# Unsupervised

- Slides:

    - Generalities - annotated

    - Hierarchical models - annotated

    - $k$-means - annotated

    - Gaussian mixtures - annotated

- TD: link

    - Solution
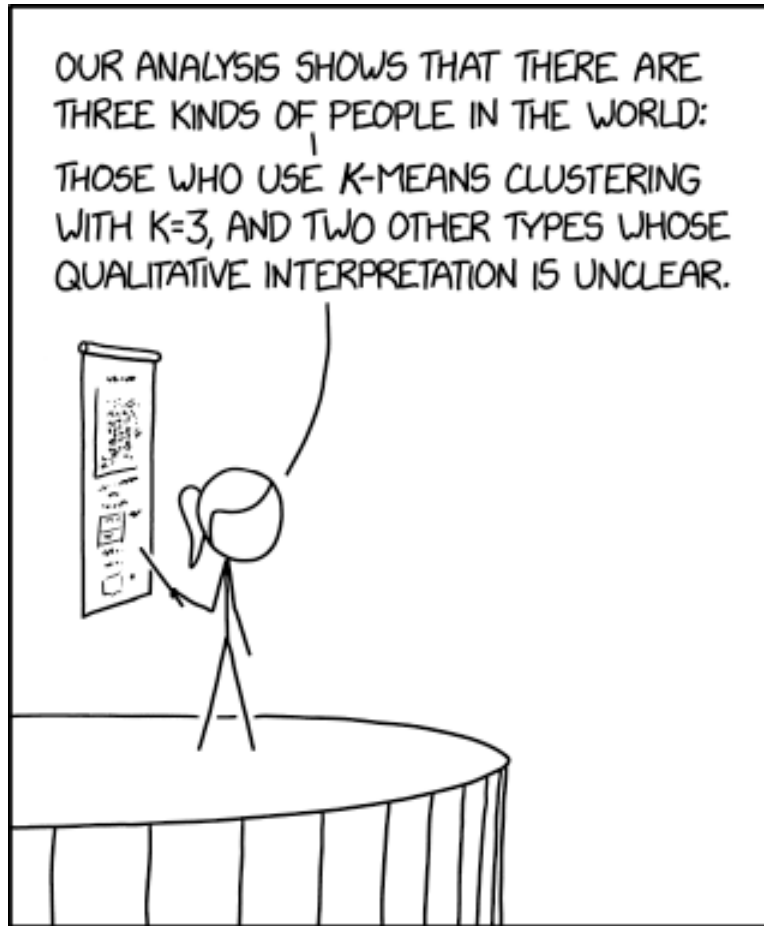
- TP: link

    - Corrigé

**Outline**

1. Hierarchical models

2. $k$-means

3. Gaussian mixtures

Figure 1: *k*-means ([xkcd:2731](https://xkcd.com/2731)).