

Network of Schools for Earth System Modelling & Climate Change



Infographics, how to

Helena Martins Science Communicator



Dec 2017 KunskapsGymnasiet

infographics

information + graphics

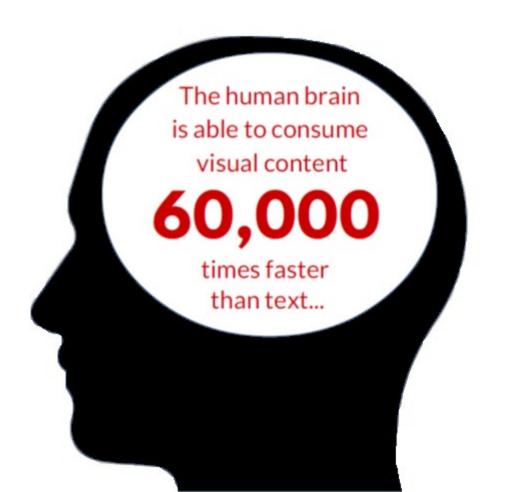
infographics

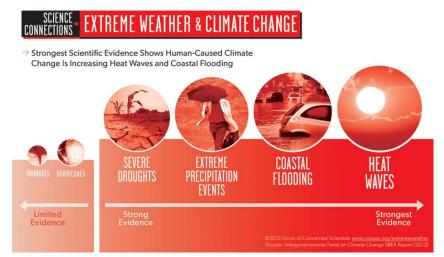
are one of the most popular and shared forms of social content

main objective

make the information "visible" not only to our eyes but also to our **brain**.

WHY INFOGRAPHICS?





Content with images get double the views of content without images.

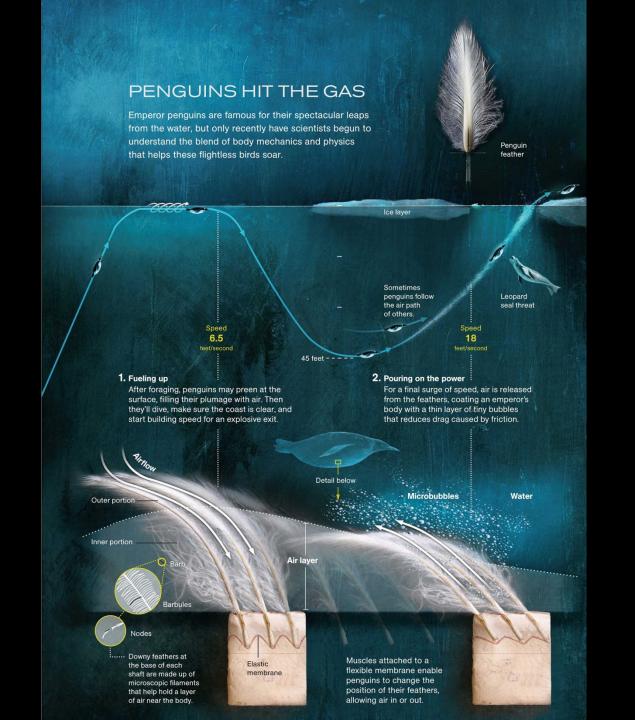
advantages

- Captures the reader's attention
- Improves understanding
- It is memorable

Graphic visualization is not only data visualization...



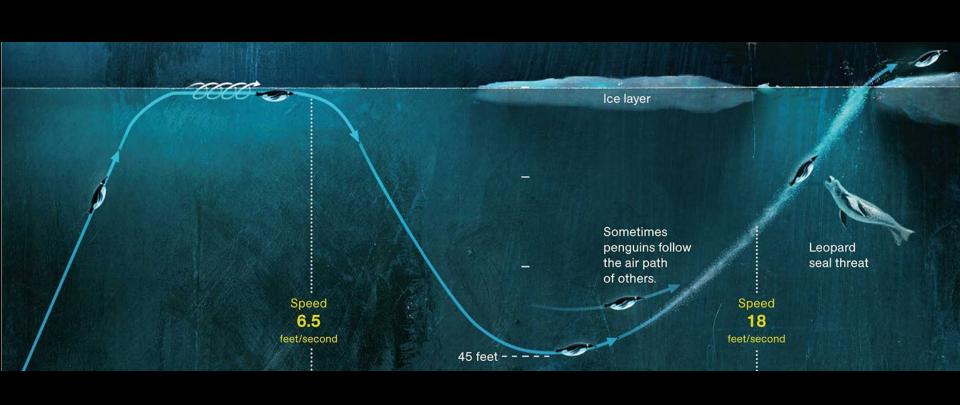
...is about telling stories.

