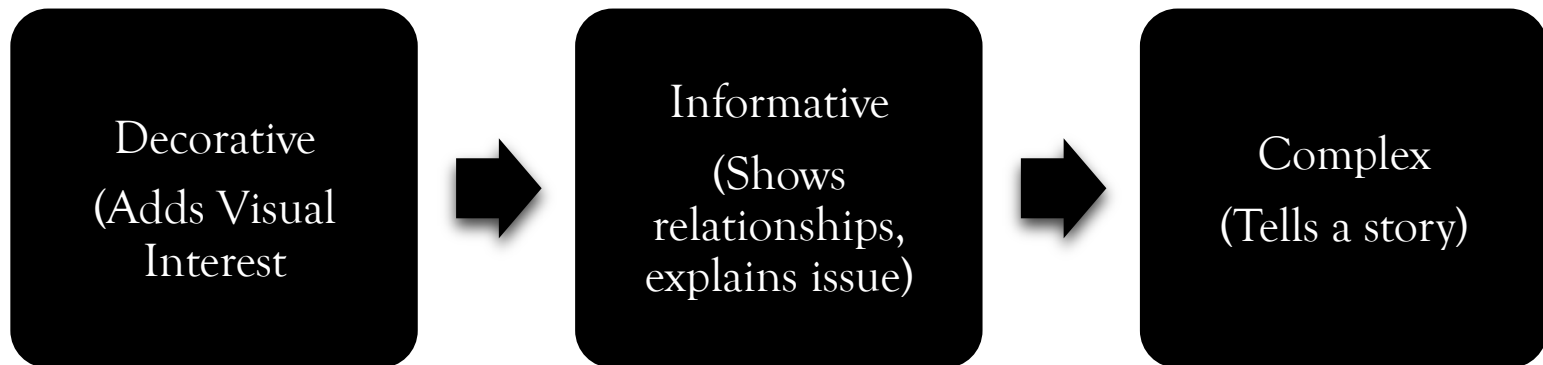


Graphics

Images, Diagrams, Maps and Infographics

Why use graphics?



