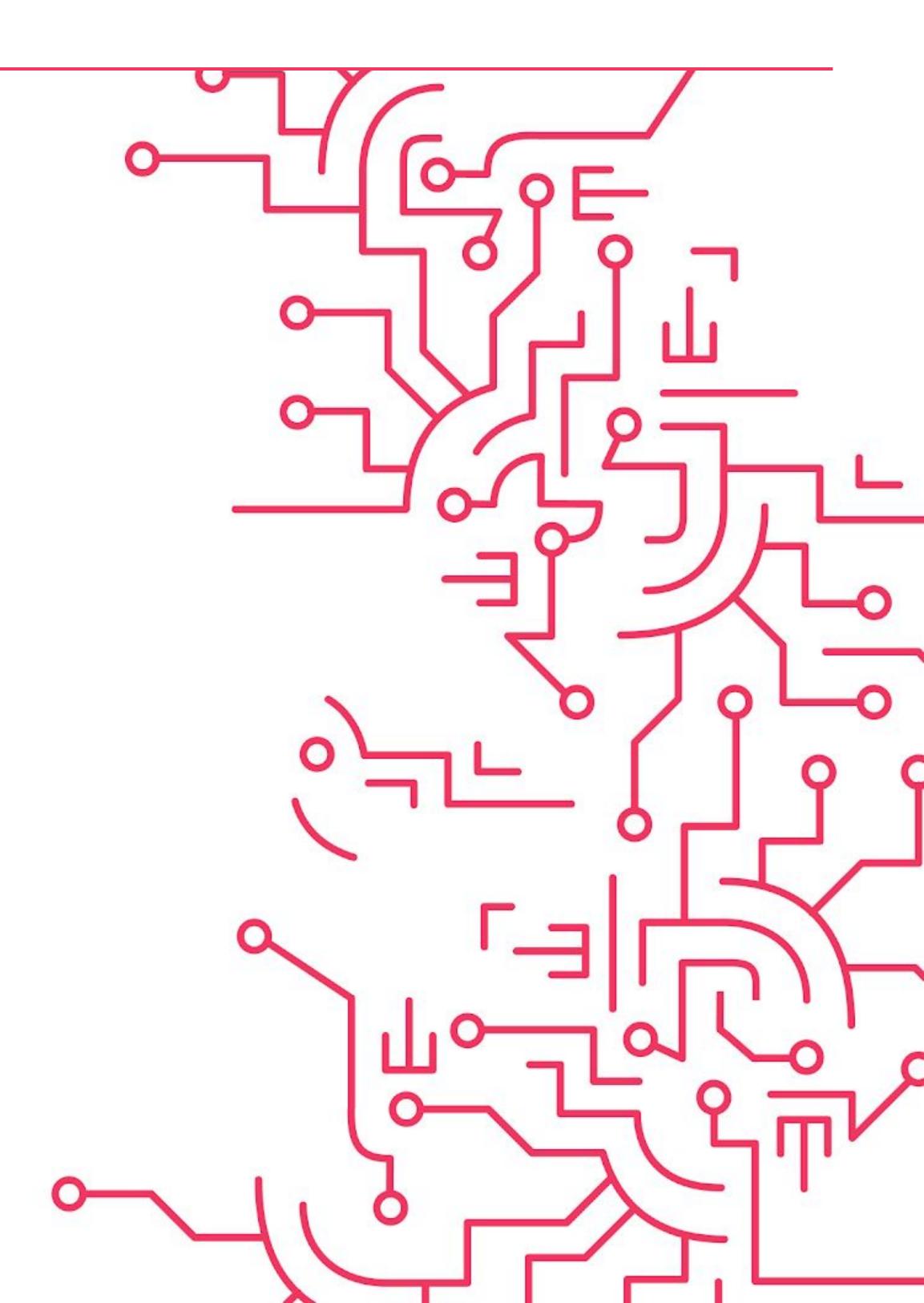




Development of interactive platforms for city modeling and digital twins using React and MapLibre

