

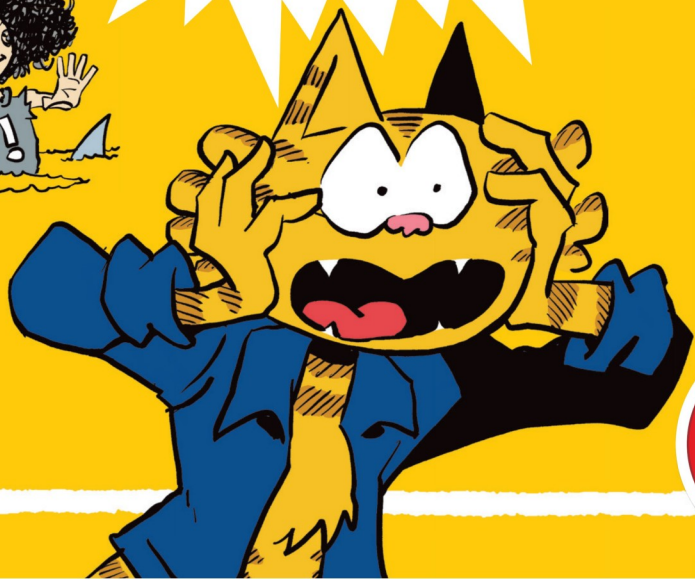
1121
CALL



DISASTER RISK
REDUCTION!

COMIC
BOOK!

DISAS- TER!



DONT
PANIC!



Publisher:

Ministry of the Interior
Civil Protection Directorate

Comic book: Darko Macan

Colours: Mirna Martinović | Tihomir Tikulin

The author thanks Marko Šunjić for the font and Igor Lepčičin for opening the door to the twenty-first century.

Funded by the European Union. Views and opinions expressed are however those of the author only and do not necessarily reflect those of the European Union or DG ECHO. Neither the European Union nor the granting authority can be held responsible for them.

Join Alexes in discovering natural hazards and learn a thing or two about Disaster Risk Reduction.

Disaster what, you say?

Di-sas-ter Risk Re-duc-tion.

Doesn't help when we break it down into syllables? No? Huh? Ok!

Well, basically - it's all we should do before various hazards appear (such as earthquakes, floods, fires, etc.) so that they don't become disasters, or cause major damage.

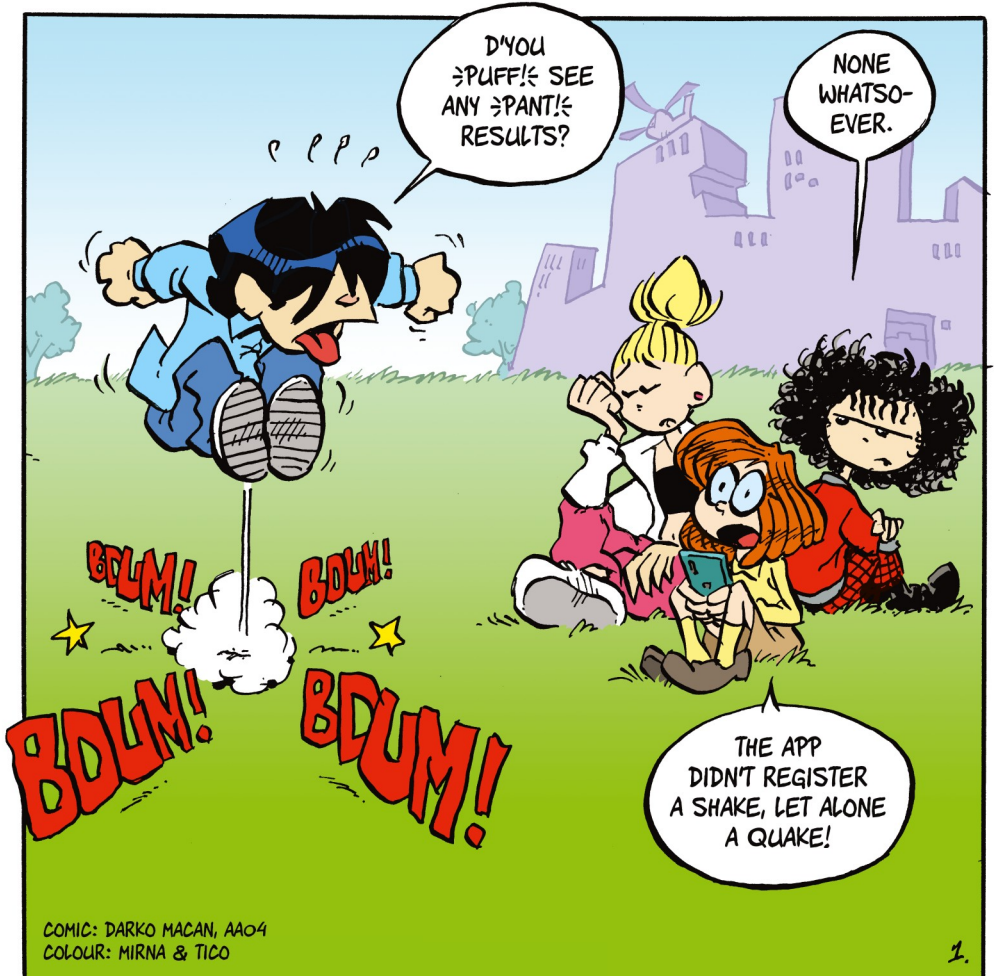
You know something like - you study before the exam and get an A, so you avoid the disaster of getting a D. It's similar.

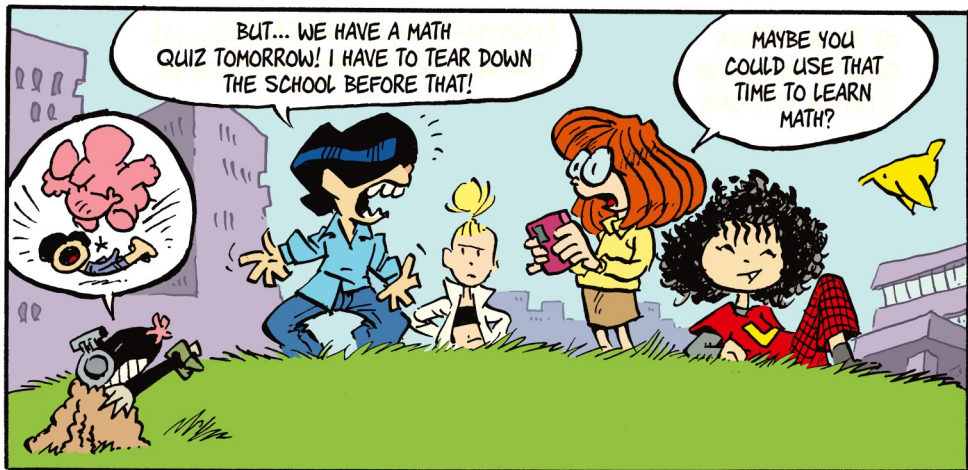
Listen, if we could explain it to these Alexes from the comic - we can certainly explain it to you. Join us in this exciting journey.

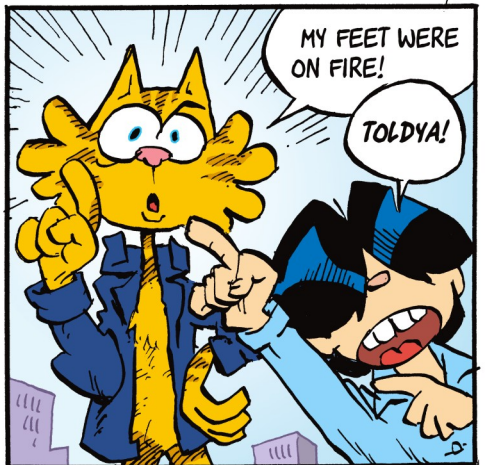
We're off to
a shaky
start!

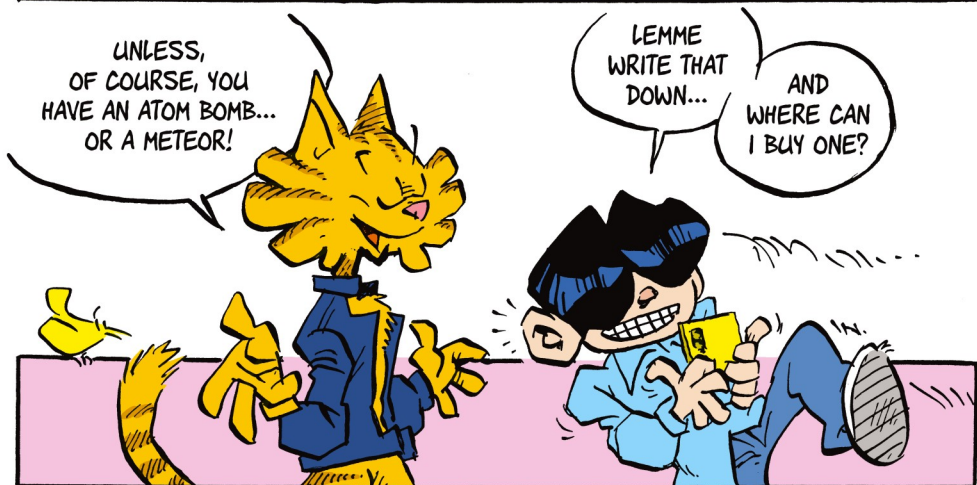
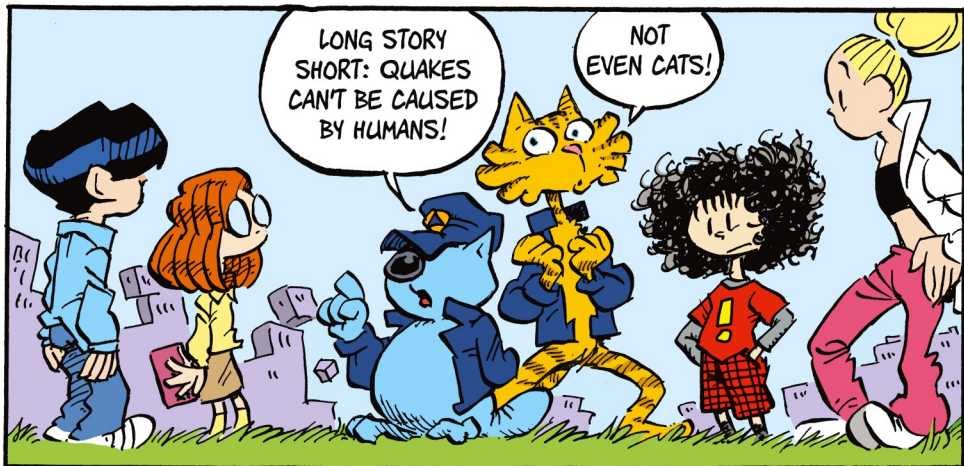
CIVIL PROTECTION PRESENTS:

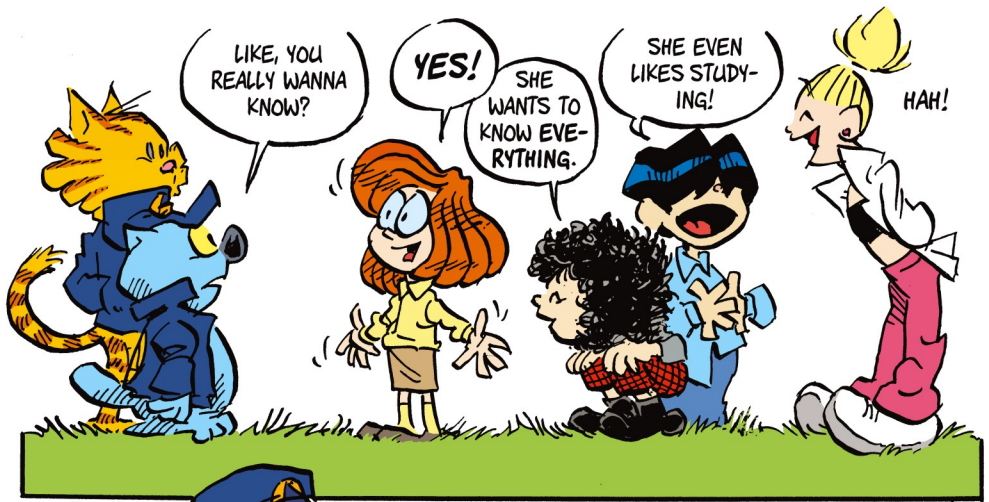
QUAKES!











LIKE, YOU REALLY WANNA KNOW?

YES!

SHE WANTS TO KNOW EVERYTHING.

SHE EVEN LIKES STUDYING!

HAH!

1/5



WELL, THEN.

OUR PLANET, EARTH, ISN'T A SOLID BALL, BUT RATHER MADE UP OF MANY DIFFERENT PLATES!

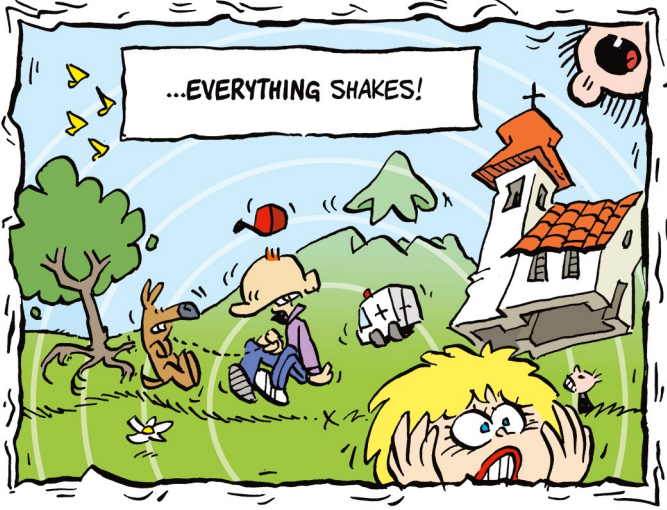
OOOH... LIKE IN OUR KITCHEN!

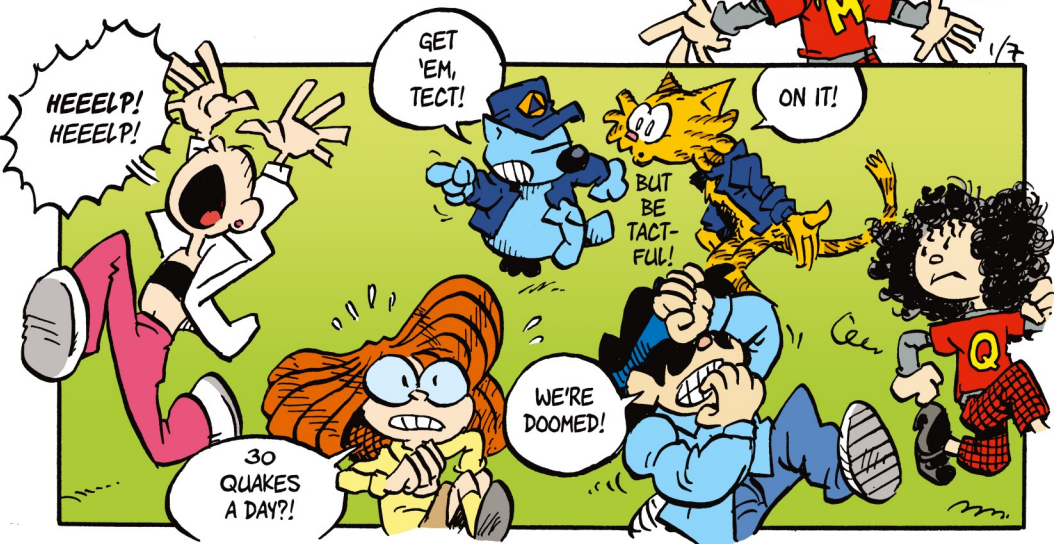
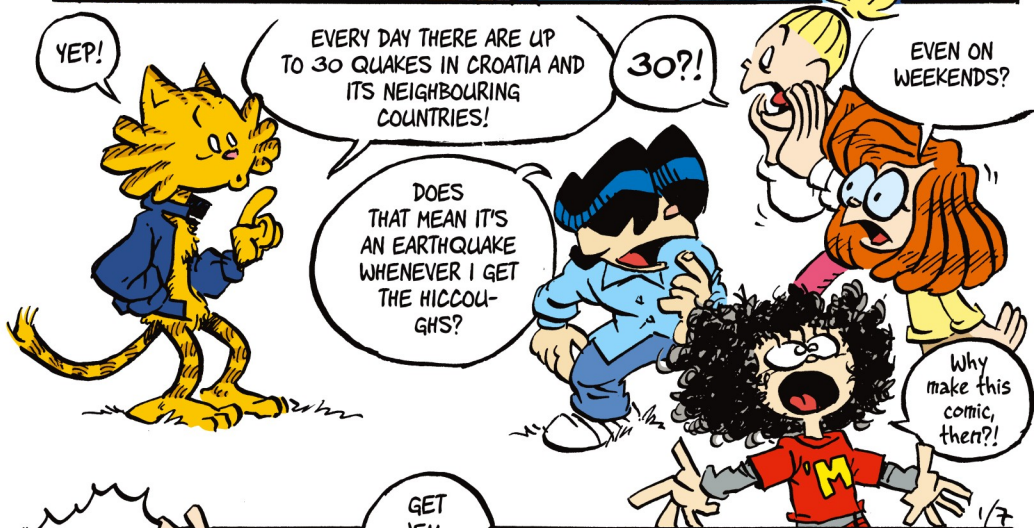
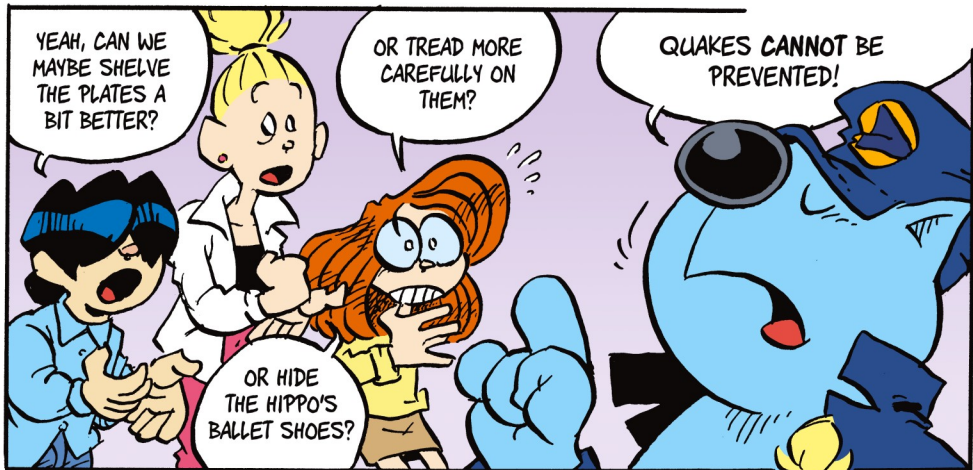
WELL, SORT OF...