Images

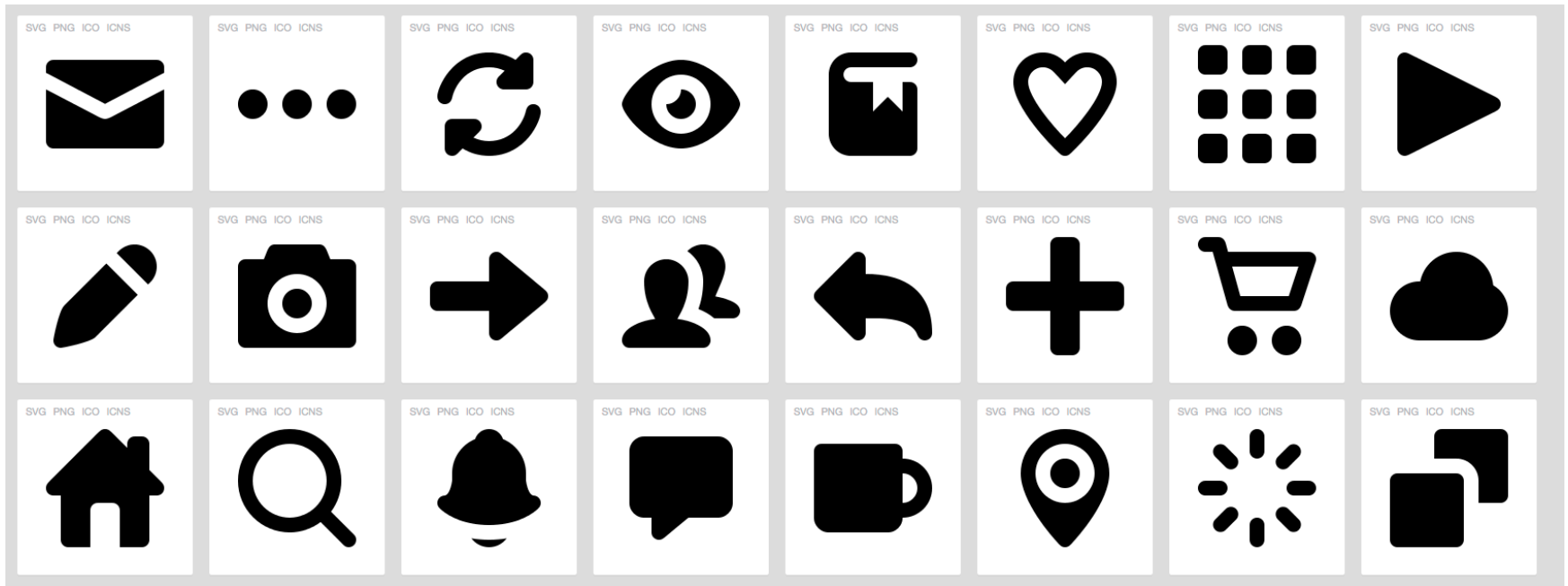


Images add interest and illustrate written ideas

 Images as used for navigation are underutilized

Images:

- should be relevant
- should be clear
- should not detract from the information you are trying to get across



"Pictype Free Vector Icons" © Greg Grossmeier, used under a Creative Commons Attribution-ShareAlike license: <http://creativecommons.org/licenses/by-sa/3.0/>



"Couple Reading Books" © Greg Erin Kelly, ekelly89, used under a Creative Commons Attribution Licence: <http://creativecommons.org/licenses/by/3.0/>

Making and Finding Images



○ Finding images:

- Google Images (search using CC)
- Download icons for free from sites such as <http://findicons.com> or <https://www.iconfinder.com>



○ Making images:

- Edit your own photos using iPhoto or similar software (see our resource site for a list of tools)
- Create icons, shapes, basic outlines using Microsoft Office, Inspire

Charts, Graphs, Maps and Diagrams

Tools to visualize data.

From histograms to scatterplots- how do you find the right one?

- <http://www.labnol.org/software/find-right-chart-type-for-your-data/6523/>
- <http://labs.juiceanalytics.com/chartchooser/index.html>

Things to think about. Is your graphic:

- Quick to understand
- Clear titles and labels
- Uncluttered
- Appropriate for the job
- Interesting to look at
- Appropriate for context
 - ie. finely detailed=individual study

Maps

- A visual representation of an area or symbolically depicting relationships
- Don't have to represent geographical space
- Navigation aids

