AMR-TV introductory slide deck

as of March 2025

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Installation

Requirements:

- Basic familiarity with a command line interface
- Basic familiarity with Github
- Docker

Other than that, two simple steps:

- 1) Clone the repo and adaptagrams submodule:
- \$ git clone git@github.com:ivansg44/AMR-TV.git amr-tv --recurse-submodules
- 2) Build the docker image:
- \$ docker-compose build (may take a long time)

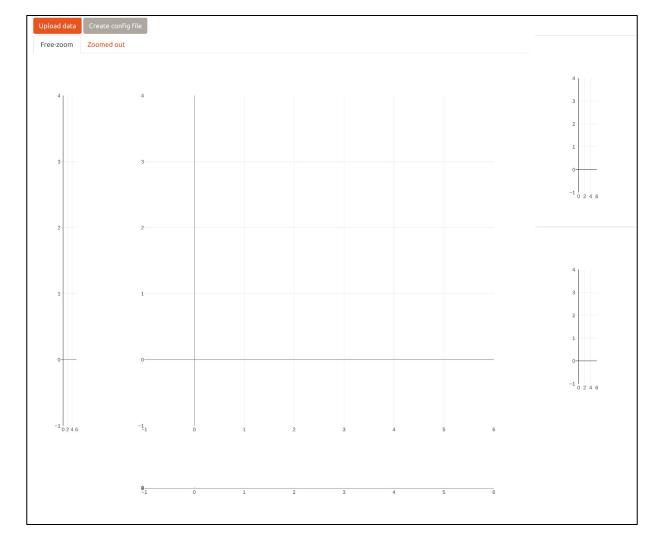
Launching the application

Pretty simple:

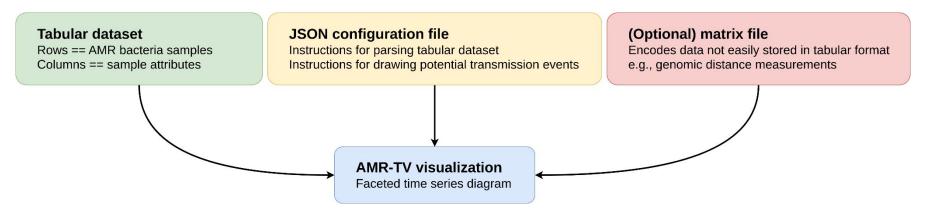
\$ docker-compose up

AMR-TV will be available at http://0.0.0.0:8050/

(see next slide for what launch page should like)



Input data overview



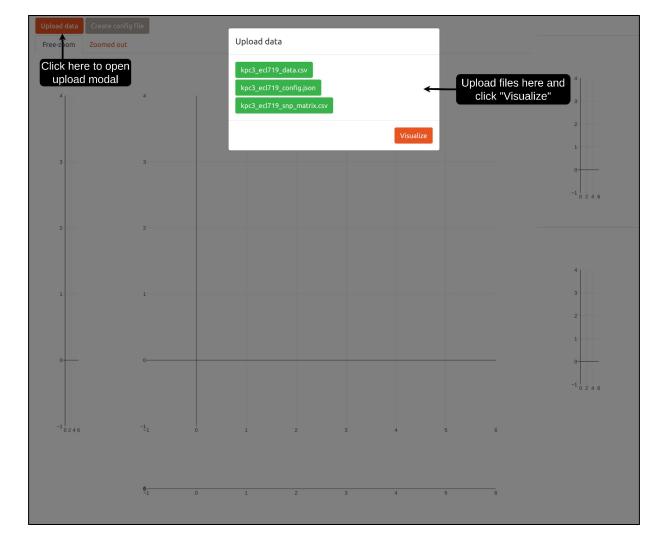
Example data files are available in the kpc3_data/ folder of the AMR-TV repo

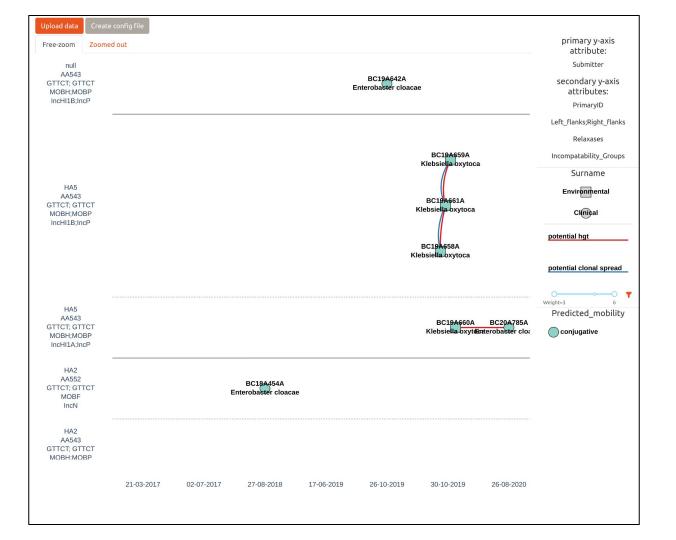
These files describe KPC bacteria sampled across British Columbia, Canada

