

# Are the tides turning for microservices?

Tracking the adoption of microservices in developer  
communities through sentiment analysis

# Is there are trend in developer communities towards or against the usage of microservices?

- Identify and collect relevant developer communities (SO, Reddit, X, Issue Trackers, Mailing Lists...)
- Use Sentiment Analysis to identify positive or negative sentiment towards the topic microservices
- Compare datasets from different time frames to see whether there is a trend
- Identify possible reasons (entity detection) in negative/positive comments

# Challenges

- Is there enough data we can use?
- Is the data relevant (several communities required)
- Do existing language models work well for software related tasks?
- Will we find something?

# Step 1: Is there (good) enough data?

- Investigate some developer communities regarding the following aspects:
  - Metadata (timestamp, tags)
  - Possibility to collect them in an automated way (API, web scraping)
  - do they contain any positive or negative sentiments at all?
- Manually try to classify some examples
- Get a feeling which communities are better suited for the task
- Compare manual results with some LLMs, NLP models
- Check how data can be preprocessed to create better results