



**Karolinska  
Institutet**

**SciLifeLab**

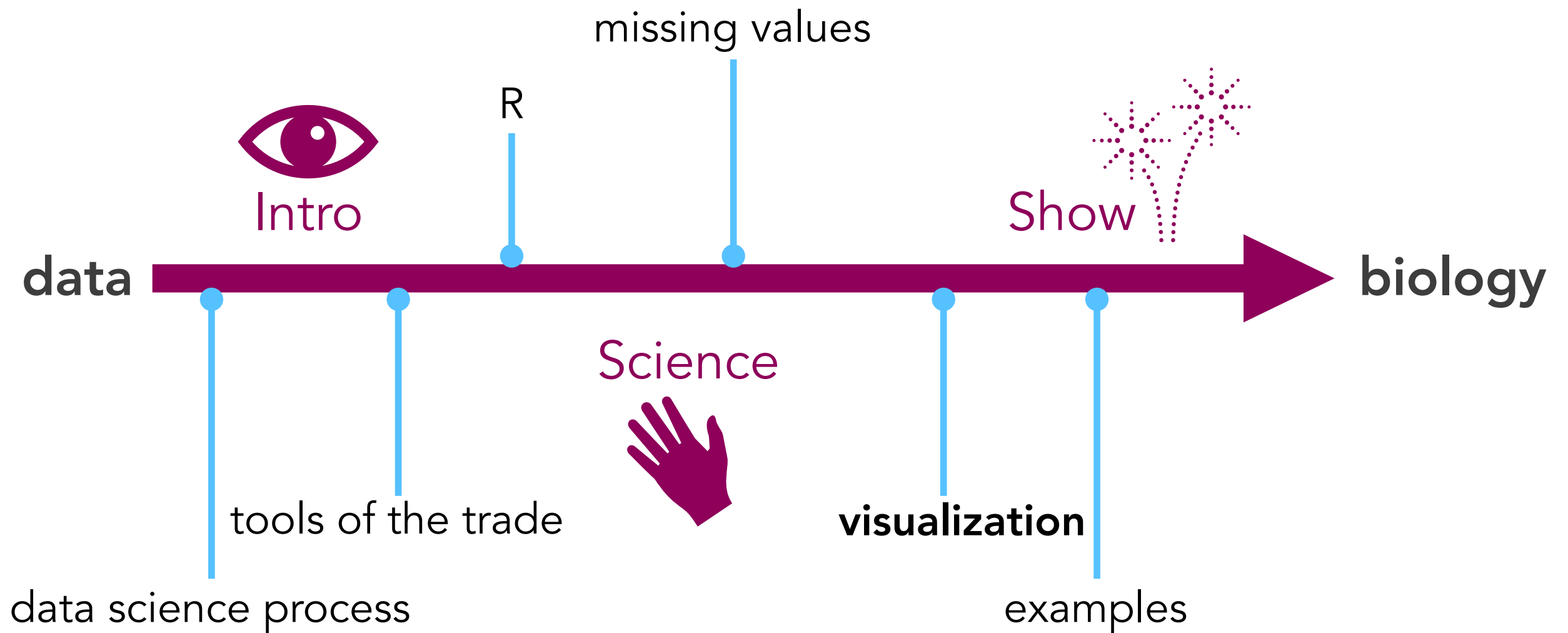


