

Creating Infographics

MetaMeta
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Workshop FBFS
April 20th, 09:00 – 12:00

Today's program

1. Introduction
2. Infographics: Data visualization
3. Infographics: The process
4. Infographics: Storytelling
5. Creating infographics
6. Group work
7. Reflections

Researchers and infographics

- Everybody likes simple language.. More often asked in journals.. Is there a trend?
- Examples of famous researchers sharing stories, rather than scientific articles
- Visual abstracts

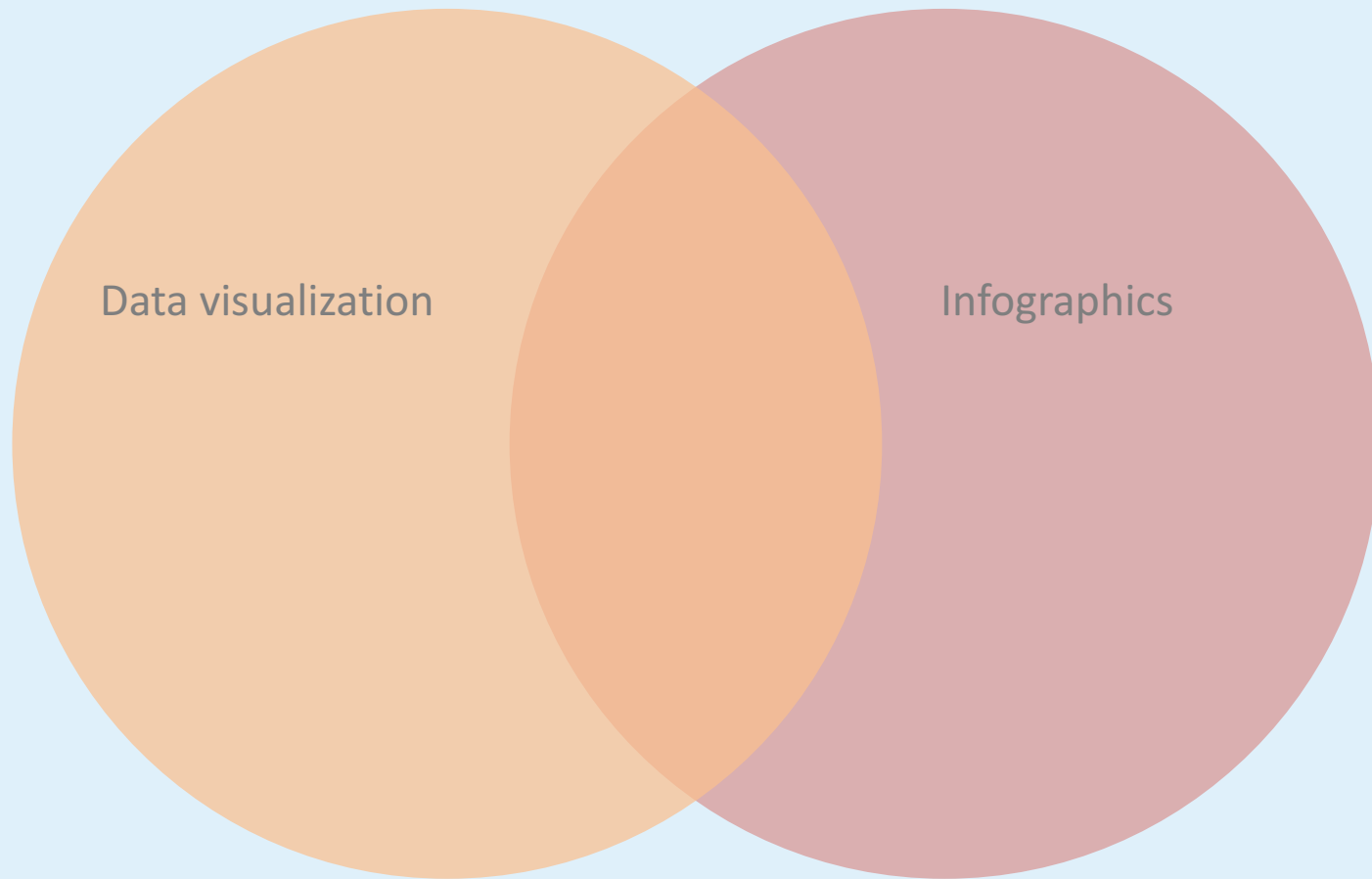
SCIENTIFIC
AMERICAN.

413 results for

"INFOGRAPHIC"

2. Infographics: Data visualization

Data visualisation vs infographic



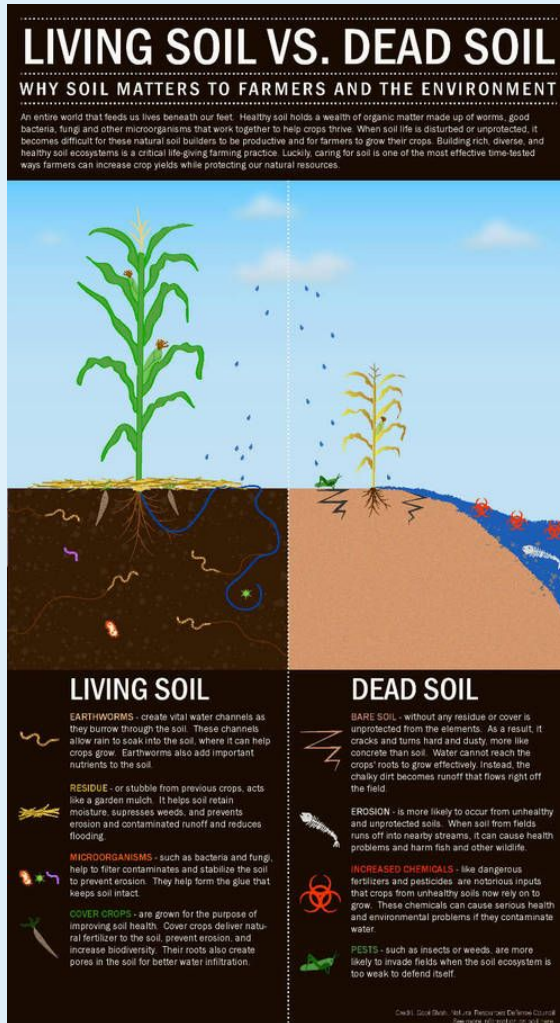
Data visualisation is...

