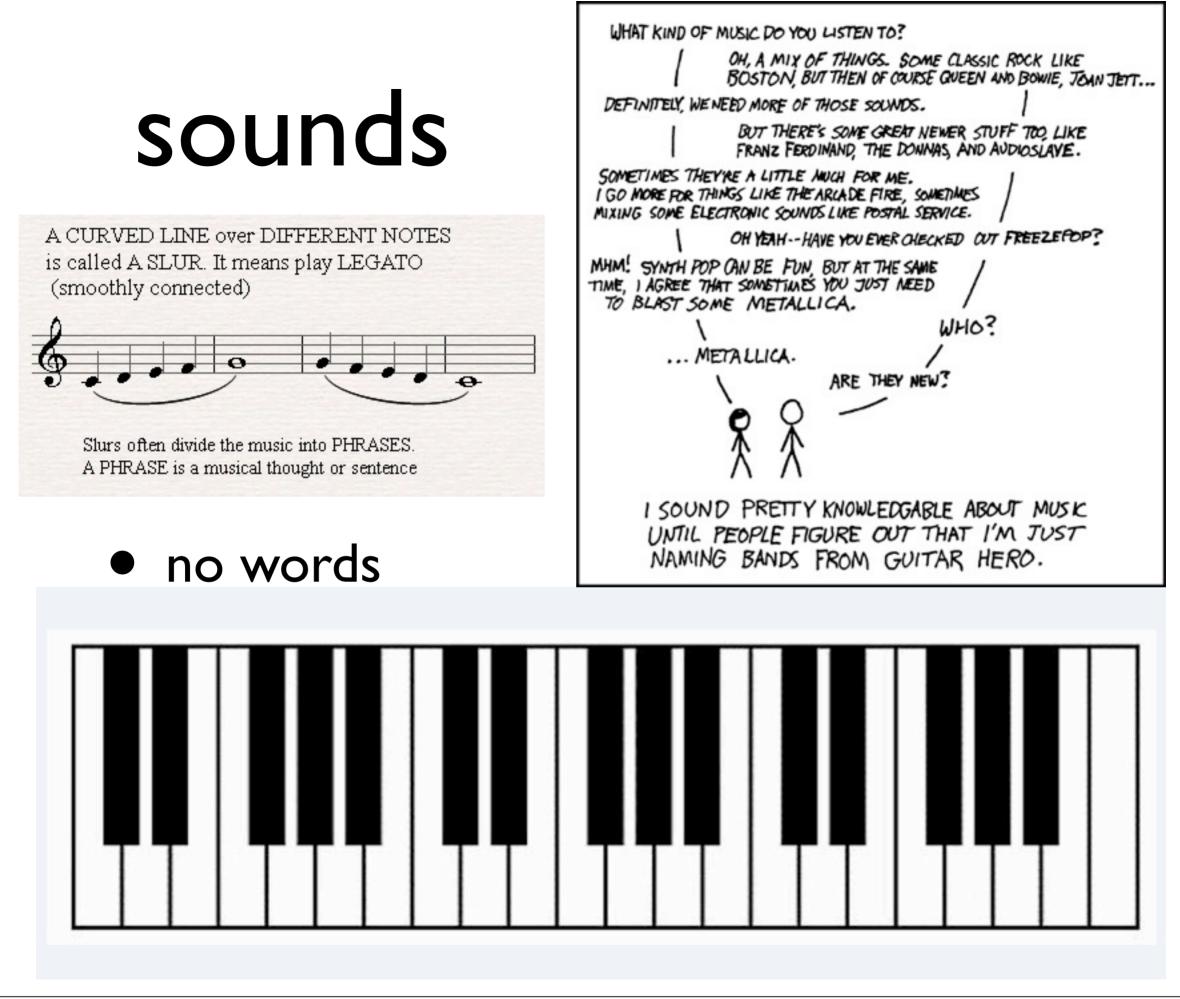
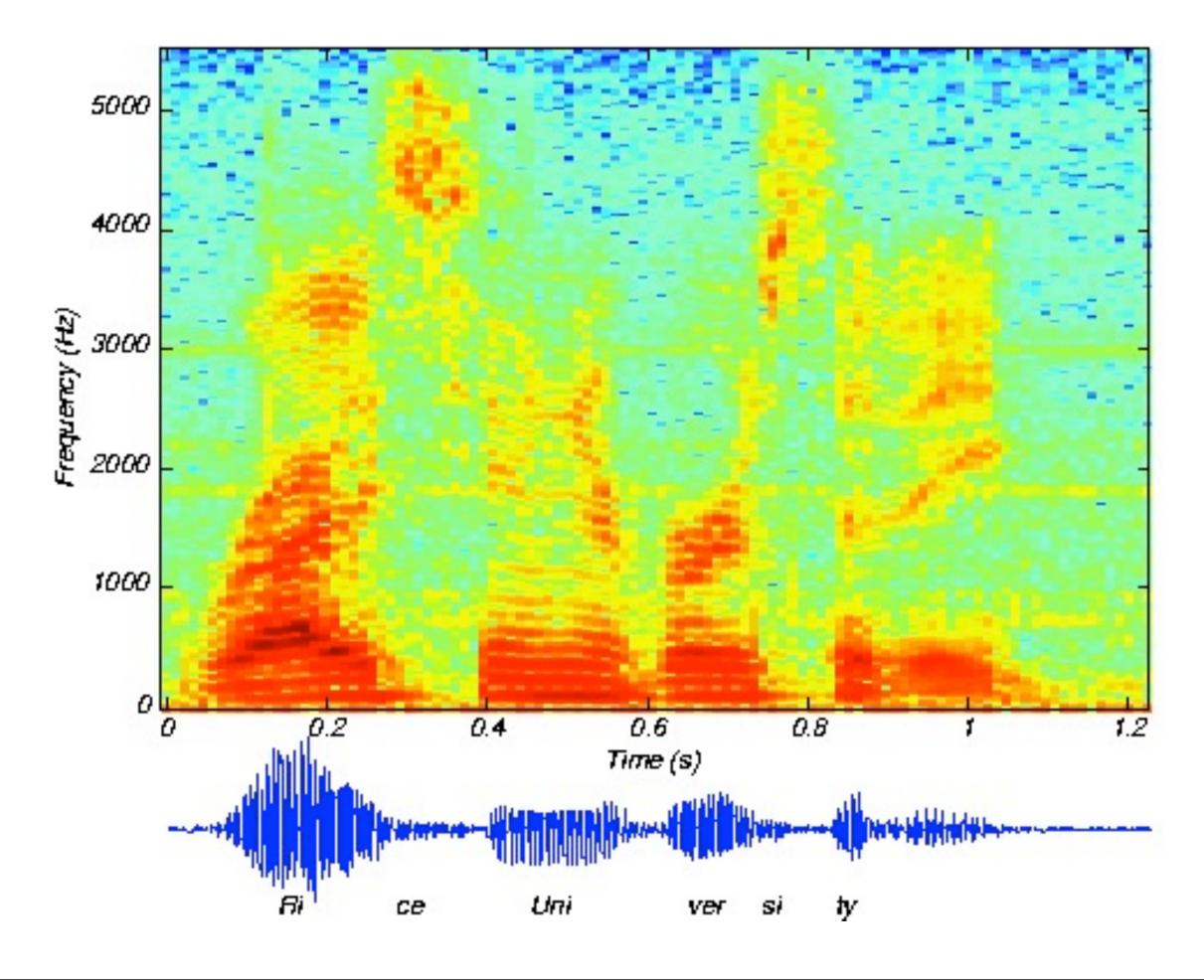
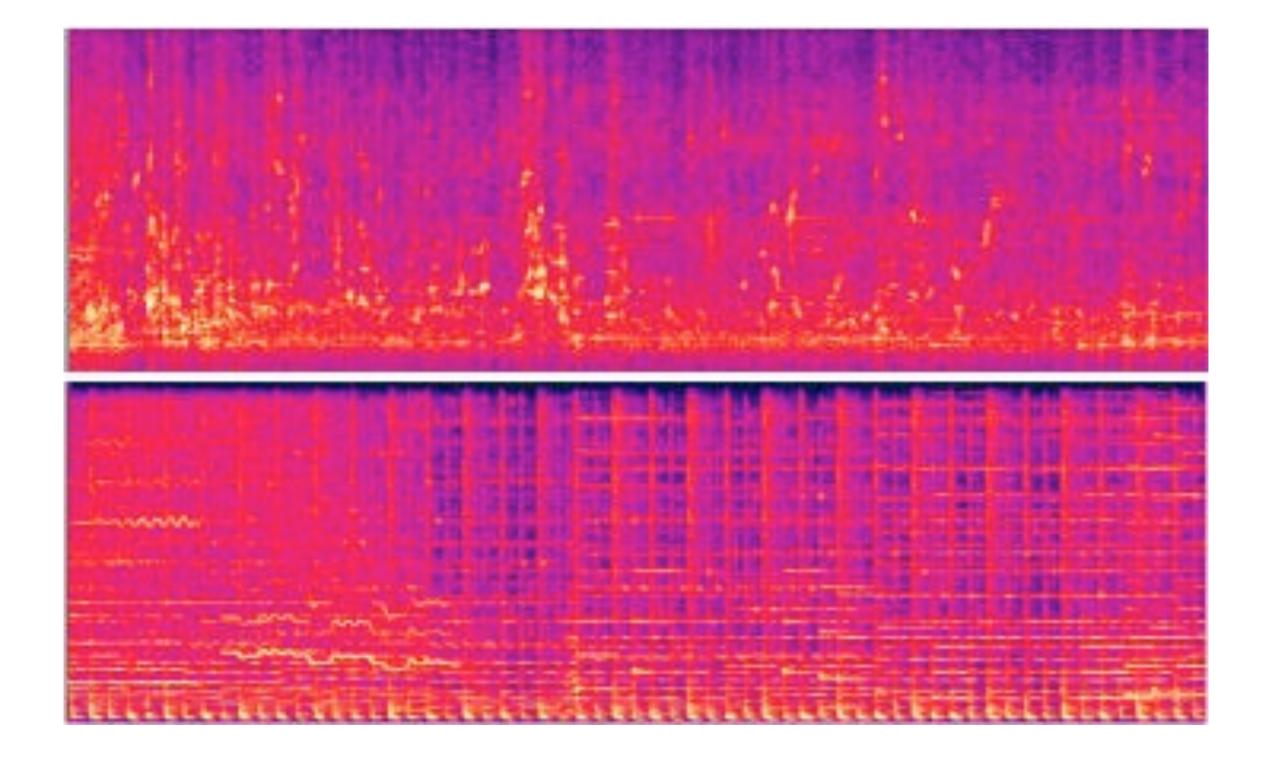
Needles in haystacks text music pictures