# Back to the community

10 / 09 – 2019

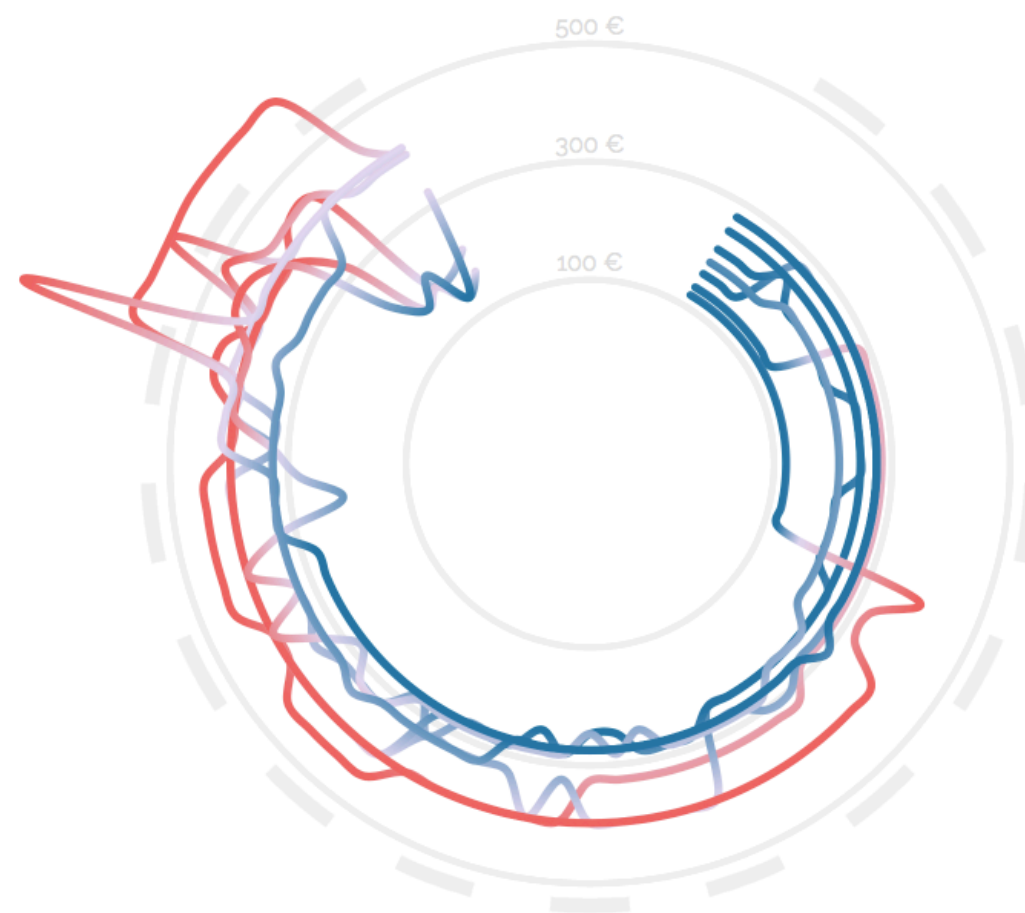