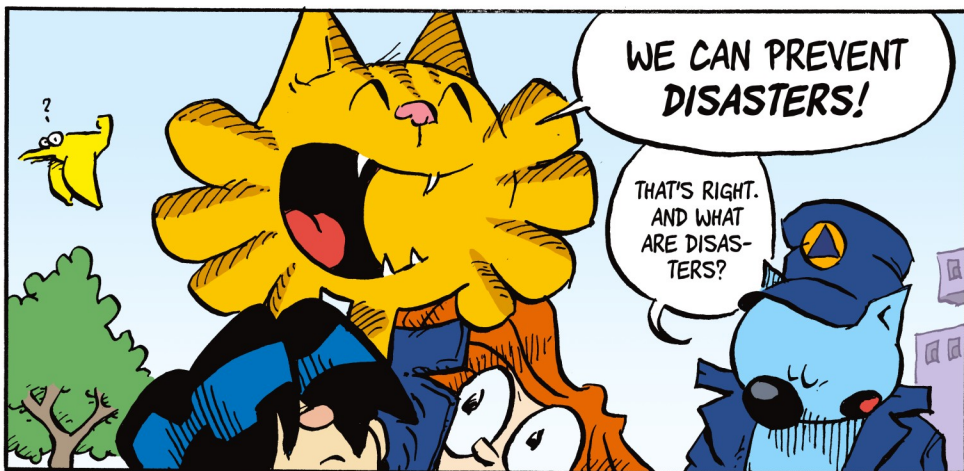
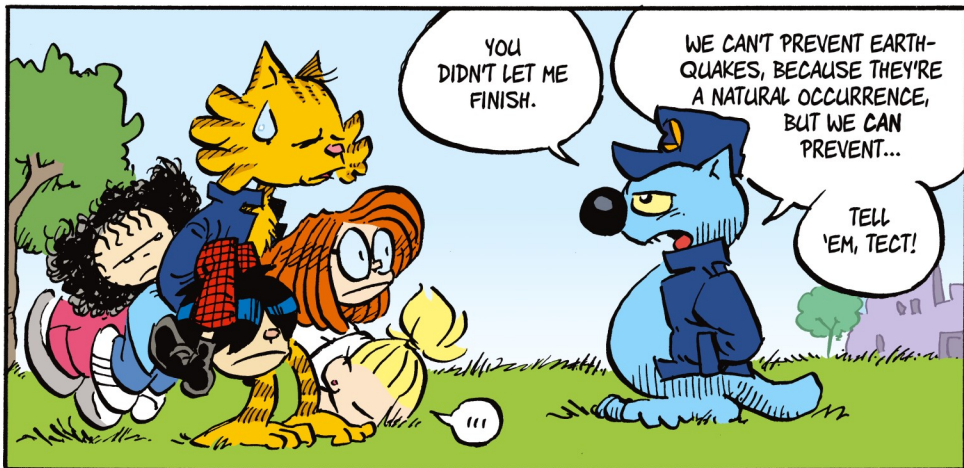
...BUT THE PLATES ARE MUCH BIGGER AND NOT THAT NEATLY ALIGNED!

I KNEW IT: THE EARTH IS A SHODDY JOB!

I WISH OUR PLATES ARE BIGGER!







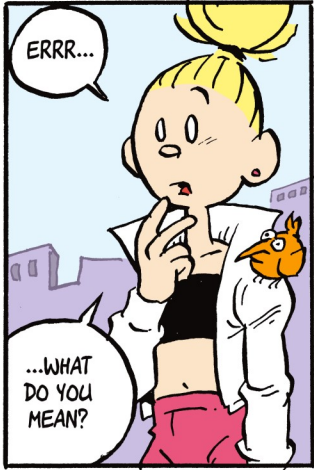
1/8





A HAZARD ALWAYS TURNS INTO
A DISASTER THANKS TO
HUMAN ACTIONS!

OR
LACK THERE-
OF!



ERRR...

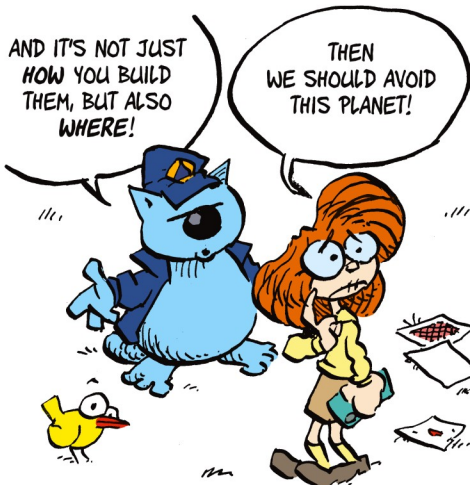
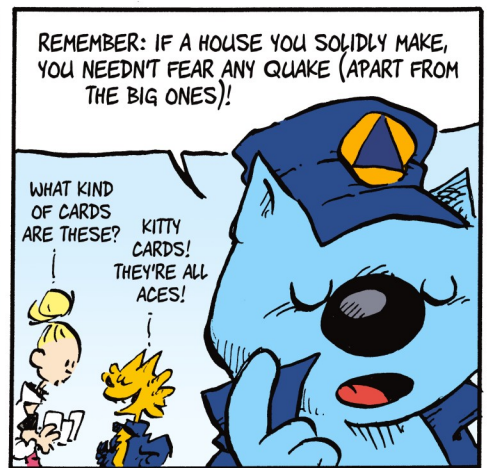
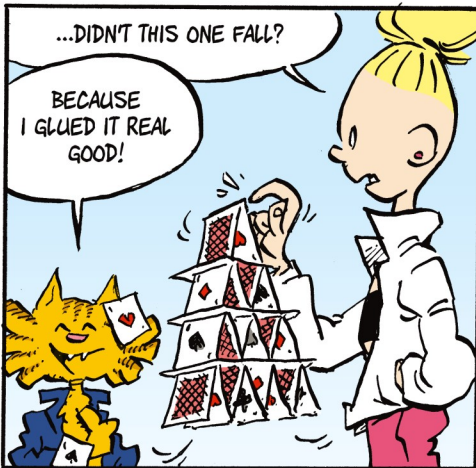
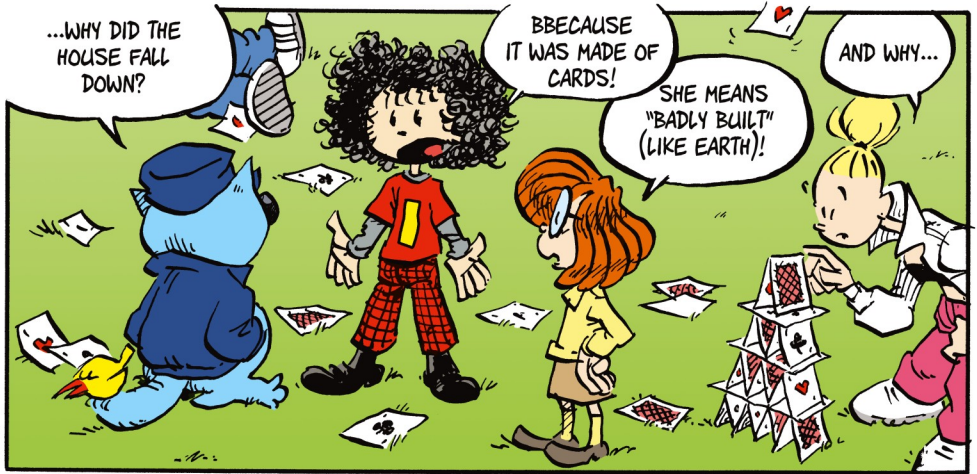
...WHAT
DO YOU
MEAN?



LET ME
SHOW YOU... TECT,
BUILD ME A FEW
HOUSES OF
CARDS!

FEW,
BUT NOT FAR
BETWEEN!

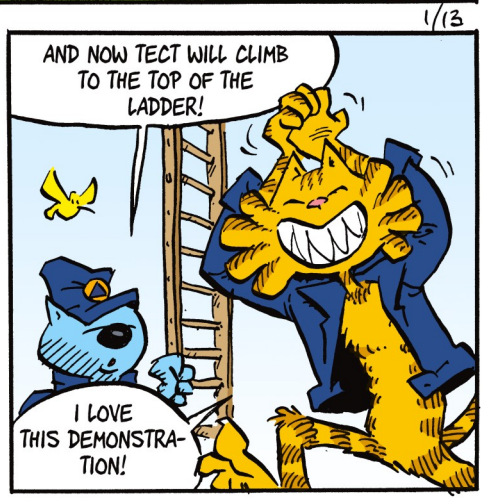
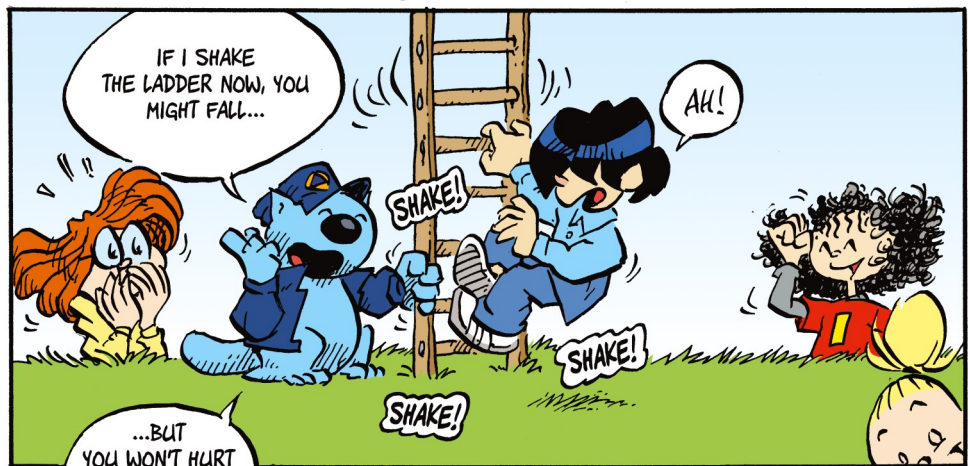
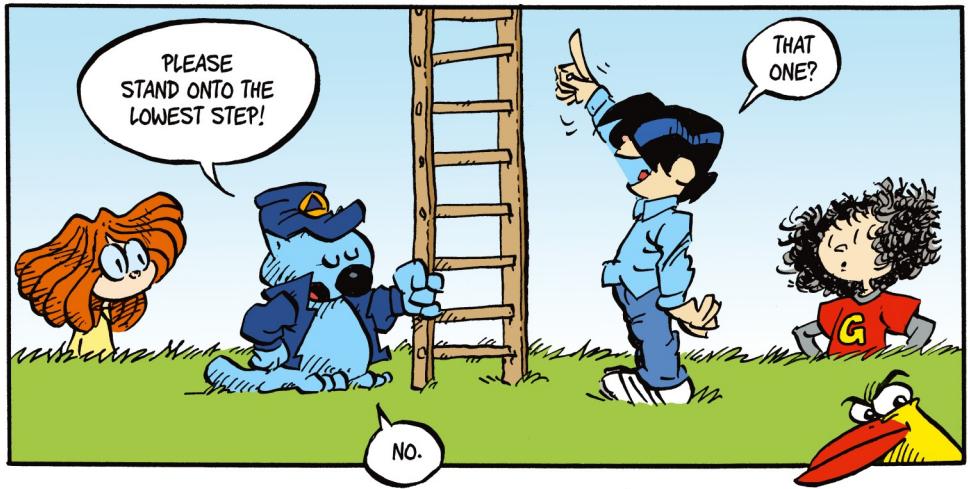


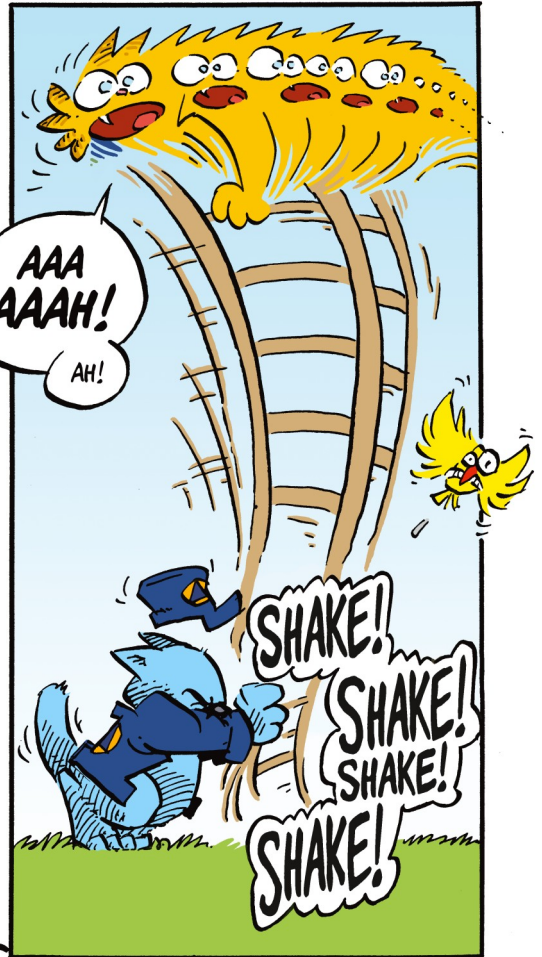


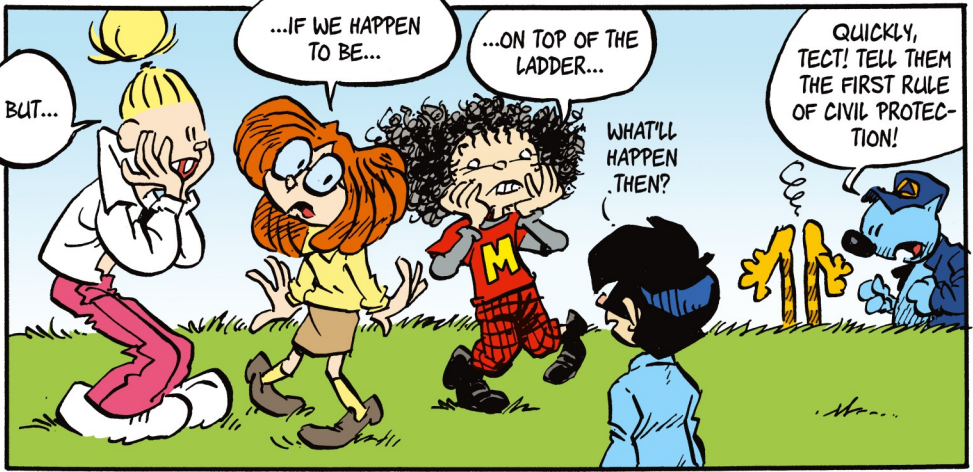


1/12

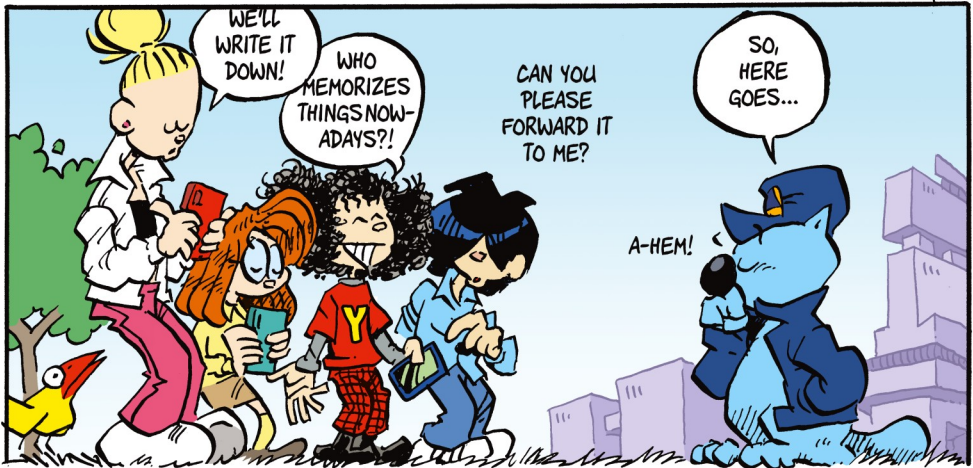






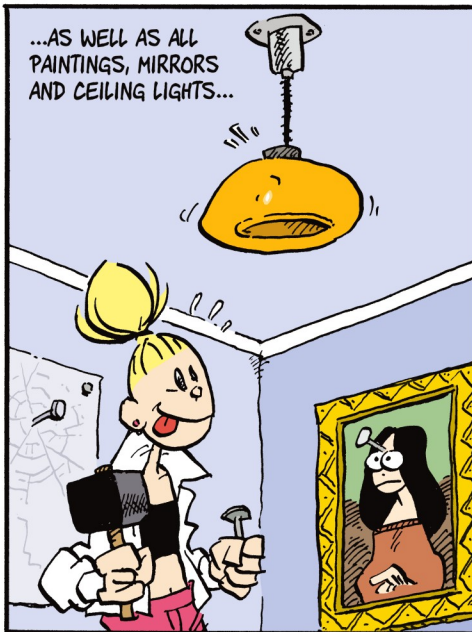


1/15





BEFORE THE QUAKE



DURING THE QUAKE



...STAY INSIDE!



(OR, IF YOU'RE OUTSIDE, STEP AWAY FROM ANYTHING THAT MIGHT FALL ON YOU!)

HUNKER DOWN UNDER SOME MASSIVE PIECE OF FURNITURE...

"HUNKER"?
IS THAT WHEN
YOU'RE HUNGRY?

NO!

HERE,
CHECK THE
DICTIONARY!



DON'T
STAND UNDER
THE CHANDE-
LIER!



....STEP AWAY FROM MIRRORS, WINDOWS,
PARTITION WALLS, FIREPLACES AND TALL
FURNITURE!



DON'T USE STAIRS,
NOR THE ELEVATOR!





AND

IF YOU GET BURIED!