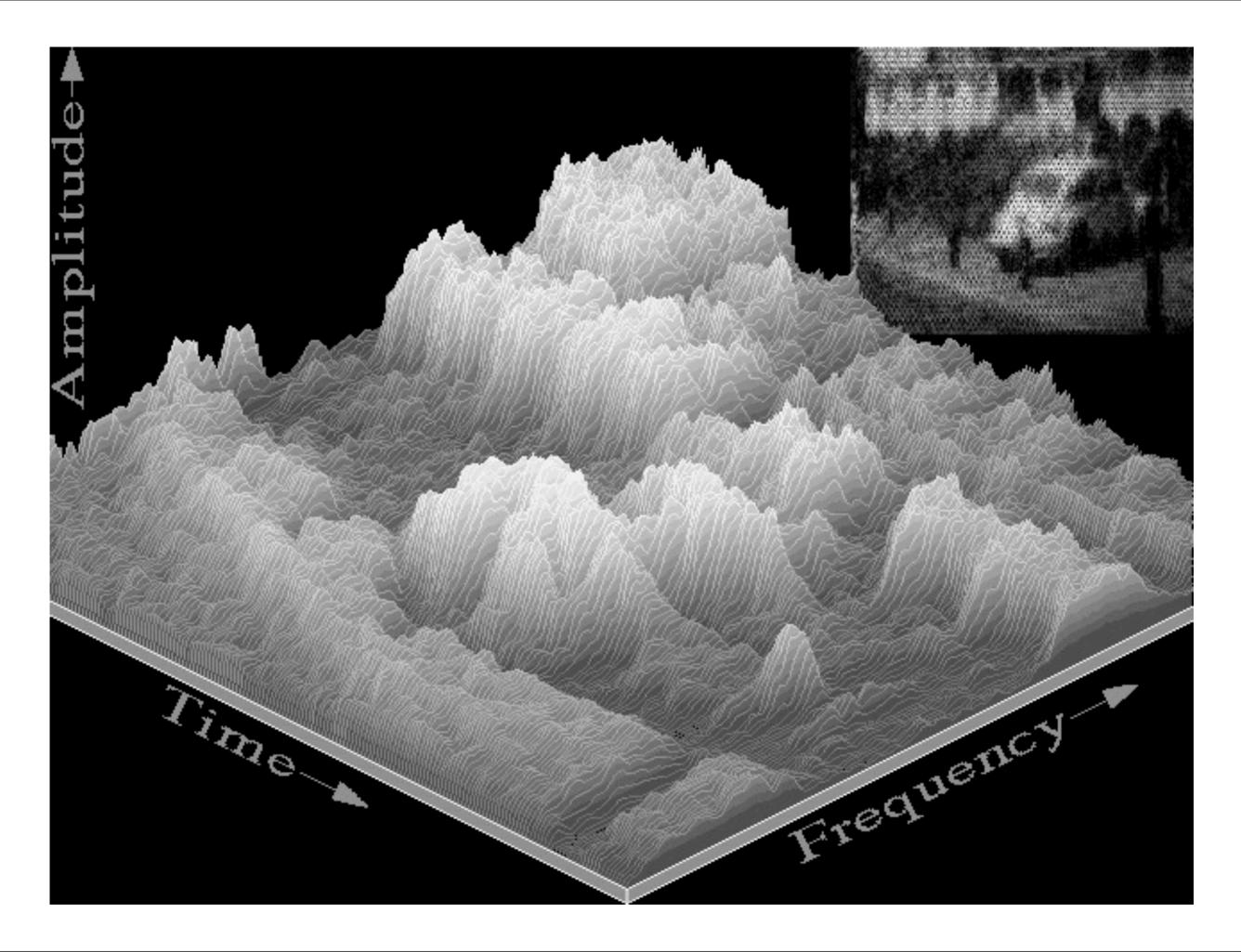
text

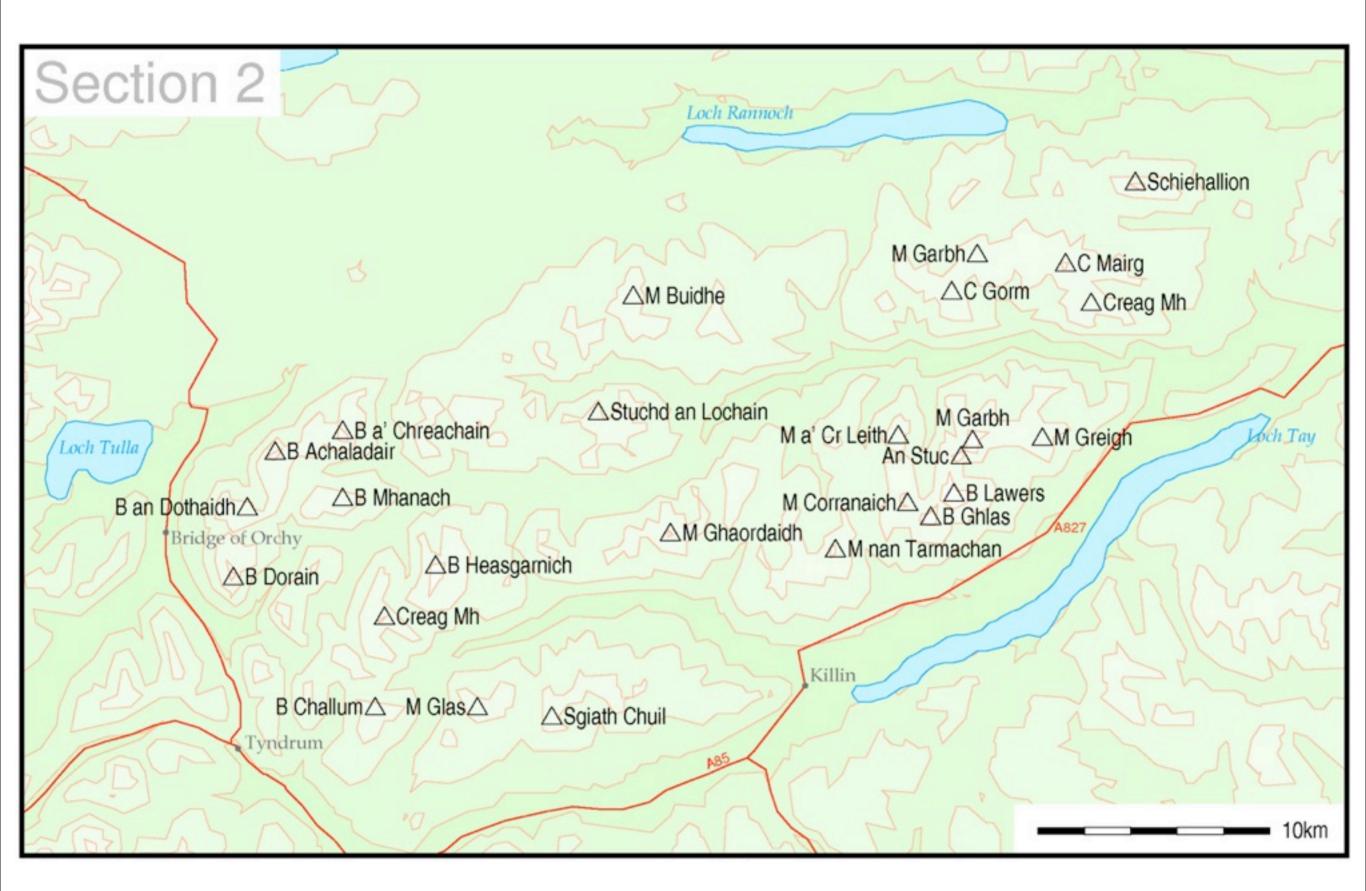
- Google index
 - for every word a list of documents and counts
- Google pagerank
 - deciding which documents are most important
- efficiency distributed algorithms
 - building tables
 - retrieving documents