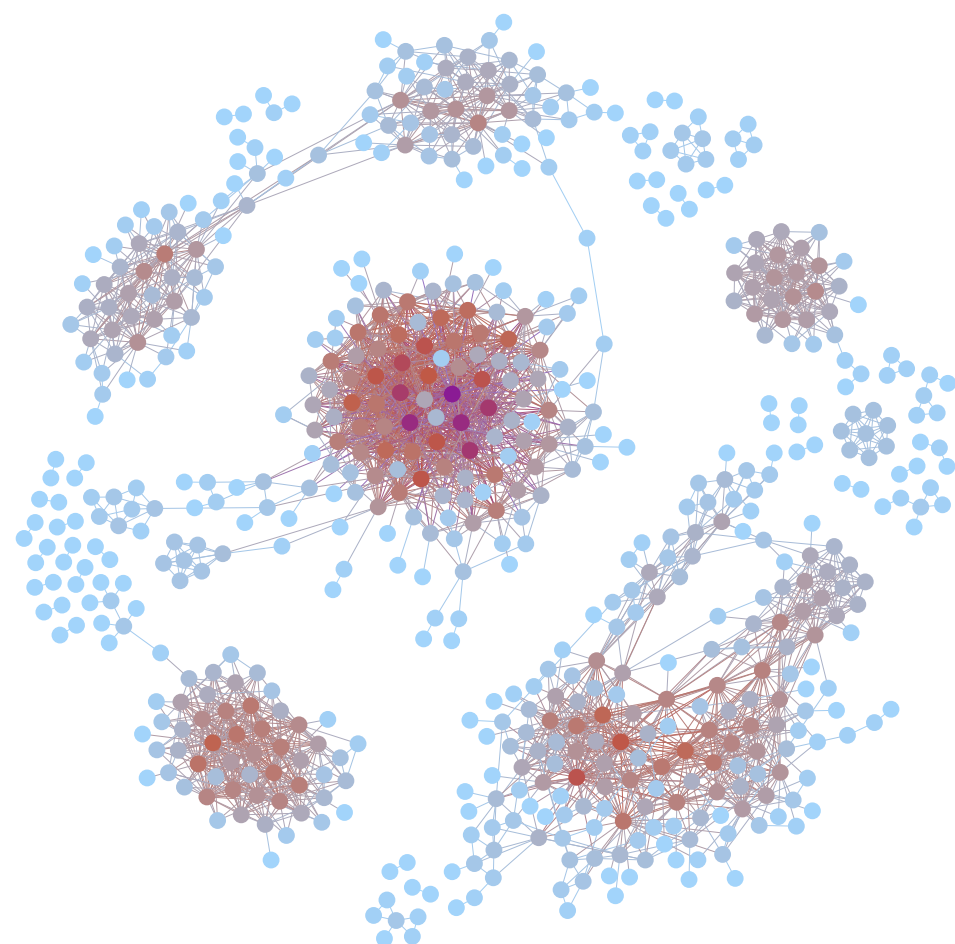
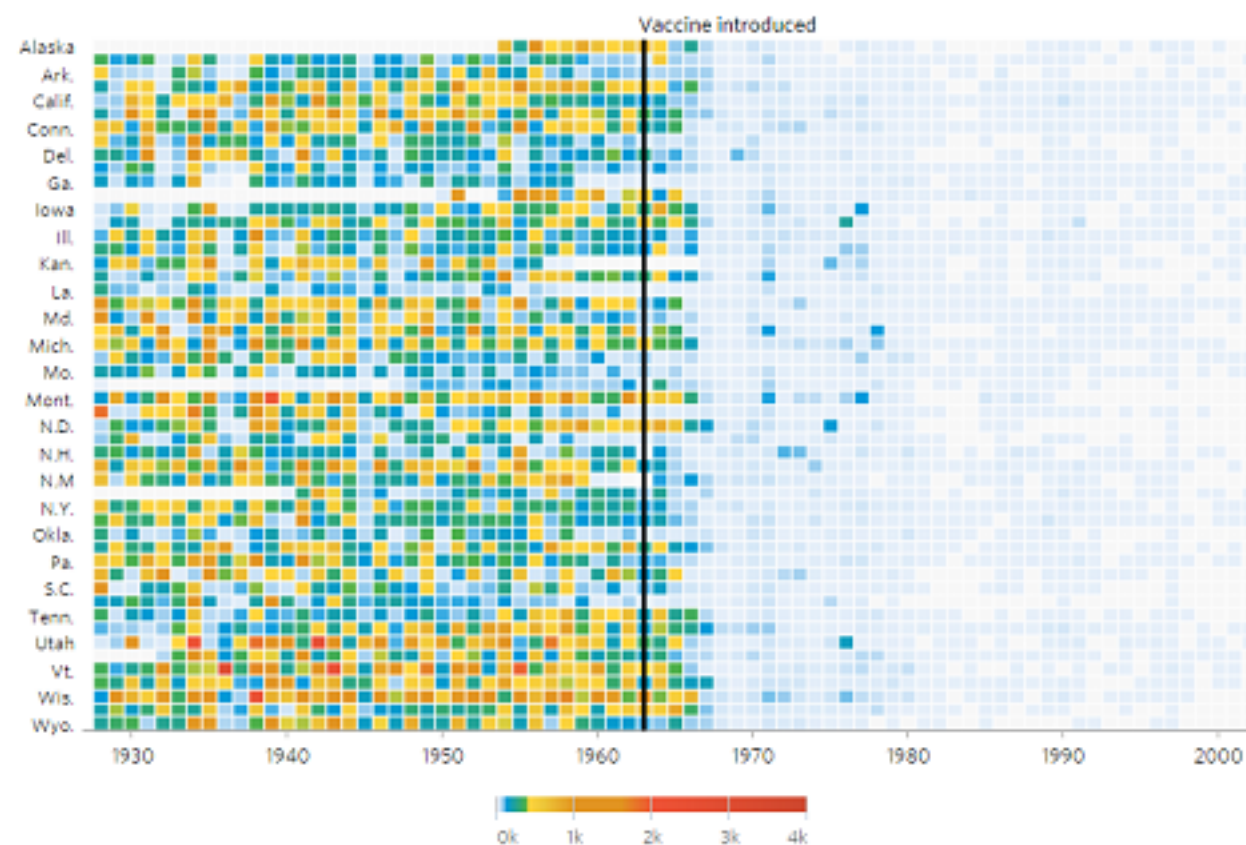
Matthias Stahl

