

Data Processing

College 2 - 2018-11-01

Infographics should be....



Functional as a hammer



Multilayered as an onion

$$e = mc^2$$

Beautiful as equations

Small exercise – put the pipeline in order

- Acquiring the Data
- Analyzing the Data
- Asking a Question
- Parsing the Data
- Preprocessing the Data
- Presenting the Data

Data Processing Pipeline

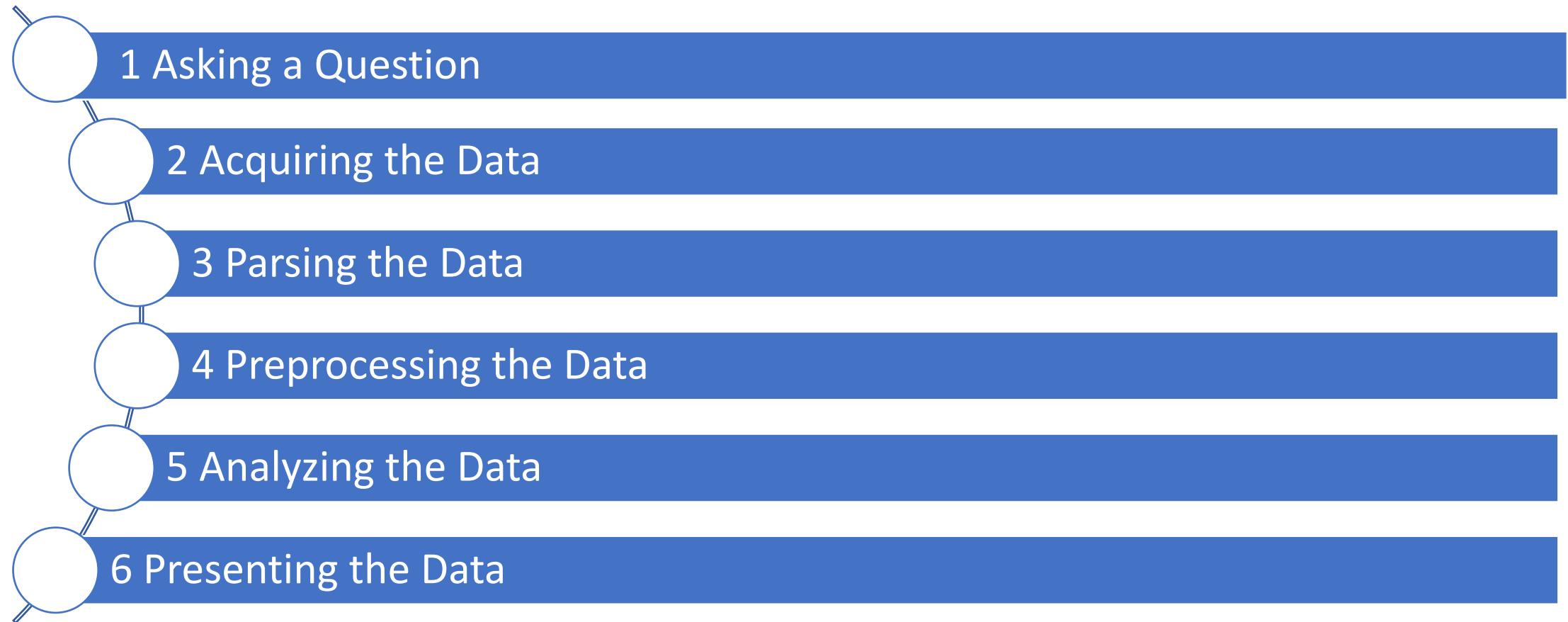




Figure 6.1. How quickly can you see the wolf in the trees in each of these illustrations?

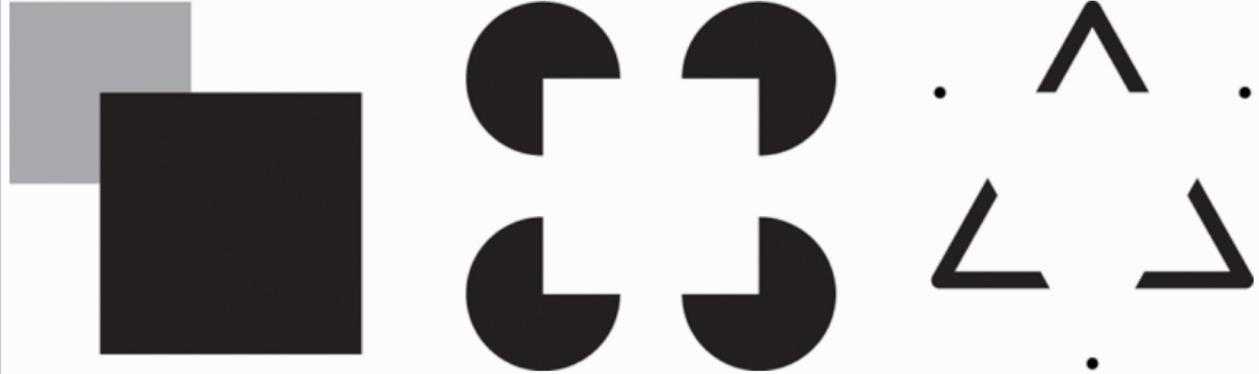


Figure 5.9. Can you see two squares, a white square over four circles, and a white triangle?