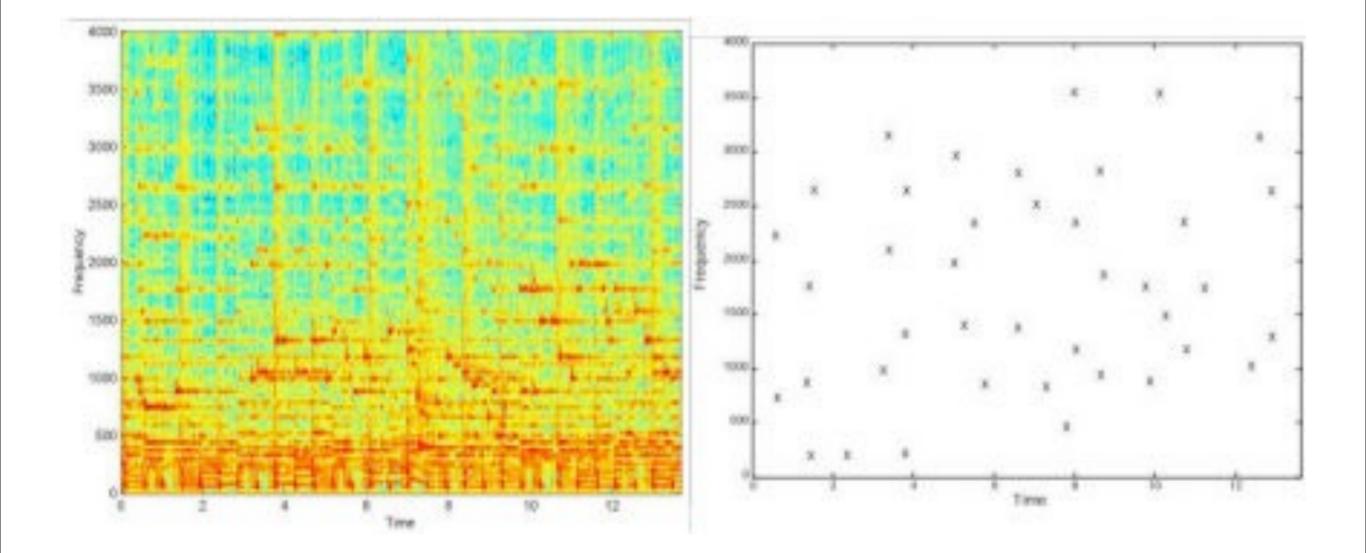


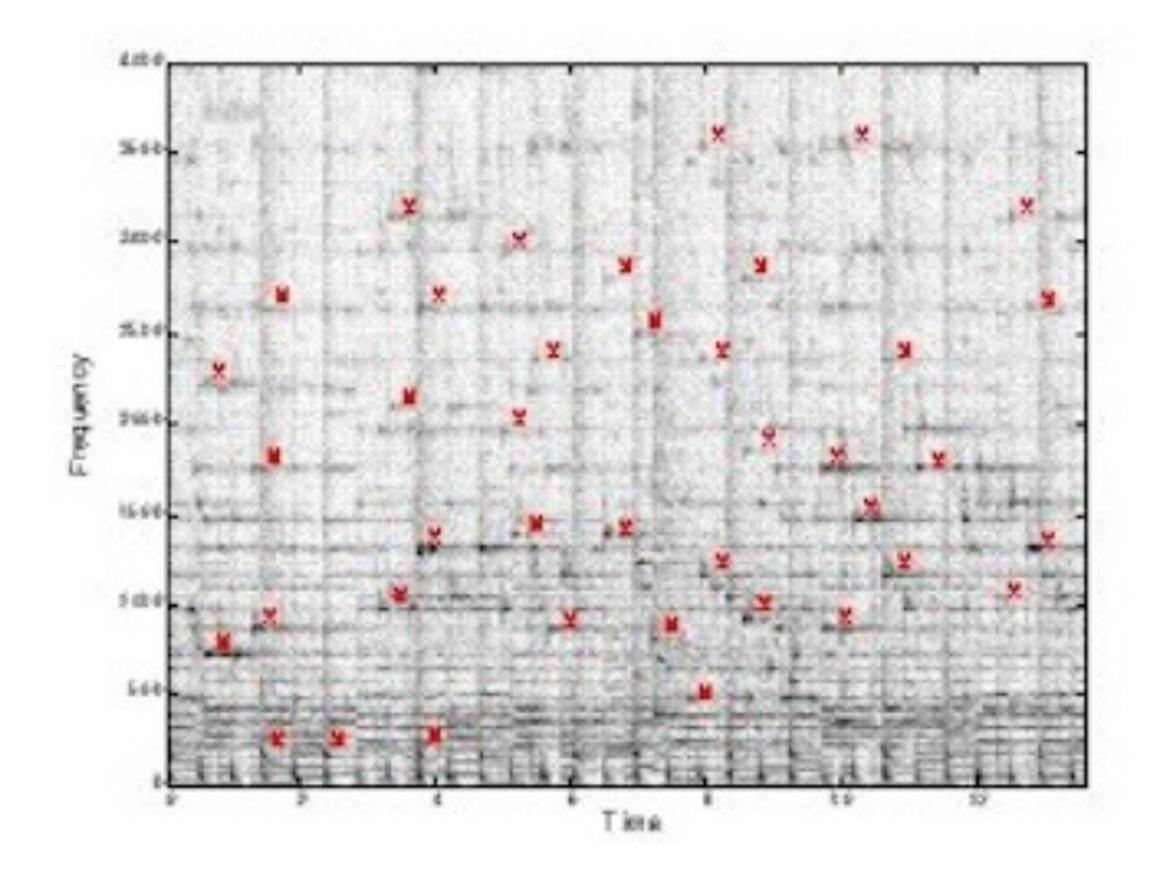


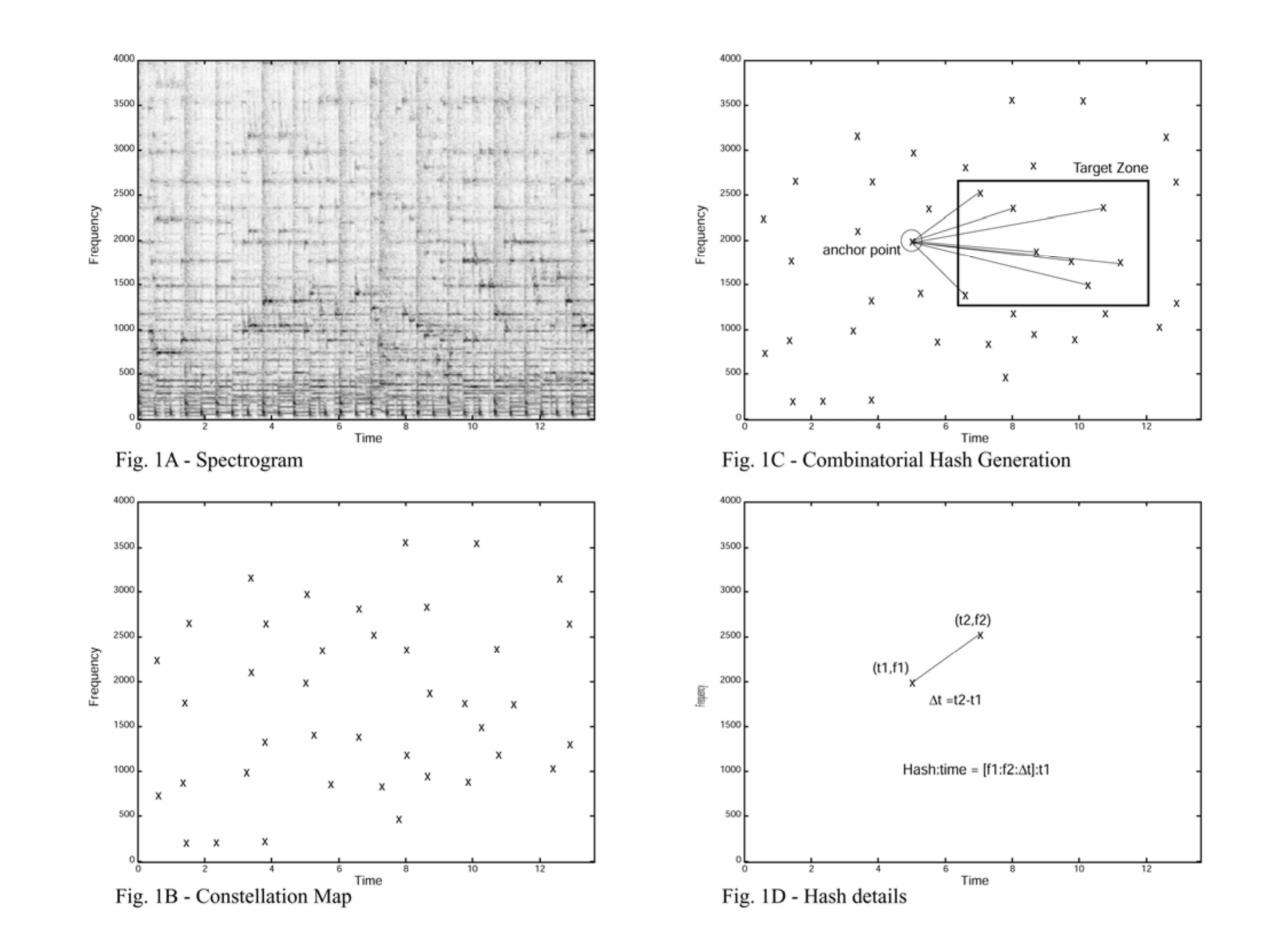


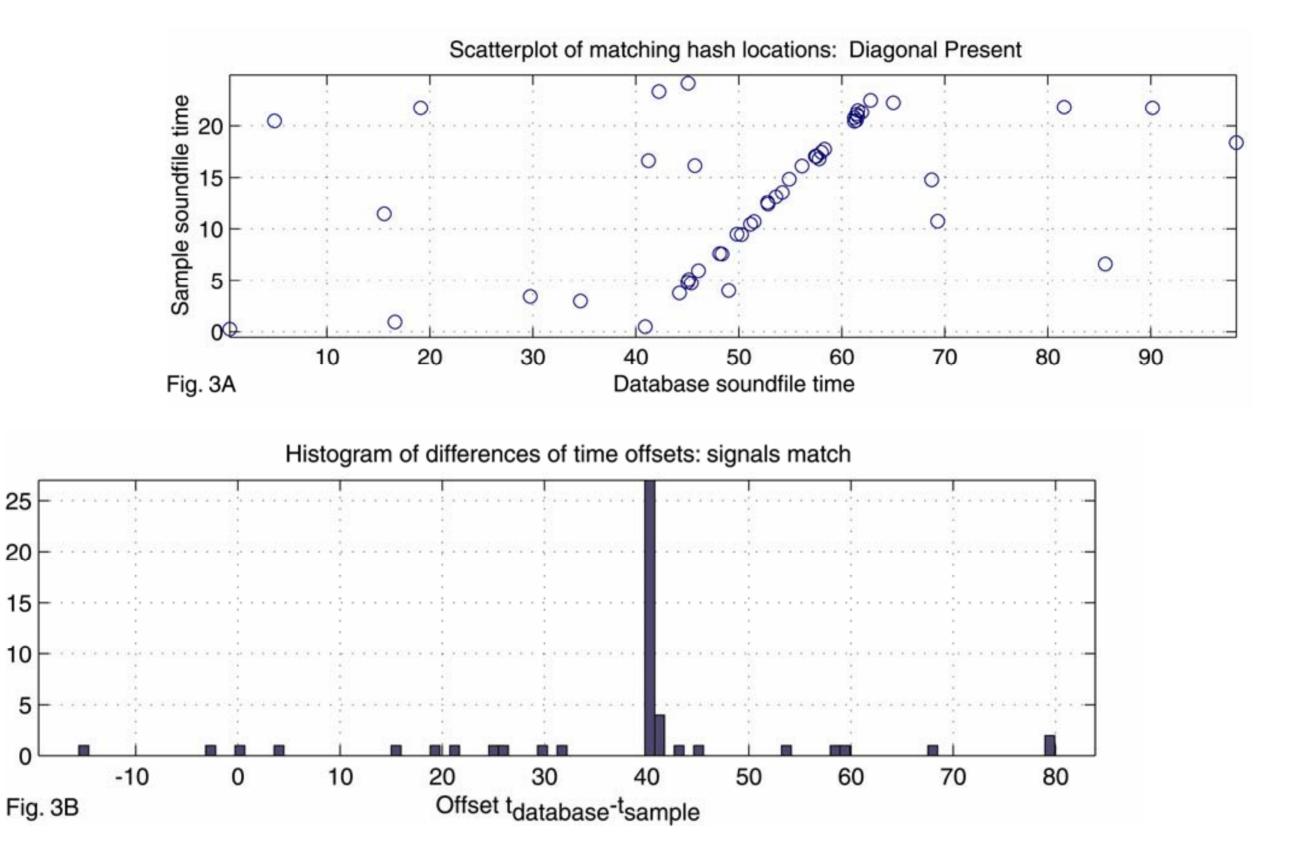