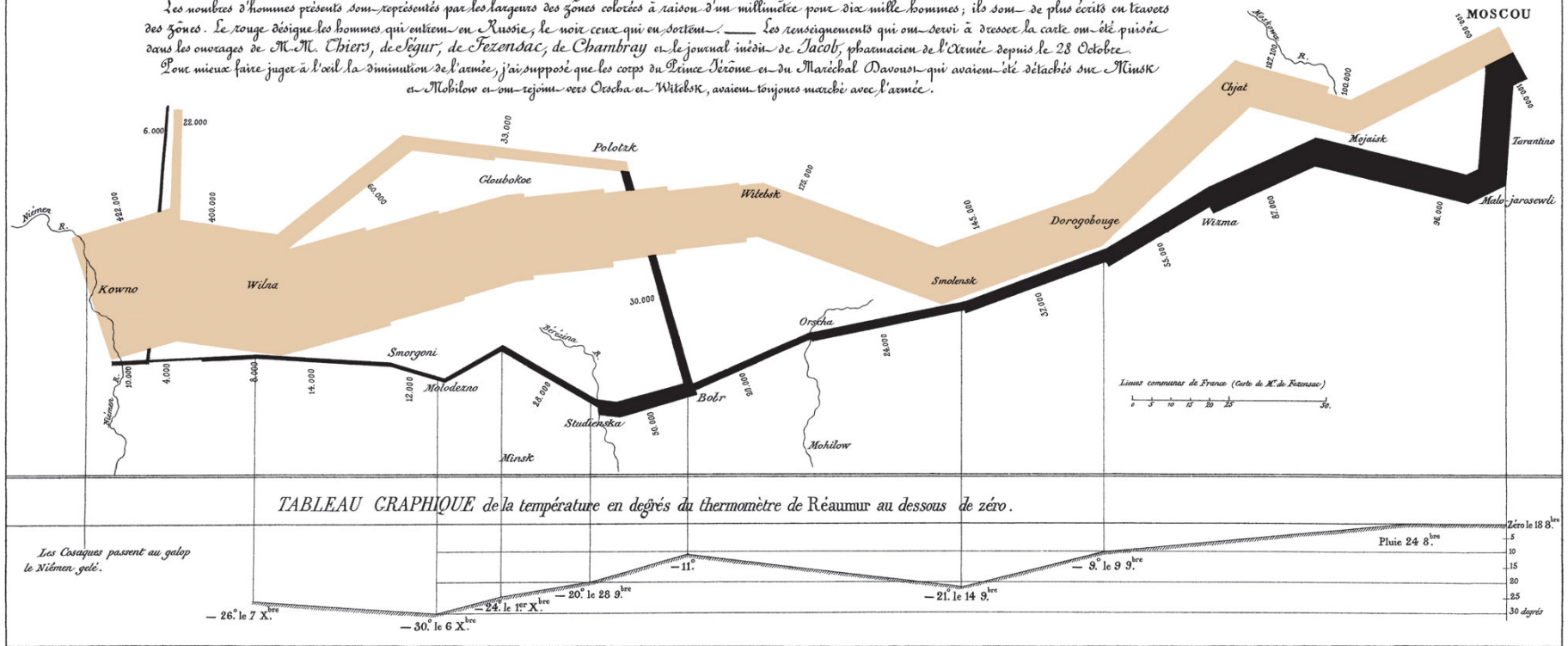


Maps don't have to indicate space. And if they do, they don't have to show distance.

Source: twu.org

Carte Figurative des pertes successives en hommes de l'Armée Française dans la campagne de Russie 1812-1813.
Dressée par M. Minard, Inspecteur Général des Ponts et Chaussées en retraite Paris, le 20 Novembre 1869.

Les nombres d'hommes présents sont représentés par les largeurs des zones colorées à raison d'un millimètre pour dix mille hommes; ils sont de plus écrits en travers des zones. Le rouge désigne les hommes qui entrent en Russie; le noir ceux qui en sortent. Les renseignements qui ont servi à dresser la carte ont été puisés dans les ouvrages de M. M. Thiers, de Ségur, de Fozensac, de Chambray et le journal inédit de Jacob, pharmacien de l'Armée depuis le 28 Octobre. Pour mieux faire juger à l'œil la diminution de l'armée, j'ai supposé que les corps du Prince Jérôme et du Maréchal Davoust qui avaient été détachés sur Minsk et Mohilow et qui rejoignent vers Orscha et Witebsk, avaient toujours marché avec l'armée.



Auég. par Régnier, à Par. J^{te} Marie St^e G^{de} à Paris.

Imp. Lit. Régnier et Desv^{rs} d^{rs}.

Map by Charles Joseph Minard, on Napoleon's Russian campaign of 1812.

Making/Finding Charts, Graphs, Maps and Diagrams



Finding them

- Google images
- Other sites:
 - <http://www.healthmetricsandevaluation.org/tools/data-visualizations>
 - Gapminder