4 3 6 7 9 8 1 2 5 5 1 1 5 6 1 1 5 8 1 3 4 1 5 9 1 5
1 5 3 4 5 1 1 5 2 5 1 3 1 9 2 5 1 2 1 8 9 1 4 1 1 6
5 2 1 6 1 1 6 1 2 4 1 8 1 6 1 5 8 2 4 1 4 1 5 1 9 1
1 4 1 8 1 9 5 1 2 8 1 9 1 1 5 1 1 5 1 6 1 8 2 6 1 2
2 6 1 9 1 5 1 2 2 1 4 1 1 8 2 1 4 1 2 4 4 1 1 9 1 2
3 1 2 5 1 1 6 1 5 3 1 8 2 1 3 8 1 1 8 1 4 1 3 1 6 1

4 3 6 7 9 8 1 2 5 5 1 1 5 6 1 1 5 8 1 3 4 1 5 9 1 5
1 5 3 4 5 1 1 5 2 5 1 3 1 9 2 5 1 2 1 8 9 1 4 1 1 6
5 2 1 6 1 1 6 1 2 4 1 8 1 6 1 5 8 2 4 1 4 1 5 1 9 1
1 4 1 8 1 9 5 1 2 8 1 9 1 1 5 1 1 5 1 6 1 8 2 6 1 2
2 6 1 9 1 5 1 2 2 1 4 1 1 8 2 1 4 1 2 4 4 1 1 9 1 2
3 1 2 5 1 1 6 1 5 3 1 8 2 1 3 8 1 1 8 1 4 1 3 1 6 1

