

# The ultimate guide

to scientific infographics



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# Summary





What makes a good infographic for science?





# **Fundamentals**



### **Fundamentals**



An "Infographic" uses visual cues and structured data to tell a story. Graphical abstracts are a good example of infographics in science.

# When creating visuals for your science, pay attention to 3 basic elements:







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Organization

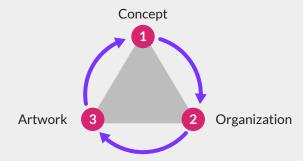
Artwork

### **Fundamentals**



#### Consider each one like a "step" in the creation process:

- 1. Conceive the "idea", know beforehand what is the take-home message.
  - 2. Just then dedicate some time to organizing it visually.
  - 3. Draw or search for figures and define artwork styles.





# Concept



# Concept

If you are thinking of creating an infographic, you probably have some content to communicate. It is the result of your research and it has an utility, which is to impact the audience of a conference talk, poster session or the readers of your paper. Your message should be precise.

This is a weak infographic idea:

"Obesity is a problem of public health"

This is a strong infographic idea:

"Obesity became a problem of public health in US in the last 30 years, according to the average increase in BMI"

# Concept

While creating the concept for an infographic, you should ask yourself these fundamental questions:

What is my goal with this story?

Which data supports my claims?

Who am I creating for?

Who is my audience?

Does it come from a reliable source?

How does it help, inspire or inform?

How do I catch the attention?

What is the punchline?

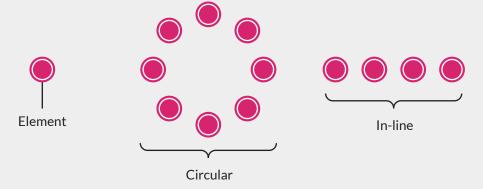
Is it interesting?

Is the story meaningful for the audience?





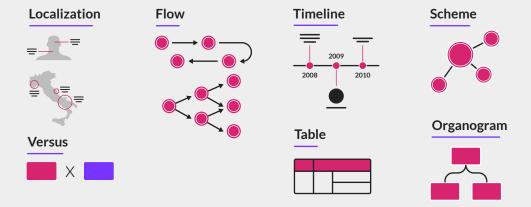
Keep your objective in mind and choose an organization that tells the story in a pleasant and visually appealing way.





Explorative layouts, like the "scheme" or "table" allows the reader to explore your data, while narrative layouts, like "localization maps" or "flowcharts" provide a reading sequence.

#### **Examples of Infographic Organization**





#### **Explorative organization**



No Reading direction



### Title infographic

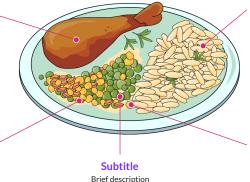
Brief text introducing the content of the infographic. The font type should be lighter than the one used in title itself.

#### Subtitle

Brief description of this highlight. Short text

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#### Subtitle

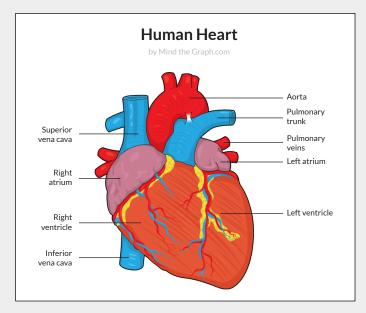
Brief description of this highlight. Short text

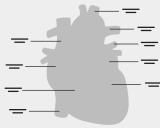
### **Explorative**

Organizing the content in random order allow that the user freely explore the data

Random reading direction



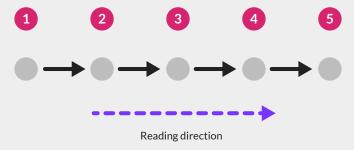




#### **Explorative**

Organizing the content in collumns and rows allow that the user freely explore the data

#### Narrative organization





#### Title infographic

Brief text introducing the content of the infographic. The font type should be lighter than the one used in title itself.

by Mind the Graph.com



#### 1 - Subtitle

Brief description of this highlight. Short text.



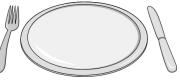
Brief description of this highlight. Short text.





#### 2 - Subtitle

Brief description of this highlight. Short text.



#### 5 - Subtitle

Brief description of this highlight. Short text.





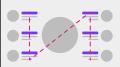
#### 3 - Subtitle

Brief description of this highlight. Short text.

#### 6 - Subtitle

Brief description of this highlight.
Short text.





#### Narrative

Organizing the content in a logic sequence creates a story flow.



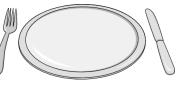
#### Title infographic

Brief text introducing the content of the infographic. The font type should be lighter than the one used in title itself.



#### 1 - Subtitle

Brief description of this highlight. Short text.