GOD FORBID!



PUT ON A BREATHING MASK, OR ANY SORT OF FABRIC, OVER YOUR FACE!



(BECAUSE OF THE DUST!)

BROADCAST YOUR LOCATION BY BANGING ON THE WALLS AND PIPES, OR BY MAKING SOME OTHER VISIBLE OR AUDIBLE



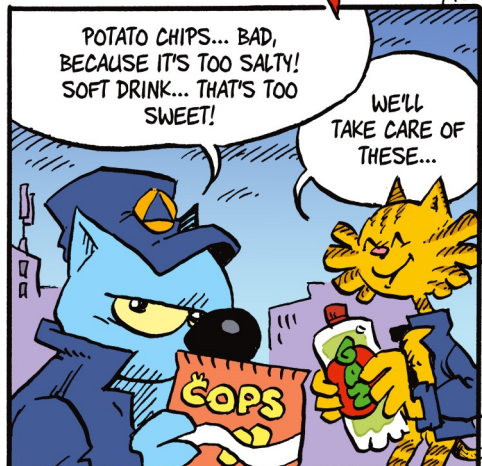
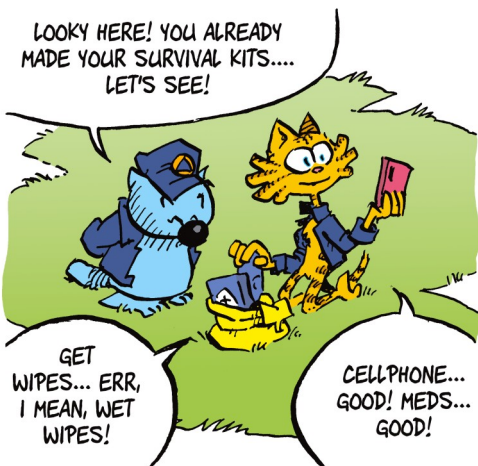
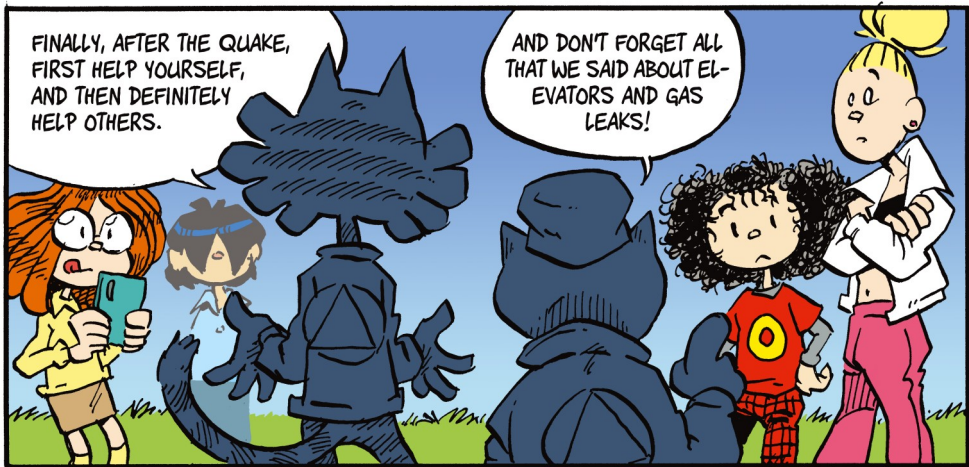
(18)

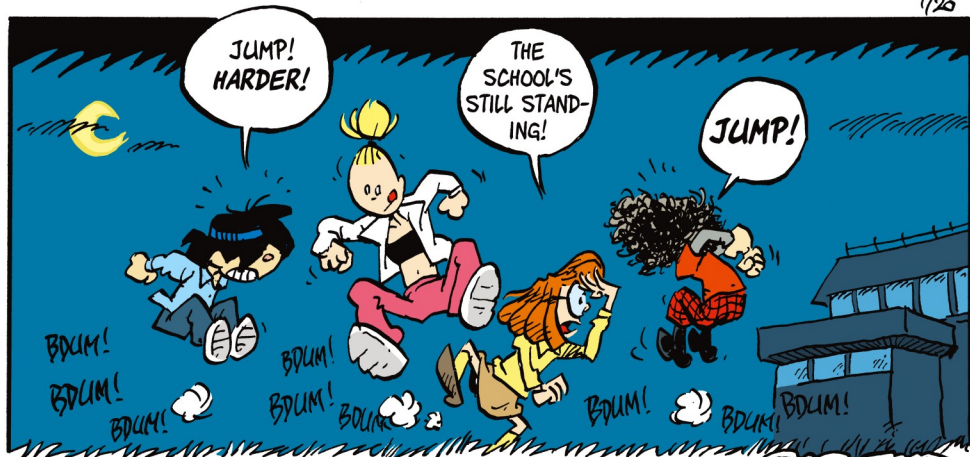
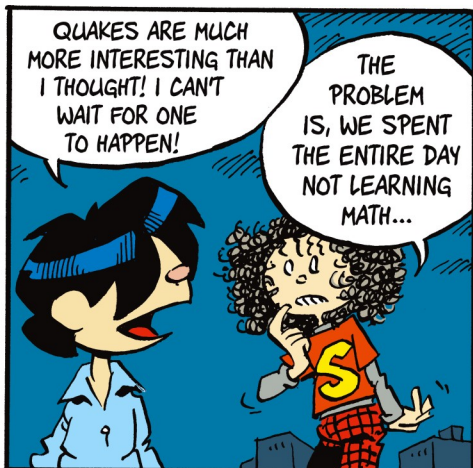
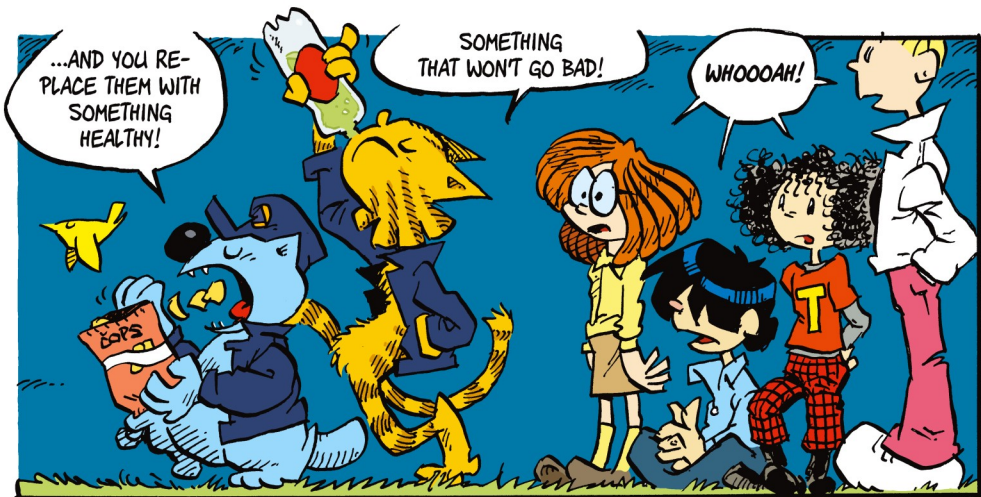
DON'T USE LIGHTERS OR MATCHES, SO AS TO PREVENT EXPLOSIONS DUE TO POSSIBLE GAS LEAKS!



DON'T SHOUT! (SO AS NOT TO BREATHE IN DUST, AND PRESERVE ENERGY AND OXYGEN!)







THE END

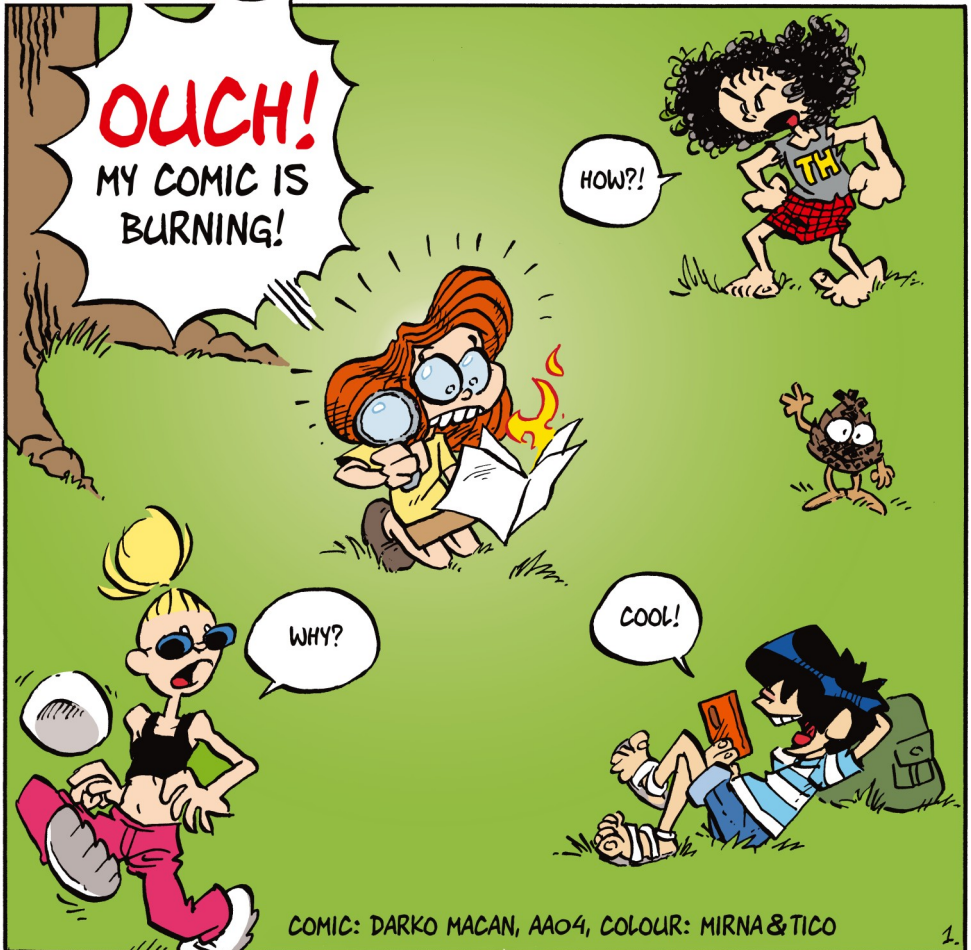
FIND ALL THE
YELLOW BIRDS
FLYING AROUND
"QUAKES"!

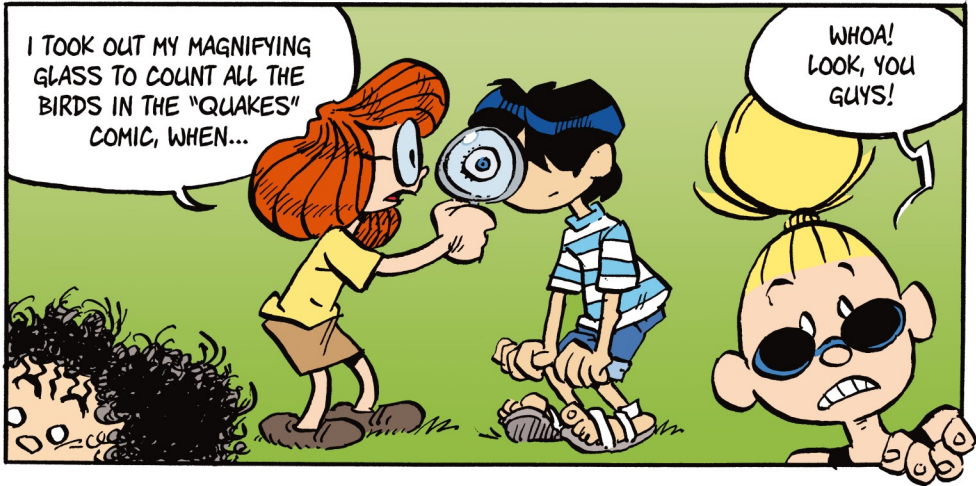


CIVIL PROTECTION PRESENTS:

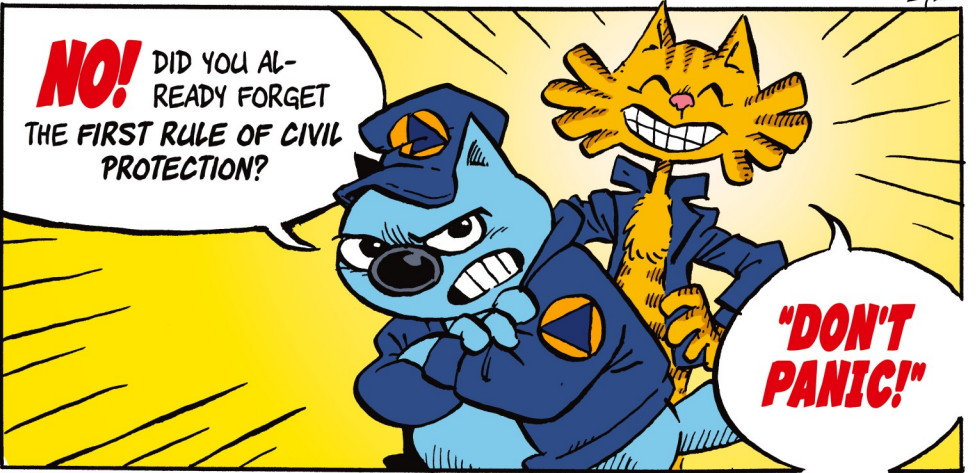
C'mon, baby ...  ... light my fire!

FIRES

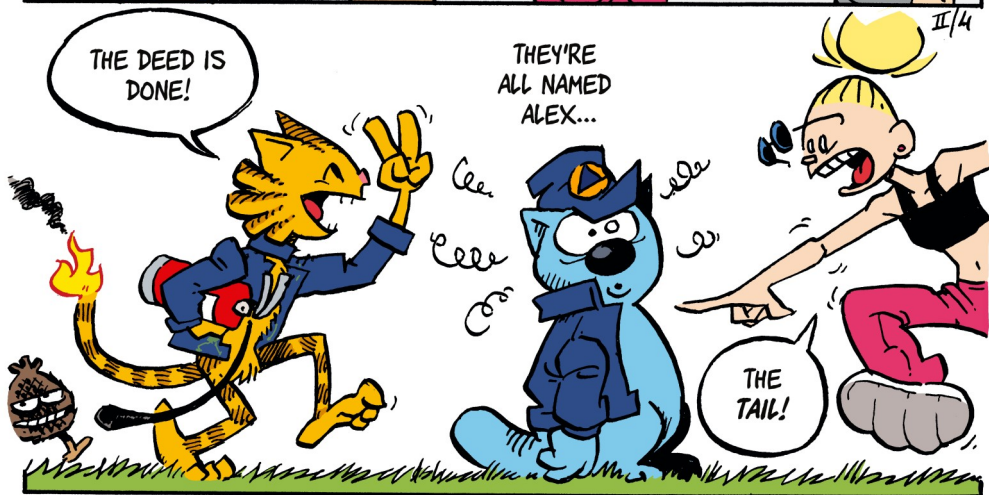
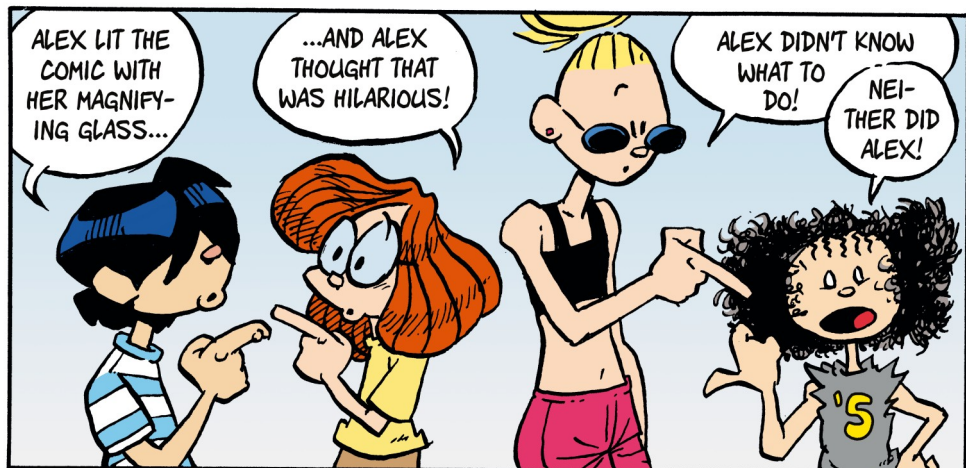
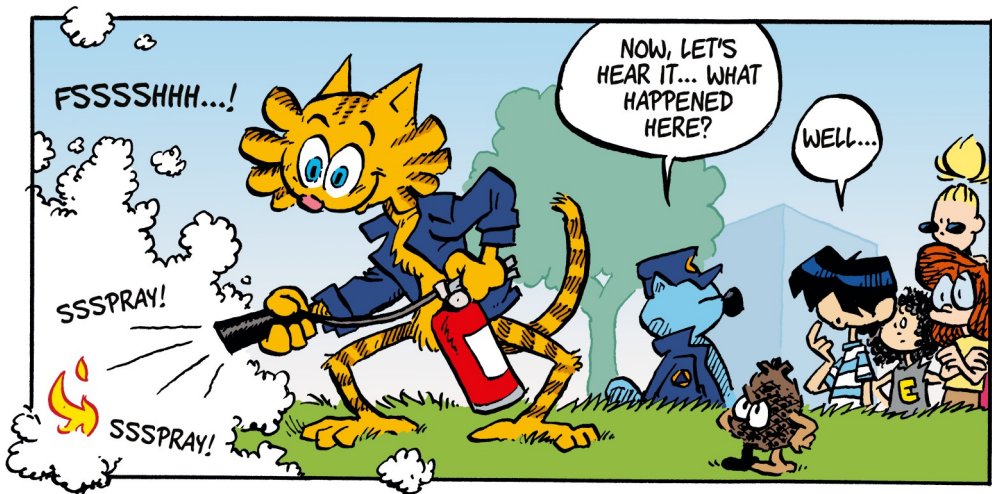


