

# Unsupervised

- Slides:
  - Generalities - annotated
  - Hierarchical models - annotated
  - *k*-means - annotated
  - Gaussian mixtures - annotated
- TD: [link](#)
  - Solution
- TP: [link](#)
  - Corrigé

## Outline

1. Hierarchical models
2. *k*-means
3. Gaussian mixtures

OUR ANALYSIS SHOWS THAT THERE ARE  
THREE KINDS OF PEOPLE IN THE WORLD:  
1  
THOSE WHO USE K-MEANS CLUSTERING  
WITH K=3, AND TWO OTHER TYPES WHOSE  
QUALITATIVE INTERPRETATION IS UNCLEAR.

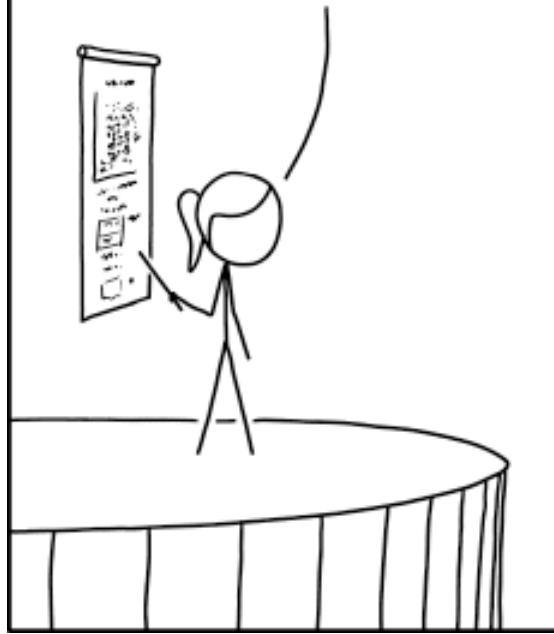


Figure 1:  $k$ -means ([xkcd:2731](#)).