Photo in the City: Identifying the Color and the Theme of Instagram Photos Taken in Different Cities

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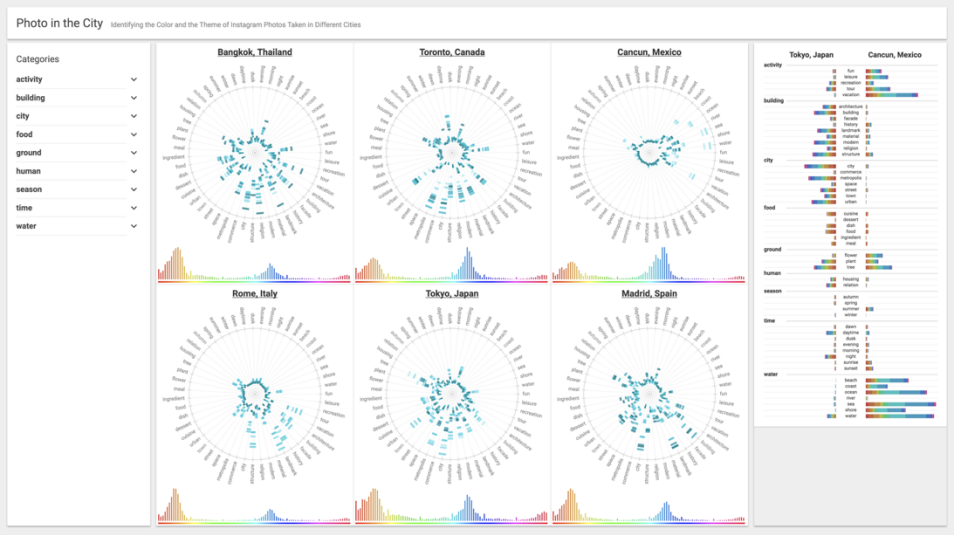

Figure 1: This visualization shows the theme and color distribution of Photos for each city in the selected category. A circular visualization shows that the cities' own topic characteristics, while a bar-shaped visualization describes the topic and color distribution between the two selected cities. (https://visprojects.hanu.io/pacificvis/photointhecity)

Abstract

We mainly focused on developing an interactive visualization system using photo data from Instagram. We collected photographs of major cities in six different countries uploaded between May 2017 and December 2017 on Instagram by searching with hashtags including country and city name (e.g. #TokyoJapan). We then used Google Vision API to extract information about the topics and colors that each photo contains.

A visualization technique enables users to figure out the difference of certain topics among cities and the distribution of colors in the data on particular themes for each city. Thus, the result of our visualization project would give proper answers to users who have questions such as "Are there any striking features in a city compared to others?" or "What is most dominant color in each city's photo data?".

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Keywords

Social Network Service Data Visualization, Interactive Visualization System.

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