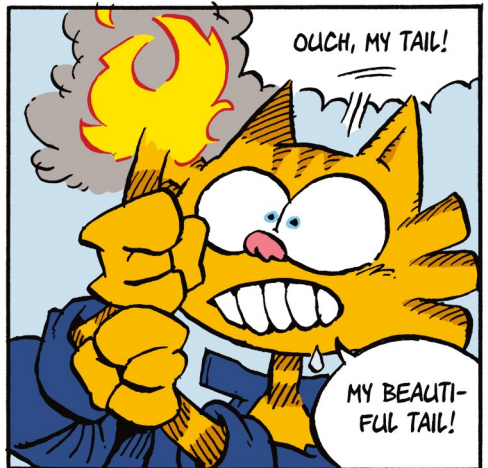


II/2



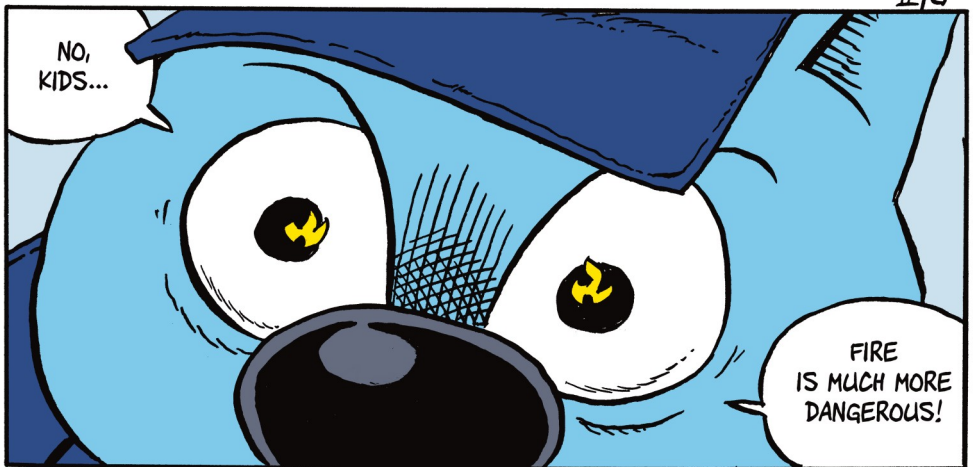
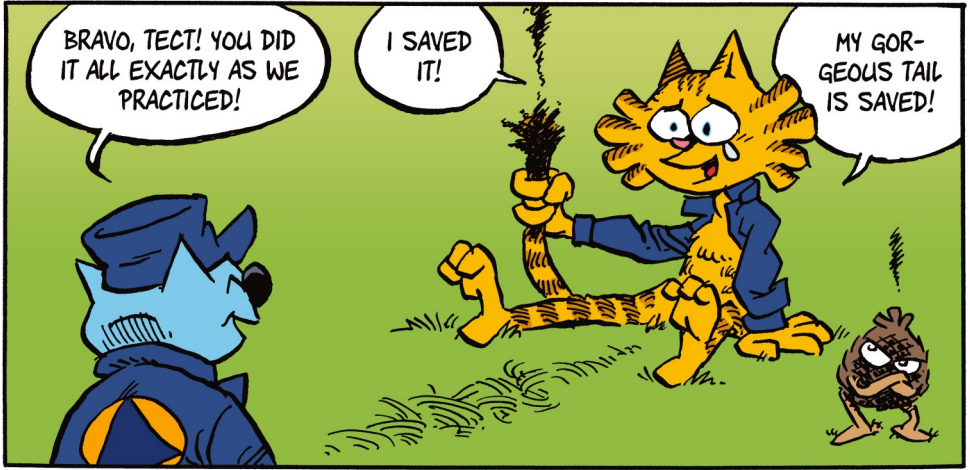






I/5





...AND UNPREDICTABLE!

EVEN A SHARD OF GLASS CAN REDIRECT SUNLIGHT AND SET FIRE TO A BUNCH OF TRASH!



EVEN BARBECUING IN NATURE HAS ITS DANGERS!

AN UNATTENDED FIRE CAN SPREAD IN THE BLINK OF AN EYE!



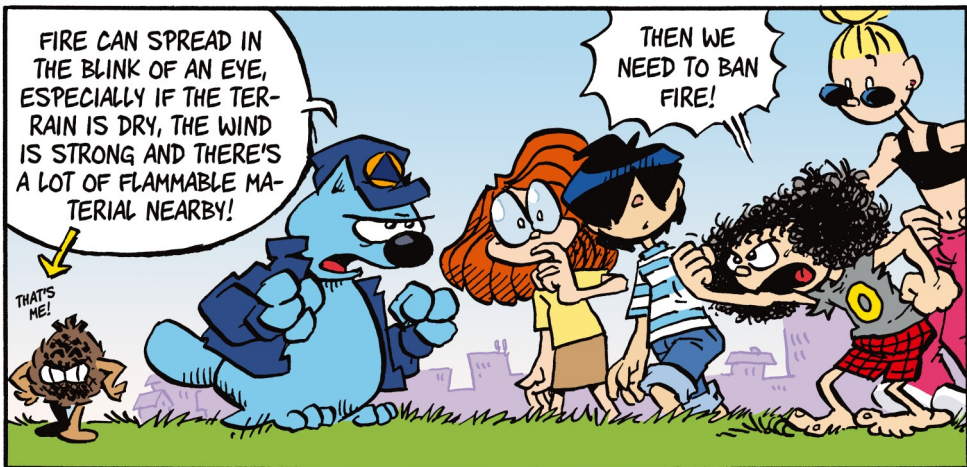
EVIL PINE-CONES EAGERLY AWAIT THE CHANCE TO SPREAD FIRES!



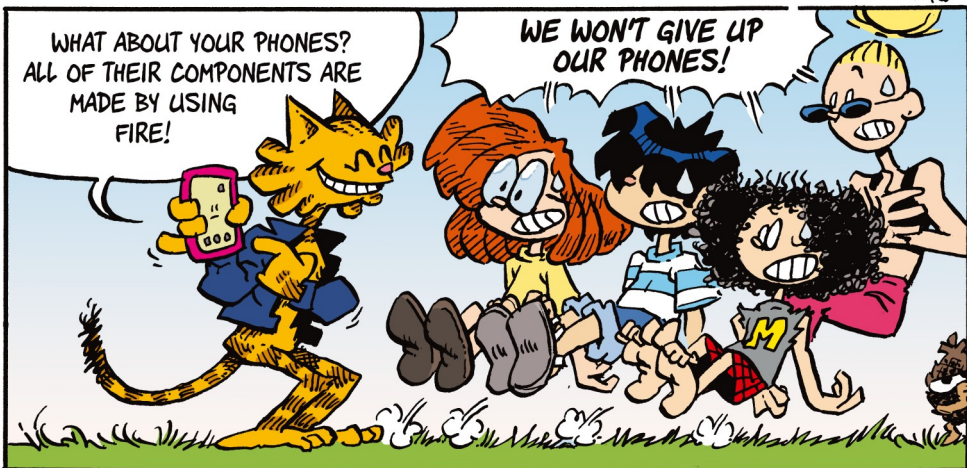
FIRES ARE OFTEN CAUSED BY RECKLESSLY DISCARDED CIGARETTE BUTTS...

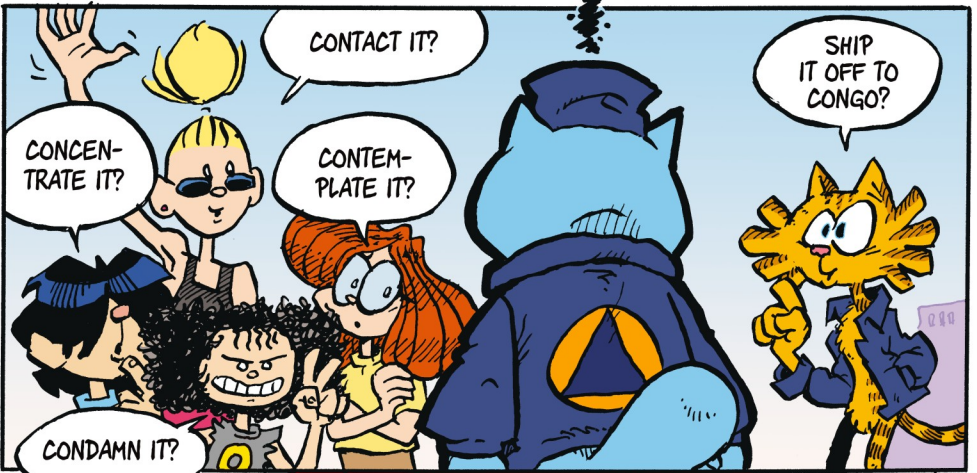


...AS WELL AS PLAYING WITH MATCHES.



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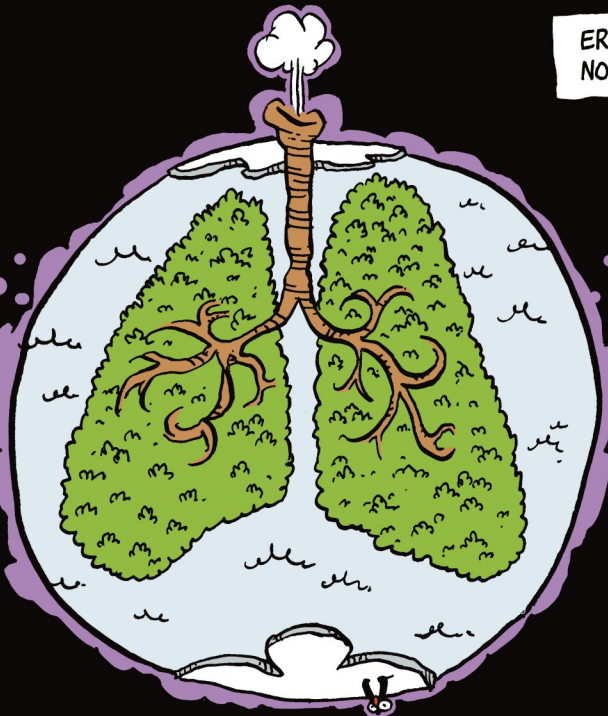






BESIDES, I'M SURE YOU HEARD THAT THE FORESTS ARE "THE GREEN LUNGS OF OUR PLANET", EH?

ERM...
NOPE.



WELL, NOW YOU HAVE! FORESTS PRODUCE OXYGEN,
WHICH WE ALL NEED TO LIVE!



II/12

MAYBE YOU GUYS! I CAN HOLD MY
BREATH FOR AN ENTIRE MINUTE!

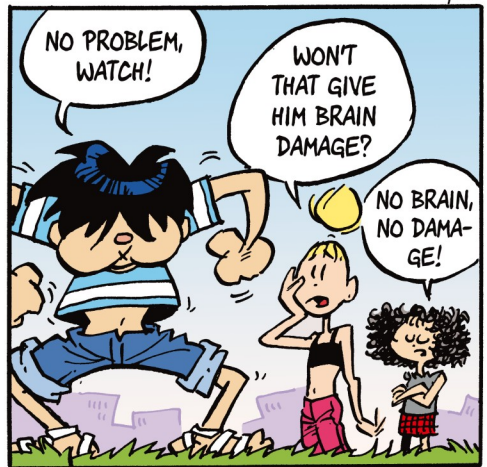
HOW
ABOUT AN
ENTIRE
DAY?

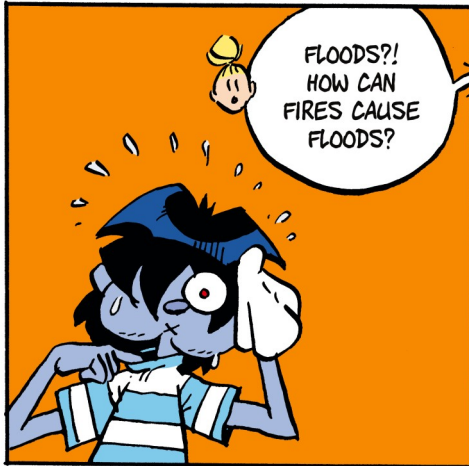
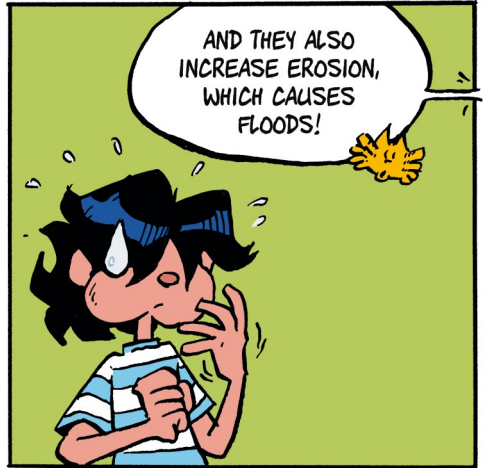
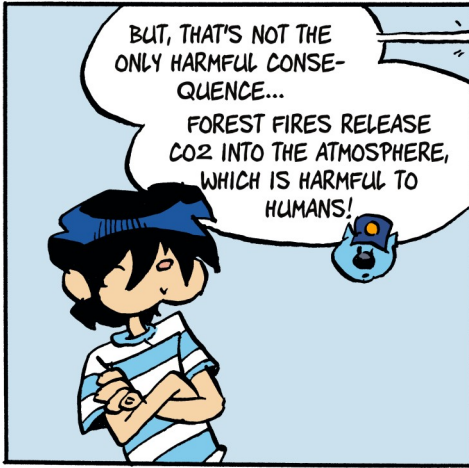


NO PROBLEM,
WATCH!

WON'T
THAT GIVE
HIM BRAIN
DAMAGE?

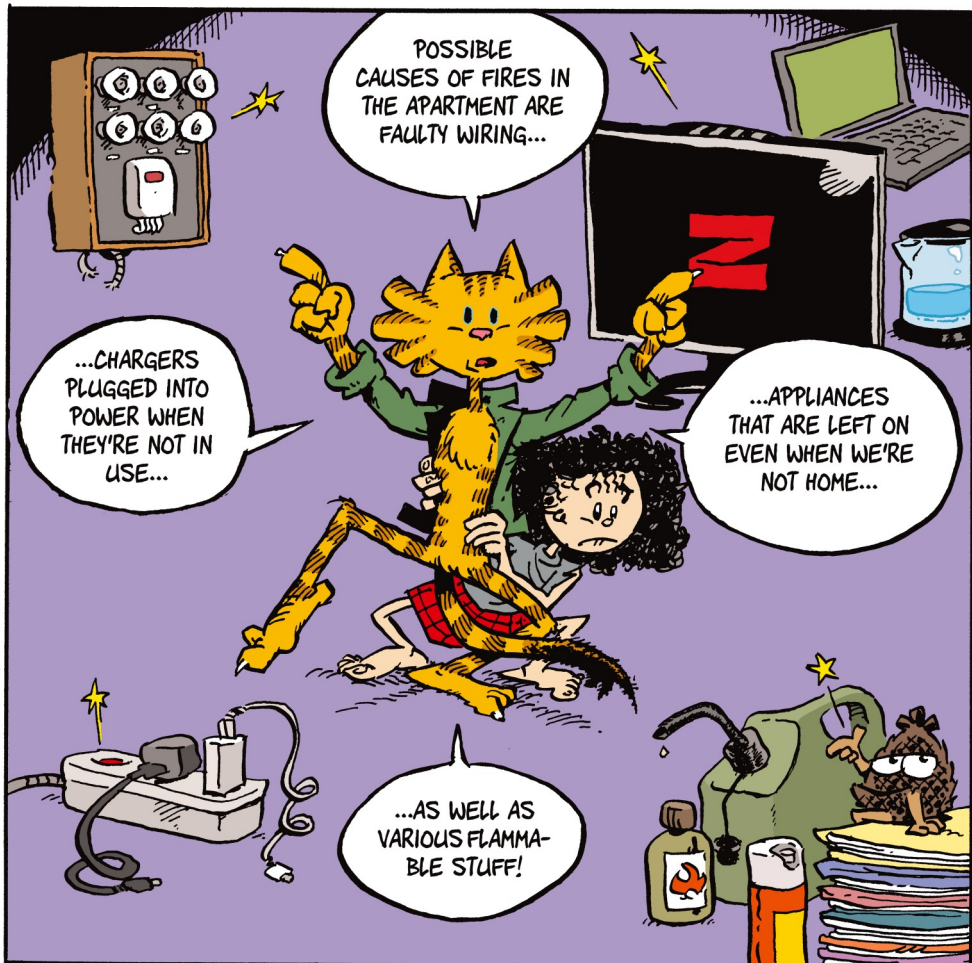
NO BRAIN,
NO DAMA-
GE!





II/3





POSSIBLE
CAUSES OF FIRES IN
THE APARTMENT ARE
FAULTY WIRING...

...CHARGERS
PLUGGED INTO
POWER WHEN
THEY'RE NOT IN
USE...

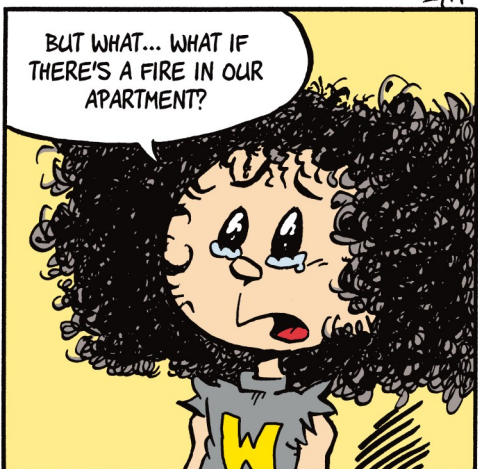
...APPLIANCES
THAT ARE LEFT ON
EVEN WHEN WE'RE
NOT HOME...

...AS WELL AS
VARIOUS FLAMMA-
BLE STUFF!

II/14



AND, LIKE WE ALREADY SAID, YOU
SHOULDN'T PLAY WITH ANY SOURCE
OF FIRE!



BUT WHAT... WHAT IF
THERE'S A FIRE IN OUR
APARTMENT?



SMOKE CAN OFTEN BE MORE DANGEROUS THAN FIRE, SO YOU NEED TO CRAWL UNDER IT...



WHAT ELSE, WHAT ELSE... IF YOU'RE ON THE SHORE, GET INTO THE SEA... DON'T USE WATER TO PUT OUT ELECTRICAL APPLIANCES...