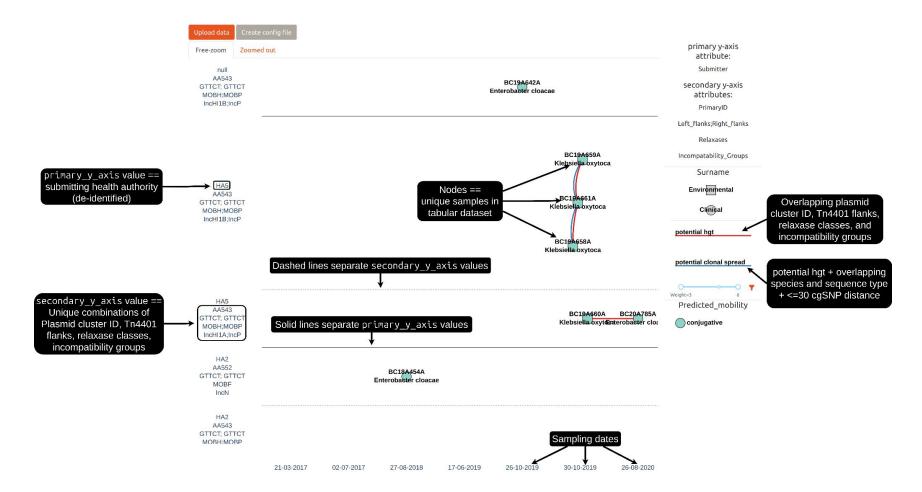
Inputted together:

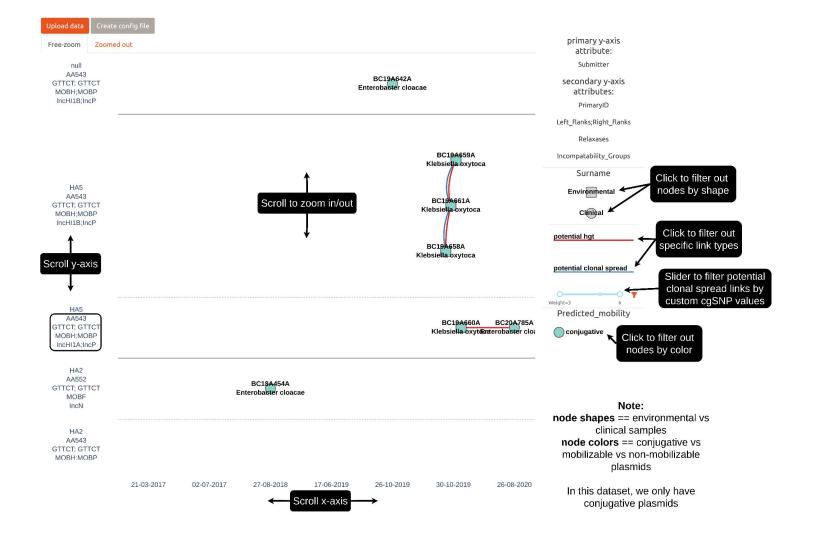
- kpc3_data.csv, kpc3_config.json
 - Large dataset of KPC bacteria across multiple MLST
- kpc3_{MLST}_data.csv, kpc3_{MLST}_config.json, kpc3_{MLST}_snp_matrix.csv
 - Several smaller datasets for KPC bacteria with a specific MLST

Uploading KPC3 ecl719 data

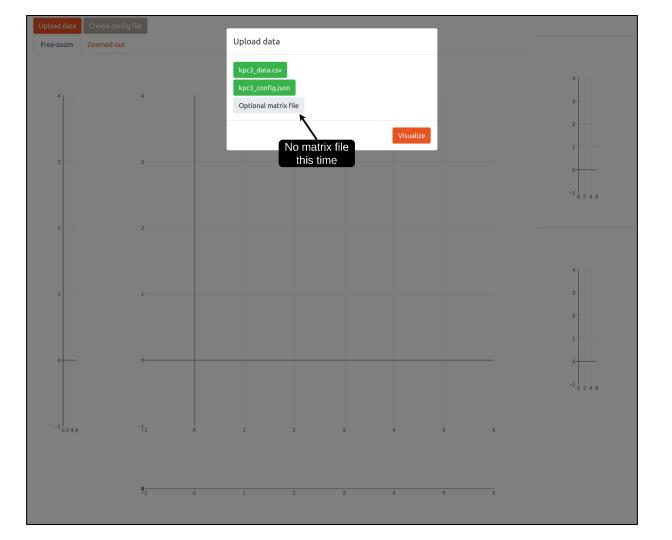


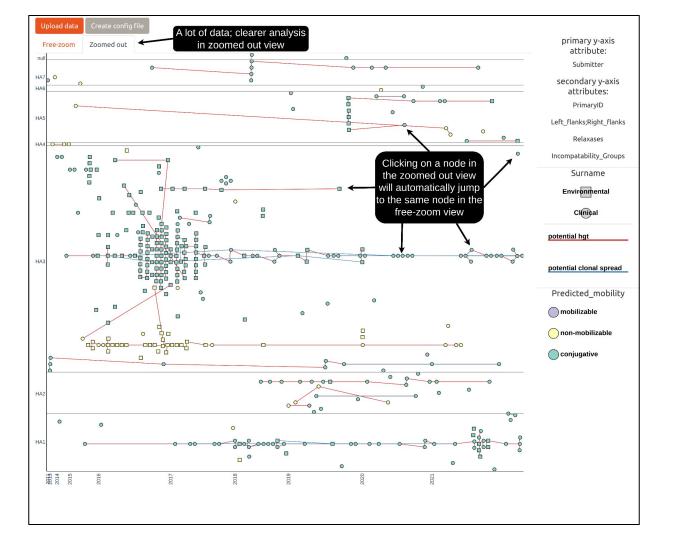






Uploading multi-MLST KPC3 data





Generating config files

Standardized JSON vocabulary

You can use the "create config file" modal to help generate a config file

 Requires an existing tabular dataset to generate the correct vocabulary

Multiple "Help" buttons to guide you through the process