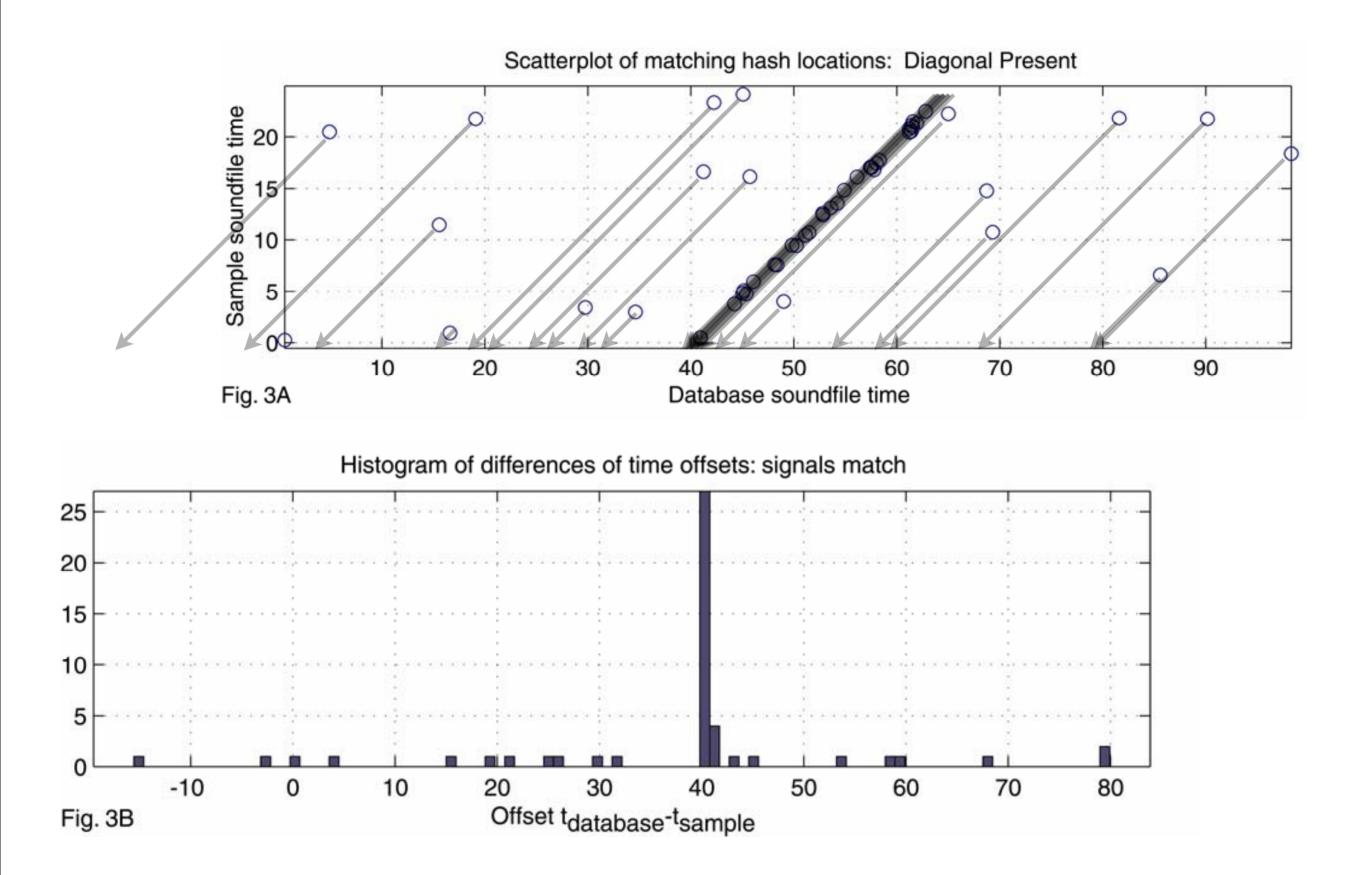
Munros – isolated peaks

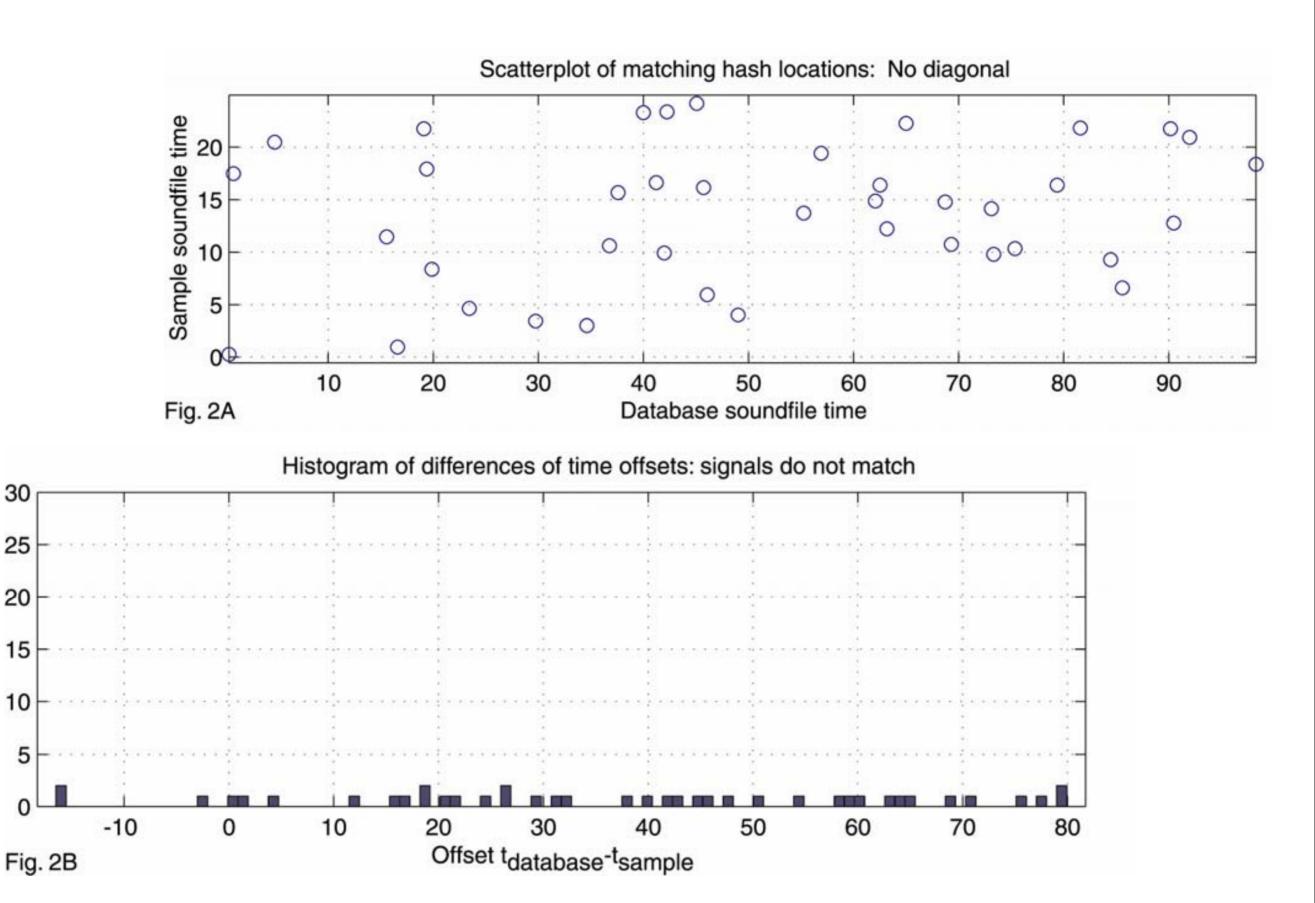












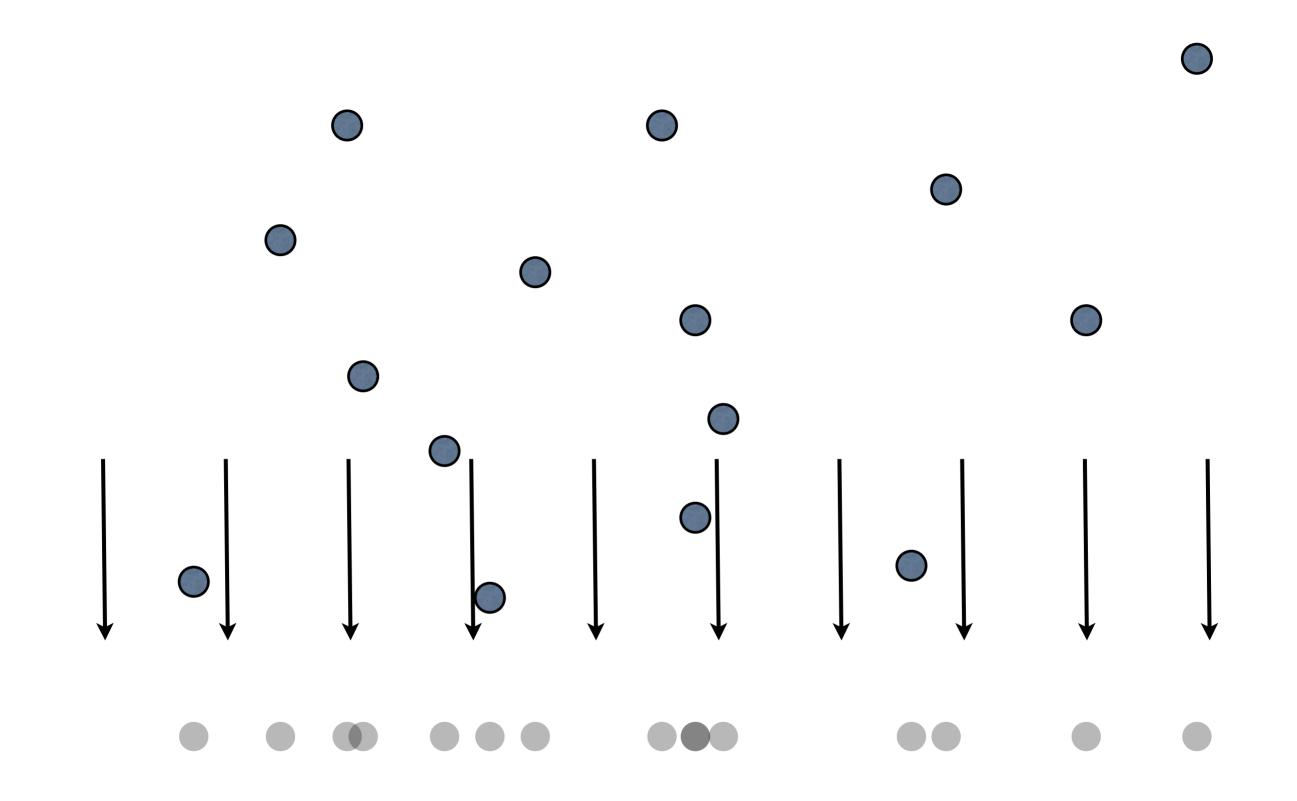