- Quantifiable information in the form of numbers
- Data visualisation is objective,
- created for the purpose of making sense of the data,
- or to make data more accessible.
- Likely to be created automatically
- Transferable process to other data sets
- Graphic design is often less important

Country Name	1960	1961	1962	1963
Aruba	54208	55435	56226	561
Andorra	13414	14376	15376	16
Afghanistan	8994793	9164945	9343772	9531
Angola	5270844	5367287	5465905	5565
Albania	1608800	1659800	1711319	1762
Arab World	92495902	95041593	97691498	100438
United Arab Emi	92612	100985	112240	125
Argentina	20619075	20953079	21287682	21621
Armenia	1867396	1934239	2002170	2070
American Samoa	20012	20478	21118	21



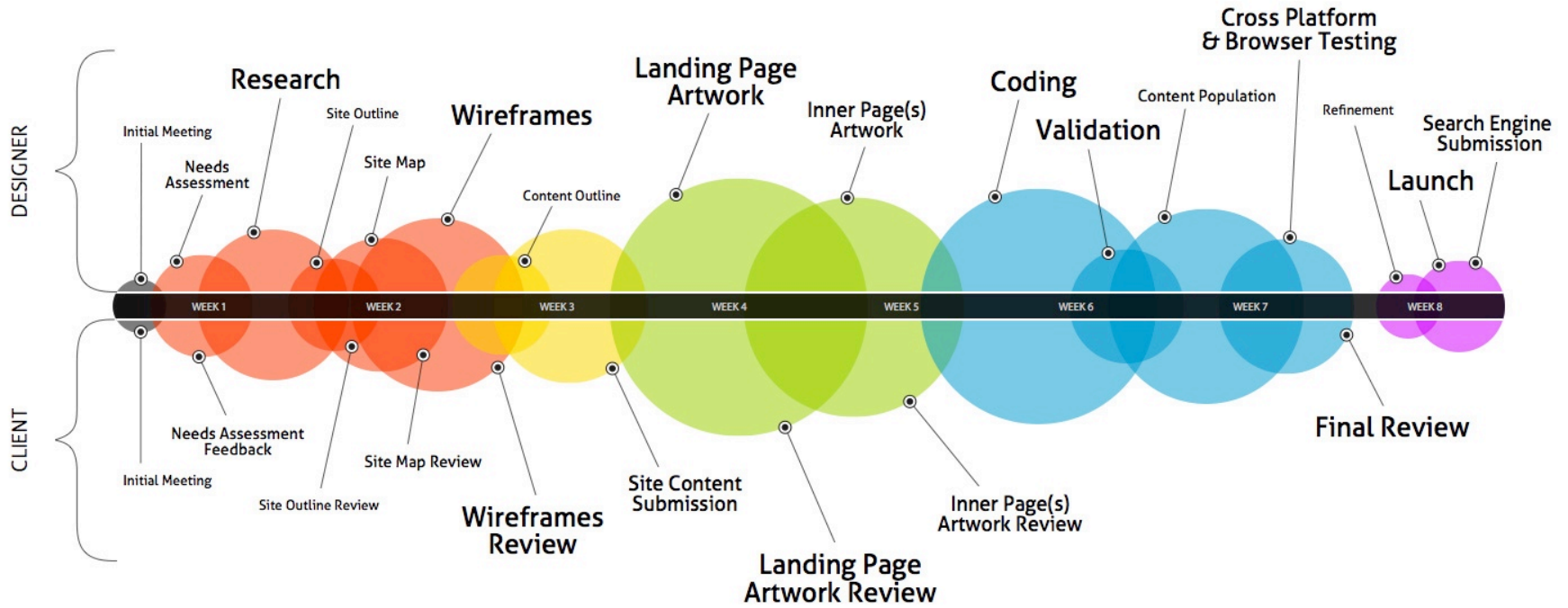
Infographics...



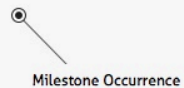
- Contain information presented within context
- Are designed to tell or explain a specific story
- Are intended for a specific audience
- Are subjective
- Are content enriched by illustrations, icons and other graphical flairs - matching your audience and purpose (journal / website / poster)

