



# 2018: the ImageNet moment in NLP

- ULMfit, ELMo, GPT, Flair, BERT
- Pre-trained monolingual models
  - Dutch/English/French/...
- Multilingual models
  - mBERT/mFlair



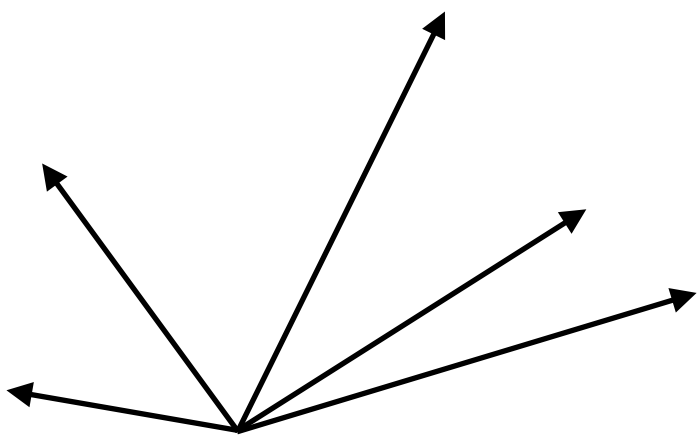
CamemBERT

contextualized vectors



BERTje

flair







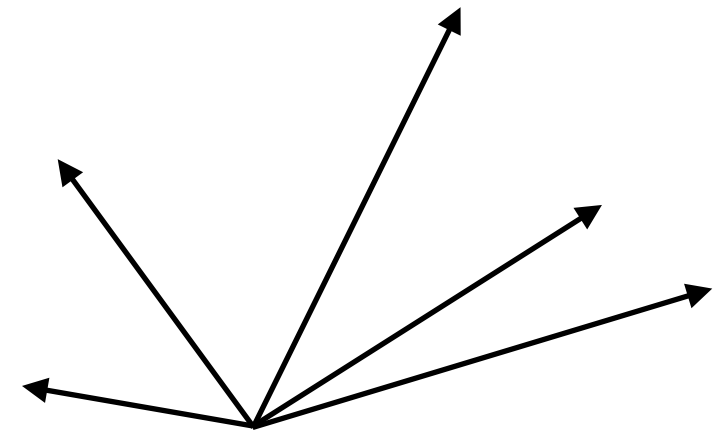




# Contextualized word vectors

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flair



CamemBERT



BERTje

# Research problem