Sebastian Lopez - Walter Shilman



Schedule Agenda





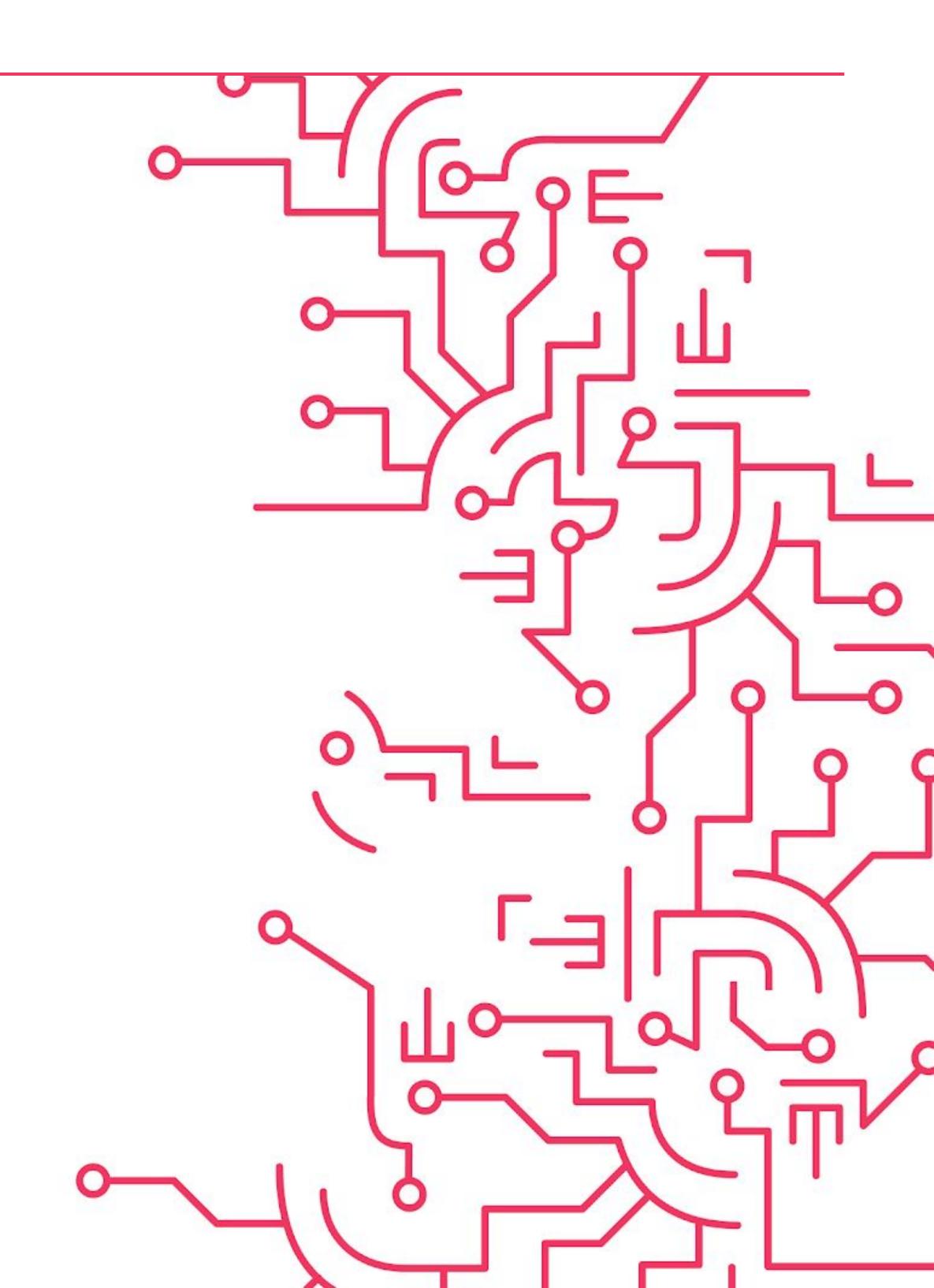
- Introduction
- State of the art of Digital Twins
- Types of data (Mesh, Raster, Vectorial, DEM, IFC, b3dm)
- Architecture of the Map Viewer
- Installing requirements
- Building your project
- Setting up the development workspace
- Code inspection and code detail

- Q&A
- Experiences working with Mesh data for Maplibre
- Quick look at a project using Mesh and "Termo"
- Setting up Backend workspace
- Inspecting docker-compose.yml
- Deployment of the Tile Server
- Preparing your data
- Connection between frontend mapviewer and local map server