A Web Site Designed

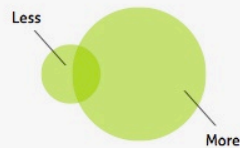
MILESTONES, INVOLVEMENT, IMPORTANCE & TIMELINE



MILESTONES



INVOLVEMENT



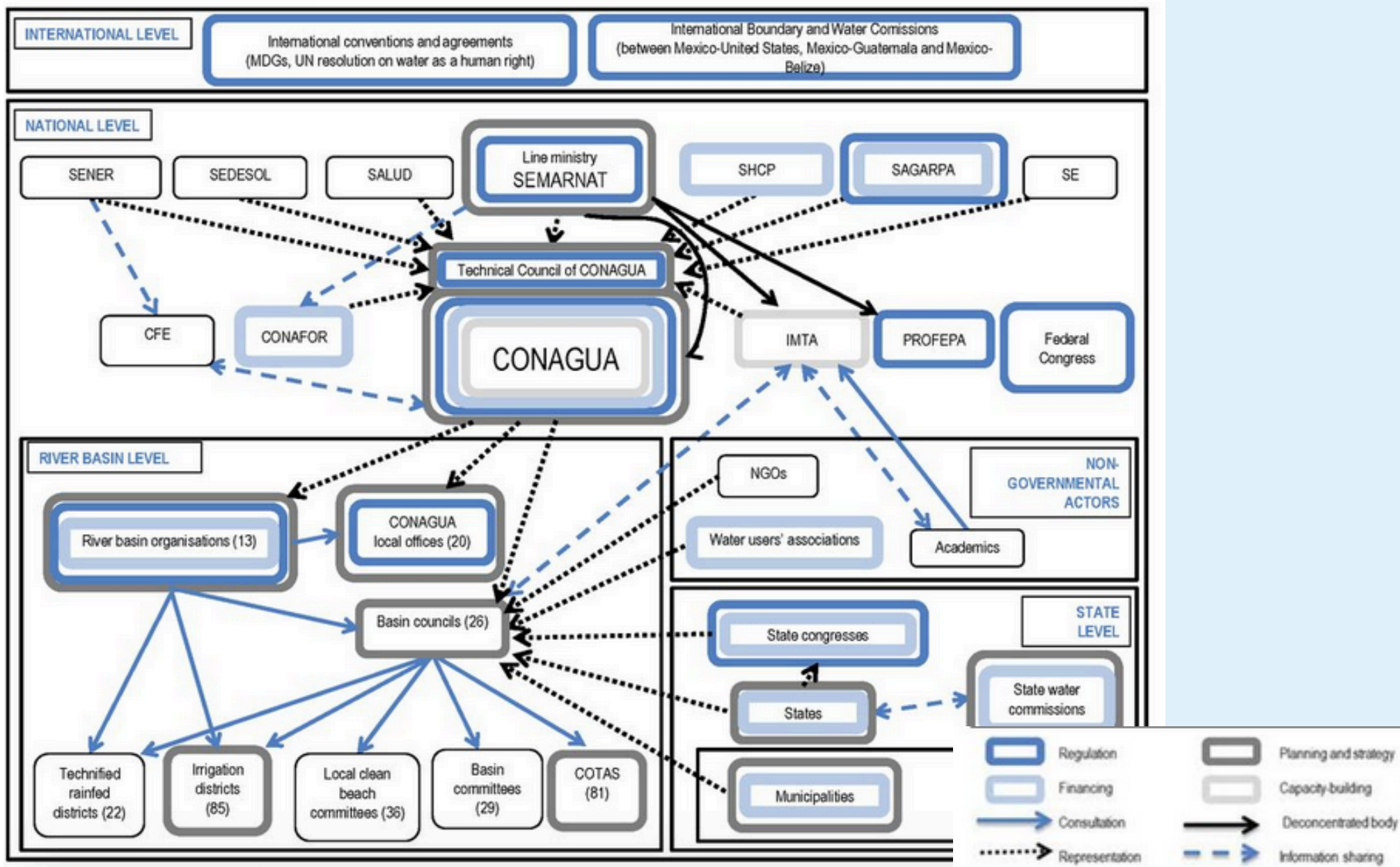
IMPORTANCE

Average
Greater

PHASE



Figure 3.1. Institutional mapping of roles and responsibilities for water resources management in Mexico



