





# Project Introduction

## Your Project for the Week

### Goal:

Write software that captures and processes a stream of real-time, dynamic data and turns it into something useful, e.g. a slackbot that sends periodic updates.  → 

- Manage and run an entire data stream / “pipeline”, where each component of the pipeline is its own, isolated “microservice” managed by Docker Compose. 🤖
- In simpler terms: Run a complex, interconnected piece of software (composed of 5 individual moving parts) in such a way that all components run continuously and talk to each other, and the whole pipeline can be launched (and stopped) with a single command. ☀️

### Data:

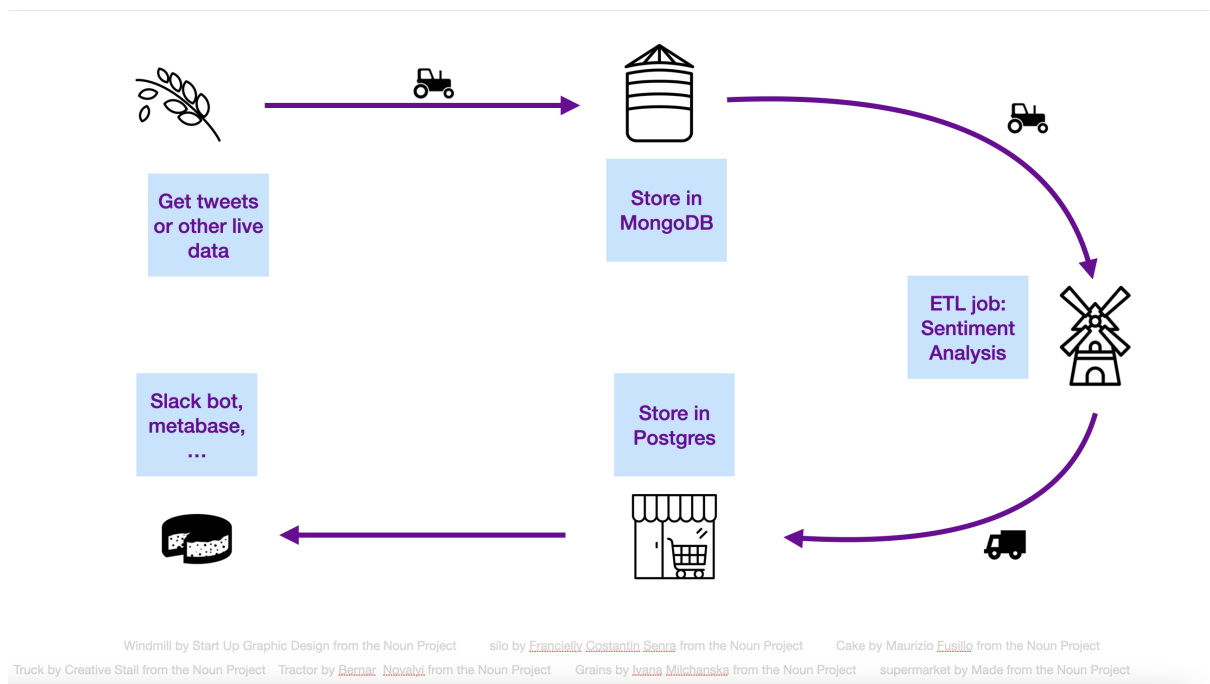
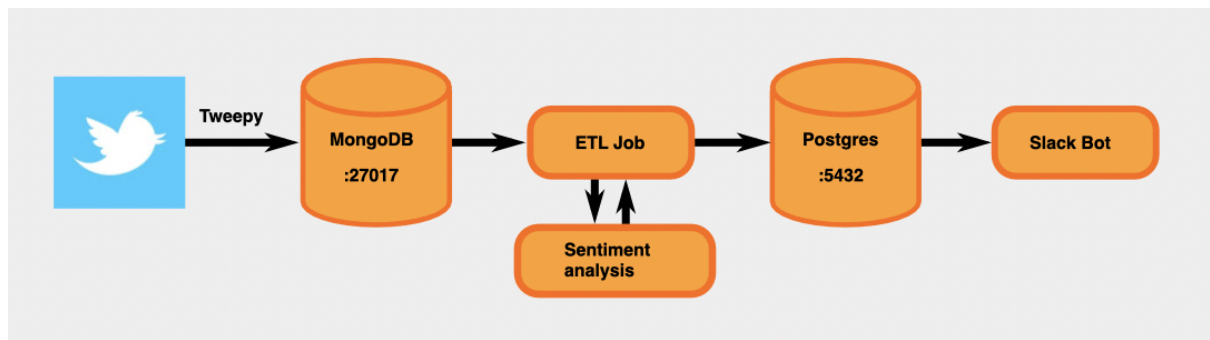
- Your API of choice!
- Probably twitter, but you can use others as well.

### (A lot of) New concepts this week:

- APIs
- Docker/Docker Compose
- MongoDB
- ETL (Extract-Transform-Load)

- Sentiment Analysis

## Your Workflow for the Week



Windmill by Start Up Graphic Design from the Noun Project    silo by [Francielly Costantin Sampa](#) from the Noun Project    Cake by Maurizio Fusillo from the Noun Project  
 Truck by Creative Stall from the Noun Project    Tractor by [Barnar Novak](#) from the Noun Project    Grains by [Ivana Milchanska](#) from the Noun Project    supermarket by Made from the Noun Project