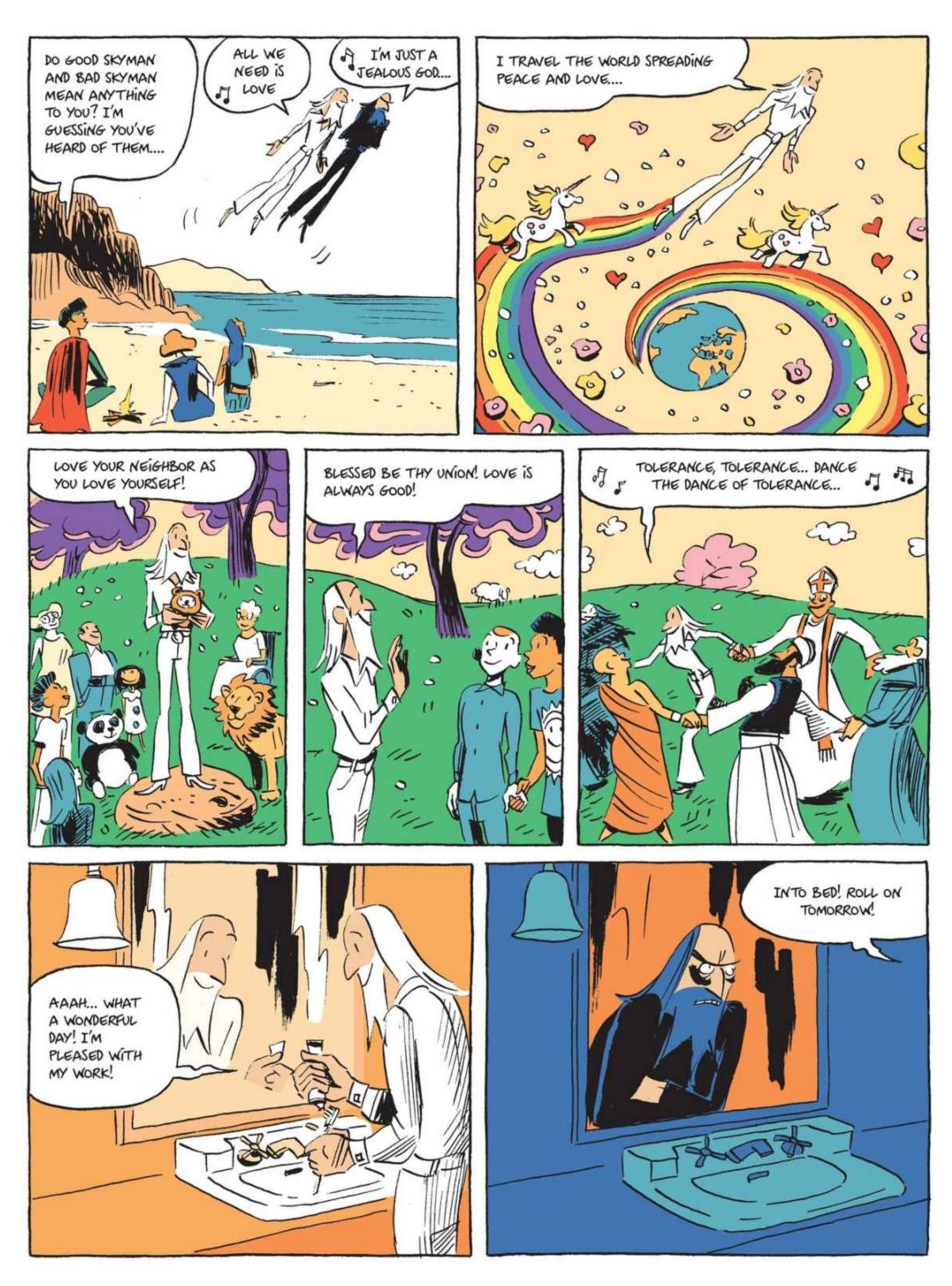








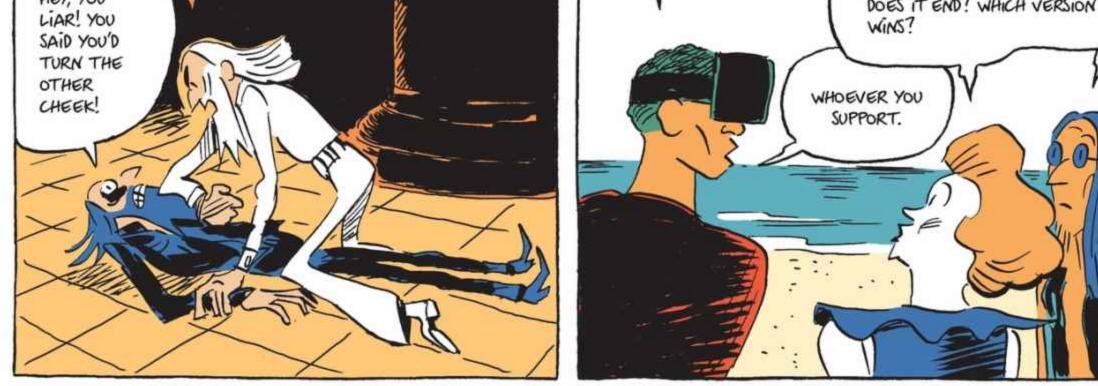


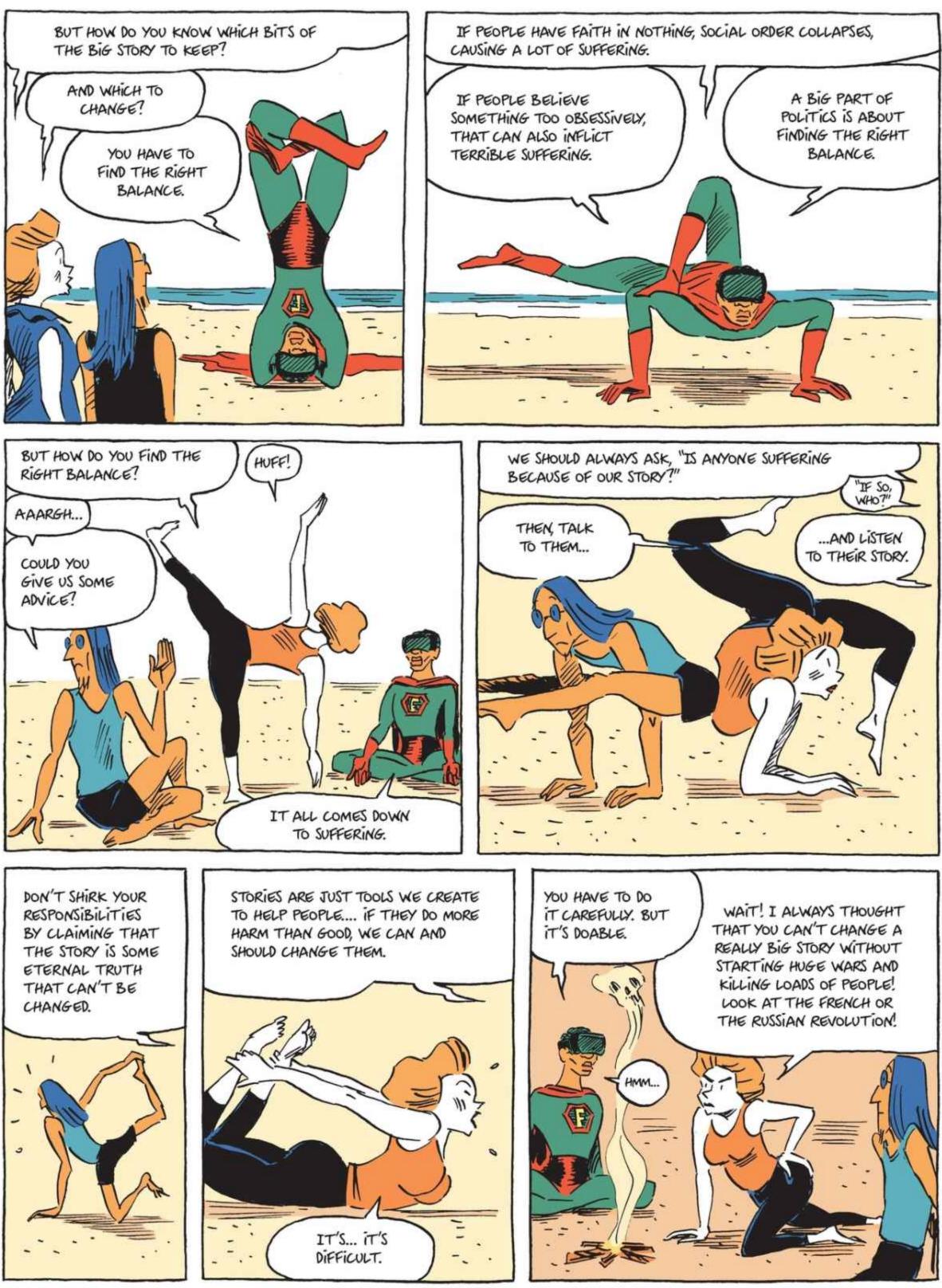




HEY, YOU

WHAT D'YA MEAN? HOW





IT'S DIFFICULT, BUT NOT IMPOSSIBLE. THINK ABOUT THE FEMINIST REVOLUTION.... IN THE LAST HUNDRED YEARS, THE FEMINIST REVOLUTION HAS COMPLETELY CHANGED THE BIG STORY ABOUT MEN, WOMEN AND GENDER. AFTER THOUSANDS OF YEARS OF PATRIARCHAL SOCIETIES, THINGS HAVE RADICALLY CHANGED.

SURE, WE STILL DON'T LIVE IN COMPLETELY EGALITARIAN SOCIETIES. BUT IF YOU THINK ABOUT EVERYTHING THAT'S CHANGED IN THE LAST CENTURY, IT'S INCREDIBLE. IT'S ONE OF THE BIGGEST REVOLUTIONS IN THE HISTORY OF MANKI- HUMANKIND!

> AND WHAT'S EVEN MORE AMAZING IS THAT THIS HUGE REVOLUTION WAS COMPLETELY PEACEFUL. FEMINISTS DIDN'T SET UP GUILLOTINES OR GULAGS, AND THEY DIDN'T ASSASSINATE ANY PRESIDENTS OR START ANY WARS. BUT THEY STILL MANAGED TO CHANGE THE WORLD!











