Supplementary file: Style-aware Mid-level Representation for Discovering Visual Connections in Space and Time

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1. Qualitative results: Date prediction (CarDb)

We first show qualitative examples of *accurate* date predictions on CarDb, organized per decade (8 in total). Most of these predictions are accurate to within a year.

Figure 1. **Best predictions per decade.** GT: ground-truth year, Pred: predicted year, and Error: absolute error in years.

We next show qualitative examples of *inaccurate* date predictions. Many of these errors are due to the car being too small (e.g., 1980s 3rd example), having atypical viewpoint (e.g., 1920s 1st example), being uncommon from that decade (e.g., 1970s 7th example), or resembling a vehicle from a different decade (e.g., 1990s 2nd example).

Figure 2. **Worst predictions per decade.** GT: ground-truth year, Pred: predicted year, and Error: absolute error in years.

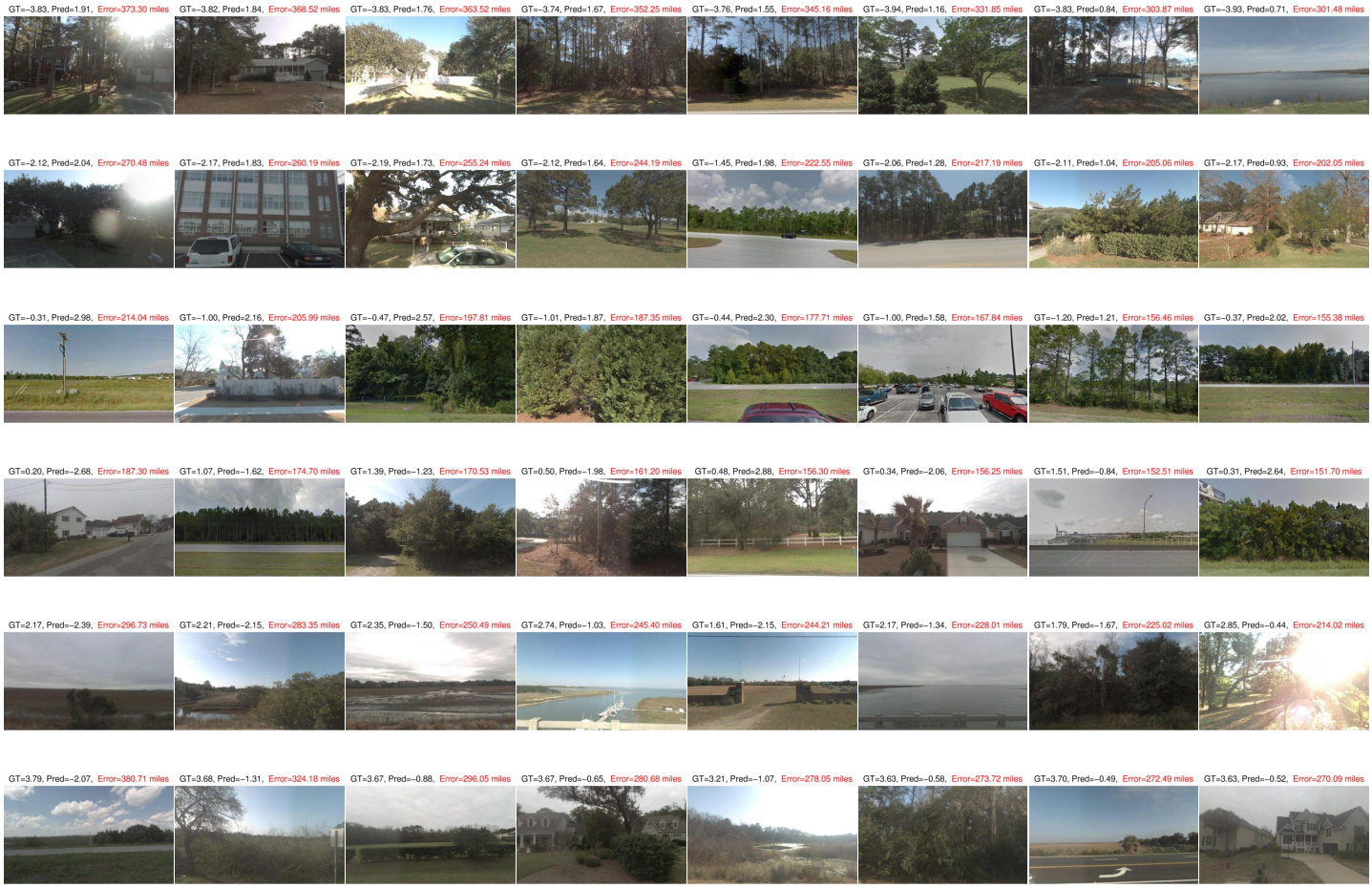
2. Qualitative results: Geo-location prediction (EDb)

We now show qualitative examples of *accurate* geo-location predictions on EDb, organized into six subareas. Recall that the total area of interest only spans 530 miles along the eastern coasts of North Carolina, South Carolina, and Georgia: thus, this is a very challenging task. Most of the predictions below are accurate to within a couple of miles.

Figure 3. **Best predictions per subarea.** GT: ground-truth 1D geolocation coordinate, Pred: predicted coordinate, and Error: absolute error in miles.

Finally, we show qualitative examples of *inaccurate* geo-location predictions. Many of the errors are due to the images lacking style-informative visual patterns (e.g., 2nd row 2nd example, 3rd row 6th example) or containing stylistic patterns that are more common in other subareas (e.g., 1st row 6th example, 5th row 1st example).

North



South

Figure 4. **Worst predictions per subarea.** GT: ground-truth 1D geolocation coordinate, Pred: predicted coordinate, and Error: absolute error in miles.