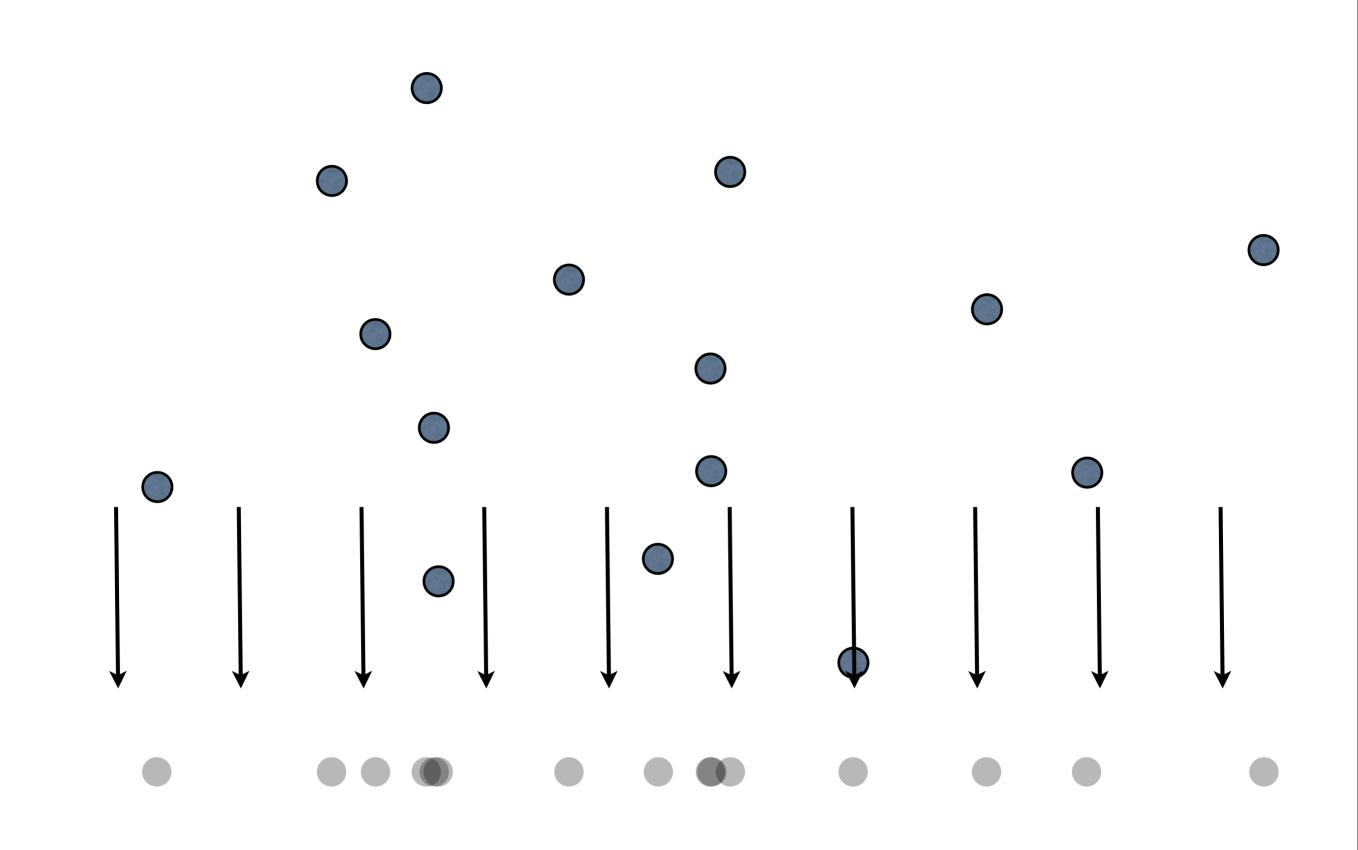
finding lines in images

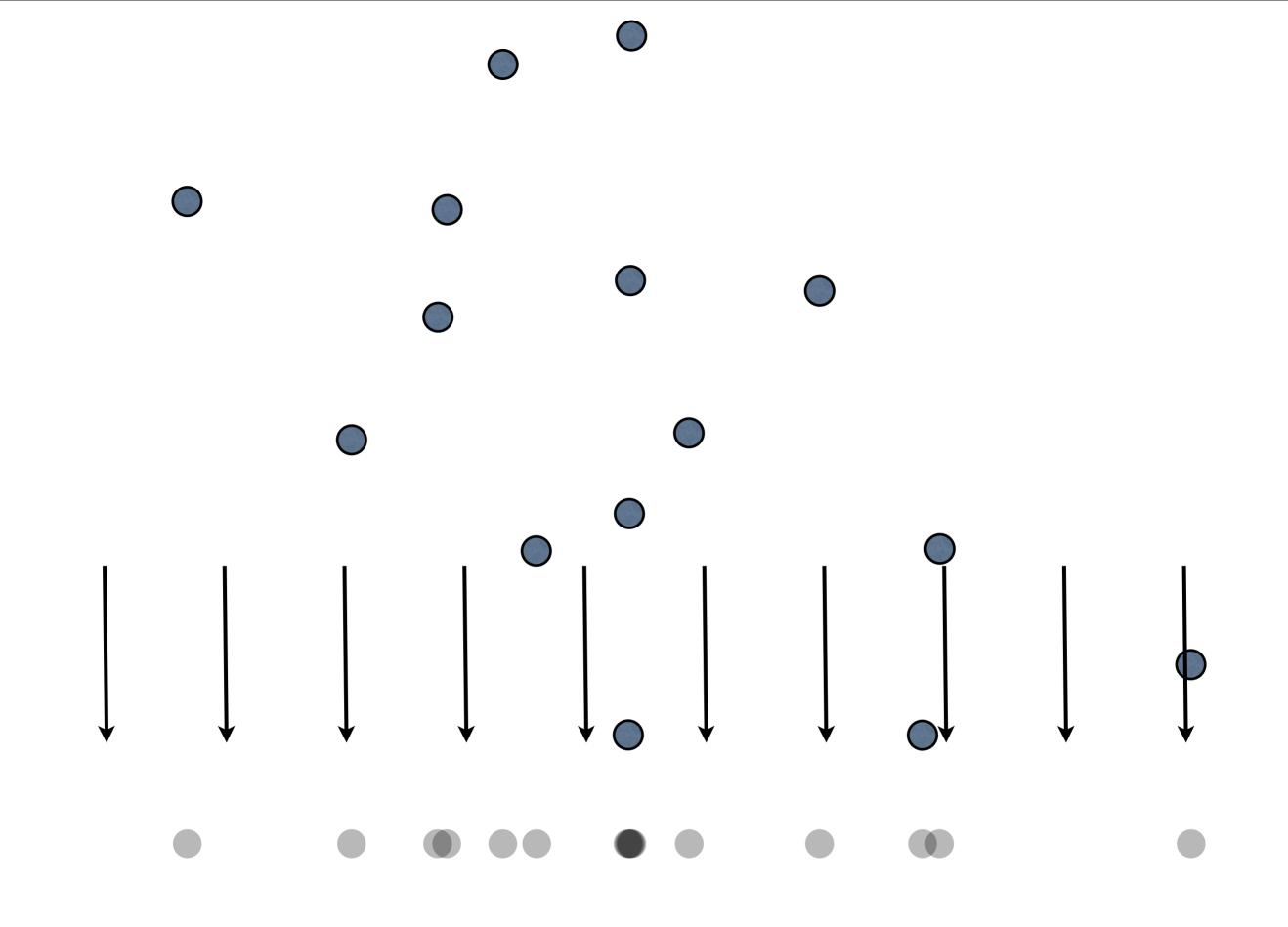


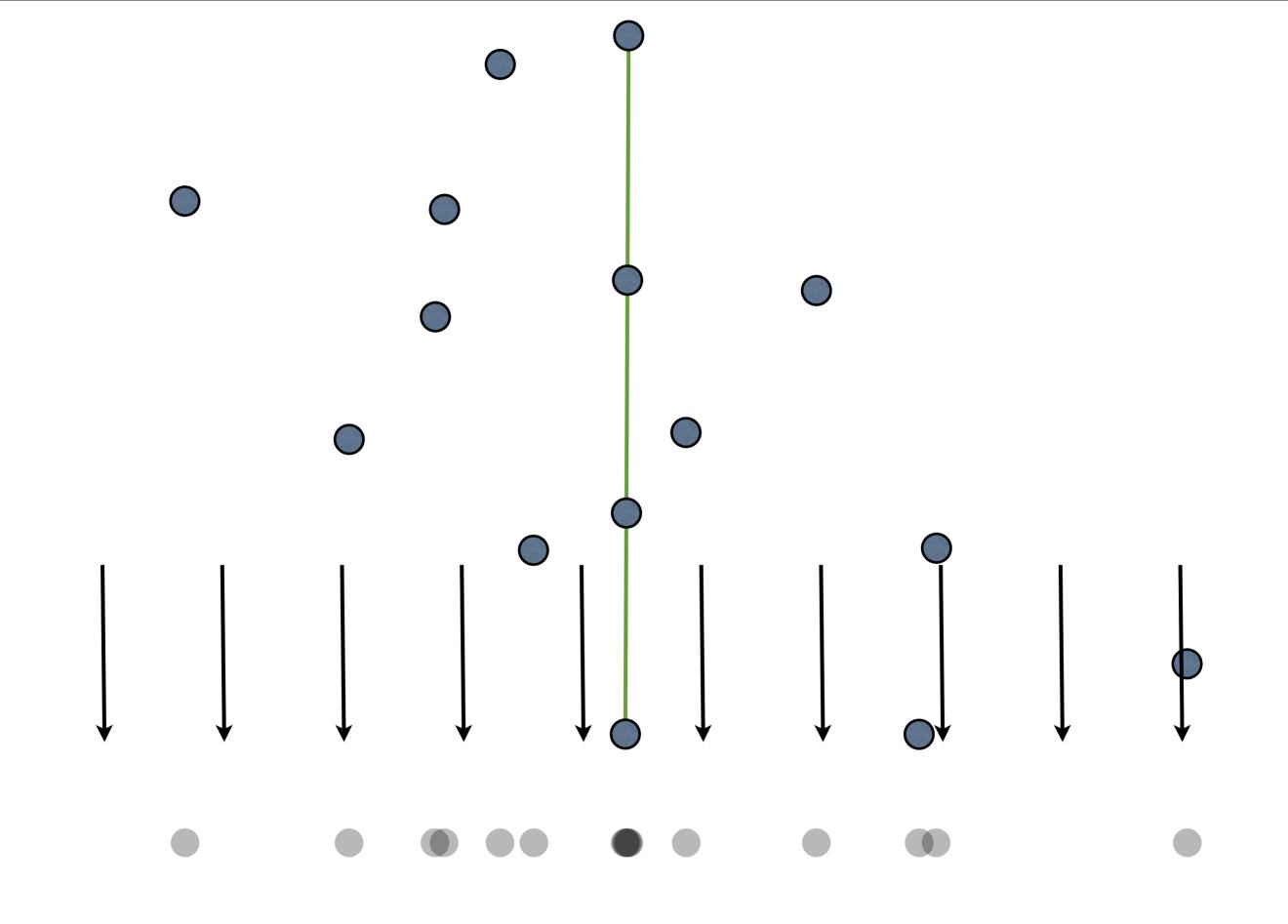