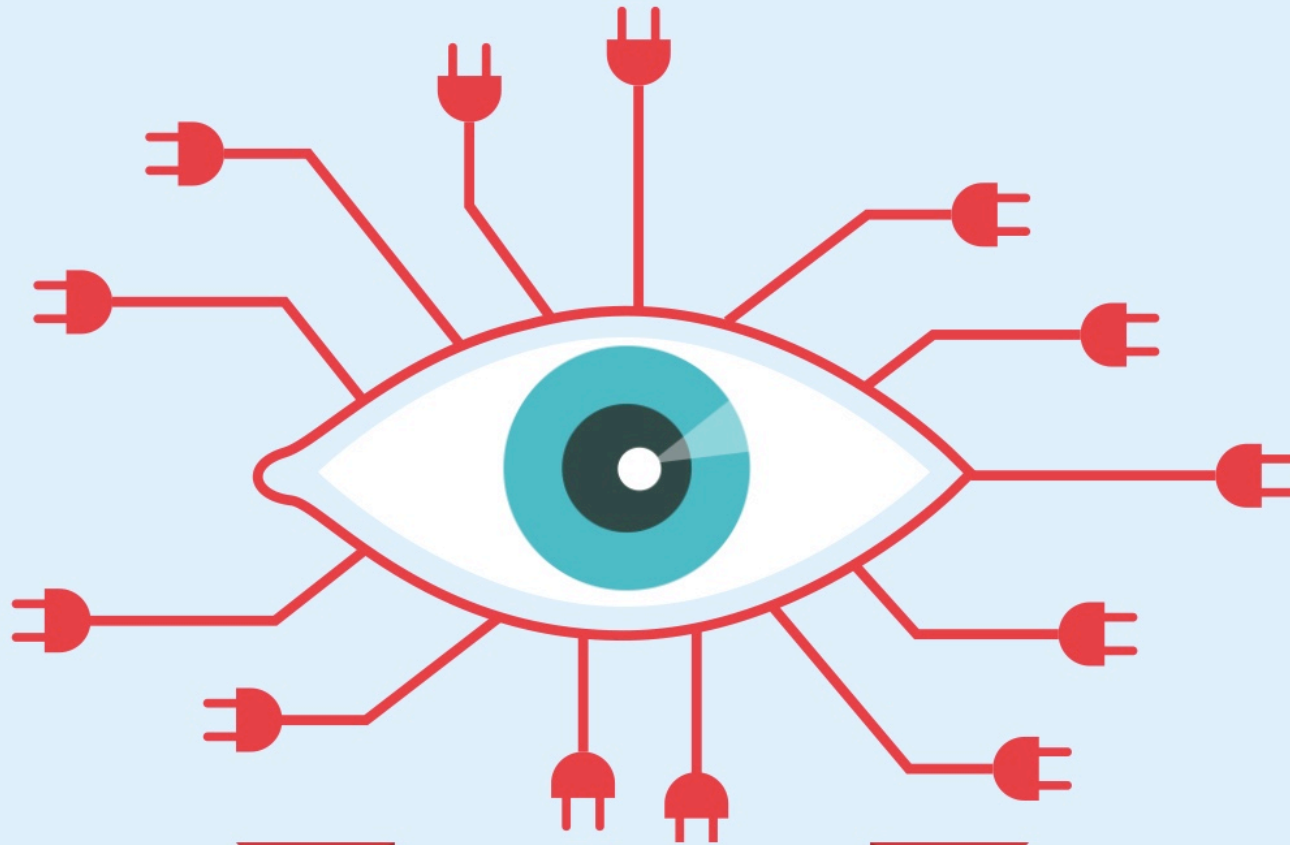
- Add another good example

Why do infographics work?



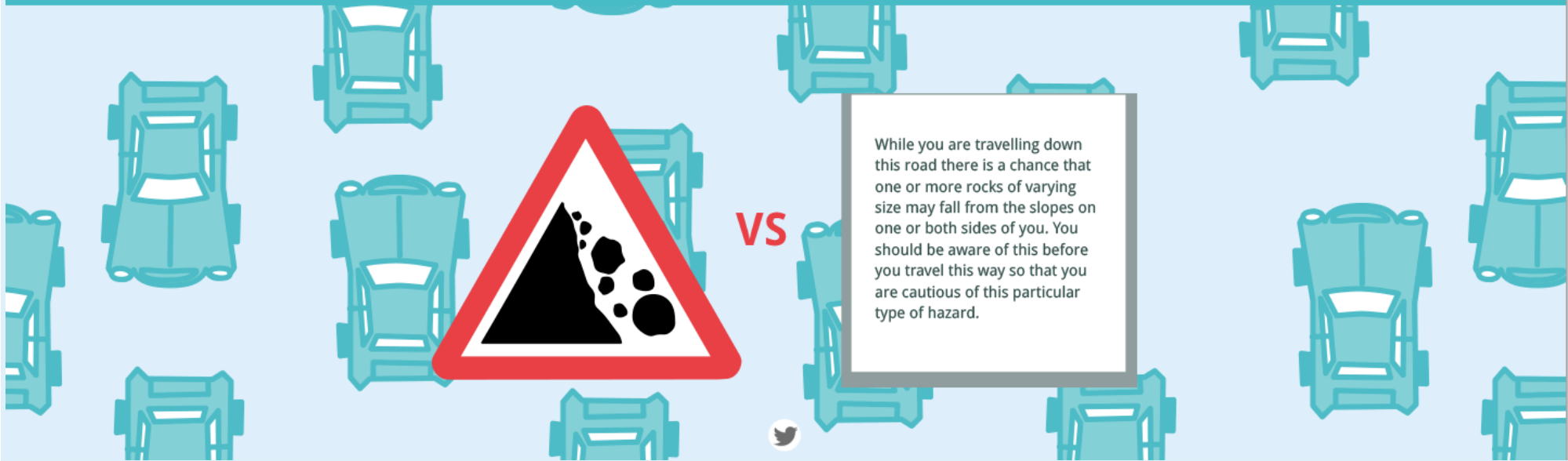
The power of images?





This is because we are
'visually wired'

It only takes us 150ms for a symbol to be processed + 100ms to attach a meaning to it ^[7, 8]



While you are travelling down this road there is a chance that one or more rocks of varying size may fall from the slopes on one or both sides of you. You should be aware of this before you travel this way so that you are cautious of this particular type of hazard.