Introduction

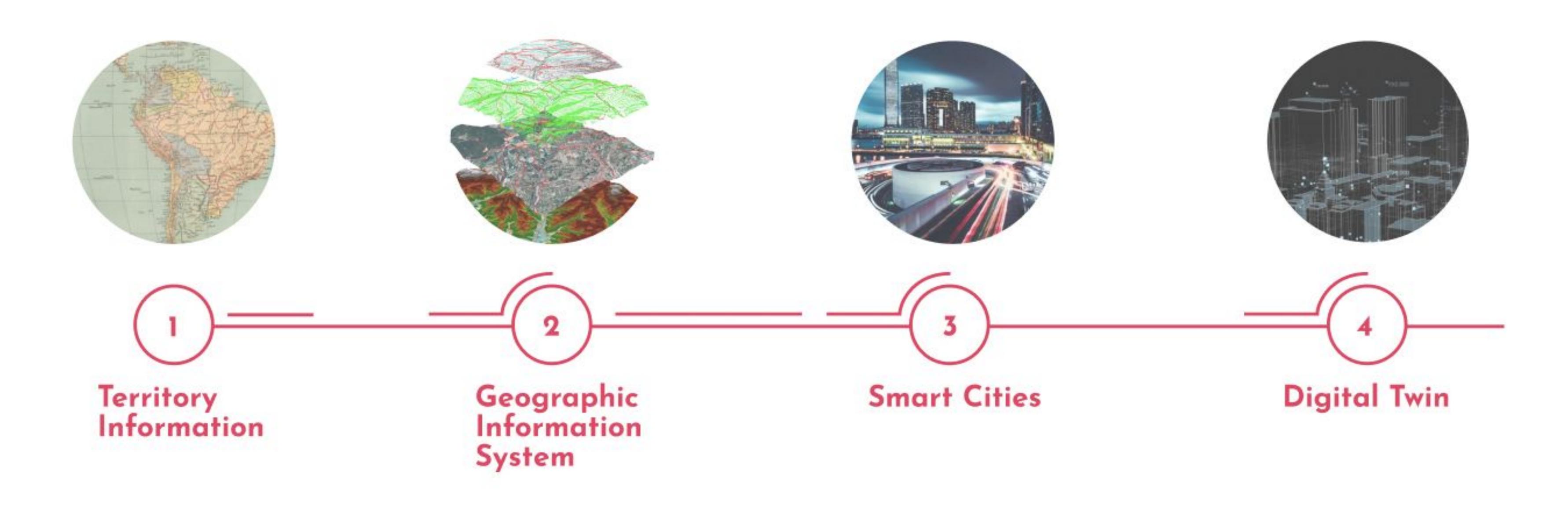


State of the art of Digital Twins





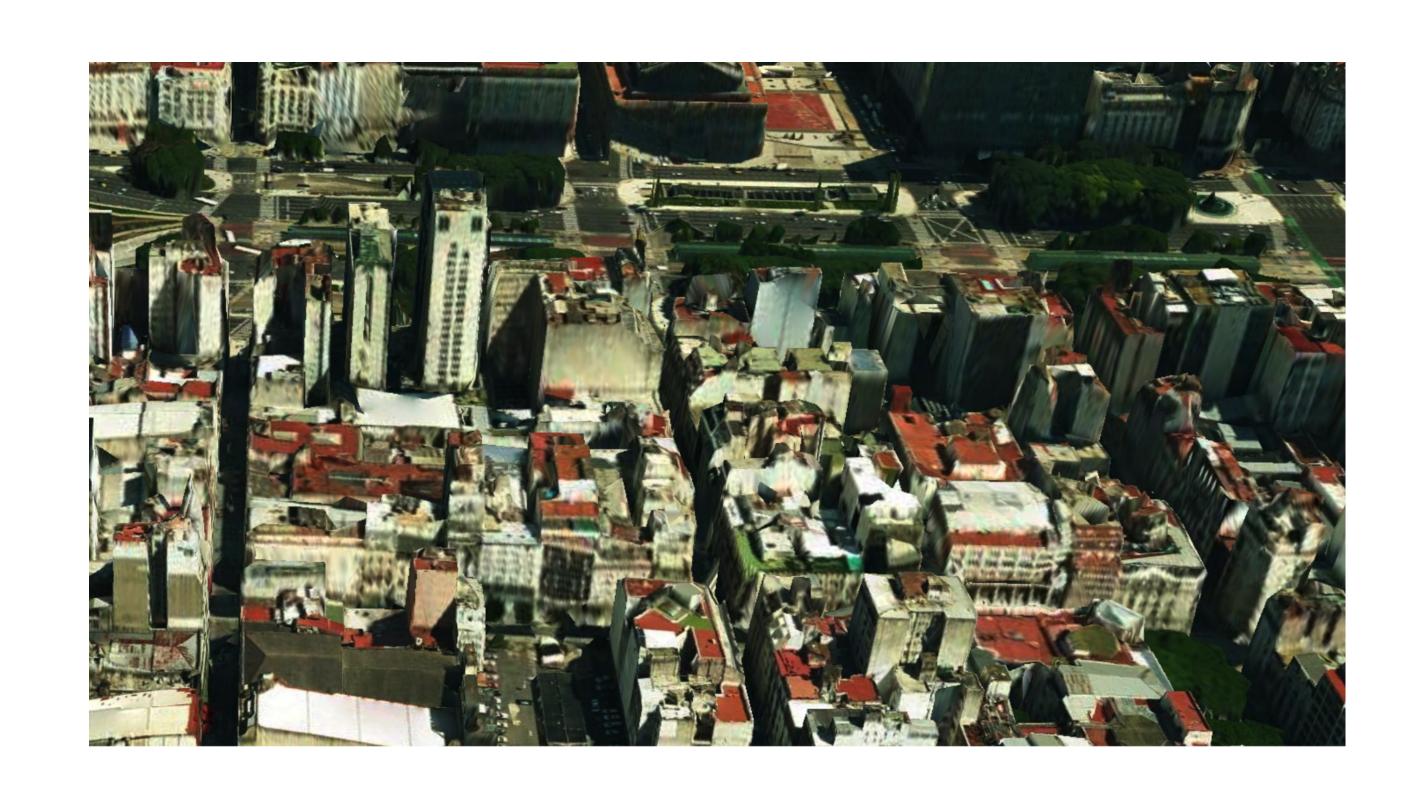
Evolution of user's requirements



Types of data







Mesh



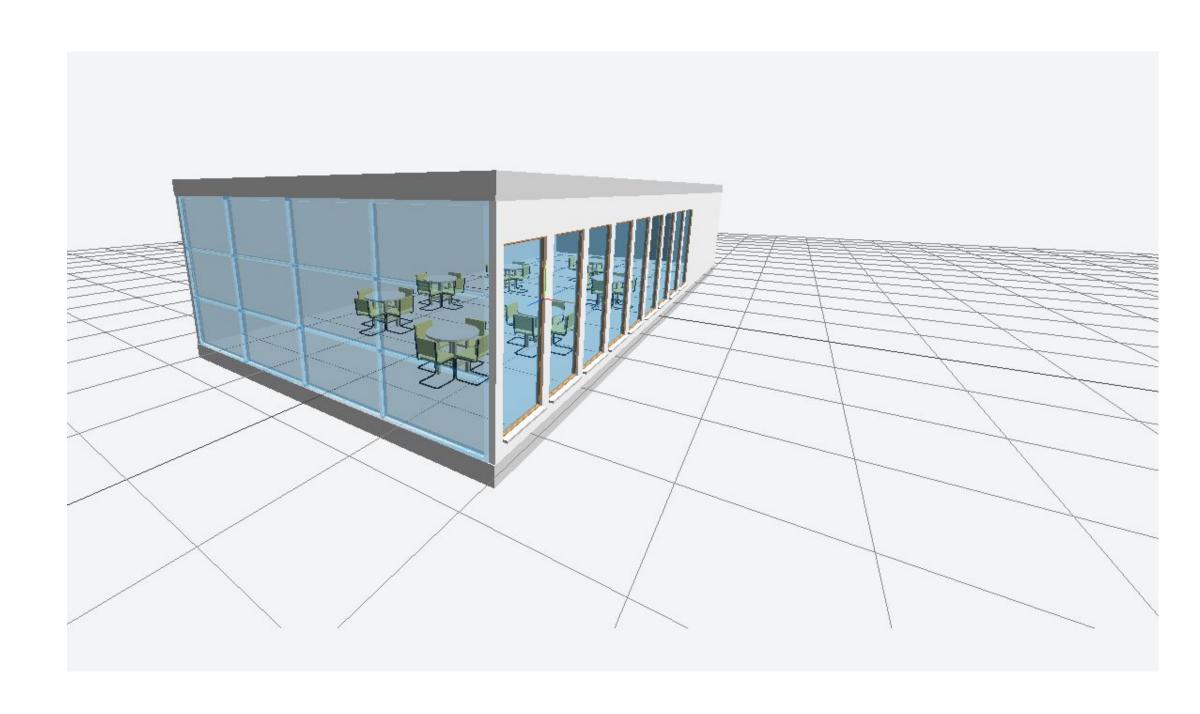
Raster



Vector