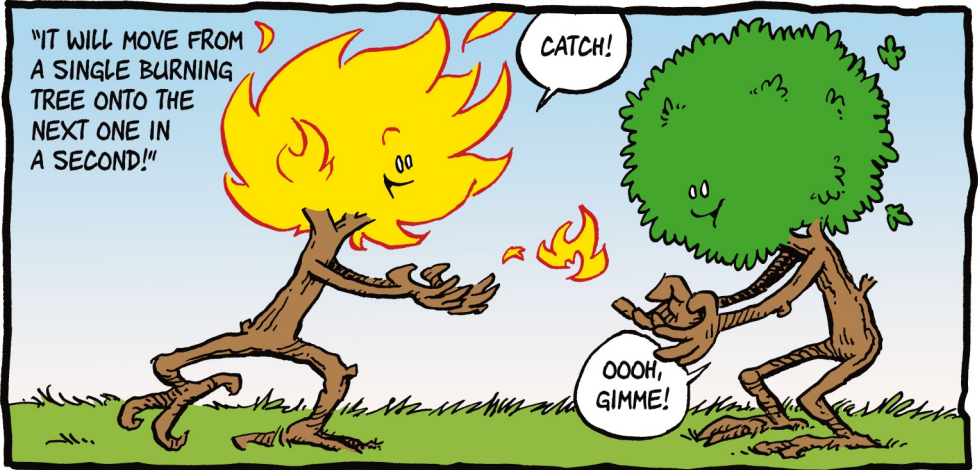
AND DON'T YOU EVER FORGET HOW FAST FIRE IS!



"IT WILL MOVE FROM A SINGLE BURNING TREE ONTO THE NEXT ONE IN A SECOND!"

CATCH!

OOOH, GIMME!



II/16

EVEN WHEN ALL THAT'S LEFT ARE ASHES AND RUINS, YOU CAN'T BE SURE THERE AREN'T ANY LIVE EMBERS REMAINING!

BECAUSE FIRE CAN SPREAD UNDERNEATH THE GROUND VIA ROOTS OR PEAT... AND UNDERGROUND FIRES CANNOT BE CONTROLLED!



EVEN WHEN ALL OTHER CONDITIONS ARE FAVOURABLE, FIRES CAN STILL HAPPEN ACCIDENTALLY...



I WON'T SLEEP SOUNDLY EVER AGAIN!

BUT IF YOU REMEMBER ONLY ONE THING, LET IT BE THE FIRE TRIANGLE!



EVERY FIRE NEEDS THREE THINGS:

FUEL, HIGH TEMPERATURE AND OXYGEN!

IF YOU REMOVE JUST ONE, THERE WON'T BE A FIRE!

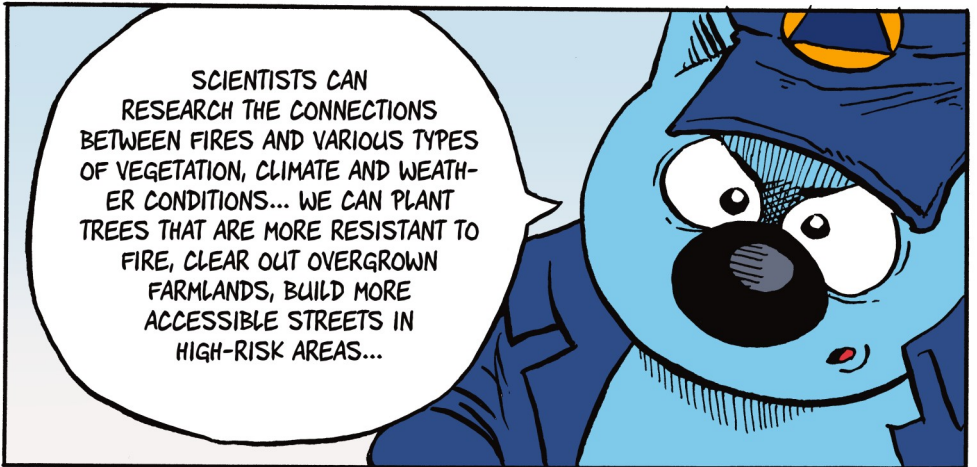


II/17

SO, ALEX WASN'T TOTALLY WRONG WHEN HE WANTED TO REMOVE ALL OXYGEN...

IF HE WEREN'T SO DUMB, HE'D BE A GENIUS.



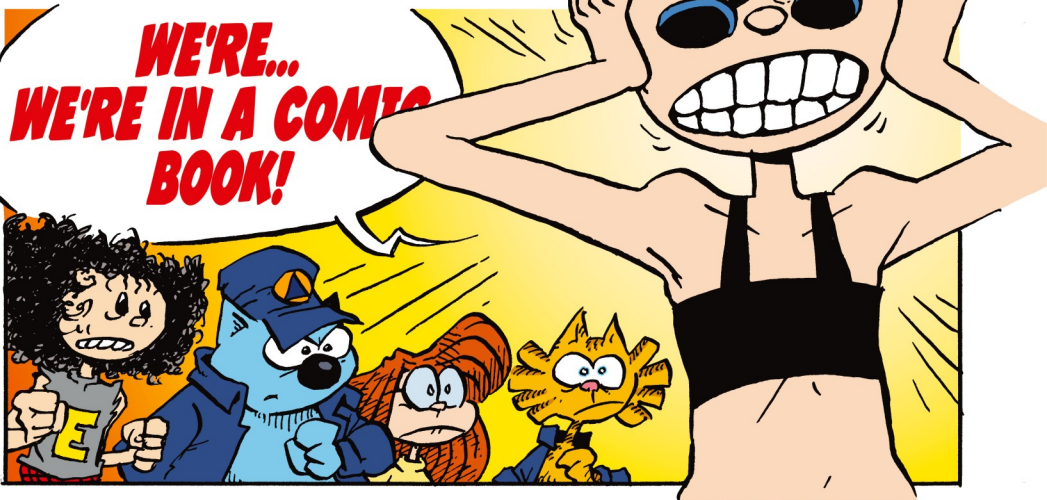
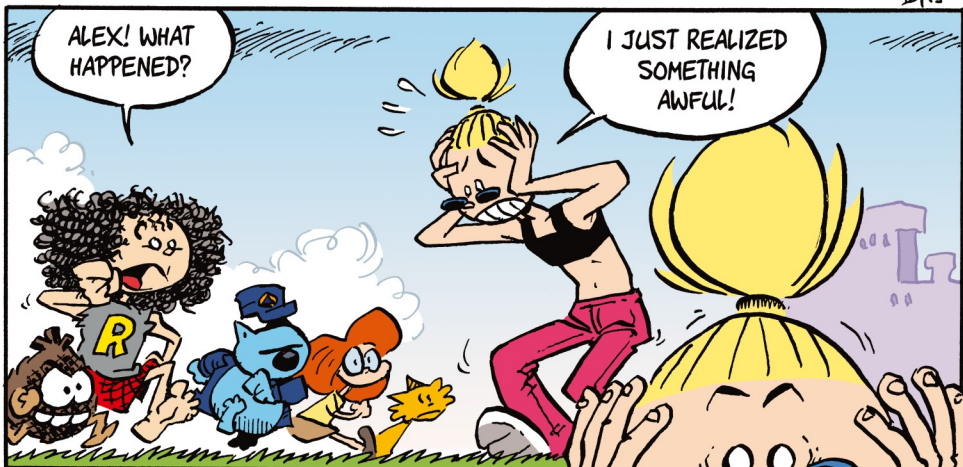


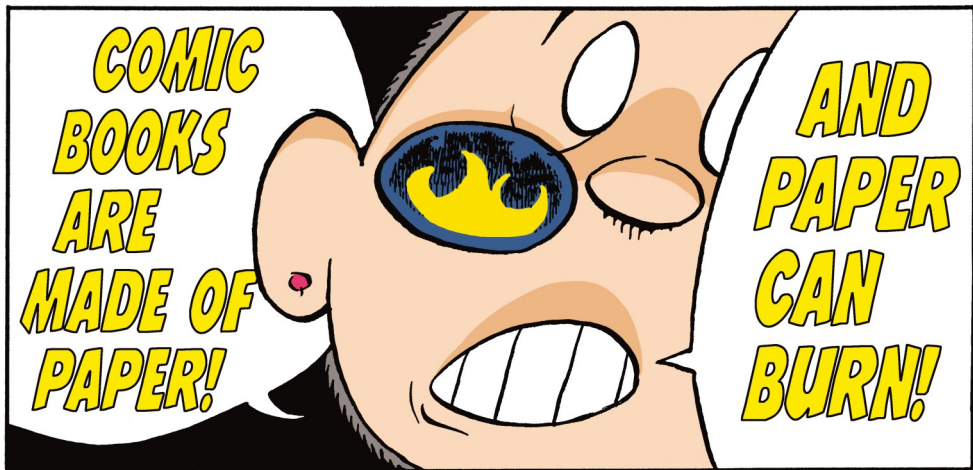
IL/B





II/19





FIND ALL THE EVIL
PINECONES LURKING
AROUND "FIRES"!

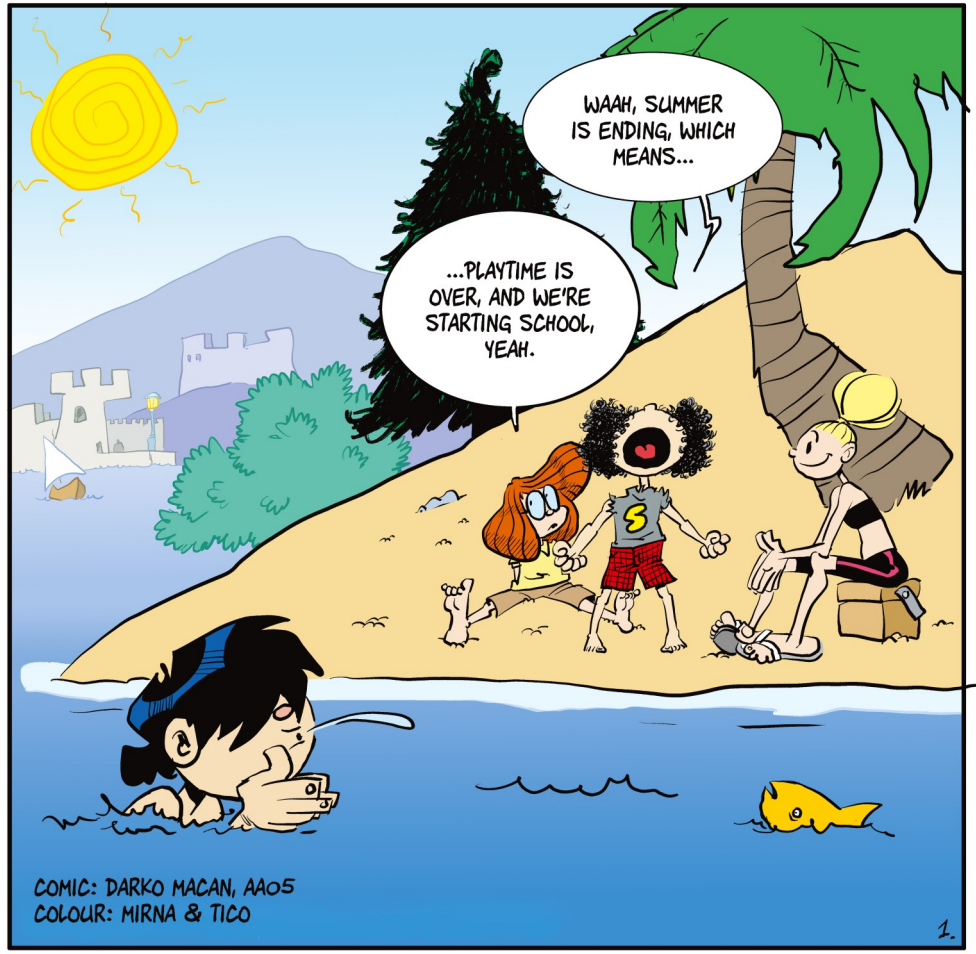


I HATE WATER!



CIVIL PROTECTION PRESENTS:

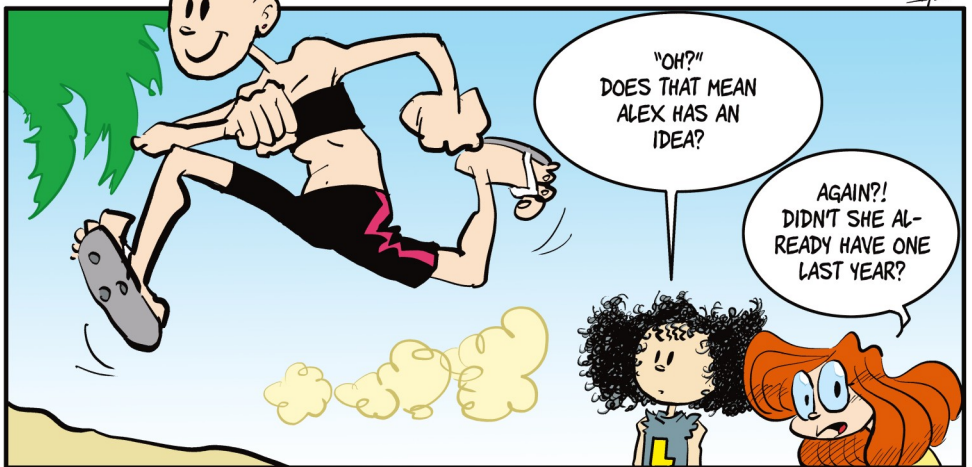
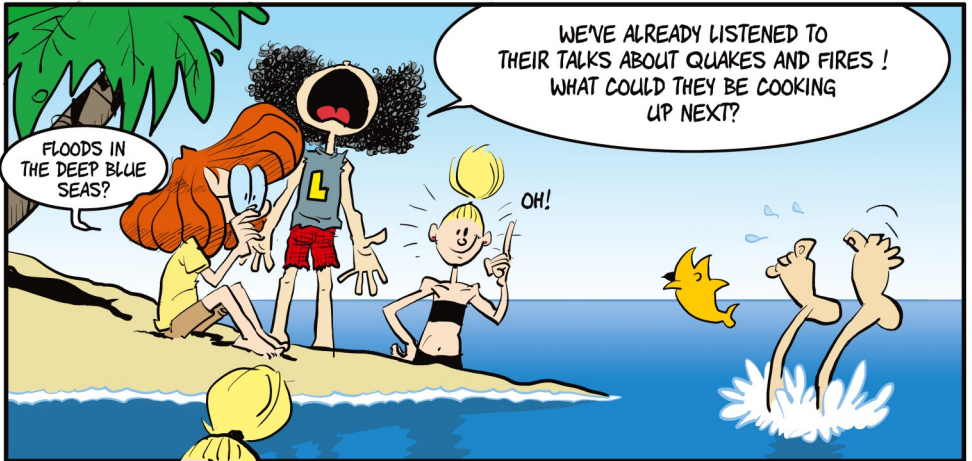
FLOODS

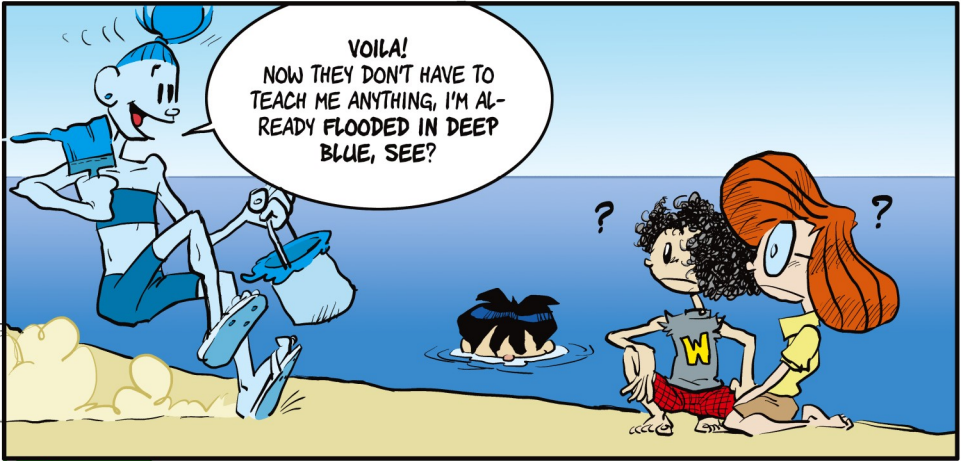


WAAH, SUMMER IS ENDING, WHICH MEANS...

...PLAYTIME IS OVER, AND WE'RE STARTING SCHOOL, YEAH.

COMIC: DARKO MACAN, AA05
COLOUR: MIRNA & TICO



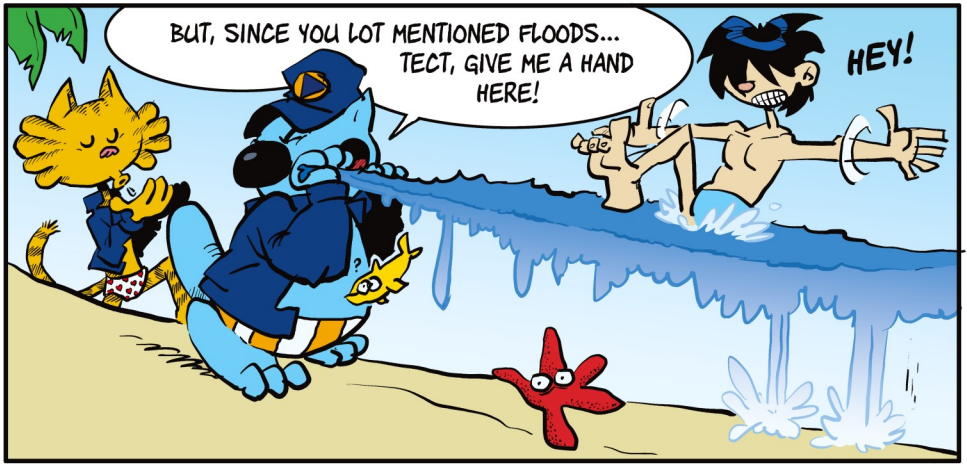


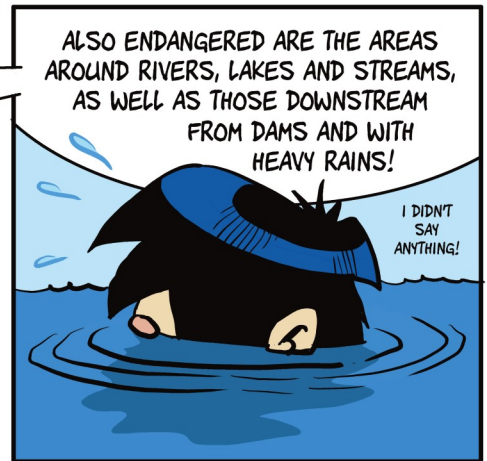
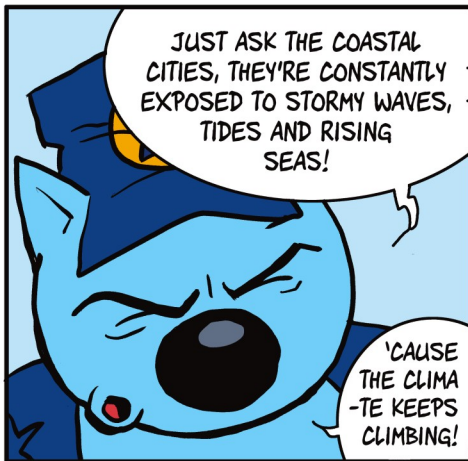
A-H-H-E-M!