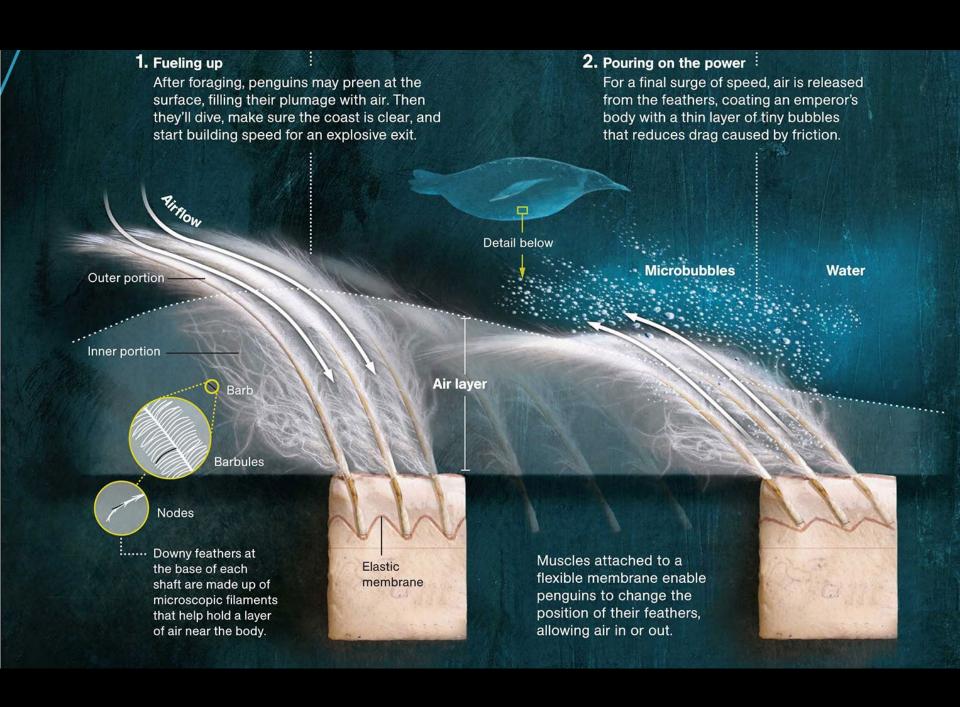


PENGUINS HIT THE GAS

Emperor penguins are famous for their spectacular leaps from the water, but only recently have scientists begun to understand the blend of body mechanics and physics that helps these flightless birds soar.







different types of infographics

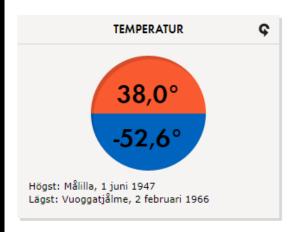
statistical

SMHI

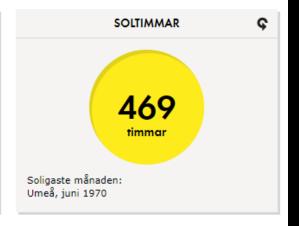
HUR VAR VÄDRET?

Rekord för Sverige 1756-2013

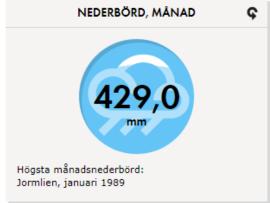














HUMAN EVOLUTION

social differences between our human ancestors, archaeological and anthropological evidence, the expansion

By: Greer Berry

and migration of the human race.

The Sahelanthropus tchadensis had a chimplike brain, however, like teeth. This is the first. instance of a bipedal



Why does it matter?