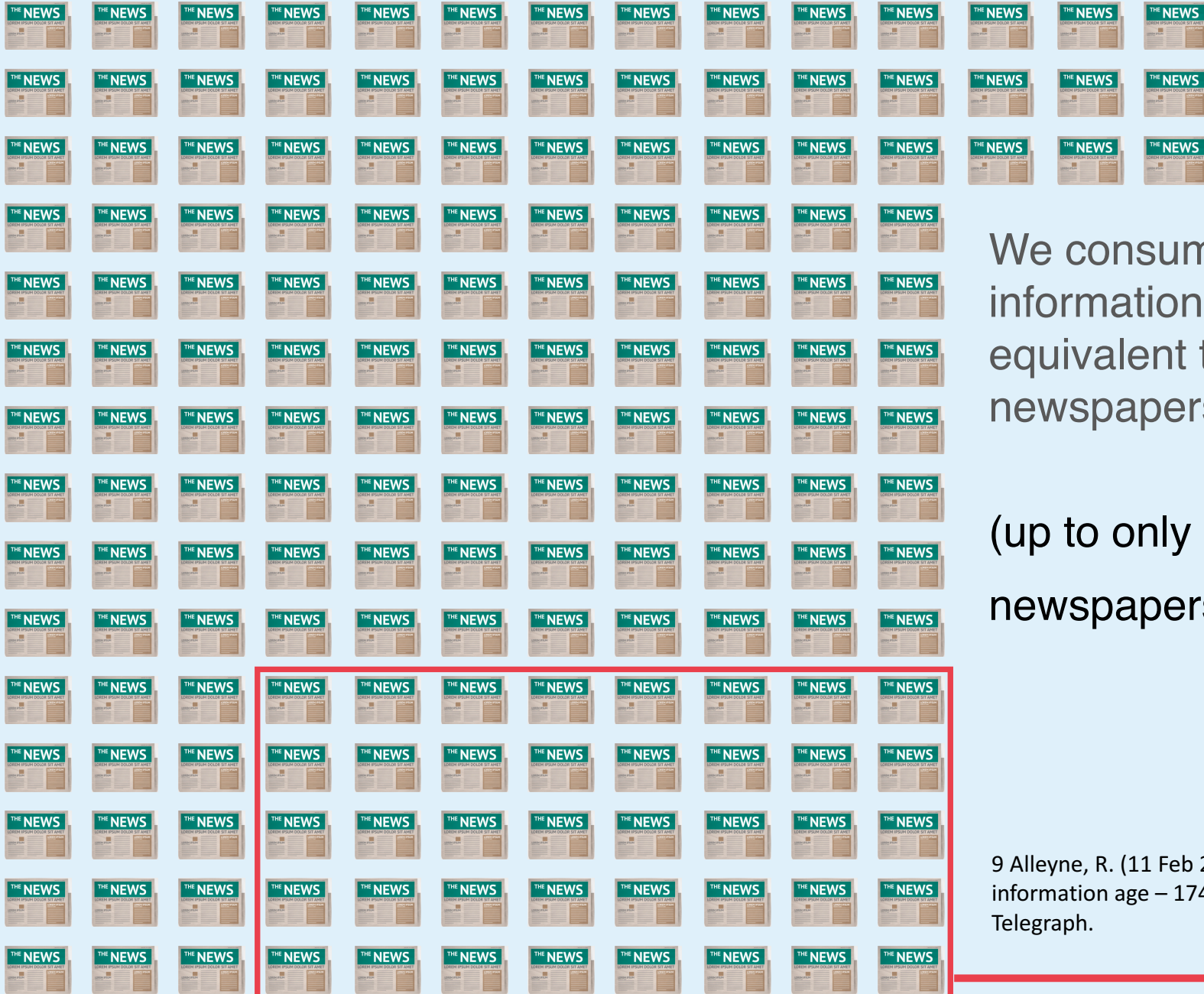


Informavores



We're all informavores now, hunting down and consuming data as our ancestors once sought woolly mammoths and witchetty grubs."

- Rachel Chalmers



We consume information equivalent to 174 newspapers per day.

(up to only 40 newspapers in 1984)

9 Alleyne, R. (11 Feb 2011). Welcome to the information age – 174 newspapers a day. The Telegraph.

Information overload



We receive
5x
as much information
today as we did
in 1986. ^[9]



34 gigabytes
or **100,500 words**
– the amount of information
we consume outside of work
on an average day. ^[10]



On average
users only read
28%
of words per visit. ^[11]



Infographics counter information overload because...

They're more engaging



Researchers found that colour visuals
increase the willingness to read by 80%.

[12]



Easier to recall ^[17]

People remember:

80%
of what they
SEE and DO

10%
of what they
HEAR

20%
of what they
READ



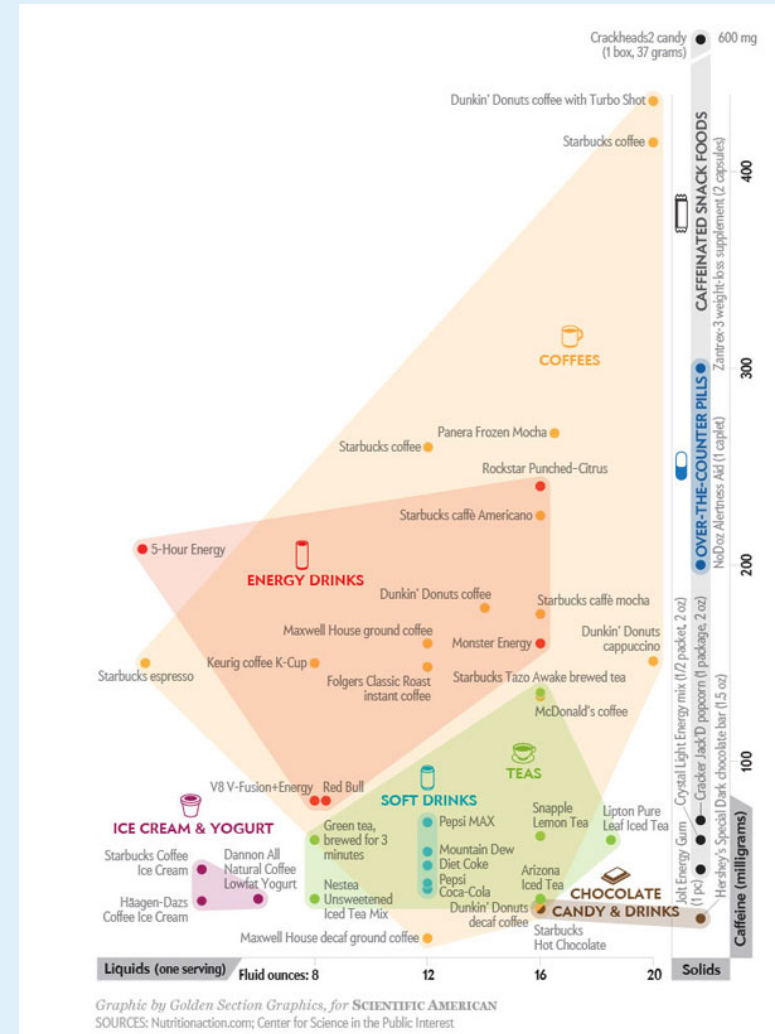
3. Infographics: The process

Part 1: What to ask?