Making them

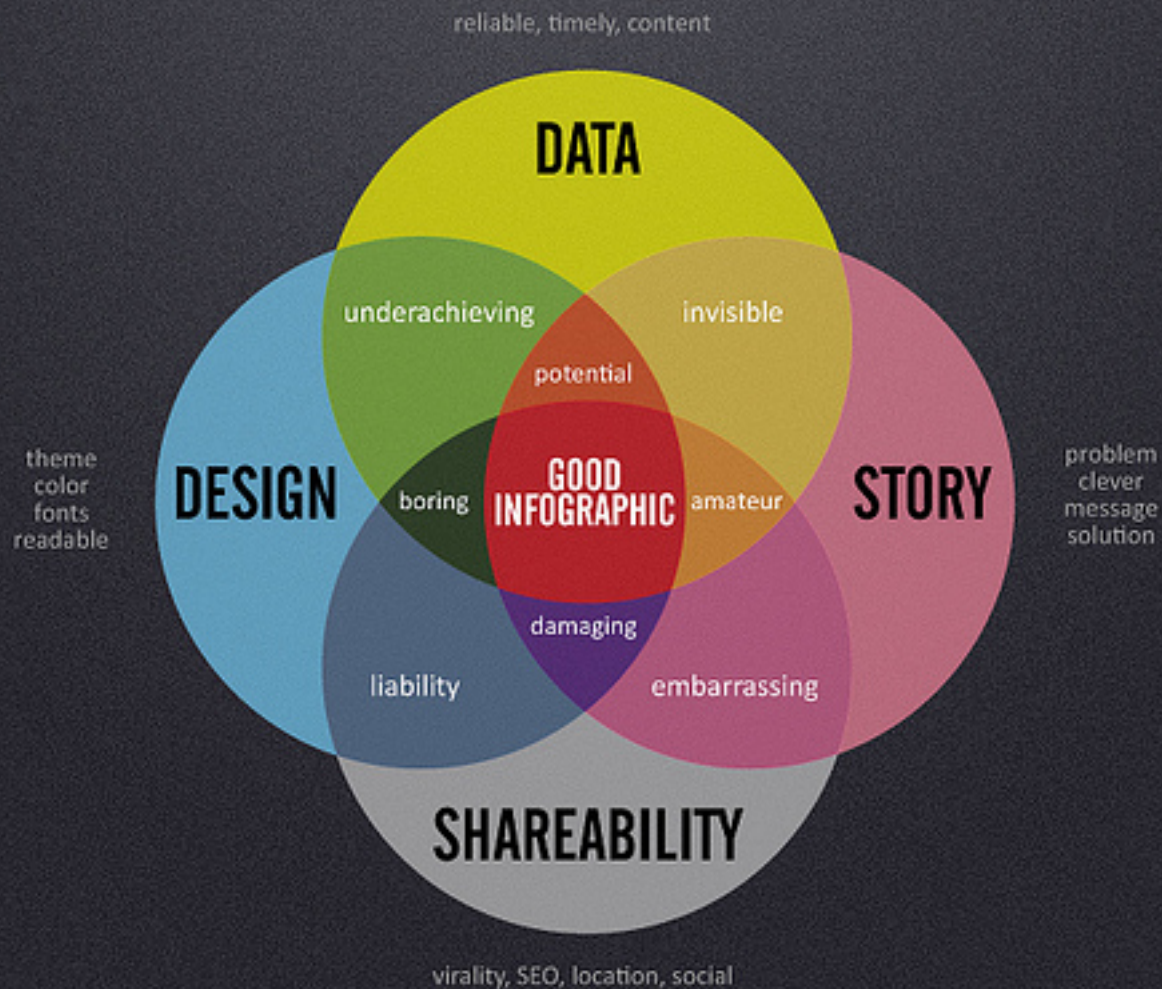
- Use an online diagram-making tool like [Cacoo.com](https://cacoo.com)
- Use a drawing tool like Sketchbook Express or Paint
- Please check our “Intro to software and hardware [overview](#)” on the EMP website

Infographics

What ARE they and how are they different from graphics?

- “Data sorted, arranged and presented visually.” ([Visyal.ly](http://visyal.ly))
- Storytelling device
- Three main elements: content, visuals and knowledge
- Infographics are made up of charts, maps, and graphics (photos, illustration or other design elements)
- The terms is evolving, right now also called editorial infographics or just graphics
- ...are they really that different from graphics?

What Makes a Good Infographic?



Daniel Zeevi
DASHBURST

[Daniel Zeevi, http://creativecommons.org/licenses/by-nd/2.0/](http://creativecommons.org/licenses/by-nd/2.0/)
[Creative Commons](http://creativecommons.org/licenses/by-nd/2.0/)