Looking at our family tree allows us to better understand our species as a whole and looking at how evolution has shaped us

Orrorin

tuaenensis

tugenensis walked

shows apelike teeth

Originally thought to be Ardipithecus ramidus, scientists to separate evolved in closed

Australopithecus

The upper end of the tibia is elongated,

mostly bipedal. This species typically lived in the woods

anamensis

meaning the A.





ramidus

that A. ramidus walked opposable big toes to teeth indicate a similarity in size of male

The famous "Lucy" skeleton possesses an apelike facial teeth and upright body and arched feet helped the species climate instability.

timeline

in the 60s when researchers thought the H. habilis was the first tools. Today we know came slightly before this

Paranthropus robustus

Similar to the P. boisei. support the large The term 'robust' is used in reference to the

Homo

H. heidelbergensis built shelters

Homo floresiensis

smallest species in the



Austrapolithecus

vegetables, nuts, seeds, indicate they ate tough

Paranthropus boisei

of their head which lived along side the

Homo

animal meat., and care family tree.

Homo neanderthalensis

The skull of this species had a large middle part of the face, angled cheek bones, and a large nose used to humidify cold air. The body of H. neanderthalensis was ideal for heat conservation. They were the first early human species to wear clothes, have language, bury their dead, and exhibit

umbolic behaviour.

Our species evolve in Africa around 200,000 years ago and began to migrate globally around 100,000 years ago. We are the sole surviving species left in our "family tree"

Homo sap

200,00 0- Now

during most of their existence. It is the them the nickname "hobbit"

CLIMATE CHANGE

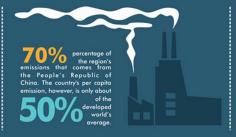
in Asia and the Pacific

Scientists warn that the world's climate is changing because of rising greenhouse gas emissions that might end up warming the planet by well over 2 degrees. Here are some glaring numbers that show the impacts of climate change in Asia and the Pacific.



Asia is key

percentage of worldwide energy-related carbon dioxide emissions from developing Asia, compared to 17% in 1990.



2030

the year when developing Asia's share in global energy-related emissions could reach about

45%

without greater use of renewable energy and improved energy efficiency.

Impacts to the Region

Tout of the 10 nations at greatest risk to climate change and natural disasters globally are in Asia and the Pacific, and 3 of these are small Pacific



20 million

number of Bangladeshis who will be displaced by a 1-meter rise in sea level in 2050.

More > 60%

number of the region's population working in agriculture, fisheries, and forestry, the sectors most at risk to climate change.





300 million to 410 million

estimated increase of Asian urban dwellers at risk of coastal flooding by 2025. In inland areas, the number of people at risk will rise from 245 million to 341 million by 2025.

DISASTER RISK MANAGEMENT



\$40 billion

budget required annually to help Asia and the Pacific transition to low-carbon and climate-resilient economies.



approximate amount of ADB investment in clean energy related projects since **2008**, with

\$2.1 billion in 2011 alone.

Sources

- * Emissions Database for Global Atmospheric Research (EDG)
- * Key World Energy Statistic * World Energy Outlook 20
 - World Risk Report 2012 Pender, J.S. 2008. What Is Climate Change₹ And How It Will Effect Bangladesh. Briefi
- * Stern Review on the Economics of Climate Change * Stern Review on the Economics of Climate Change
- Massive investments are required

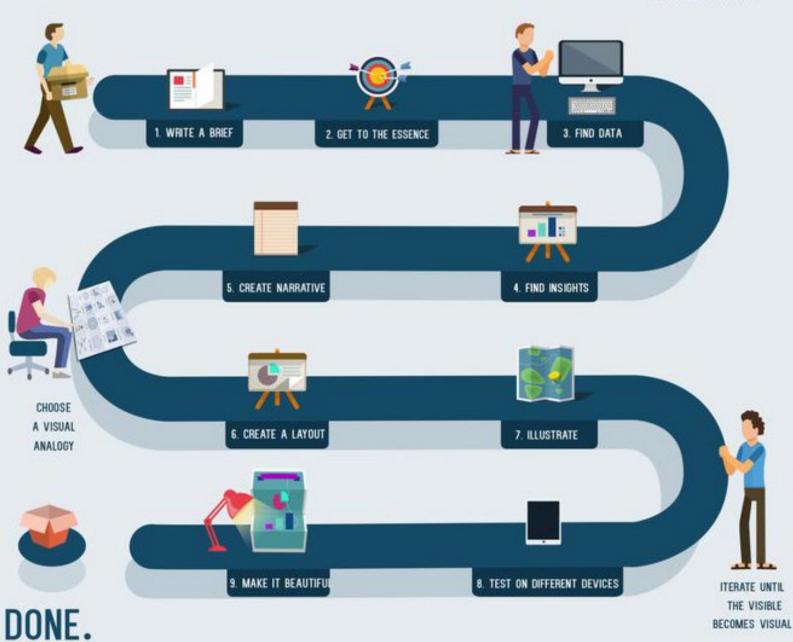
 Fast Facts: Vulnerable Cities Waking Up to the Need for Urban