#### 6 - Subtitle

Brief description of this highlight. Short text.

5 - Subtitle

Brief description

of this highlight.

Short text.





Organizing the content in a logic sequence creates a story flow.



#### 2 - Subtitle

Brief description of this highlight. Short text



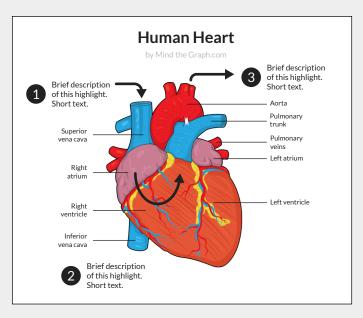
#### 4 - Subtitle

Brief description of this highlight. Short text.

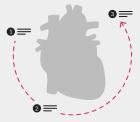




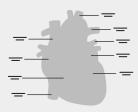




# Reading direction Narrative



and Explorative

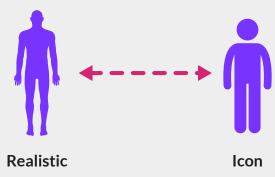






#### Choose your favorite element style

The artistic style you choose heavily influences the reader's perception about your work. You should aim for beauty and simplicity at the same time. Important elements deserve "realistic" artwork, while support elements could use simpler icons.



#### Many customization options

Which illustration style should I use? What color? How many colors? Lighter or darker tones? What is the best font type? These are a few questions that show up at this point. They will be adressed in specific chapters. But we won't leave you alone. Here is a major tip: less is more!



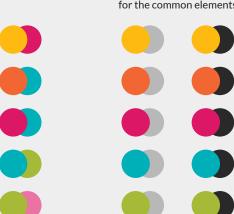
These is just a rule-of-thumb for a complex issue. Have a look in the examples above: even a simple ball can be represented at many different ways!



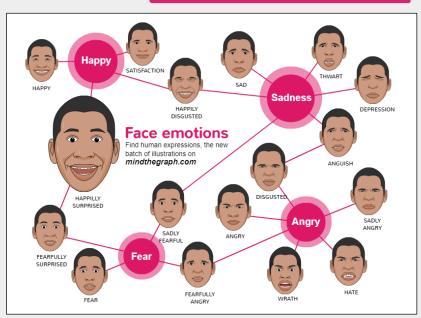
#### **Matching colors**

Finding difficult to choose colors?

You can mix a stronger color for the highlights with a neutral one for the common elements







# Use color harmony in your favor

If you are in doubt, choose a single font for the whole infographic and choose two colors: use a neutral one for the 'common' elements (e.g. body text) and a stronger color for the highlights





(text and icons).

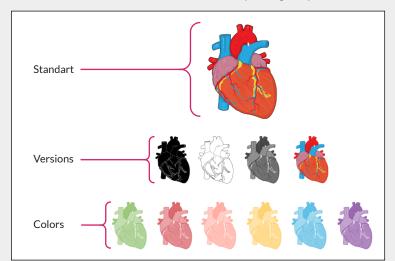




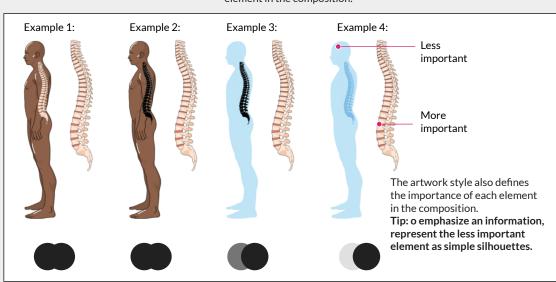
An important illustration can be used in realistic colors. If the illustration has a predominant color, using the same color for the highlights will create an harmonic infographic.

#### Illustrations styles

In the **Mind the Graph** platform, you can choose different artwork styles for each illustration. You can even change the color of the monochromatic, outline and silhouete. Try it, it'll give a professional feel to your creation.

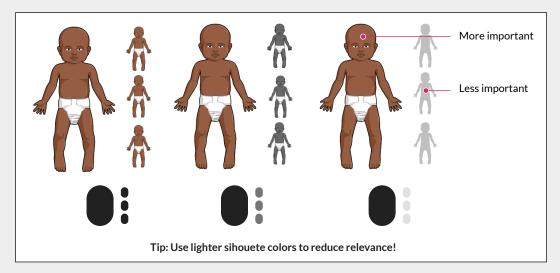


The artwork style defines the importance of each **Elements contrast** element in the composition.





#### **Elements contrast**





# Recap

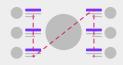


# Recap





Your intention, the story you wanna tell



**Organization**Distribution of elements, bring hierarchy



Artwork
The graphic style, brings
visual impact

# Science is beautiful. Discover your best way to show it.

www.https://mindthegraph.com/