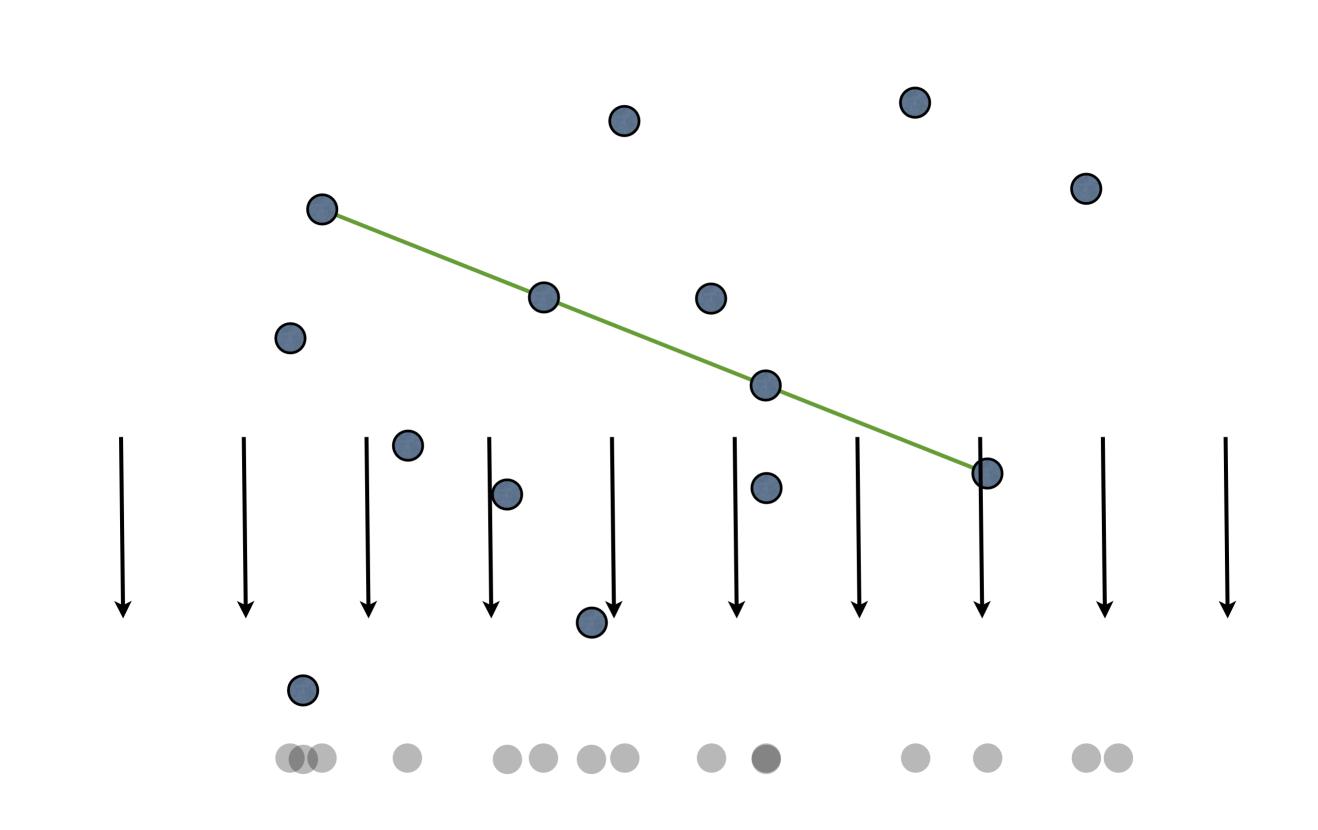


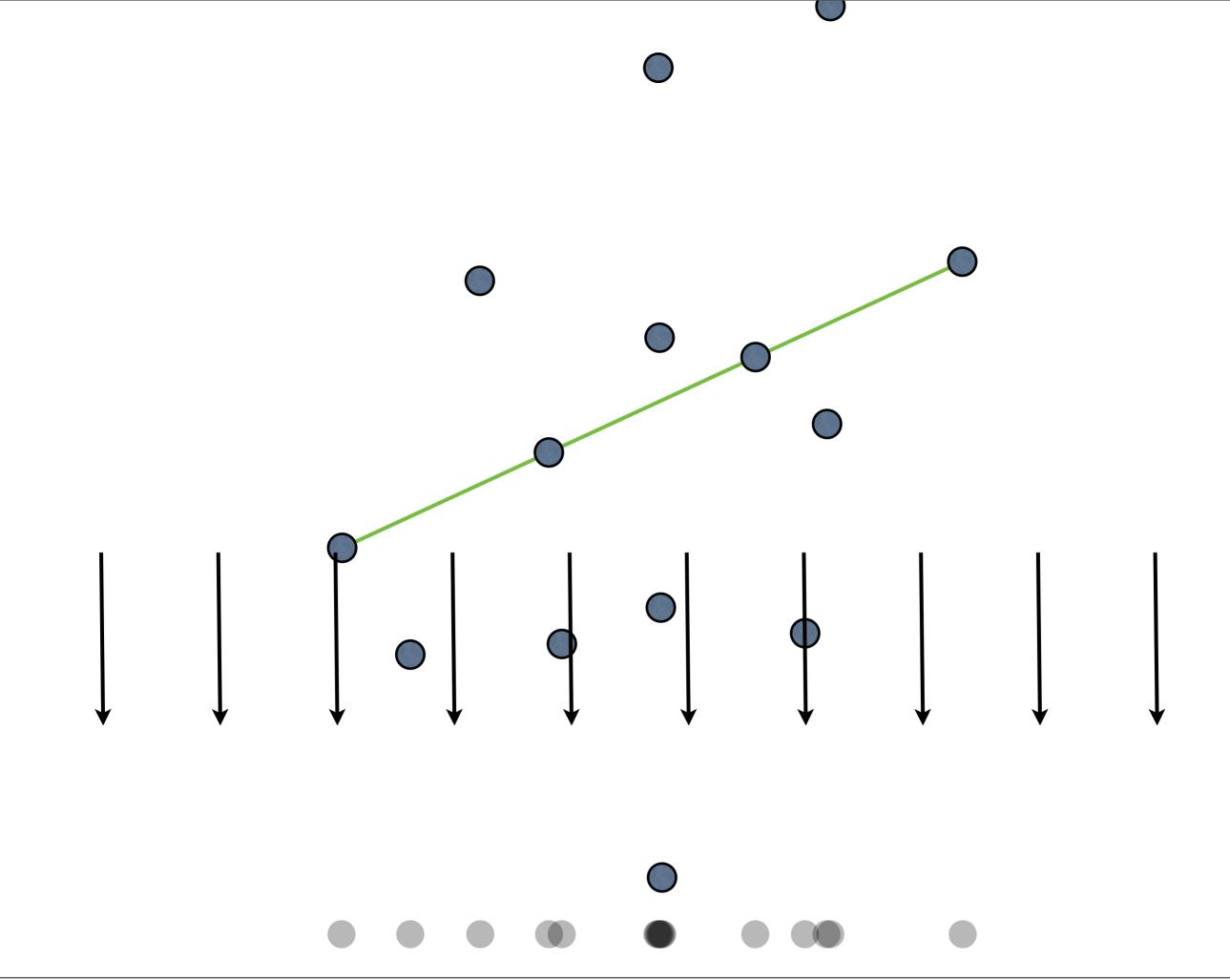


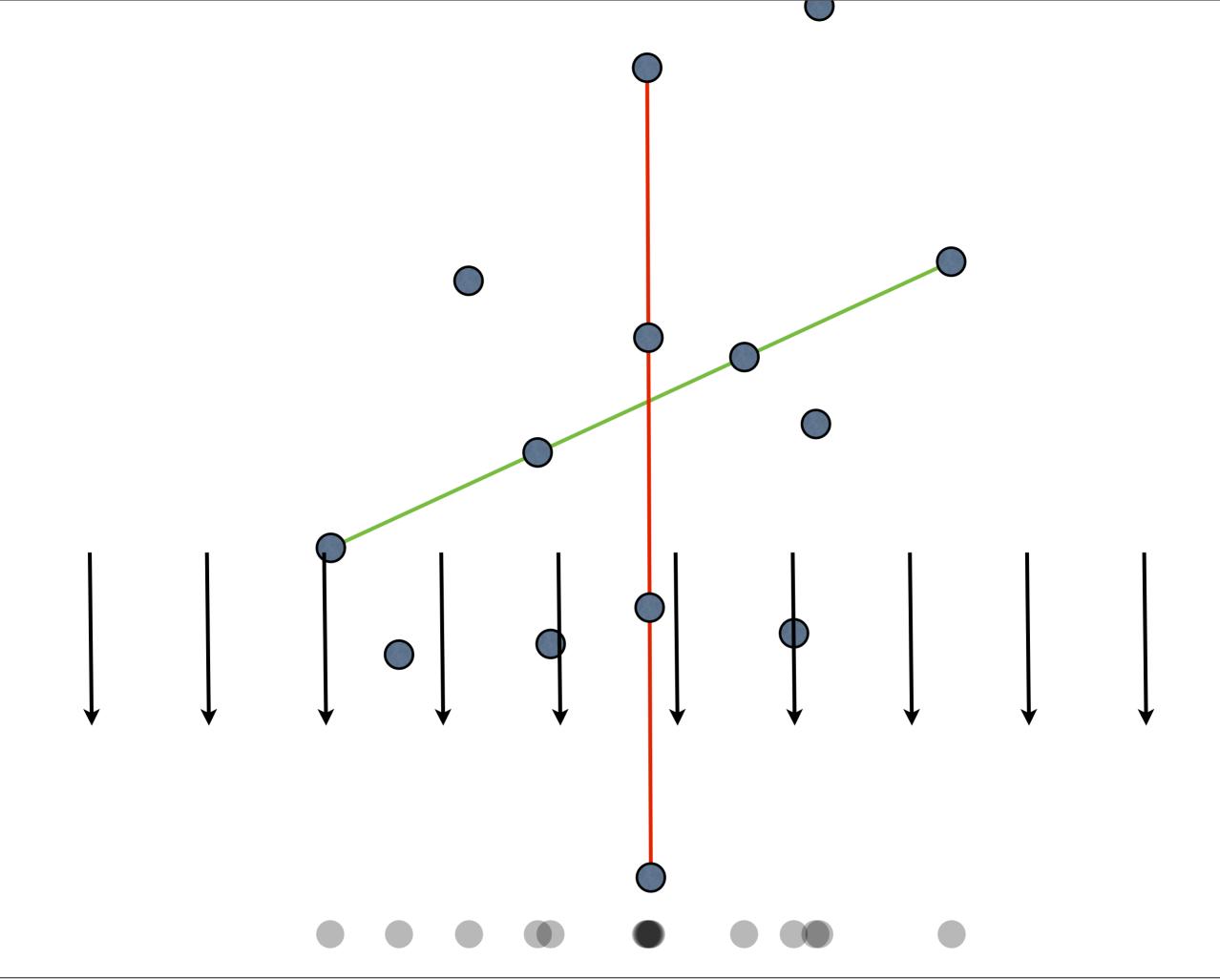


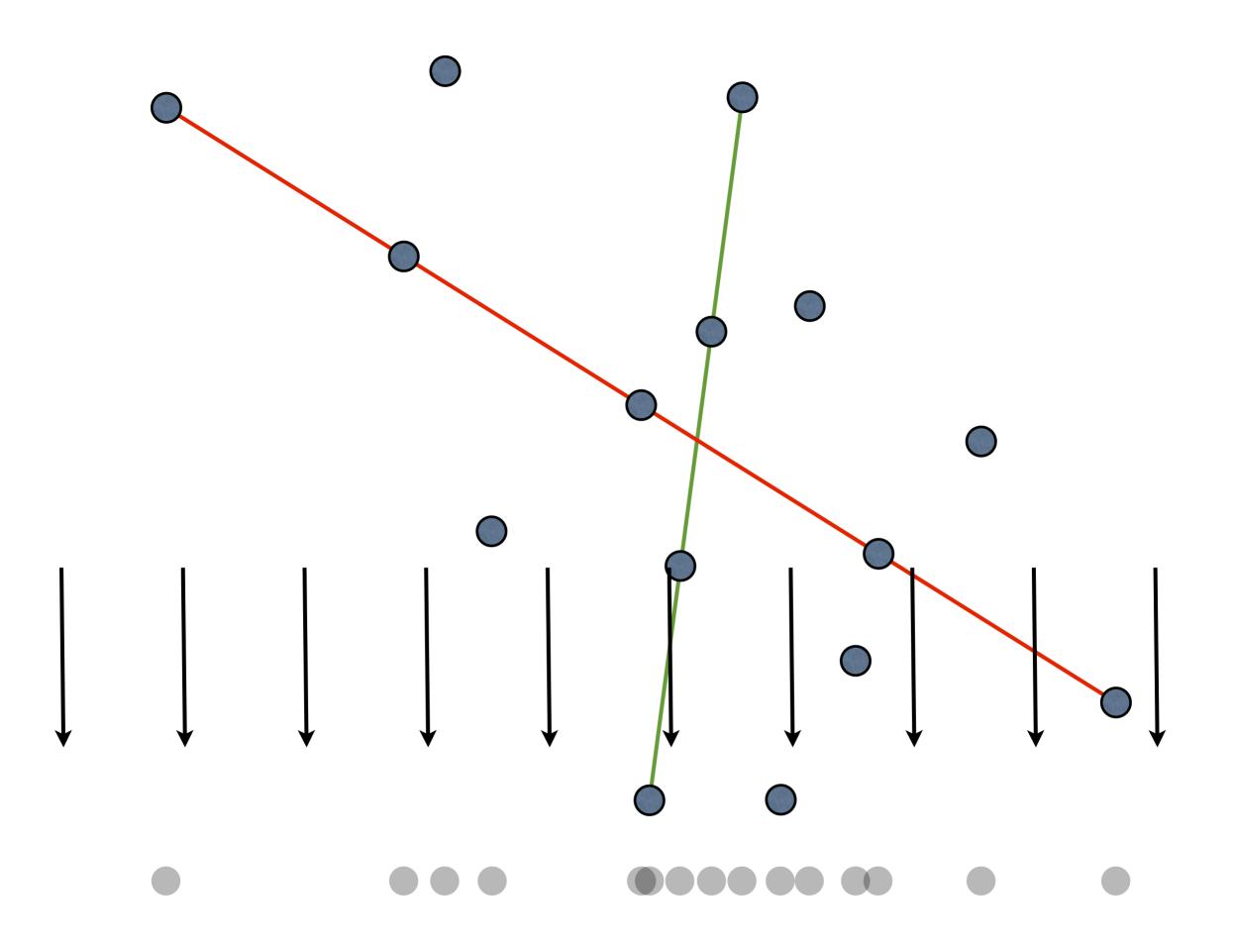