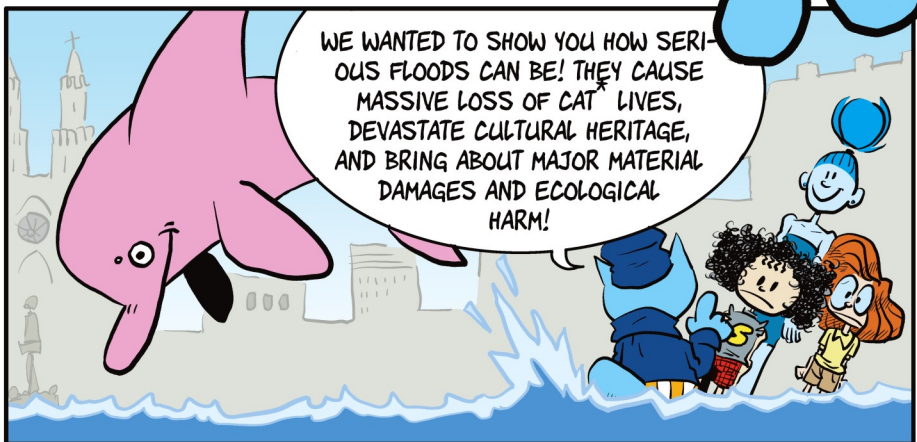
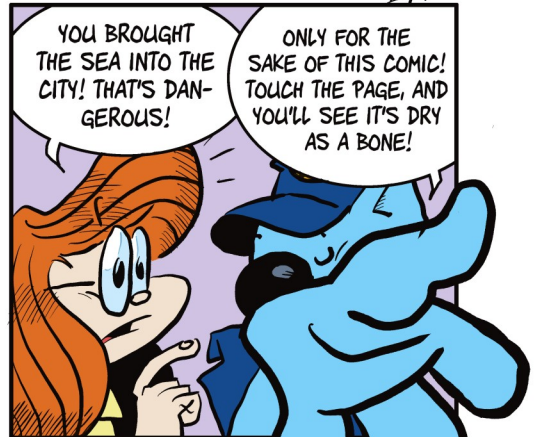
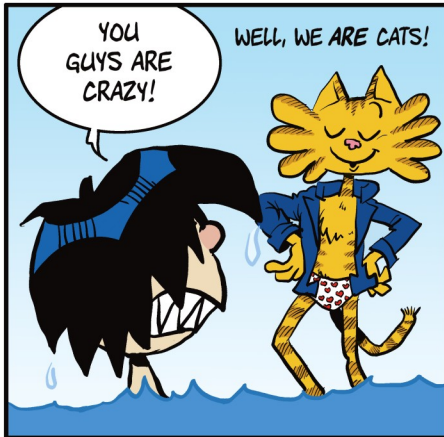


III/4

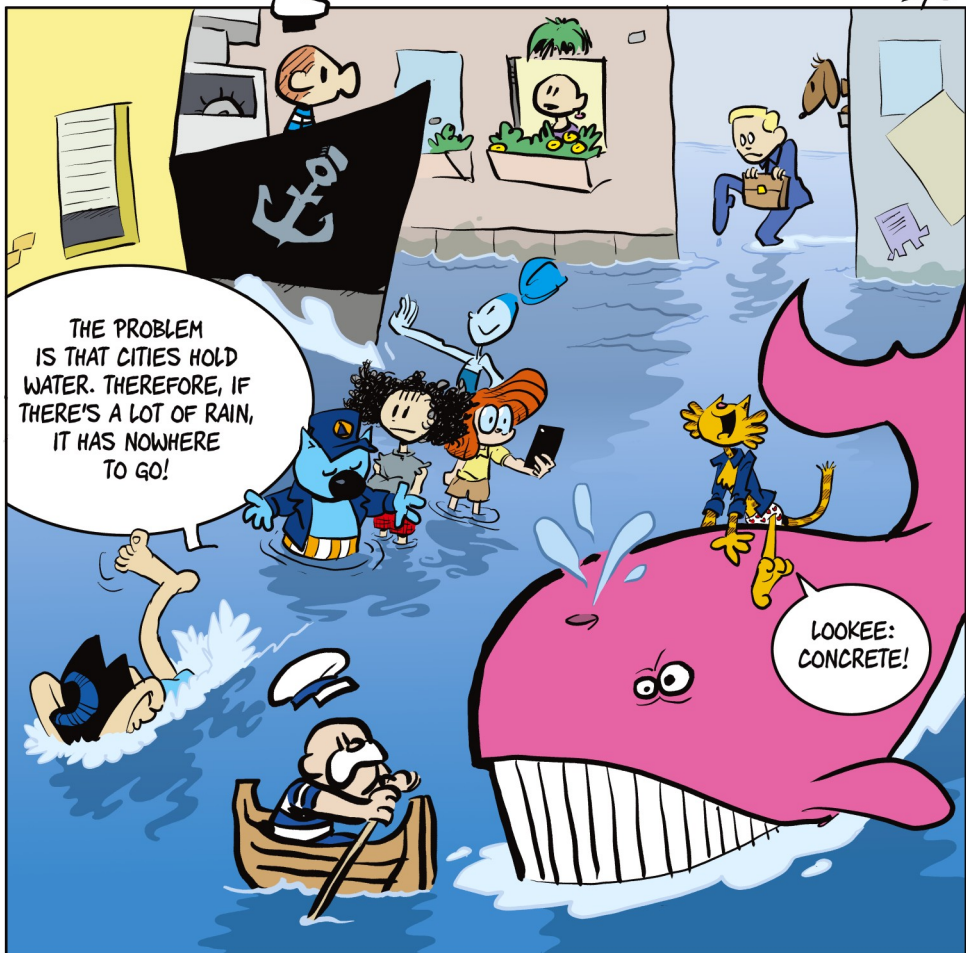


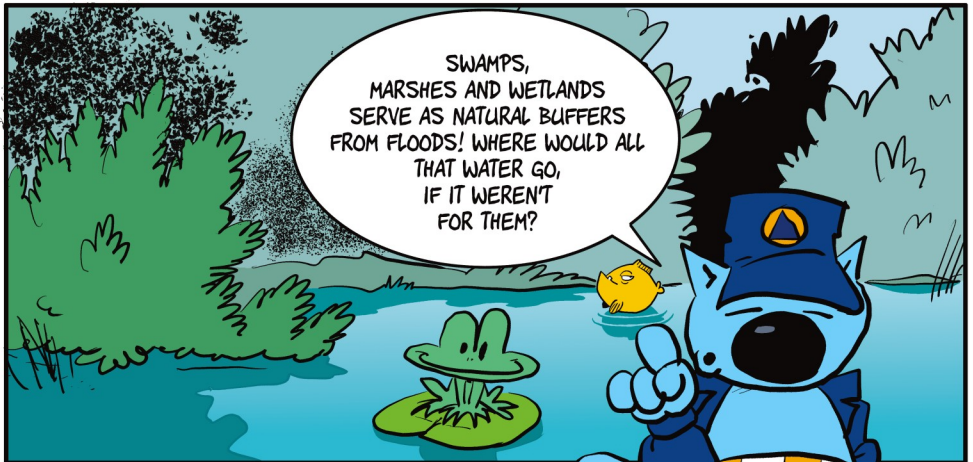
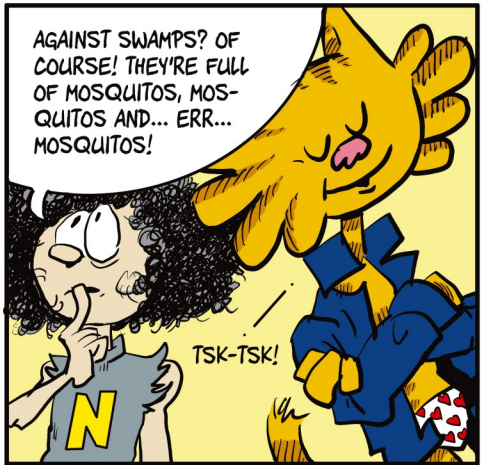
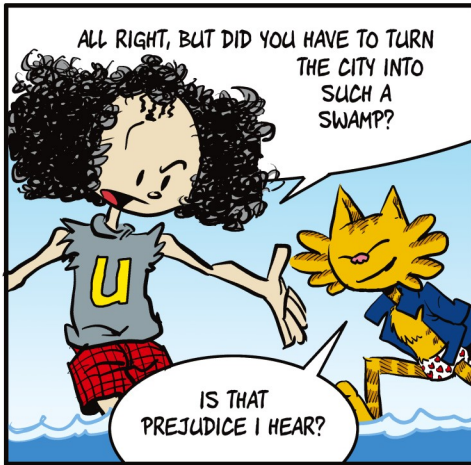






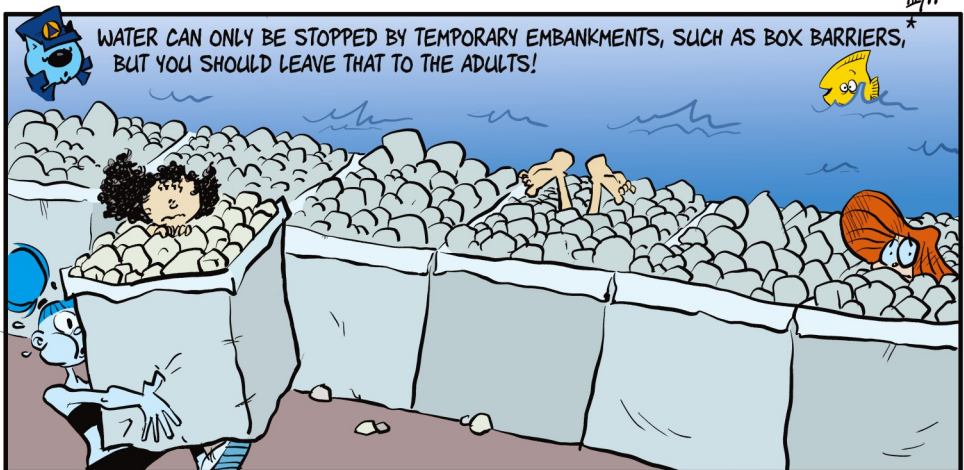
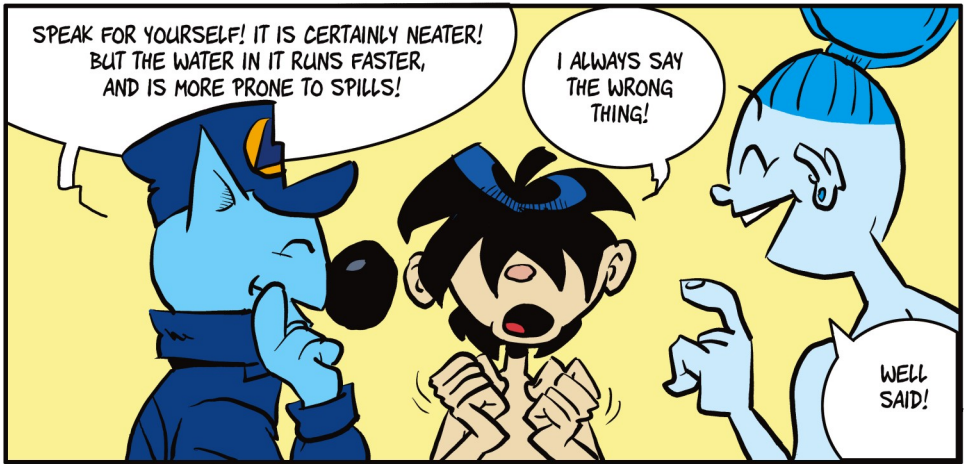
* ALL RIGHT, ALL RIGHT, HUMAN LIVES TOO.





FOR EXAMPLE,
HERE WE HAVE A RIVER THAT
FLOWS NATURALLY, AND HERE WE HAVE
A SO-CALLED "CHANNELIZED" RIVER.
WHICH ONE IS SAFER?

I KNOW
WHICH ONE IS
PRETTIER!

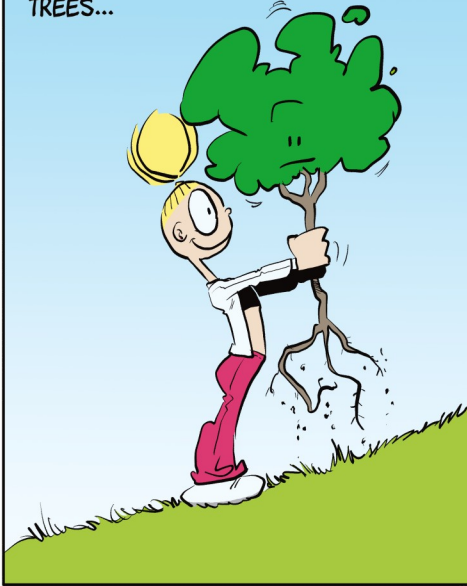


* MODULAR ELEMENTS FILLED WITH SAND, GRAVEL OR SOIL.

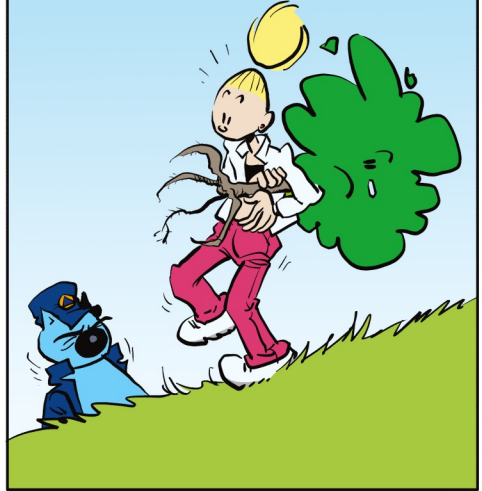


BUT, ONCE YOU'RE THE ONES MAKING DECISIONS, TRY TO BUILD HOUSES ON HIGHER GROUND, ELEVATED AND WITH PLEEEENTY OF YARDS AND GARDENS THAT CAN SOAK UP PRECIPITATION...

ALSO, DON'T CUT DOWN TOO MANY TREES...



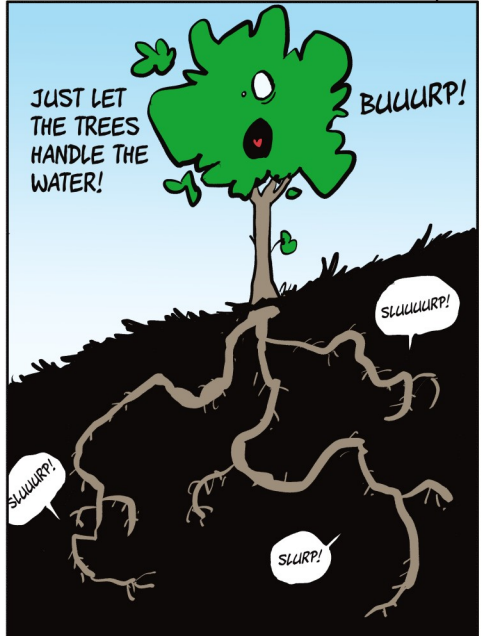
...BECAUSE SOIL WITHOUT TREES BRINGS ABOUT TORRENTS...



...WHICH THEN POUR DOWN INTO THE VALLEYS.



JUST LET THE TREES HANDLE THE WATER!



SEPARATE ELECTRIC CIRCUITS FOR THE UPPER AND LOWER FLOORS, AND KEEP ALL THE KITCHEN APPLIANCES ELEVATED.



MAYBE NOT THAT ELEVATED?

RAISE YOUR DOORWAY THRESHOLDS AND KEEP YOUR VALUABLES UP ON THE HIGH SHELVES.



I VALUE MYSELF ABOVE ALL ELSE!



III/13



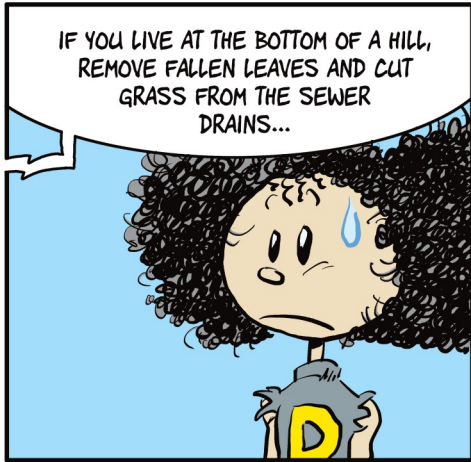
BUILD RAIN GARDENS, AND PRIORITIZE GREENERY IN YOUR YARDS.

RAIN GARDENS? HOW ABOUT FOR-ESTS?