- What is the purpose?
- Which data am I going to use?
- Why will people share it (who are they?)
- How can I maximise that?

Data: make choices

- Challenge: find a balance



Find your hook

- What is the take away for the header?
- Use this as hook / focal point
- Build your story around it

Tell your story

introduction / foundation

Ah-Ha!
The Main Event

conclusion / call-to-action

Classic example of clear
storyline:
http://infographicjournal.com/wp-content/uploads/2016/04/Ademero_Impacts-of-a-Paper-Based-System_infographic1.png

Creating Infographics


1. Choose a format
2. Build a wireframe
3. Visualise as much as possible
4. Strengthen your hook visually
5. Reflect and revise

Be creative


Choose a format

12


PRACTICAL




Flowchart How-to




How to Guides



The Guide to...



World Maps / Countries That...



Illustrated How-Tos






Photo Guides

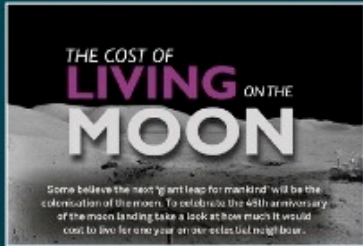
EDITORIAL



Visual Answer to a Question




Versus Infographic

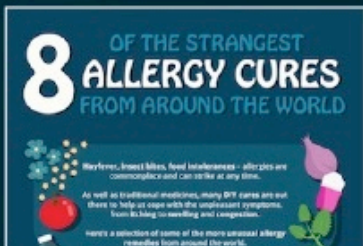


Statement with Proof


SOCIAL



50 Facts



Lists Using Illustrations



Visual Map

Often used starting points

Visual Article

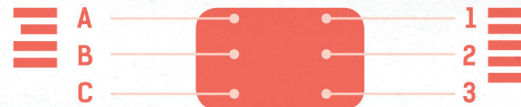


Makes a piece of writing more visual

Best used to:

- cut down on text
- make a plain article more interesting
- increase sharing potential

Versus

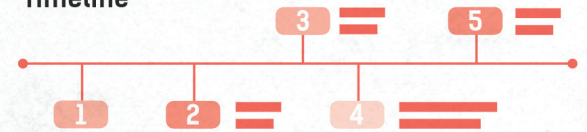


Compares two things in a head-to-head study

Best used to:

- highlight differences between two similar things
- highlight similarities between two unlike things
- prove one option is superior/inferior to the other

Timeline



Tells a story through a chronological flow

Best used to:

- show how something has changed over time
- make a long, complicated story easier to understand
- show how one thing leads to another

Map

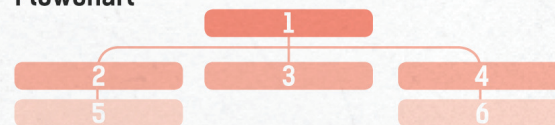


Showcases data trends based on location

Best used to:

- compare places and cultures via setting-centric data

Flowchart



Provides a specialized answer to a question via reader choices

Best used to:

- provide personalized answers for readers
- showcase how multiple situations can reach the same conclusion

Data Visualization



Communicates data through charts, graphs, and/or design

Best used to:

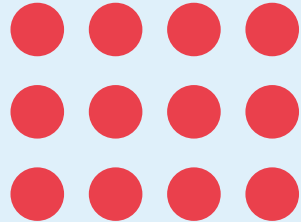
- make data-driven arguments easier to understand
- make facts and statistics more interesting to absorb

Build a wireframe

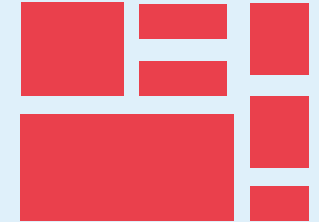
- Lay out your concept
- Make a sketch of the hierarchy
- Use this step to have your concept reviewed

Visualise: basic principles

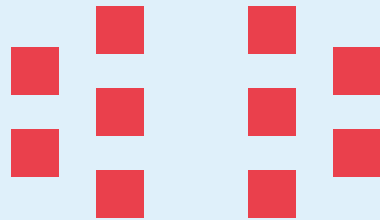
Unity – harmony



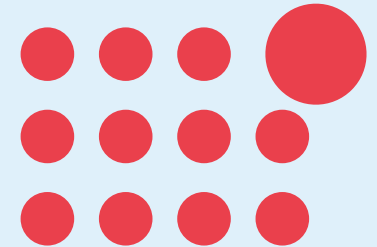
Scale - proportion



Balance



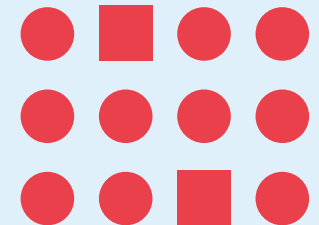
Dominance - emphasis



Hierarchy



Similarity - contrast



Forests and family farms together sustaining livelihoods and landscapes



FOREST AND FARM PRODUCER ORGANIZATIONS
CONNECT, ENABLE AND AMPLIFY OPPORTUNITIES



6 MIND-BLOWING Social Media Statistics

And What They Mean For Your Marketing Strategy

For More Insights Visit www.bit.ly/6strategies
And Download The Free White Paper.

2.

Pinterest is projected to account for 40% of social media driven purchases.



1.

95% of all Facebook wall posts are NOT answered by brands.



3.

The average user spends 20 minutes per visit on Facebook.



5.

Twitter handles 32 billion search queries per month.



4.