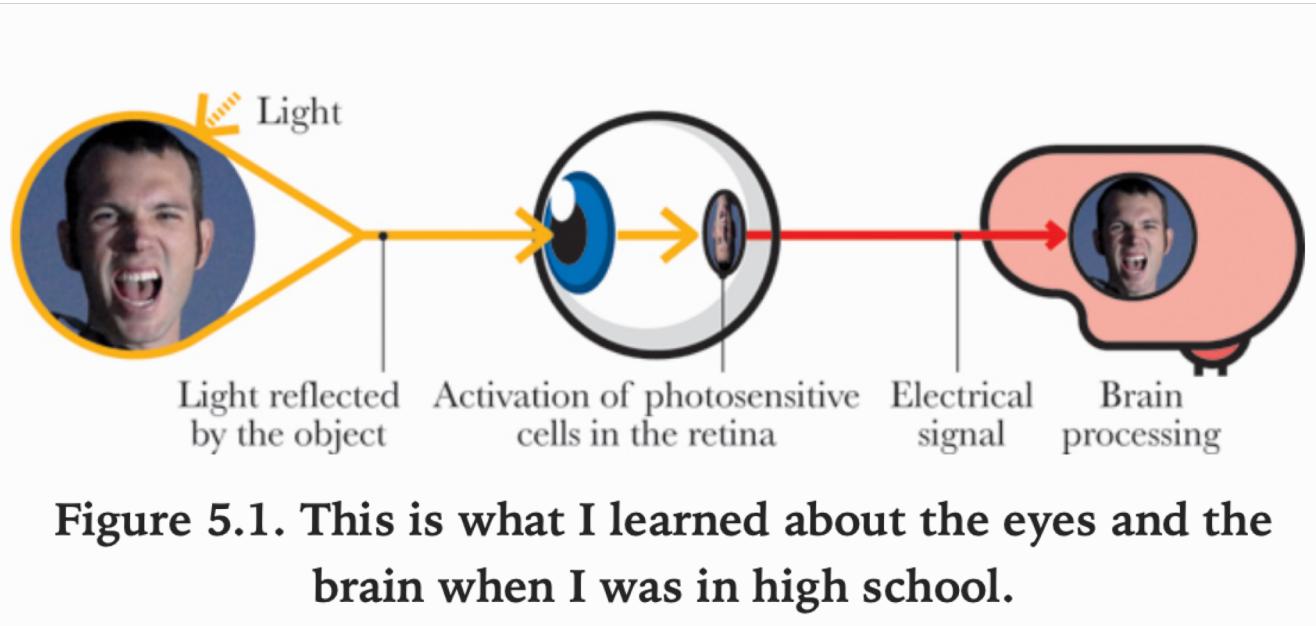
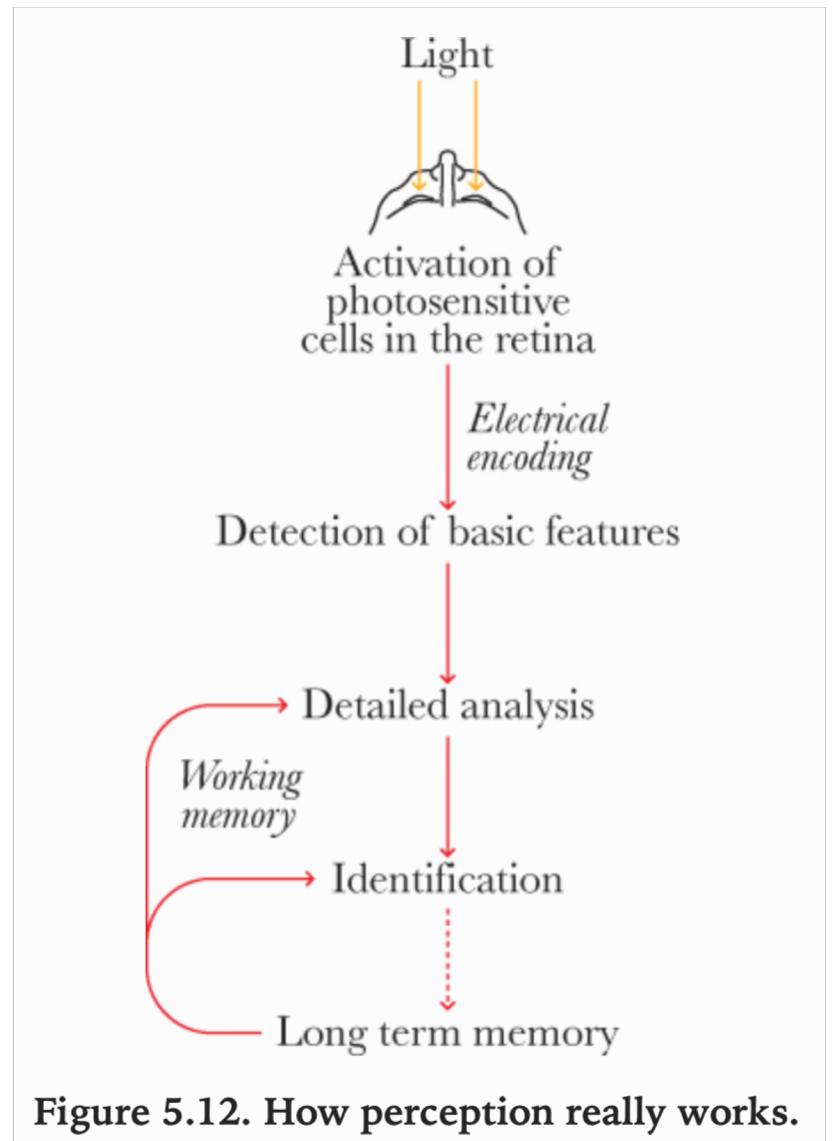
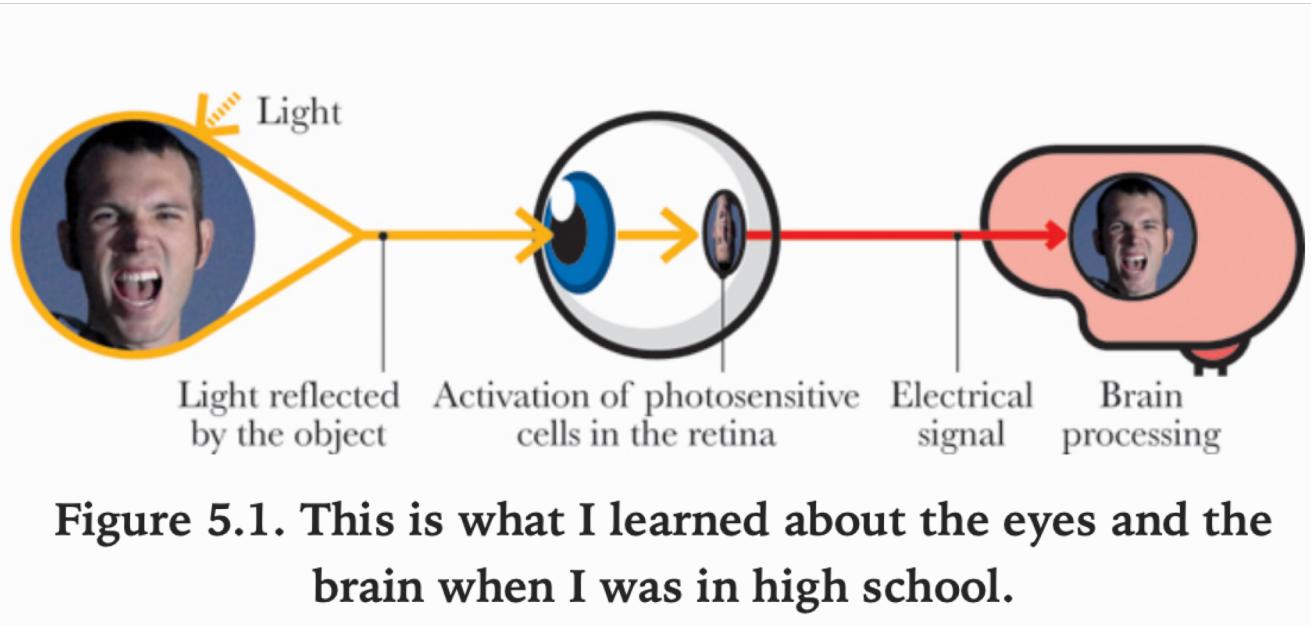
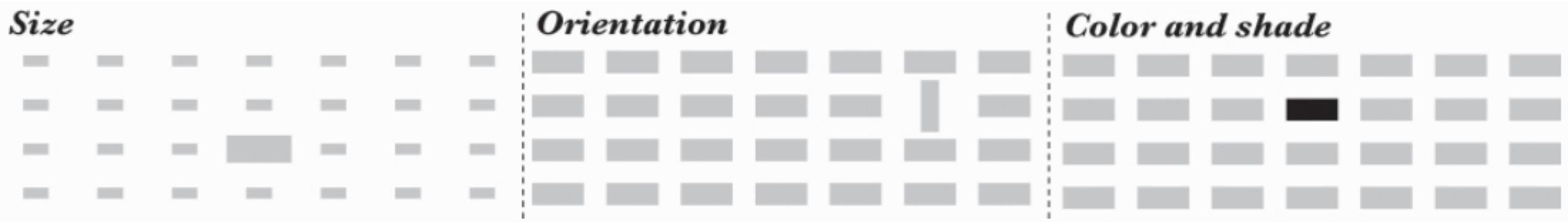


