Learning Deep Representations for Ground-to-Aerial Geolocalization

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- Presents the first general technique for the challenging problem of matching street-level and aerial view images and evaluated it for the task of image geolocalizaiton.

- Contributions:
  - Localizes a photo without using ground-level reference imagery by matching to aerial imagery
  - Presents a novel method to create a large-scale cross-view training dataset from public data sources
  - Examine traditional computer vision features and several recent deep learning strategies in novel cross-domain learning task

- Evaluates on new introduced dataset of pairs of Google street-view images and their corresponding aerial images