 Stern Review on the Economics of Climate Change



HOW TO MAKE INFOGRAPHICS

BY ANNA VITAL

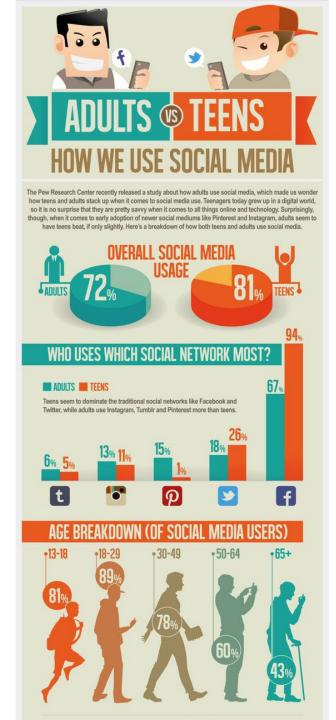


R C E S S



geographic





comparison

- 1 choose your topic
- 2 do your research
- 3 find a story
- 4 look for inspiration
- 5 design your infographic

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infographics

All







View saved

III

simple creative

News

Videos

Books

disney

More

Settings

Tools

car

drug

health

Images

food

person

marvel

education

music

diabetes

comparison

data visualization



















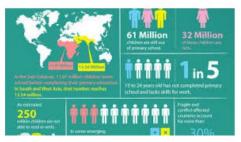
























19 Pinterest



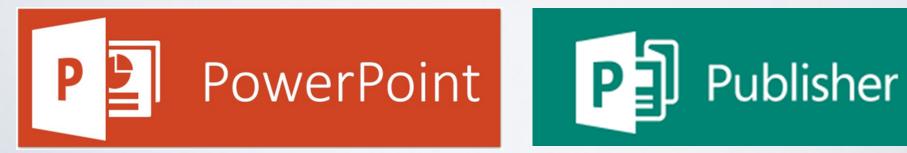
slideshare

- 1 choose your topic
- 2 do your research
- 3 find a story
- 4 look for inspiration
- 5 design your infographic

SOFTWARE

SOFTWARE

SOFTWARE





SOCIAL MEDIA MARKETING



YOUTUBE



TWITTER



FACEBOOK



LOCATION-BASED SERVICES

22 million

Number of riews in one week for Old Spice's Thans o Mano en el Baso

7 million

of views for T-Mobile's "Royal Wedding"

86.5 million

Number of impressions for Coca-Cola's Promoted Trend in June 2010

20 million

Number of Impressions earnered by Network Solutions "SoGrenny" SuperBowl campaign twent

> inc Fa ad the ha

70×

ase of pero book of furing Facurers of ase



percentag of social networkin users on

92%



Increase

in chockins during McDonada one-day campaign that randomly awarded 35 and \$10 gift cards as checkin bat

65.5 million

Number of plays for Evian's "Roller Skating Bables" over 2 years

35,000 Number of tweets with the #LSH history for BM's "Latusphere" conference in

10,000
Number of YouTable Brand partners

12 million

Number of views the "Will it Blend?" iPad video oct over 4 months \$1.34

Eventbrite sales driven by a Facebook Like, as compared to just 80 cents for a tweet



percentage of percele who say they would buy something that was only offered to recebook



The percentage of small business owners using Facebook for marketing.

compared to 66% who use 400 humber of checkins at New York steakhouse Angelo & Maxie's Steakhouse in 45 days

118 Number of Foursquare checkes in one day at GranataPet's 10 dogfcod-dispensing billboards in Germany

164,000 Number of players during a 3-month SCVNGR campaign at Buffalo Wild Wings

4 billion

The number of "things" shared on Faciebook each ca

500,000

Number of merchants on Foursquare



Climate CoP21: Ocean Health ← Climate Change

Problem

Our Ocean's ability to buffer climate change impacts by storing additional heat and carbon is weakening.



Consequences

Temperature rise and acidification are threatening one of the earth's most productive and biodiverse ecosystems: CORAL REEFS.