13% of consumers follow a brand on social channels because of their content.



6.

20% of Google searches each day have NEVER been searched for before.



make It Work For You
Designate a response team to handle common inquiries and concerns



make It Work For You
Post 1 or 2 times per day



The half-life of a Facebook post is 18 hours

make It Work For You
Practice targeted listening



make It Work For You
Include prices - pins with prices are 50% more likely to perform better



make It Work For You
Write what you know - expertise can be translated into highly valuable content assets



make It Work For You
Explore analytics for content and keyword ideas



For More Great Resources On Social Marketing Strategies, Visit www.AwarenessNetworks.com

Use colours

- Limit your colour palette
- Stick to 3 to 6 colours
- Available tools e.g. www.colourlovers.com



Fonts

Fonts are great to spice up your infographic

- Think about (contrast in) style, size, weight
- Appropriateness
- Avoid small differences
- Functionality / interpretation



- Add good / bad examples

Visualize the hook

Blood on the Field: Football Related Deaths

Professional football players are 100 times more likely to die from heart disease than the general public. The average age of death is 50 years old. The average age of death for professional football players is 50 years old.

HOOKS

HGH: An anti-aging miracle?

WHAT IS HGH?

WHAT ARE THE BENEFITS OF HGH?

HGH SALES IN THE US \$622 MILLION

HGH AND DEPRESSION 16%

IS HGH FDA APPROVED?

Sweat: The BIG Picture

Hyperhidrosis: 2.8%

The Many Forms of Hyperhidrosis:

- Excessive hand sweating
- Excessive foot sweating
- Excessive armpit sweating
- Excessive facial sweating

Causes of Excessive Sweating

Treatments

ETS

5 STOPPING MANGROVE DEFORESTATION MAKES A WHOLE LOT OF SENSE

REASONS FOR CLIMATE CHANGE MITIGATION IN INDONESIA

1. INDONESIA HAS A WHOLE LOT OF MANGROVES

Indonesia has **2,900,000** HECTARES OF MANGROVE FORESTS AN AREA ALMOST THE SIZE OF **Belgium**



Almost **1/4** of all mangrove ecosystems on earth

2. MANGROVES STORE A WHOLE LOT OF CARBON

Per hectare, Indonesia's mangrove forests store **5X** the carbon of upland forests

Out of all carbon stored globally in coastal ecosystems, Indonesian mangroves store **1/3**

3.14 billion Total carbon stored in Indonesian mangroves, in tonnes

Number of years it would take Indonesia to emit that much carbon in fossil fuel usage, at 2011 levels: **20**

3. A WHOLE LOT OF MANGROVES ARE DESTROYED EVERY YEAR

52,000ha of Indonesian mangroves disappear every year, an area the size of **New York City** every 18 months

40% of Indonesian mangroves were destroyed in the last 3 decades, mainly due to **aquaculture**

? WHAT IS AQUACULTURE?
Aquaculture is the farming of aquatic organisms. Any climate change mitigation efforts involving mangroves should include well-managed and conservative aquaculture development, as it plays an important role in sustainable coastal livelihoods.

4. THIS DEFORESTATION RELEASES A WHOLE LOT OF CARBON

Annual emissions from Indonesian mangrove destruction: **190,000,000** tCO₂e

That's the same amount of emissions as if **every car** in **Indonesia drove around the world twice** (at 2011 Indonesian passenger car levels)

42% of annual global emissions from the destruction of coastal ecosystems are from the destruction of Indonesian mangroves. Coastal ecosystems include marshes, mangroves & seagrasses

5. HALTING MANGROVE DEFORESTATION COULD MAKE A WHOLE LOT OF DIFFERENCE TO CLIMATE CHANGE

Stopping mangrove destruction could meet **1/4** of Indonesia's **26%** emissions reduction target for 2020... **...equivalent to 40,000,000** fewer cars on the road

FAST FACTS: MANGROVE FORESTS

MANGROVE CARBON STORAGE:
1,062,000 kg/ha

Living biomass: **20%**

2% Dead & downed biomass

Soil: **78%**

WHAT IS A MANGROVE FOREST?
Mangroves are a family of evergreen trees and shrubs that live on the coast, in the intertidal zone of some tropical and subtropical areas. Mangrove forests are best known for their dense tangle of roots, which can give the appearance of trees on stilts in the water.

MANGROVE FORESTS PROVIDE MANY VALUABLE ECOSYSTEM SERVICES, SUCH AS:

MILLIONS OF MIGRATORY BIRDS
depend on mangroves for food during their journey to

Up to 75% of tropical bird species and 1/3 of species spend part of their lives in mangroves

REGULATION
of coastal factors, such as pollution, flood and erosion

References: <http://dx.doi.org/10.1038/nclimate2734> Illustration & design: Jim O'Neil

Cut emissions, not mangroves: Indonesia's best hope for slowing climate change
blog.cifor.org/31112

Additional references:
- nature.com/earthengine122
- earthobservatory.nasa.gov/EOData/php?id=42427
- esa.gov/development/energy/resources/indonesia.html
- esandc.unilevel.com/INDONESIA/INDONESIA_MANGROVE_VHL_TYPE_INDONESIA/Number-of-Mangroves-by-type-Indonesia