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“**A visualization is worth a million data points.**  
— Nadieh Bremer, data visualization designer

## Measles



# What makes a great visual?



packs complex data in a simple view

is intuitive

highlights abnormalities, trends and dependencies

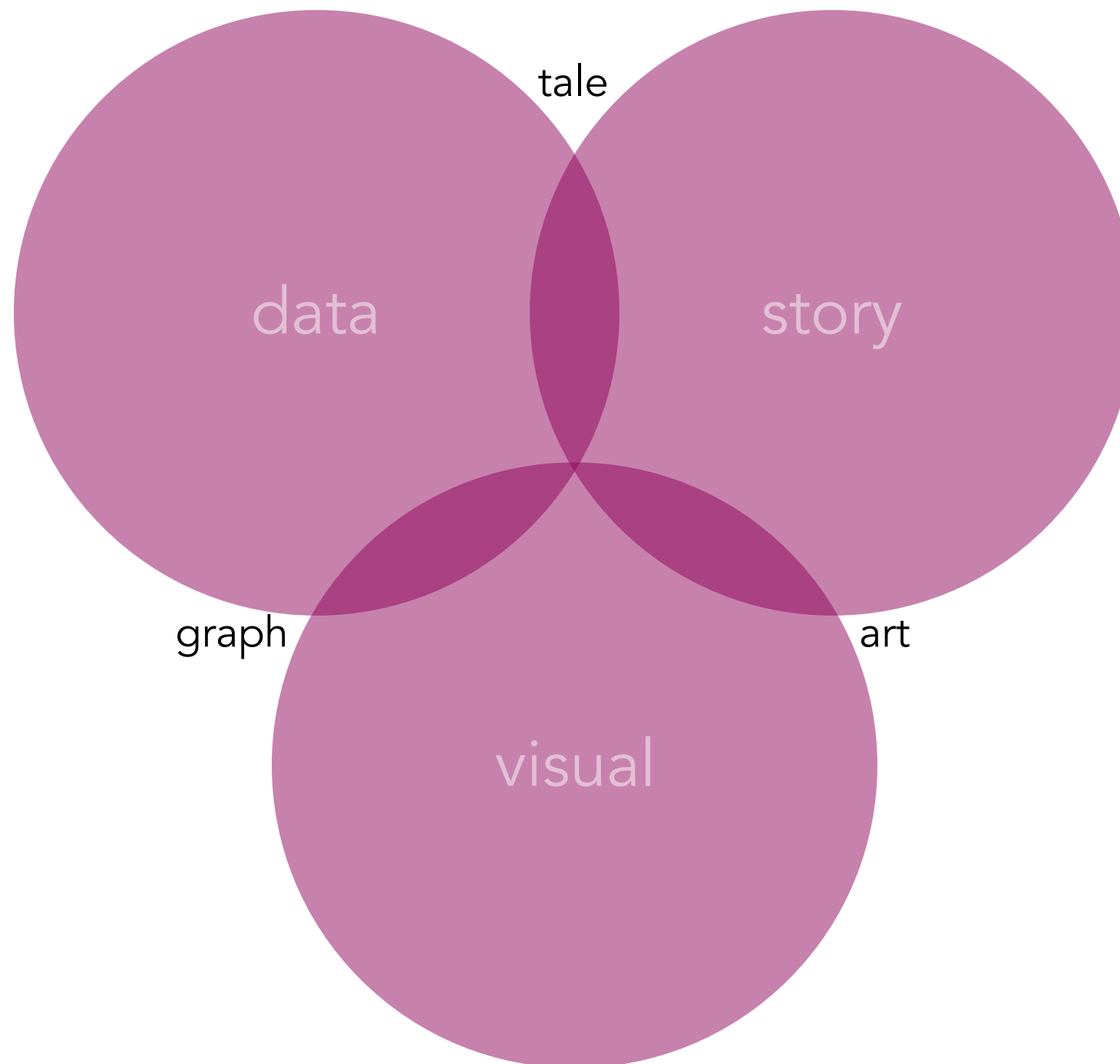
## **Pitfalls**

visual encoding unclear

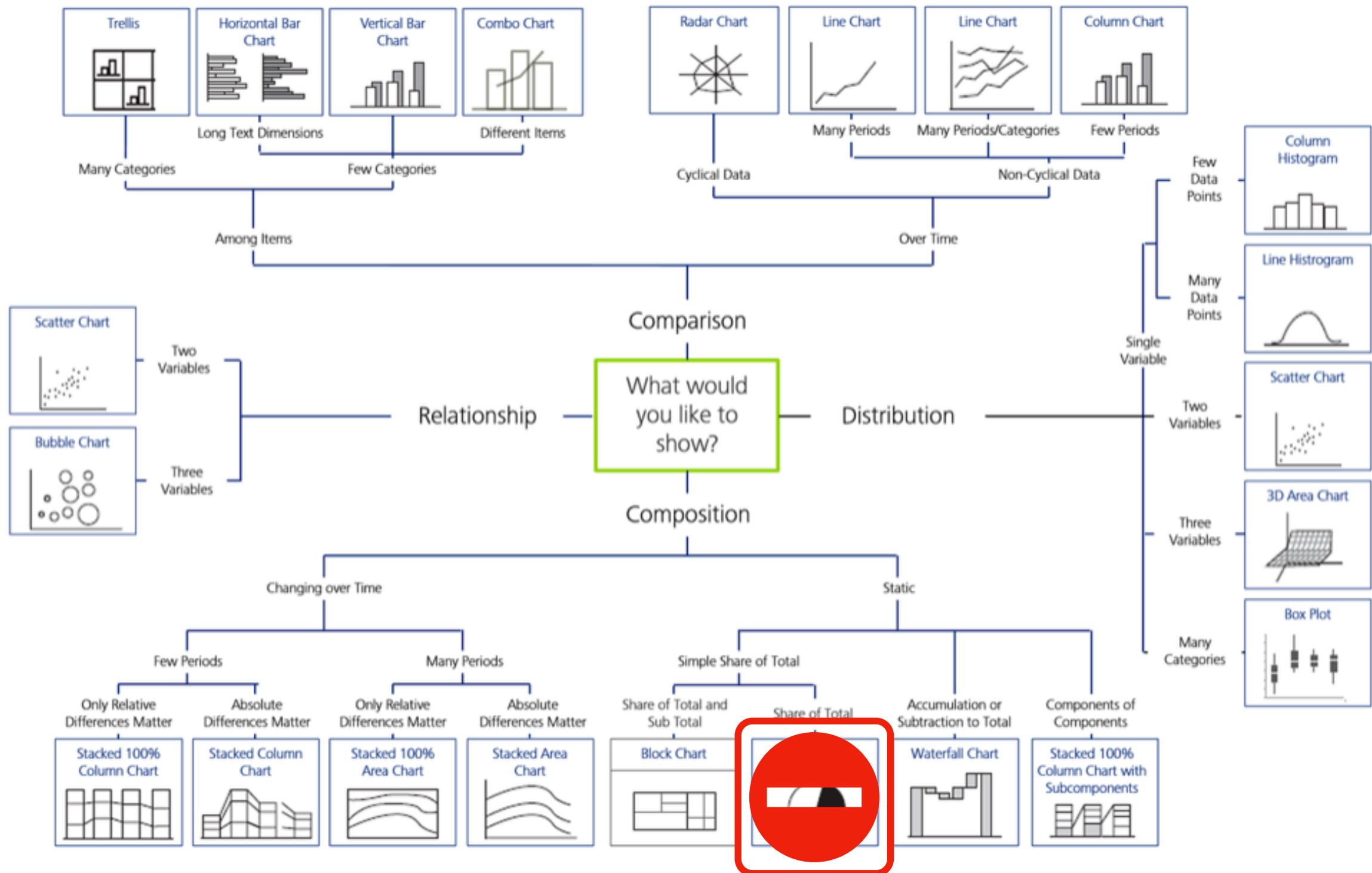
too many variables

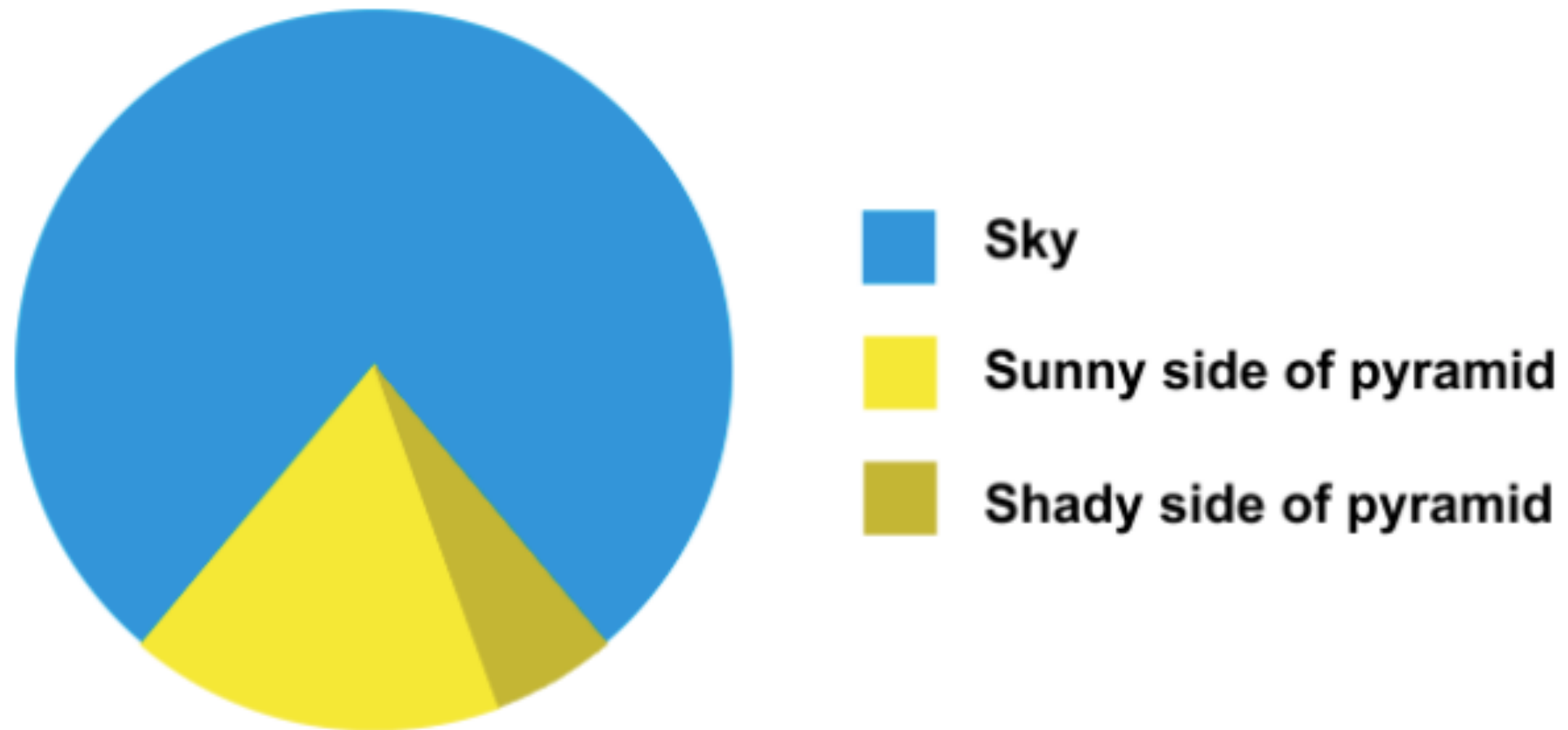
