An Online Corpus of Isochrone Maps
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1. CONTEXT AND CONTRIBUTION

Isochrone maps depict destinations that can be reached within a time range (e.g. 5min). Such maps are popular in GIS tools and on mobility websites as they are intuitive for non-technical people. Using isochrones, urban decision-makers can visually capture the coverage of transit systems, and spot difficult to reach areas. City inhabitants can use them to find living areas that are close to work, daycares, or other personal preferences.

We present a web-based corpus of isochrones maps we collected, to identify their design space. While isochrones are constantly improved to support new tasks (e.g. to display time-varying mobility data [1], or support multimodal networks characteristics [2]) the breadth of their design space (e.g. color scales, color gradients, steps, data types) still needs to be better understood. We built this corpus from diverse sources including Google Image, GIS websites, isochrones toolkits galleries, digital libraries, and personal collections. We gathered 52 isochrone maps (and counting). We then sanitized the dataset by removing redundant representations and un-related ones, to keep 37 representative isochrone maps.

The corpus is available online as a faceted search website¹. The website allows filtering by properties such as color scale, color interpolation or any other metadata we identified (e.g. year, data source). In order to improve the...
We expect to continue this analysis and discussion during the CityVis’18 workshop and report on more advanced and statistics-supported findings from our isochrone corpus.

FOOTNOTES
[3] https://goo.gl/TX1gcp
[6] https://projet.liris.cnrs.fr/m2i/

REFERENCES