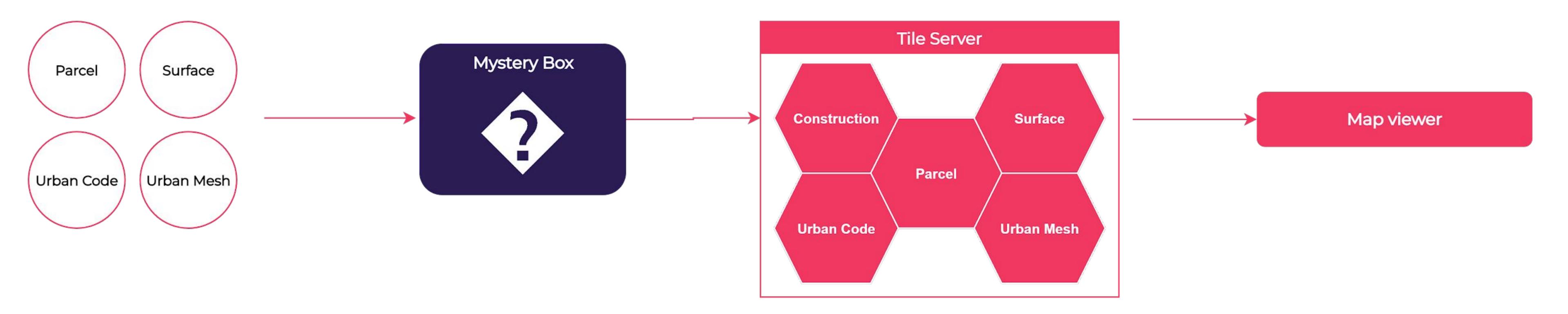
DEM



Architecture of the mapviewer







Installing requirements







Version control system



IDE VSCode



Node JS

Building your project





- Setting up develop workspace: apps, libs, dependencies, repositories
- Code inspection and code detail

