Hot plots

Visualizing Brno temperature data

https://github.com/hot-graphs/hot-plots-gtk

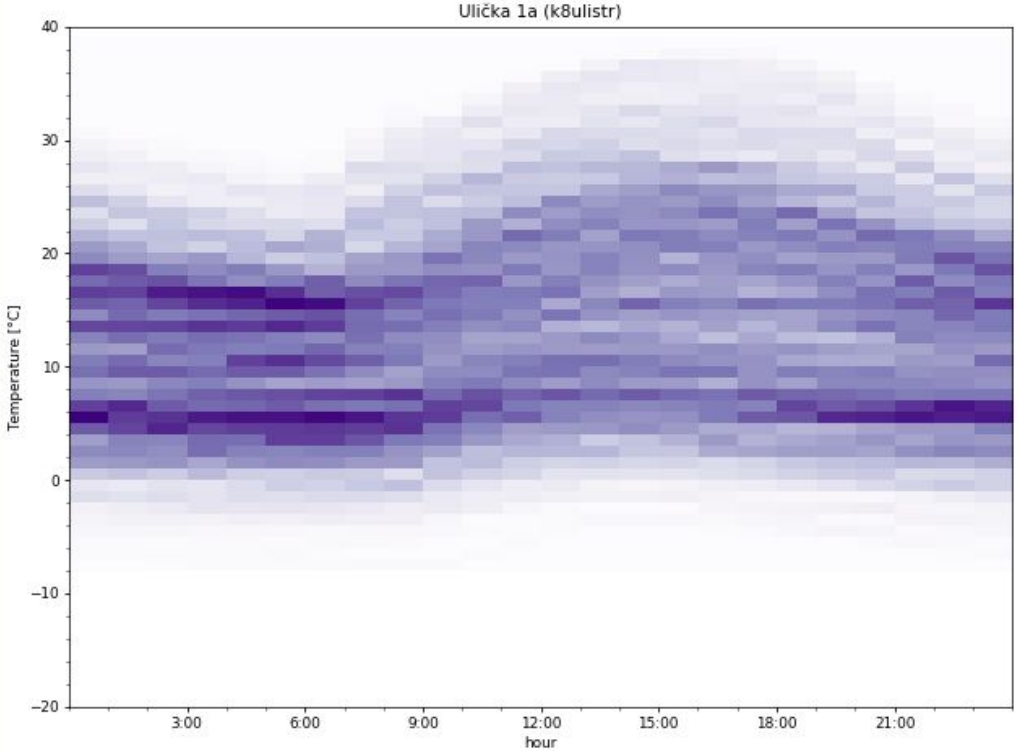
What?

- **Exploration** and **visualization** tool for Brno temperature data
- **Interactive** user application + **library** with documented API
- **Extensible** data set

Hot Plots

Compare | Single

Choose on Map



Address | Filters

Files

- Kamenný Vrch
- Kohoutovice
  - Vaňhalova 1a
  - Vaňhalova 1a
  - Richtrova 5a
  - U Velké ceny 10a
  - Bellova 38a
  - Bellova 38a
  - Bellova 38a
  - Bellova 38a
  - Bellova 38a
  - Axmanova 12a
  - Pavlovská 5a
  - Voříškova 33a
  - Libušino údolí 154a
  - Ulička 1a
  - Axmanova 12a
  - Axmanova 12a
  - Axmanova 12a
  - Axmanova 12a

X axis: hour

How?

- Huge dataset parsed => 4D histograms
  - Year, month, hour, temperature
  - => physt library
- Visual representations
  - Histograms
  - Filters on sensors, meta-data, time periods, ...

Example: **Greenery**

Does the amount of greenery affect the temperature?

- **Data source:** OpenStreetMap shapes of green areas
- **Metrics:** How many surrounding points are green? **(naive!)**

...demo time...