Envisioning the future of education technology



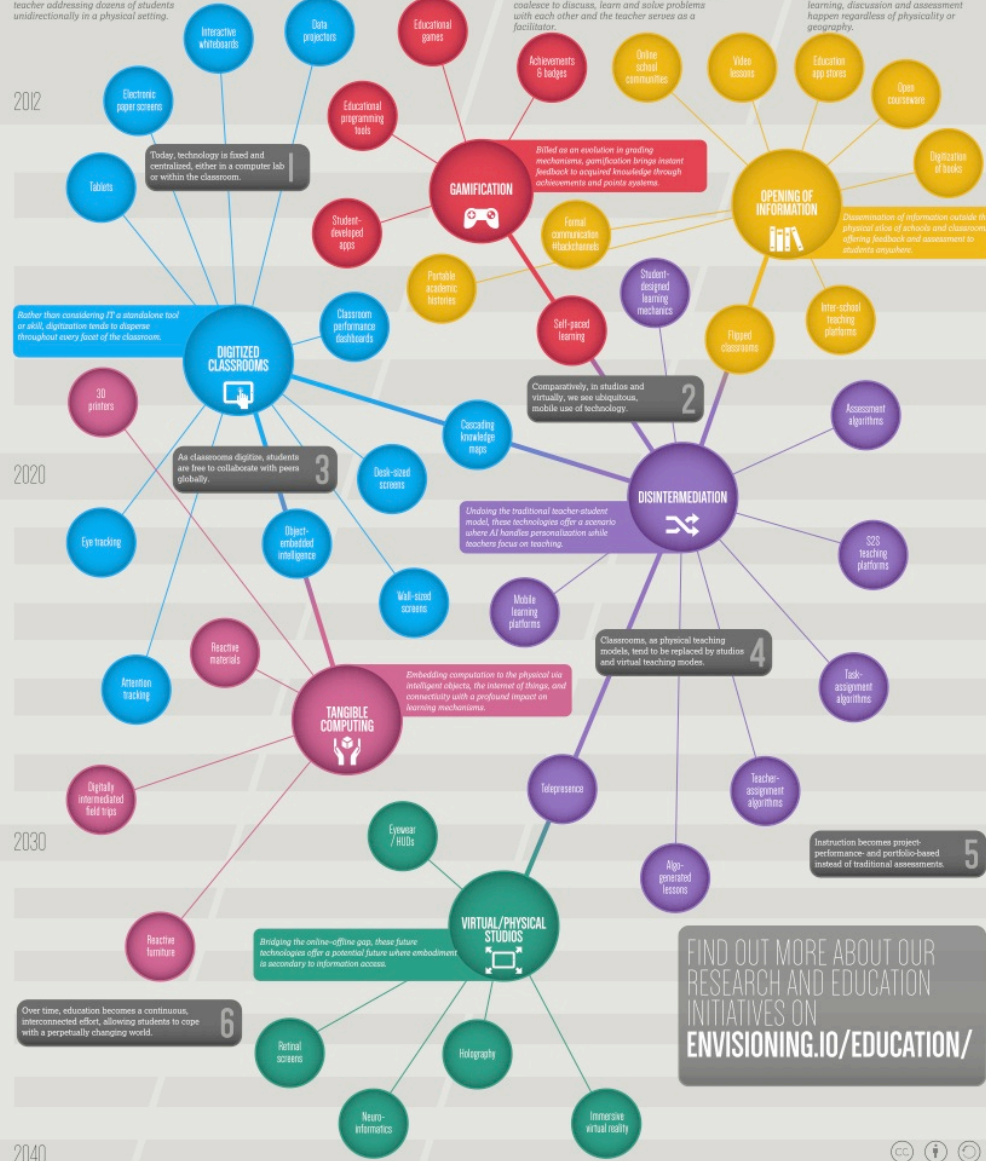
Education lies at a peculiar crossroad in society. On one hand it has the responsibility of anticipating real-life skills by preparing us for an increasingly complex world - but education methodologies can only be formalized after practices have been defined. This dichotomy is particularly aggravated when it comes to technology, where fast-paced innovation and perpetual change is the only constant.

This visualization attempts to organize a series of emerging technologies that are likely to influence education in the upcoming decades. Despite its inherently speculative nature, the driving trends behind the technologies can already be observed, meaning it's a matter of time before these scenarios start panning out in learning environments around the world.

Classroom

The prevailing paradigm of a single teacher addressing dozens of students unidirectionally in a physical setting.

2012



By the Envisioning Technology Research Foundation

Finding and Making Infographics



Finding them

- Google Images
- Sites like <http://www.topsite.com/goto/gapminder.org> or <http://www.topsite.com/goto/infosthetics.com>



Making them

- Piktochart
- Easel.ly
- Infogr.am
- Dipity.com
- Please check our “Intro to software and hardware overview” on the EMP website

Important Tips!

Types of files

- Be aware that there are many different type of graphic files- jpegs, gifs, pngs
- Learn more about it here: <http://sanstudio.com/tech/GraphicFileTypes.html>

Pixelization

- Reduces the effectiveness of your graphic
- Learn more about it here: <http://www.prepressure.com/design/basics/resolution>

Homework: Make a Wordle

- Select text you would like to use to create a word map. This can be any text, but it's best if it's more than a paragraph long.
- Visit wordle.net
- Cut and paste your chosen text into the text box.
- You may then print the wordle or save it to a public gallery that you can link to (Caution: this gallery is public and can be viewed by any one).
- Please bring to next workshop