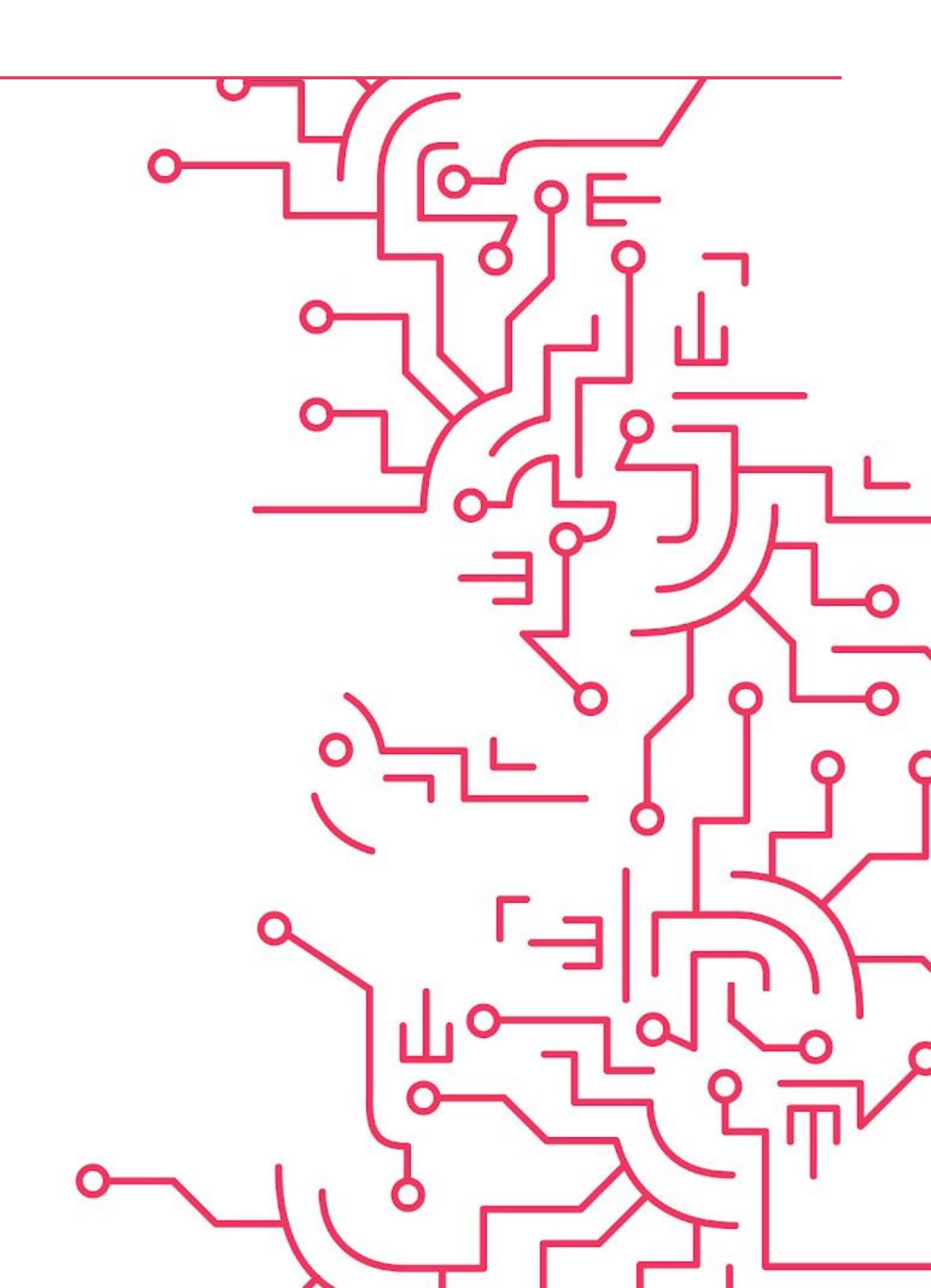








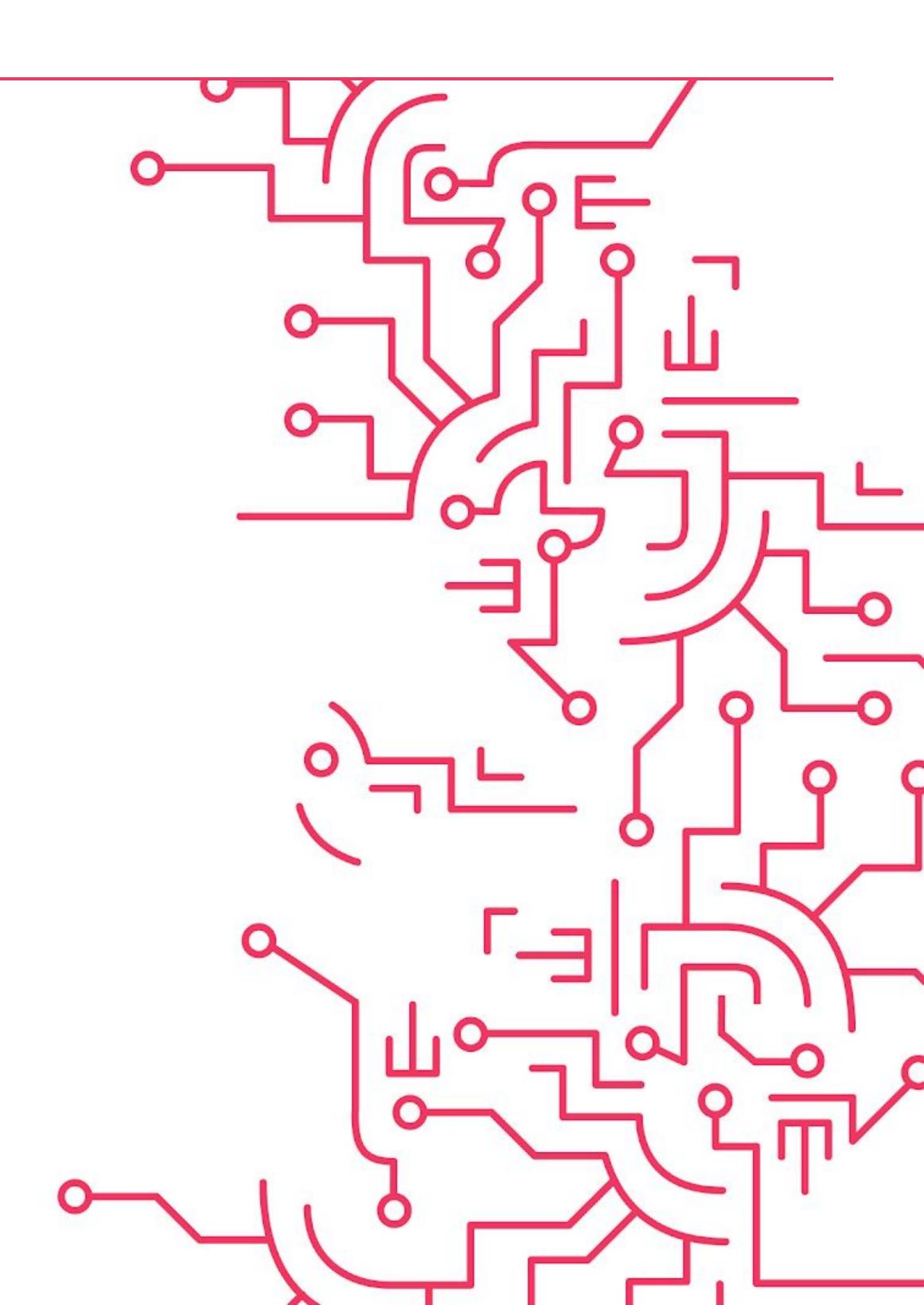
Q&A







Experiences working with