too many data points

# Try to hit the center



# Try to break conventions

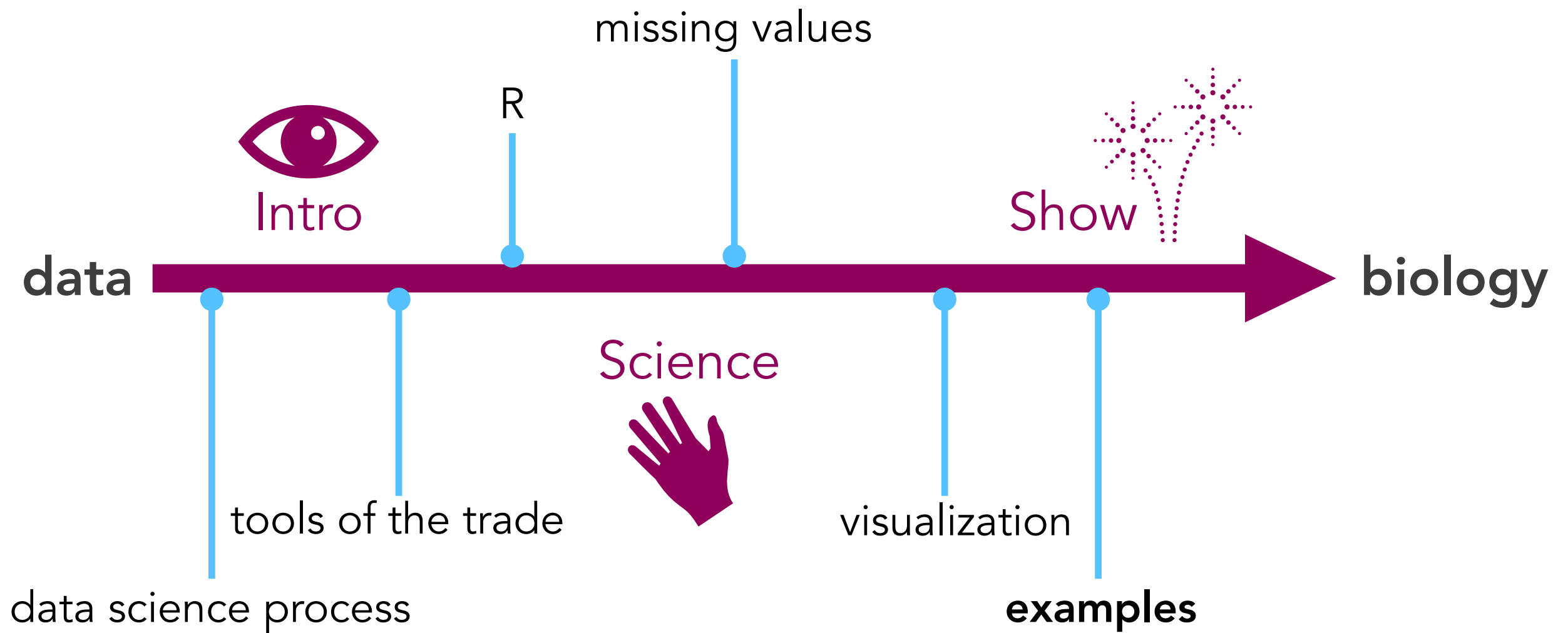






# Provide the right angle





# Let's assume

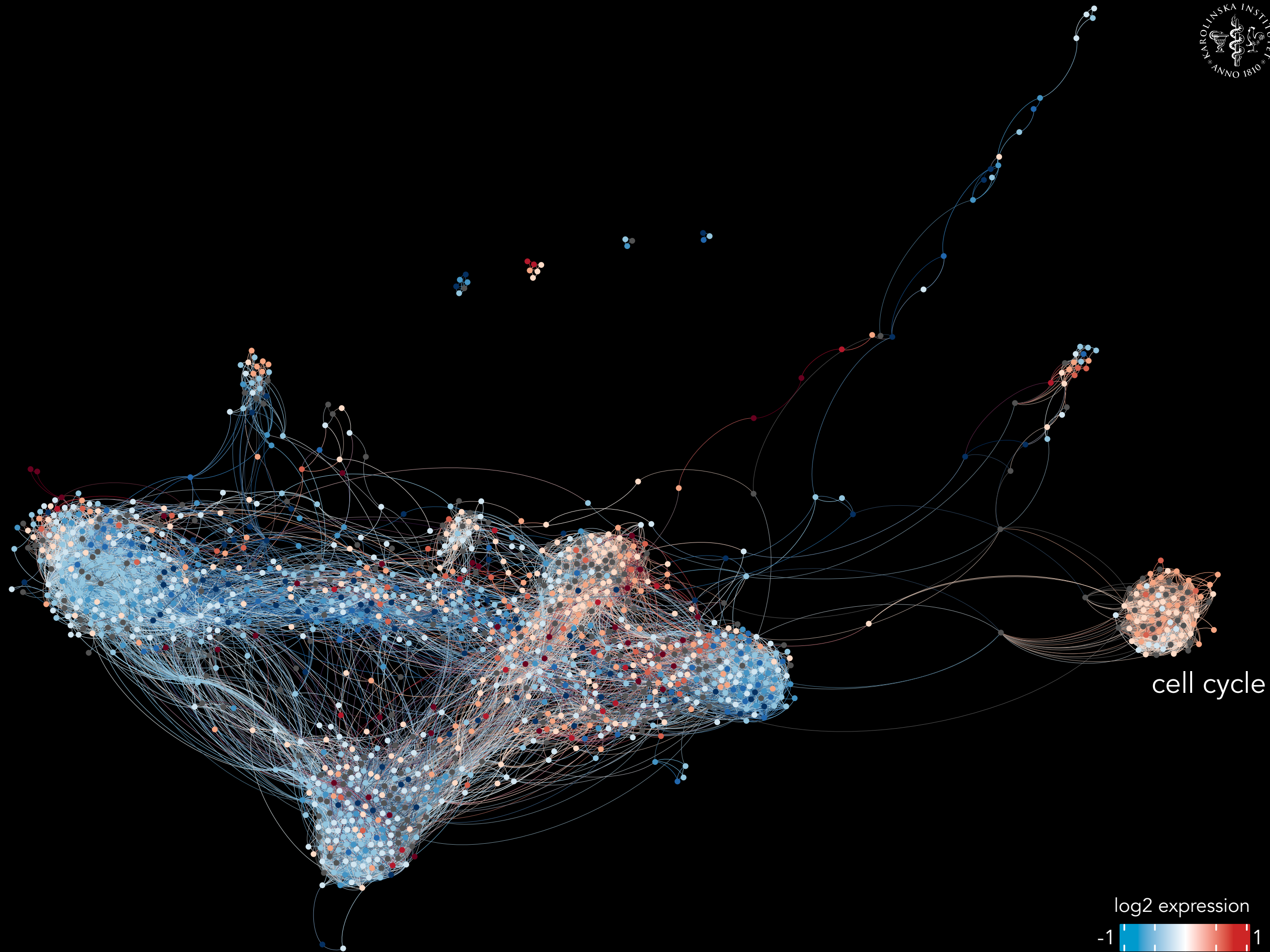
you have 100 tumor samples

for each sample you quantified 8,000 proteins

the samples can be divided in mutated and normal samples

**visualise protein expression  
of the mutated samples**





# Advanced: interactive graphics

<http://www.subcellbarcode.org>

<https://breastcancerlandscape.org>

Visualization is fun!



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# Thank you all!

<https://github.com/higsch/bioinfo-workshop>

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