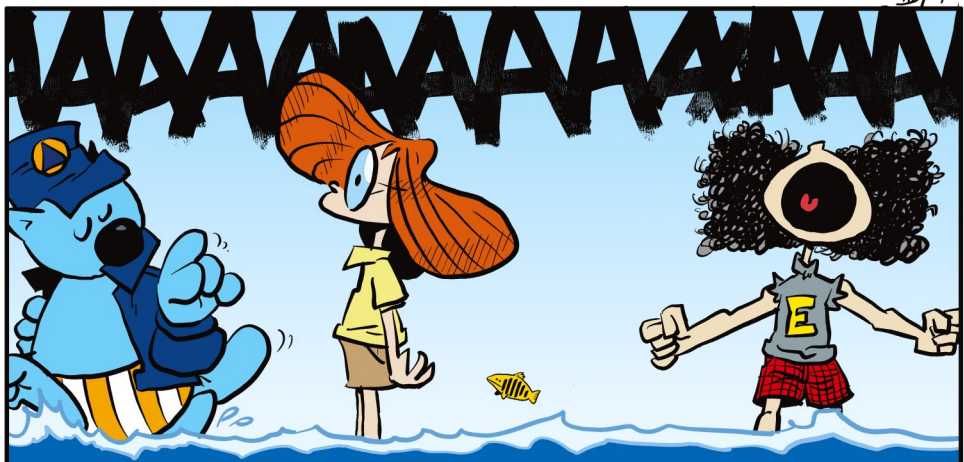


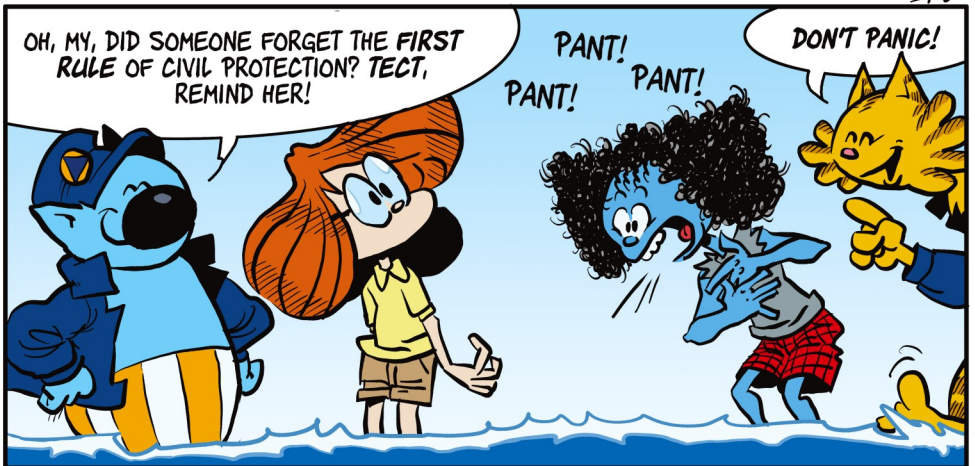
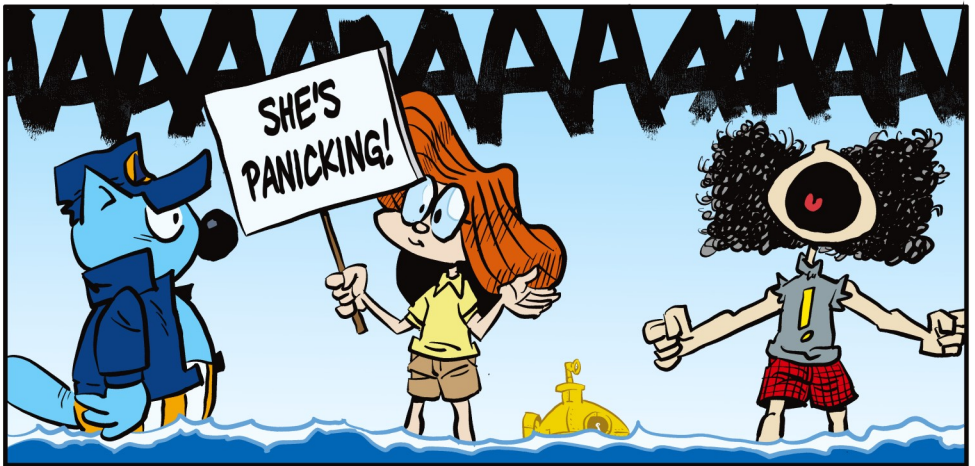
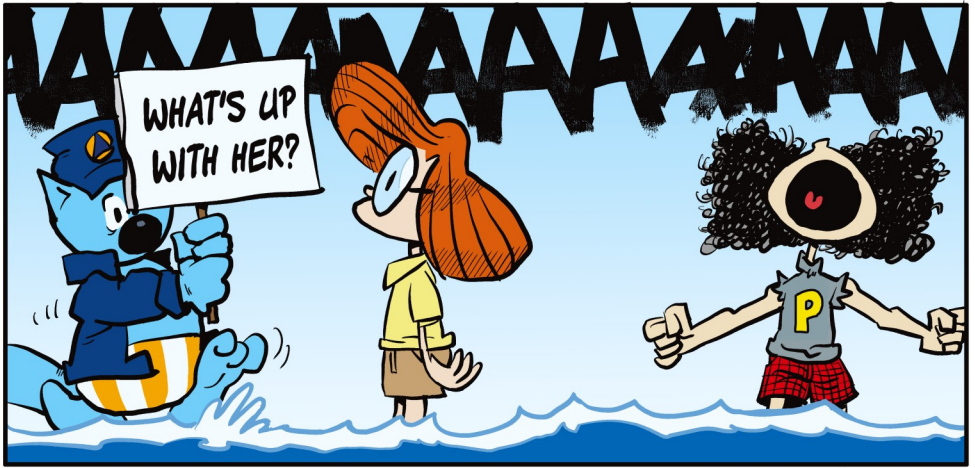
AVOID WOODEN FLOORS ON THE GROUND FLOOR AND PUT IN FLOOD-RESISTANT DOORS AND WINDOWS.

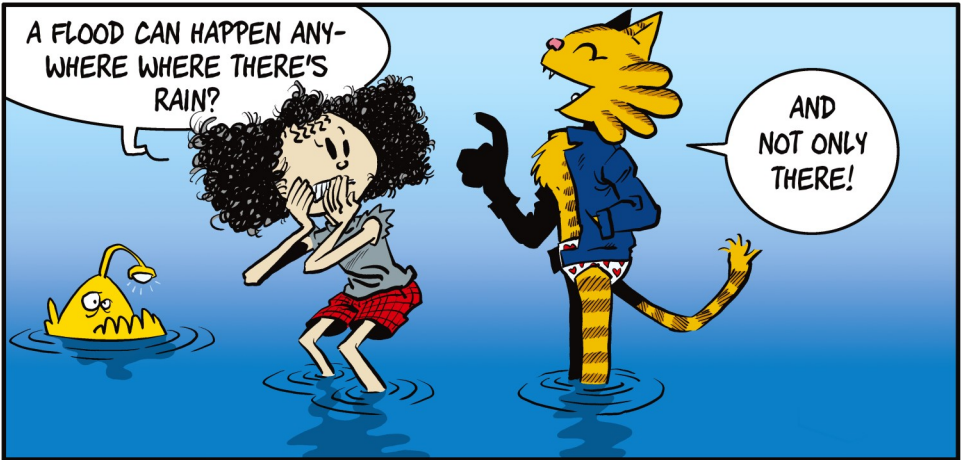




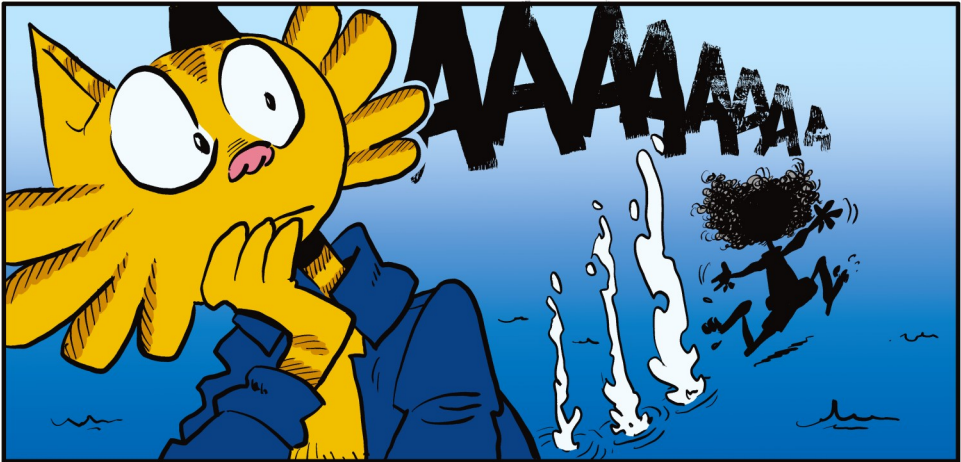
III/44

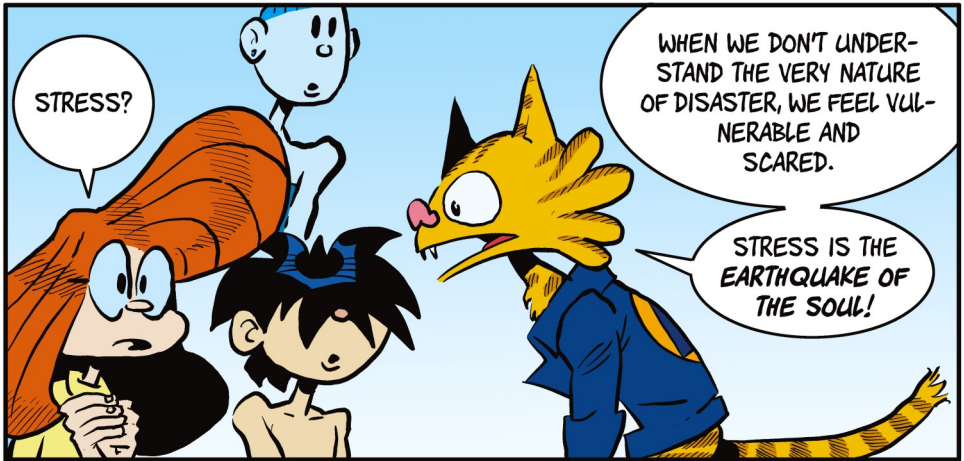




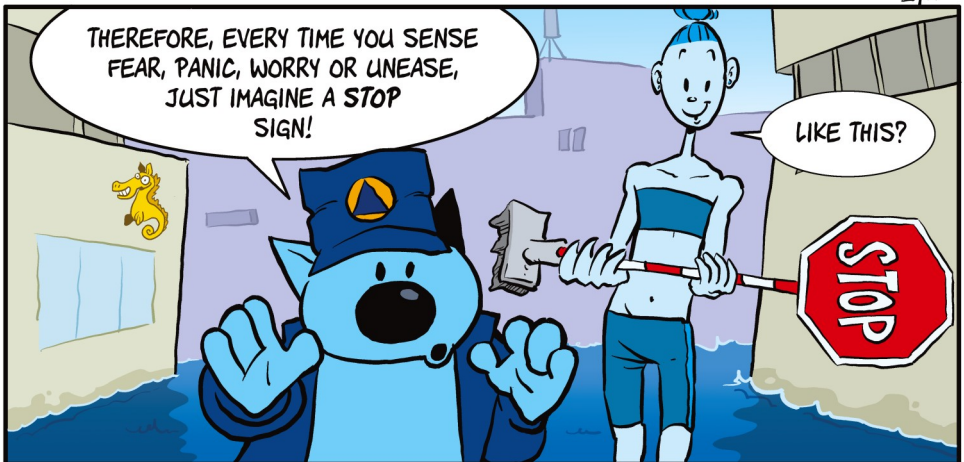


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III/17





STRESS DIMINISHES IF WE DEVELOP PHYSICAL RESISTANCE TO IT...



...OR IF WE PRACTICE COUNTING BACKWARDS, OR REMEMBERING NUMBERS THAT ARE DIVISIBLE BY 3...

100,
99,
88
...



3, 13, 23 ...



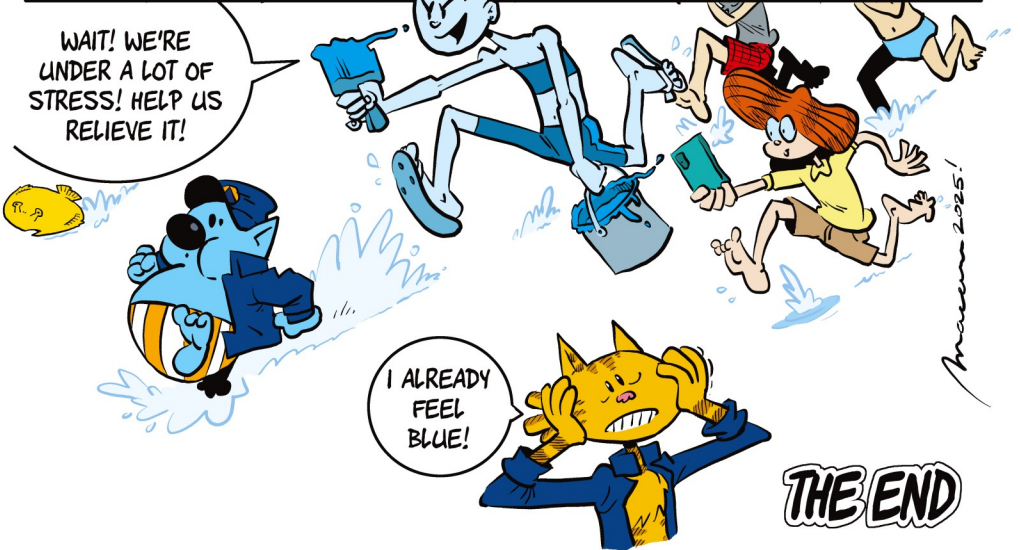
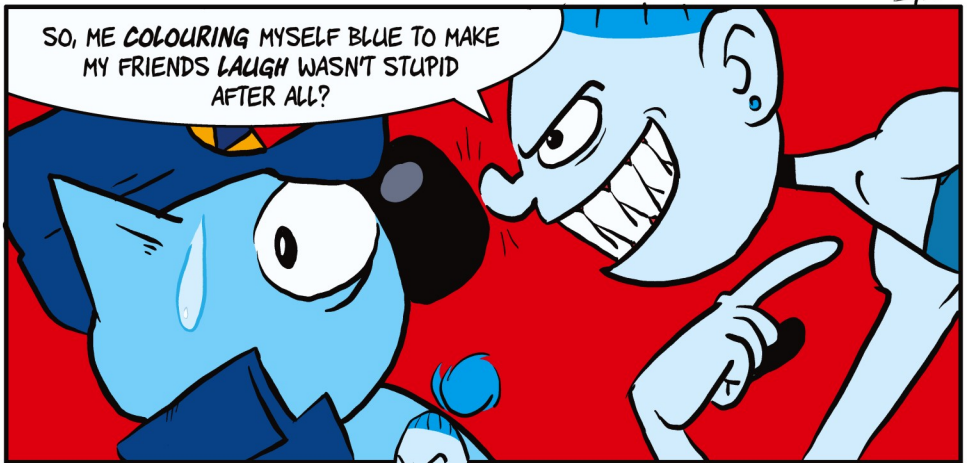
III/19

GROUP RESISTANCE CAN BE ACHIEVED BY HUGGING EACH OTHER, SENDING CHEERFUL MESSAGES...



...AND WE MUSTN'T FORGET THE EMOTIONAL RESISTANCE THAT WE GET FROM TELLING JOKES...





FIND ALL THE
YELLOW FISH
SWIMMING IN
"FLOODS"!

LOOK FOR ALL
THE LETTERS ON
HER T-SHIRT!



CIVIL PROTECTION PRESENTS:

DISEASE

THE SEAS?

NO... Y'KNOW,
EPIDEMICS AND
PANDEMICS!

OH!

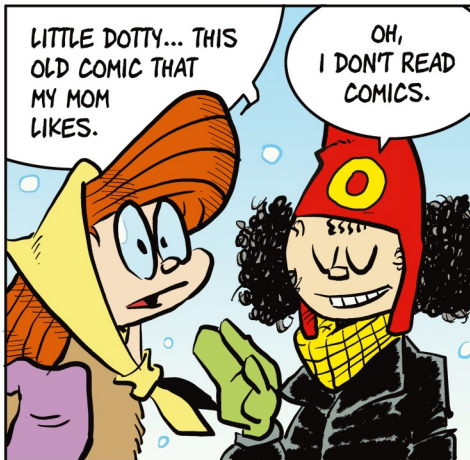
WHAT
HAPPENED
TO ME?

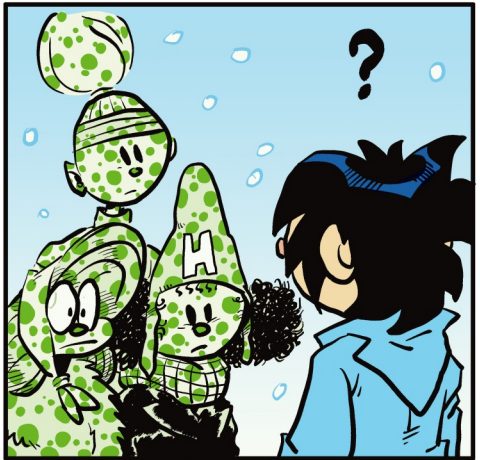
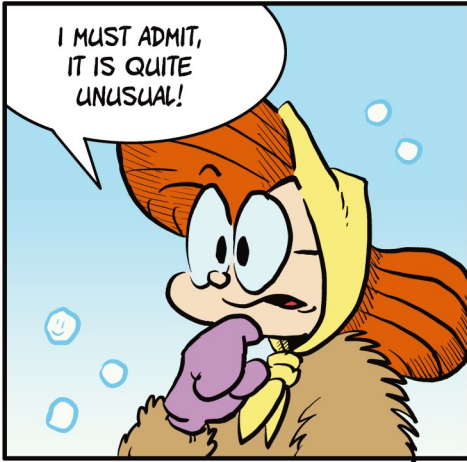
COMIC: DARKO MACAN, AAO5, COLOUR: MIRNA & TICO

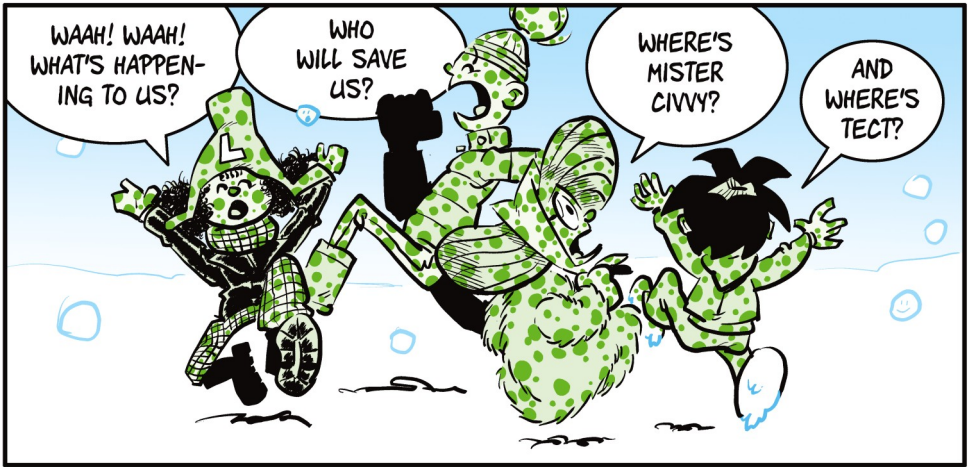




IV/2



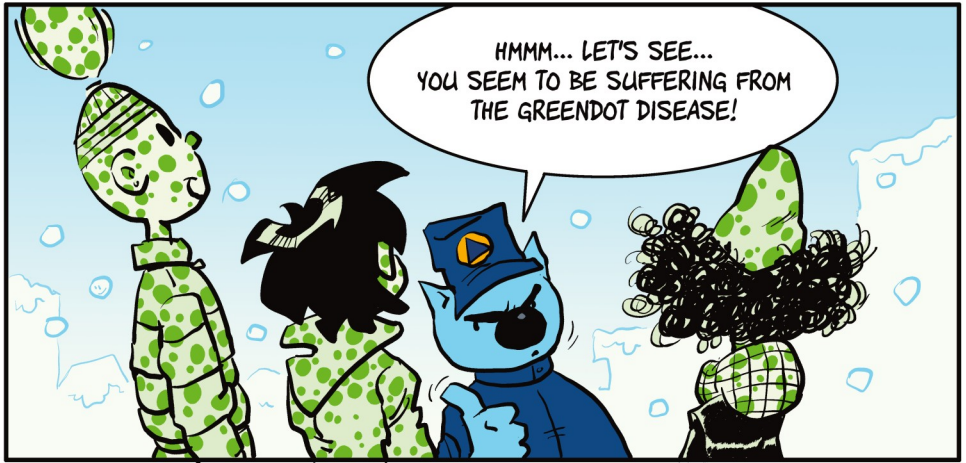




THEN, IF YOU'RE IN TROUBLE, YOU SHOULD CALL 112!