Mesh data for Maplibre



Quick look at a project using Mesh and "Termo"





Live DEMO Mesh and Termo project

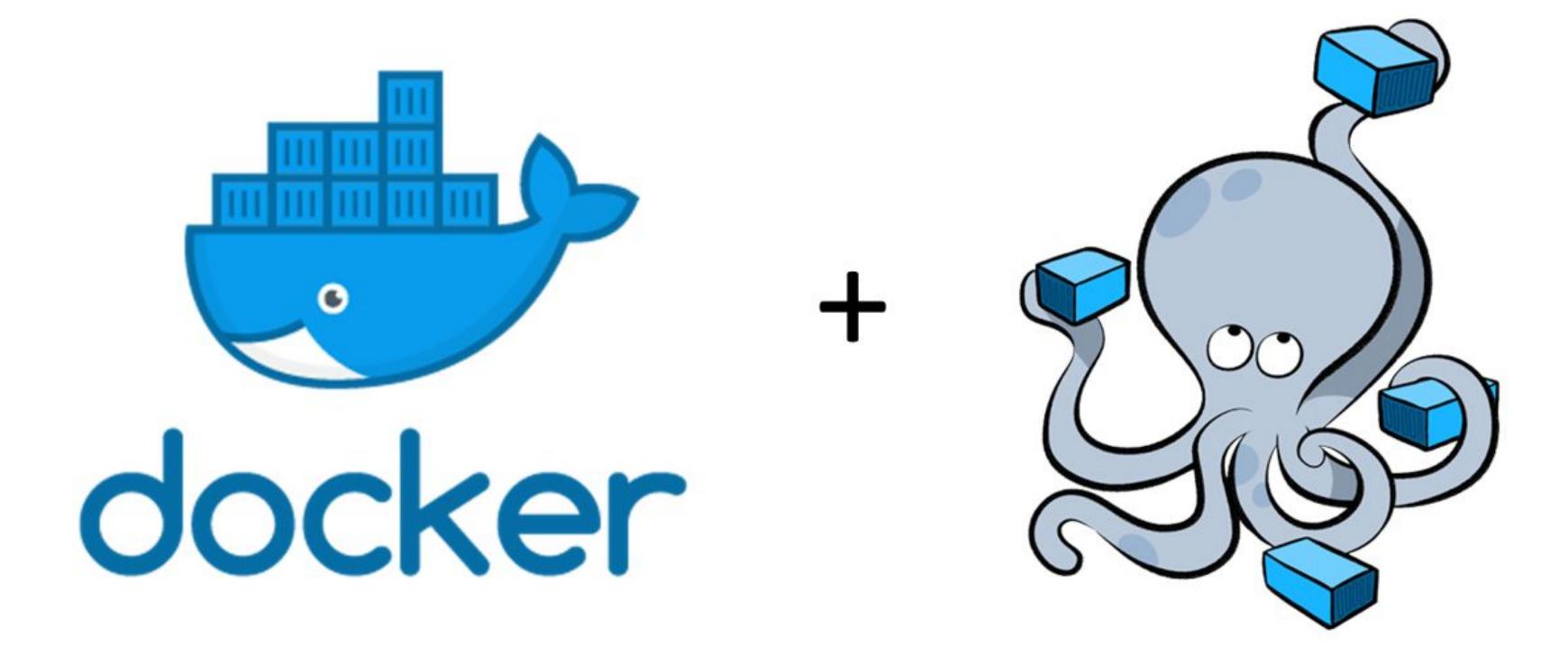


Setting up Backend workspace





Installing requirements



Docker

Docker Compose
(only for linux)