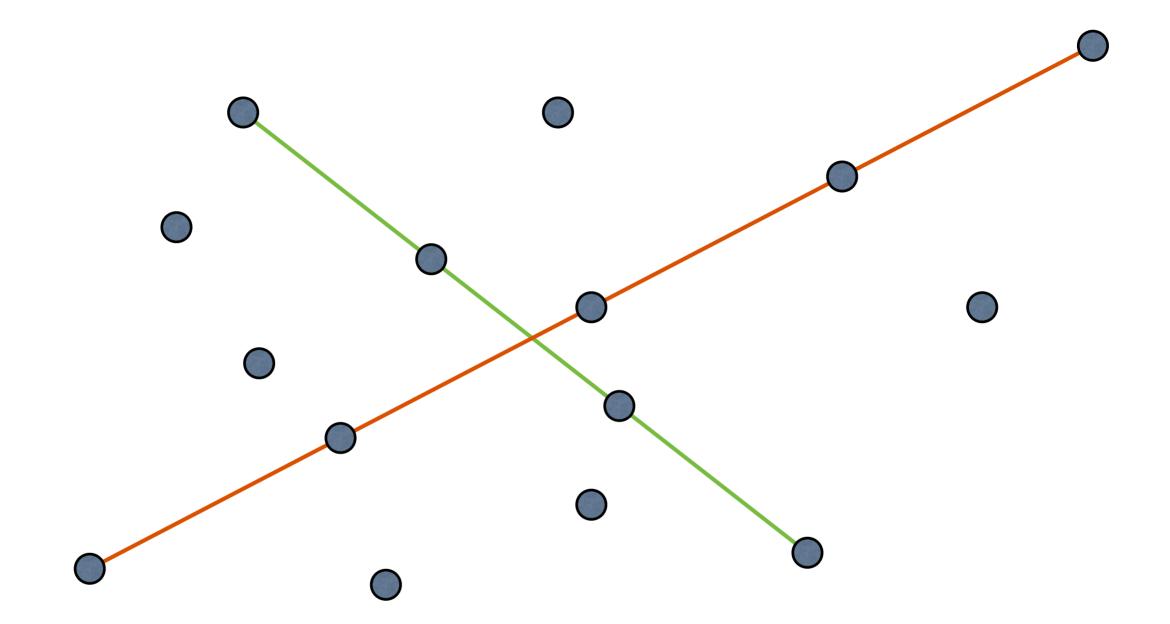




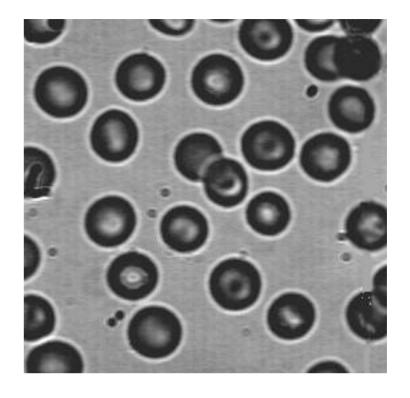




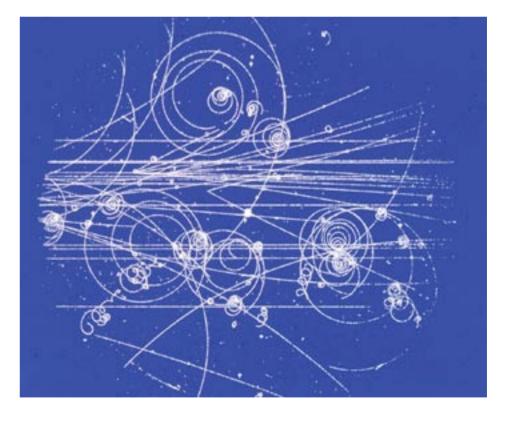




finding blood cells in images



finding sub-atomic particles in images



needles in haystacks

• Find features and create an index pointing to the *documents* that have the relevant features.