At current rates of temperature rise, coral reefs will disappear by 2050, along with habitat for > million species, food, jobs, coastal protection, medicine and other resources for hundreds of millions of people.





Extreme Weather Events



Ocean Acidification



Rising Sea Levels



Solutions

Minimize climate change impacts and risks by reducing CO_2 emissions to limit temperature rise to $\leq 1.5^{\circ}C$





Maximize marine and coastal ecosystem based management for mitigation and adaptation to maximize marine biodiversity, productivity, resilience, food security and carbon sequestration, by:





Explicitly including marine and coastal climate solutions for mitigation and adaptation in climate finance mechanisms and funds

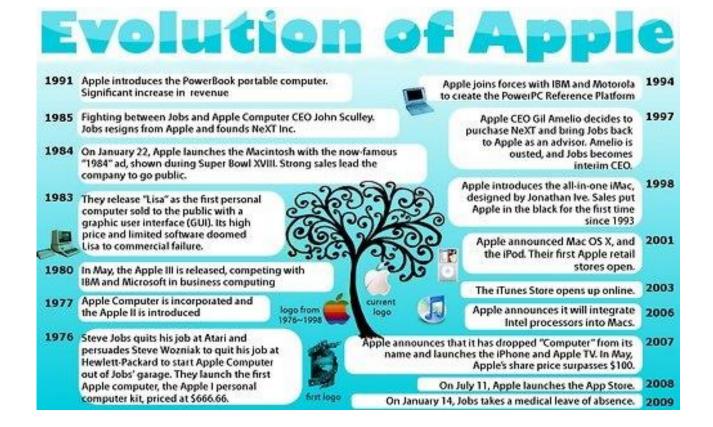


Implementing effective networks of marine protected areas to cover 30% of the ocean; Marine Protected Areas (MPAs) are effective tools to create resilient marine ecosystems that can bounce back from climate change impacts



sea grass

Reducing human pressures, including transforming of destructive fishing practices into sustainable fisheries and recovering the US\$50 billion per year lost due to inefficiencies and illegal, unregulated and unreported fishing

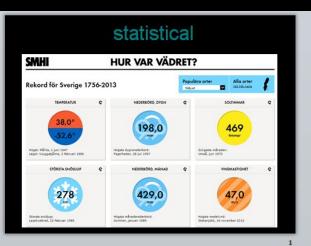


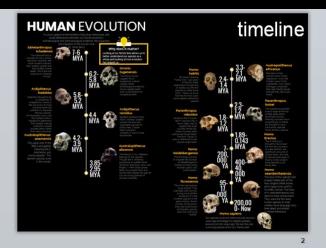


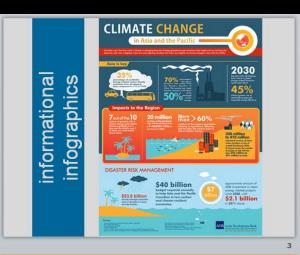


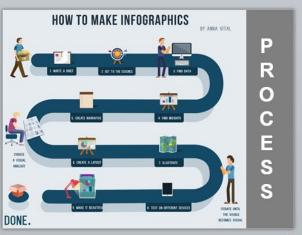


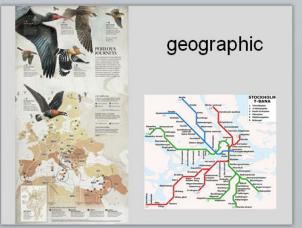
which one?

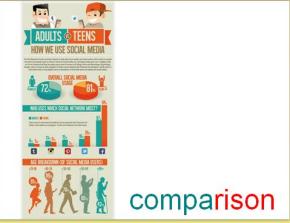












JUST DO IT.





Network of Schools for Earth System Modelling & Climate Change

Sources:

- "Infographics how to select information and create an infographic to communicate science", Aitor Eguinoa, presentation given at SCORE'17, 5-10 Nov, Aveiro, Portugal http://autumnschool.web.ua.pt/
- "The Power of Infographics The Business of Visualization", Mark Smiciklas, Digital Strategist, IntersectionConsulting.com, https://www.slideshare.net/msmiciklas/the-power-of-infographics
- "Infographics: the good and the bad", DiditMarketing, https://www.slideshare.net/DiditMarketing/infographics1-47291158

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