Inspecting docker-compose.yml



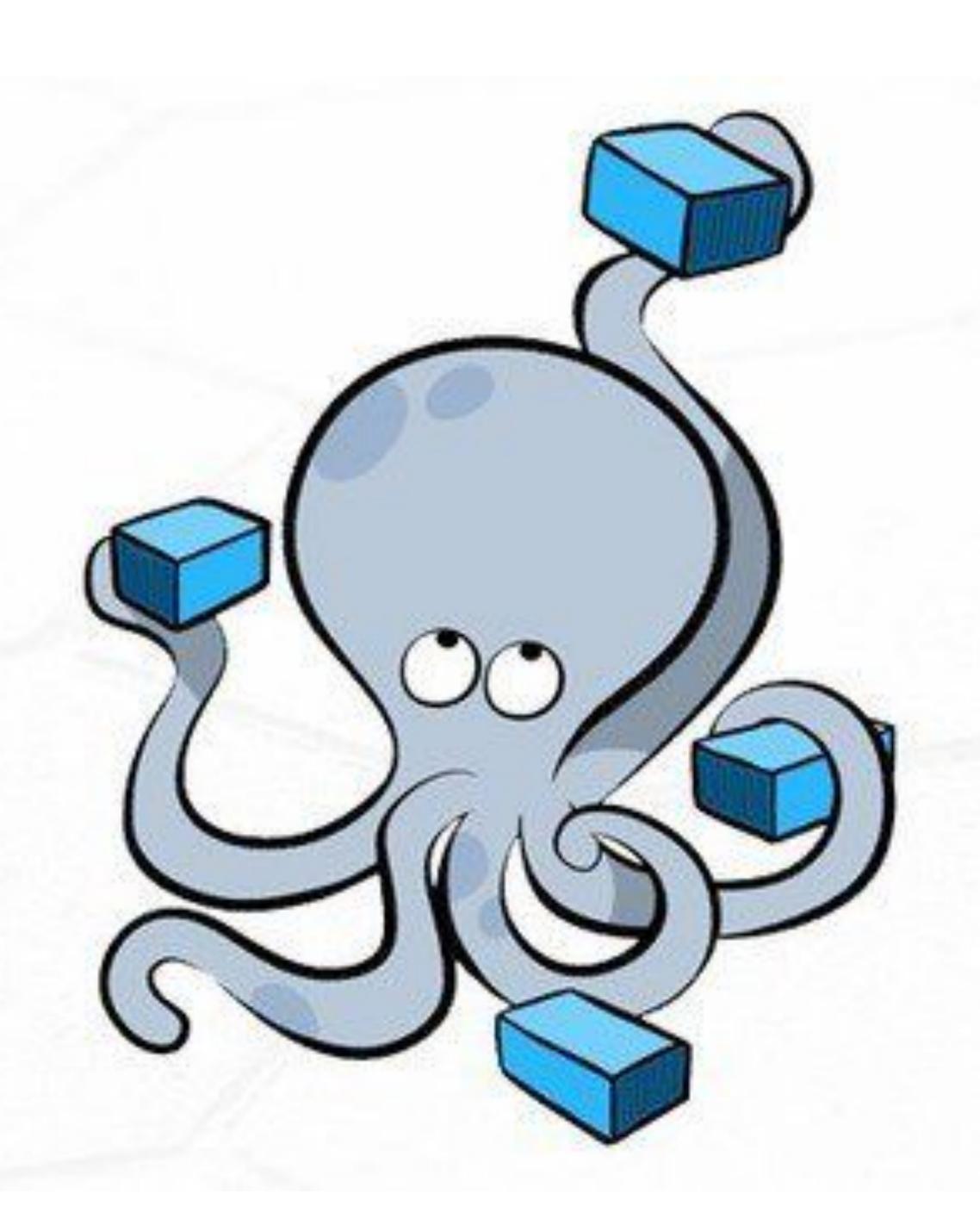


```
version: "3.4"
services:
  tileserver:
    image: maptiler/tileserver-gl
   volumes:
     - "./data:/data"
   command: ["-p", "80", "-c", "/data/config.json"]
    ports:
    - "81:80"
```

Deployment of the Tile Server







```
version: "3.4"

services:
    tileserver:
    image: maptiler/tileserver-gl
    volumes:
        - "./data:/data"
    command: ["-p", "80", "-c", "/data/config.json"]
    ports:
        - "81:80"
```

\$ docker-compose up

Preparing your data







config.json





Thanks!

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