Figure 5.1. This is what I learned about the eyes and the brain when I was in high school.

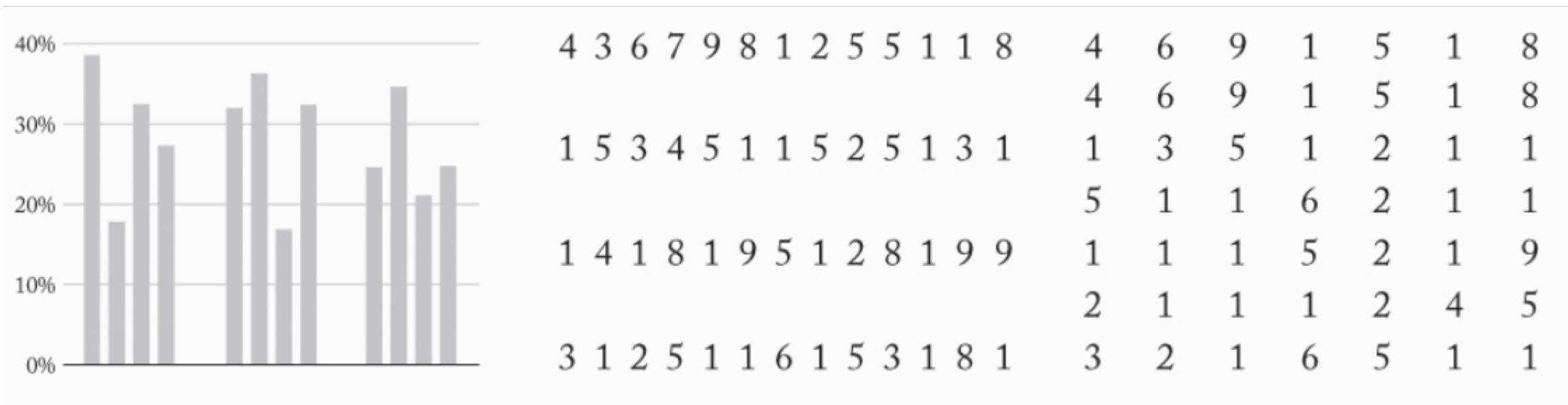


Pre-attentive detection features of last week



Other pre-attentive features

Proximity



Other pre-attentive features

Similarity

