











































- Clusters = Zones of high-density
- Two parameters: min_samples and eps

Algorithm:

- Start at a random point, consider all points within radius eps
- If that covers min_samples, keep that ball
 - Expend by considering esp-balls around every point of the current ball and iterate
- Otherwise mark the point as noise

... let's see this in action



DBSCAN: pros and cons

Pros

- Clusters are not necessarily globular
- No choice of number of clusters
- Very efficient implementations exist
- Robust to noise

Cons

- The eps and min_samples can be hard to tune
- If clusters have significantly different densities it is hard to find a meaningful eps, min_samples



Hands-on session

dbscan.ipynb



Comparisons of clustering algorithms

