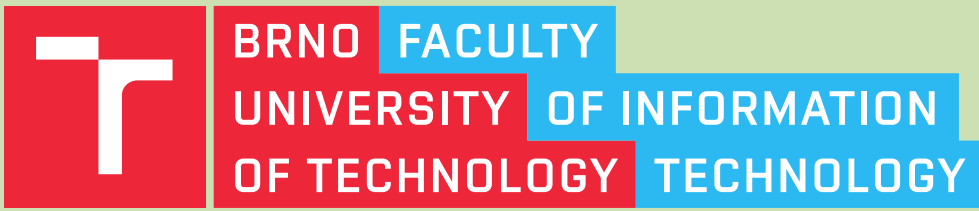# Tool for rendering maps with traveled routes

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Motivation

- Custom large-format high-resolution maps
- For decoration or as a signpost
- Showcase your athletic performance through traveled routes

Figure 1: Example of the result usage.

Usage

1. Area and paper selection

- Area by name or coordinates
- Paper size in millimeters
- Automatic paper ratio based on area

Figure 2: Example of an area selected by name.

2. Traveled routes upload and styling

- Routes in GPX format
- Use the default style or create your own

Figure 3: Area with a GPX route.

3. Map elements and design

- Choose from the available map designs
- Select elements and adjust their size
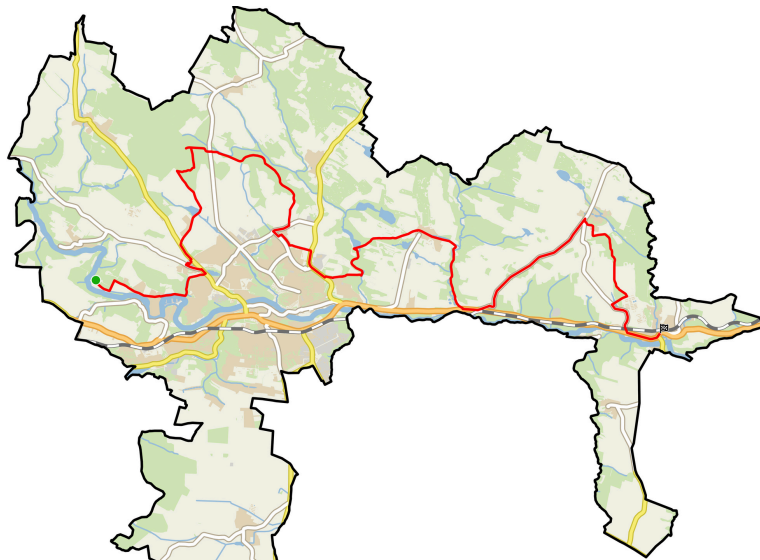- Or leave it to automatic selection based on area and paper size

Figure 4: Map with styled elements.

4. Rendering

- Create a full map or a quick preview
- Rendering with GeoPandas and Matplotlib on a Python server
- All map settings on the frontend, using Svelte.
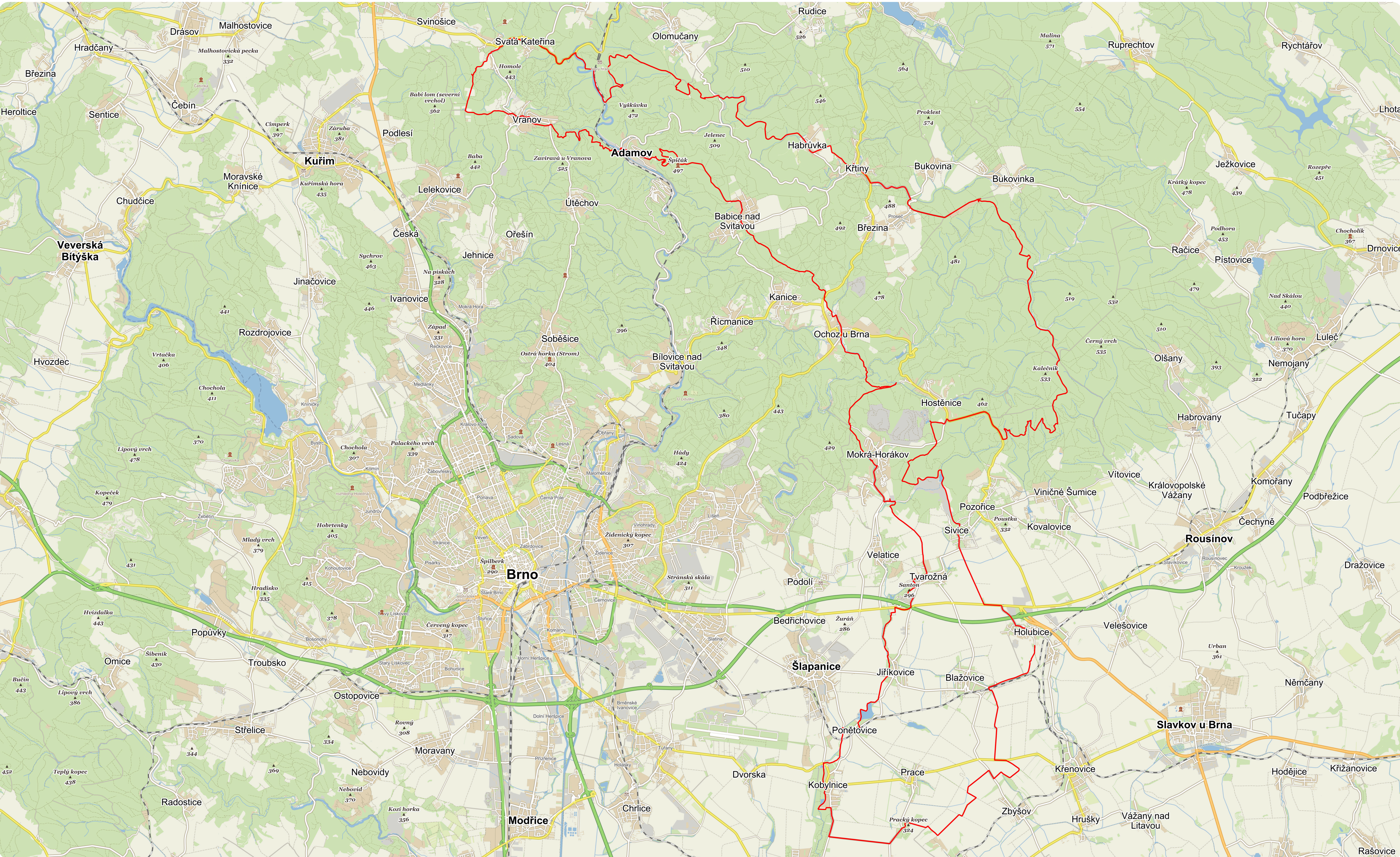- Use OpenStreetMap datasets

Results

Figure 5: Map result with GPX route and mapycz selected style.