Available for download:
<http://dx.doi.org/10.1038/nclimate2734>

Read more:
blog.cifor.org/wetlands

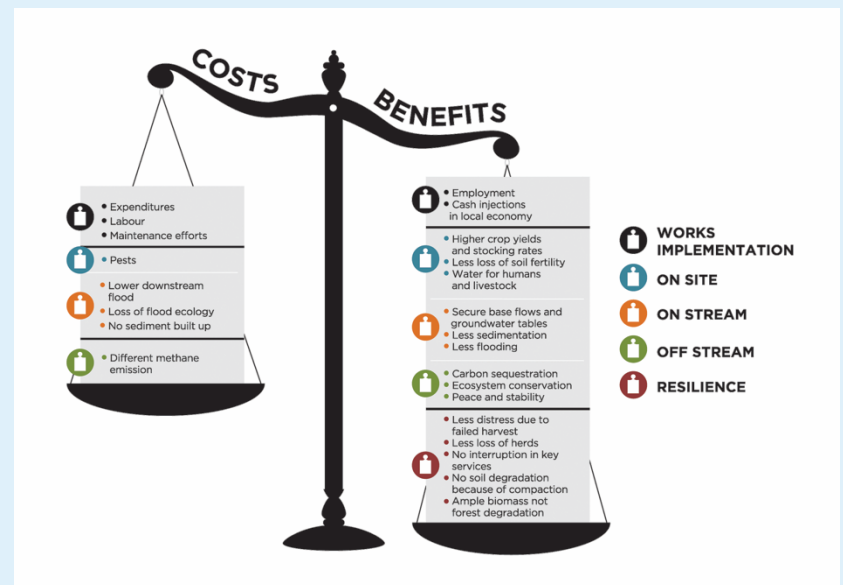
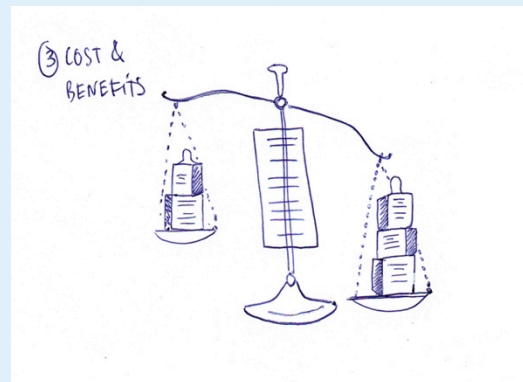
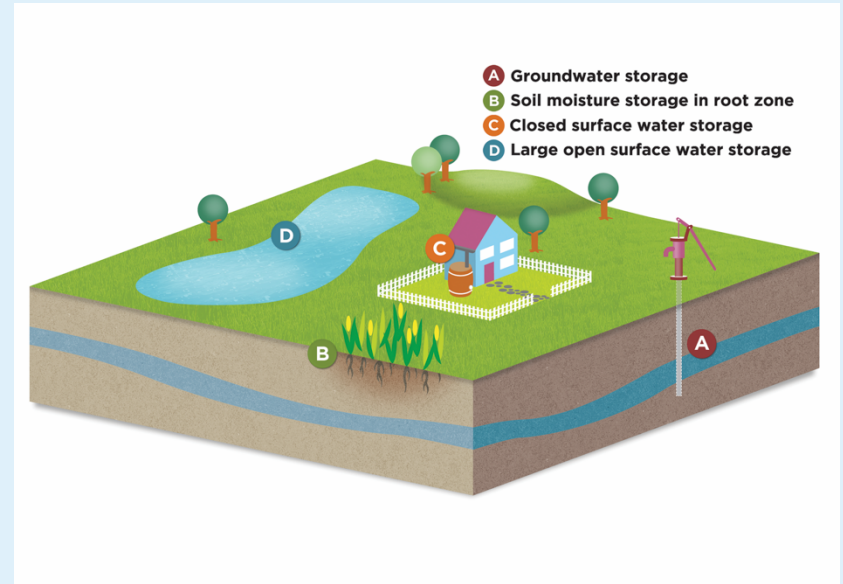
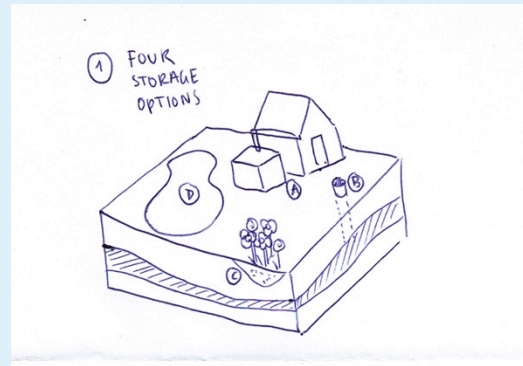
Images

- Wikimedia
- Freepik
- Shutterstock
- Vector images vs non vector

Style

- When you make a series style is important
- Create your own

Reflect and revise



Test and revise

- Discuss your infographic with others, does it convey the right message, is the infographic clear?
- Make a test-print
- Think about how do you want to publish
- Think about file size
- See if everything is in place
- Clean up the design from small errors
- Make sure you include proper credits

Online tools

- There are many
- THE best tool does not exist
- Tools come and go
- An (elaborated!) overview can be found here:
<http://www.coolinfographics.com/tools/>

Work with easel.ly

- <http://www.easel.ly/>
- Sign up, create a free account
- Help centre: http://help.easel.ly/help_center
- Choose formats or start from scratch
- If you have data you can insert directly from excel (note: if excel data is the majority of your infographic, choose Piktochart)

5 key dimensions of water security



Our inspiration & references

- Americanscientist
- Newsilike.in
- Piktochart (online tool similar to easel.ly)
- Data visualization tools and resources
- <http://www.landscapes.org/glf-2014/data-landscapes-infographic-data-visualization-competition/data-visualization-tools-resources/>
- Gap minder
- <http://www.gapminder.org/downloads/>
- Amazing maps on facebook (rethink conventional maps)
- <https://www.facebook.com/MapsAreAmazing/>
- 90 best infographics
- <http://www.creativebloq.com/graphic-design-tips/information-graphics-1232836>
- <https://www.in60seconds.nl/blog/>