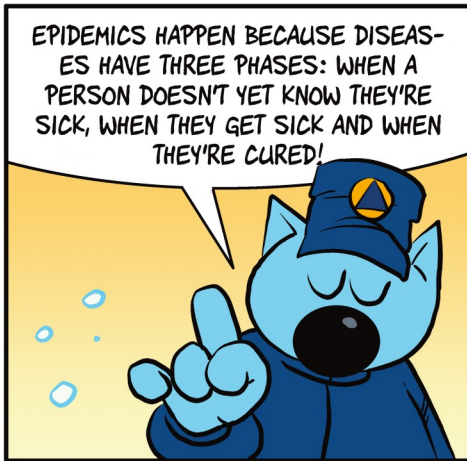
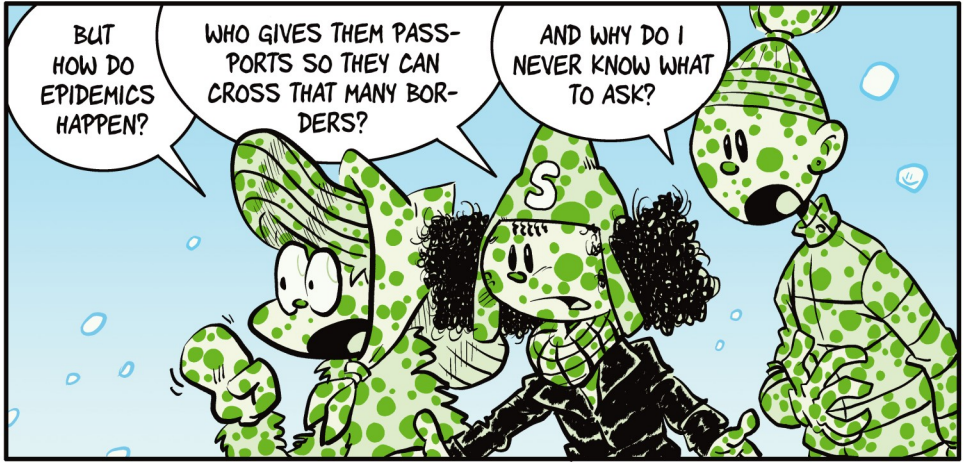




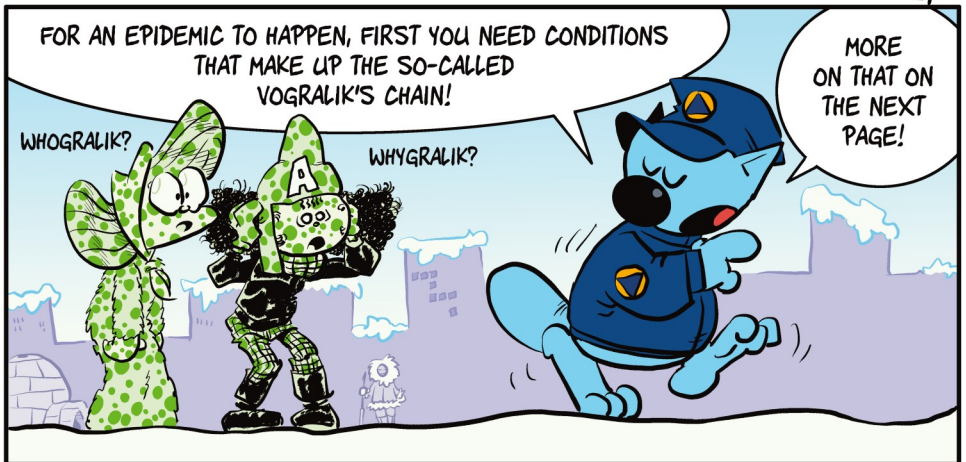
IV/6





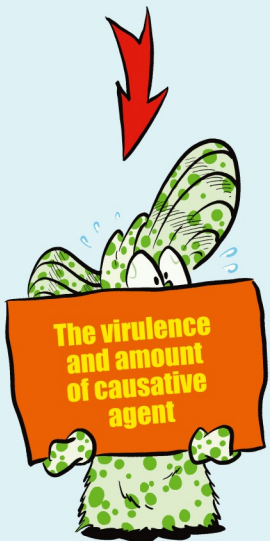


IV/9

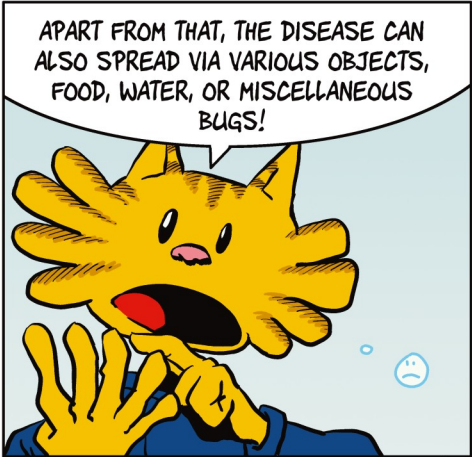


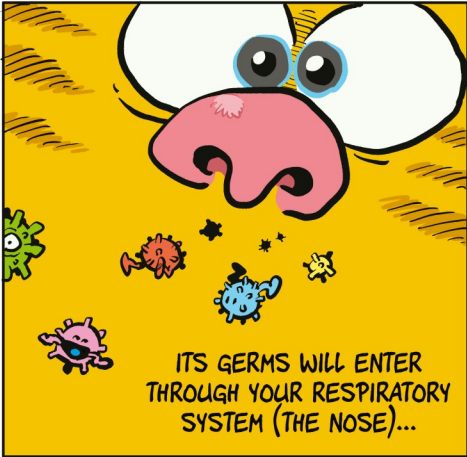
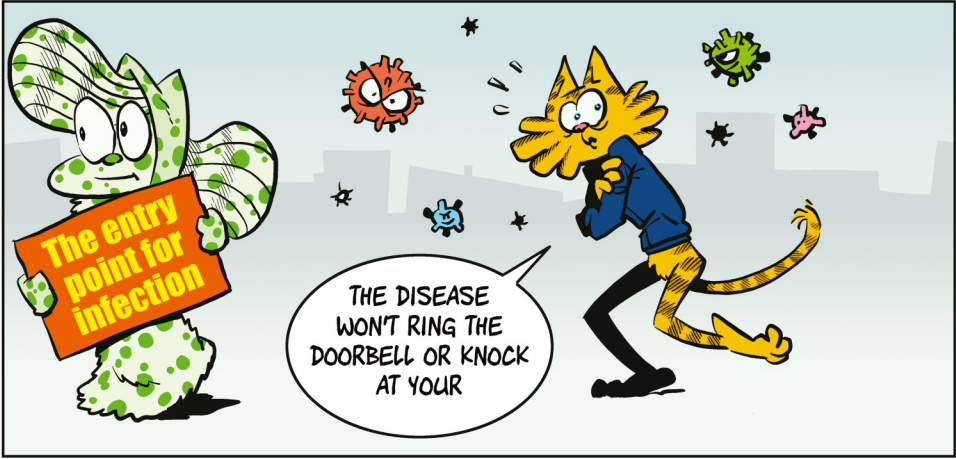


VOGRALIK'S
(EPIDEMIOLOGICAL) CHAIN
SAYS THAT ALL OF THESE
CONDITIONS ARE NECESSARY
FOR A DISEASE
TO DEVELOP!

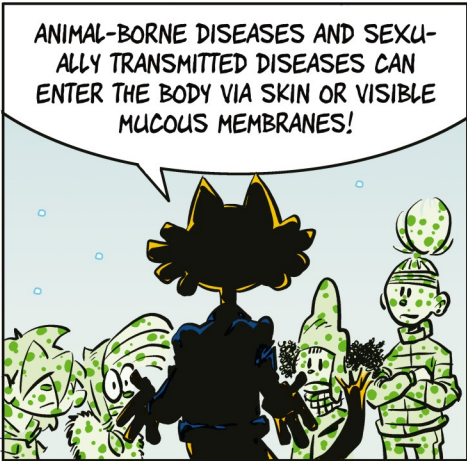








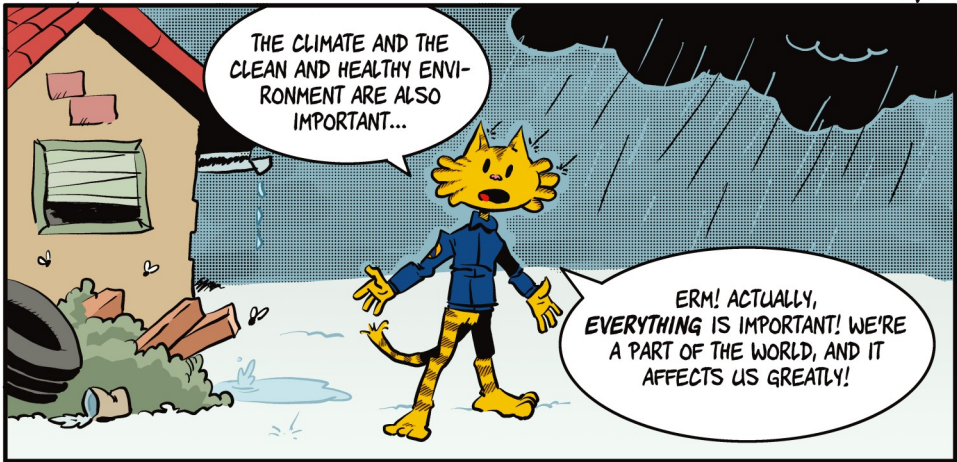
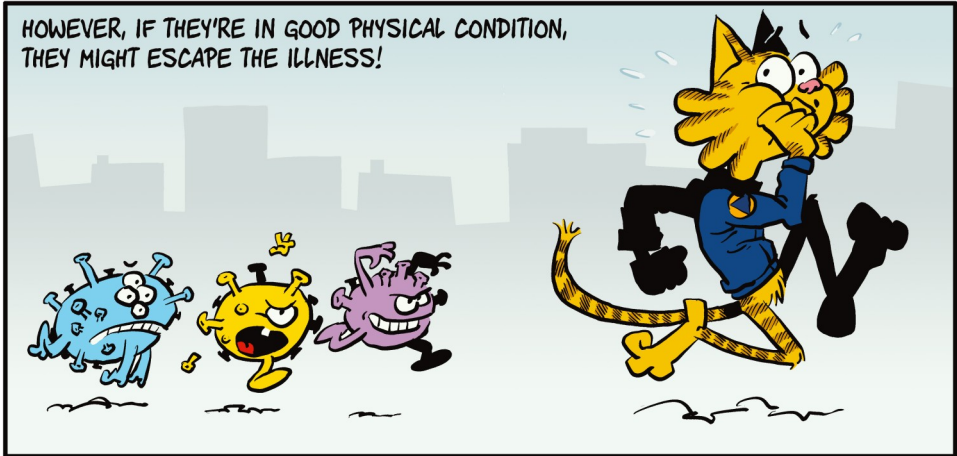
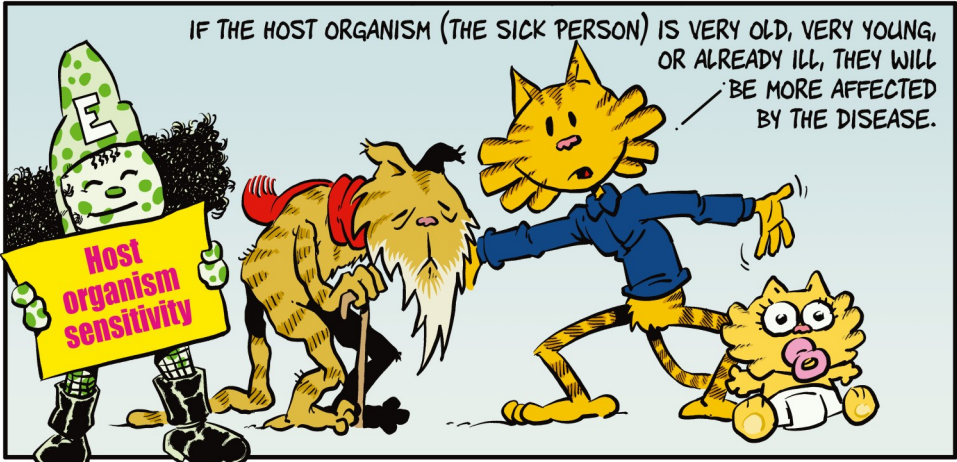
IV/13

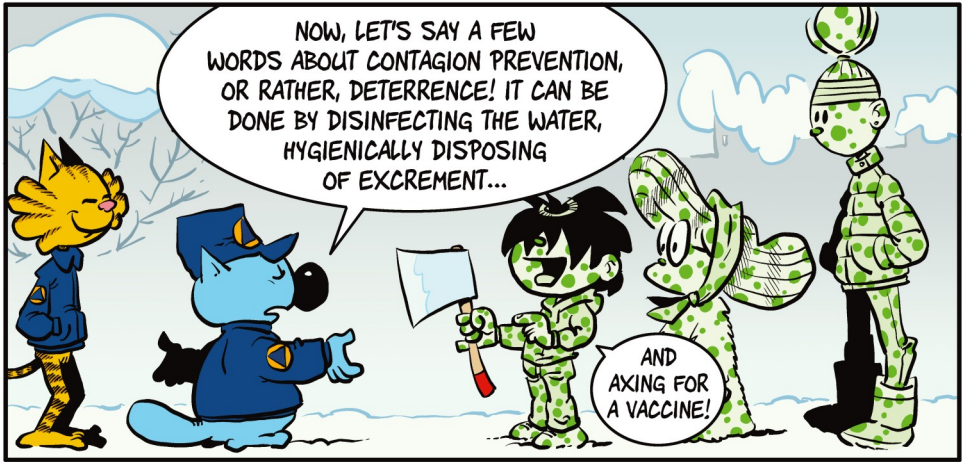




The virulence
and amount
of causative
agent

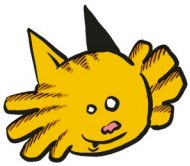
LONG STORY
SHORT, THE MORE GERMS
(VIRUSES) THERE ARE, AND THE
MORE DANGEROUS THEY ARE, THE
MORE LIKELY IT IS THAT YOU'LL
GET SICK!





IV/16





ONCE AN EPIDEMIC DOES HAPPEN, THEN IT'S TIME FOR LATE PREVENTION, SO AS TO SLOW DOWN THE SPREAD OF DISEASE!

WASH YOUR HANDS WITH SOAP AND WARM WATER, OFTEN AND THOROUGHLY!



WHEN YOU COUGH OR SNEEZE, MAKE SURE YOU COVER YOUR NOSE AND MOUTH WITH A HANDKERCHIEF OR YOUR ELBOW!

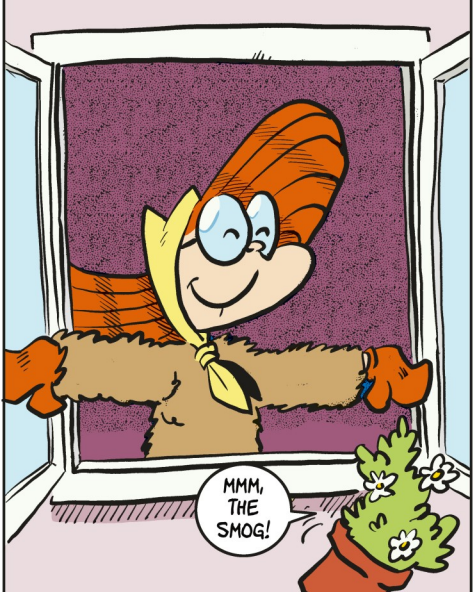


IV/17

AVOID MASS GATHERINGS AND CONTACT WITH PEOPLE WHO SHOW SIGNS OF ILLNESS!



FREQUENTLY AIR OUT YOUR ROOMS!





IV/48



COMMUNITY PLAYS A MAJOR ROLE IN PREVENTING VARIOUS DISEASES, BUT SO DOES EVERY INDIVIDUAL!





SCROLL THROUGH
'DISEASES' AND LOOK FOR
ALL THE SNOWFLAKES
THAT HAVE FACES.



After the comic book, you can visit the SROK Portal* (DRR Portal) on the Civil Protection Directorate website and find lots of cool stuff or you can play the Stop Disasters** UN online game.

Civvy and Tect

*<https://zeoscz.mup.hr/portal/apps/sites/#/geoportal-srok-a>

**<https://www.stopdisastersgame.org/>



MINISTRY OF THE INTERIOR
Civil Protection Directorate
www.civilna-zastita.gov.hr



Co-funded by
the European Union