How Wind Affects Air Pollution in Beijing?

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1. Data Description

We use grids data in a range of 113.5-118.25,36.5-41.25(400 grids in all). These grid points have information about pollution and wind speed.

The fineness of the grid point is 0.25 × 0.25. The frequency of the data is 6 hours, including the entire 2015.
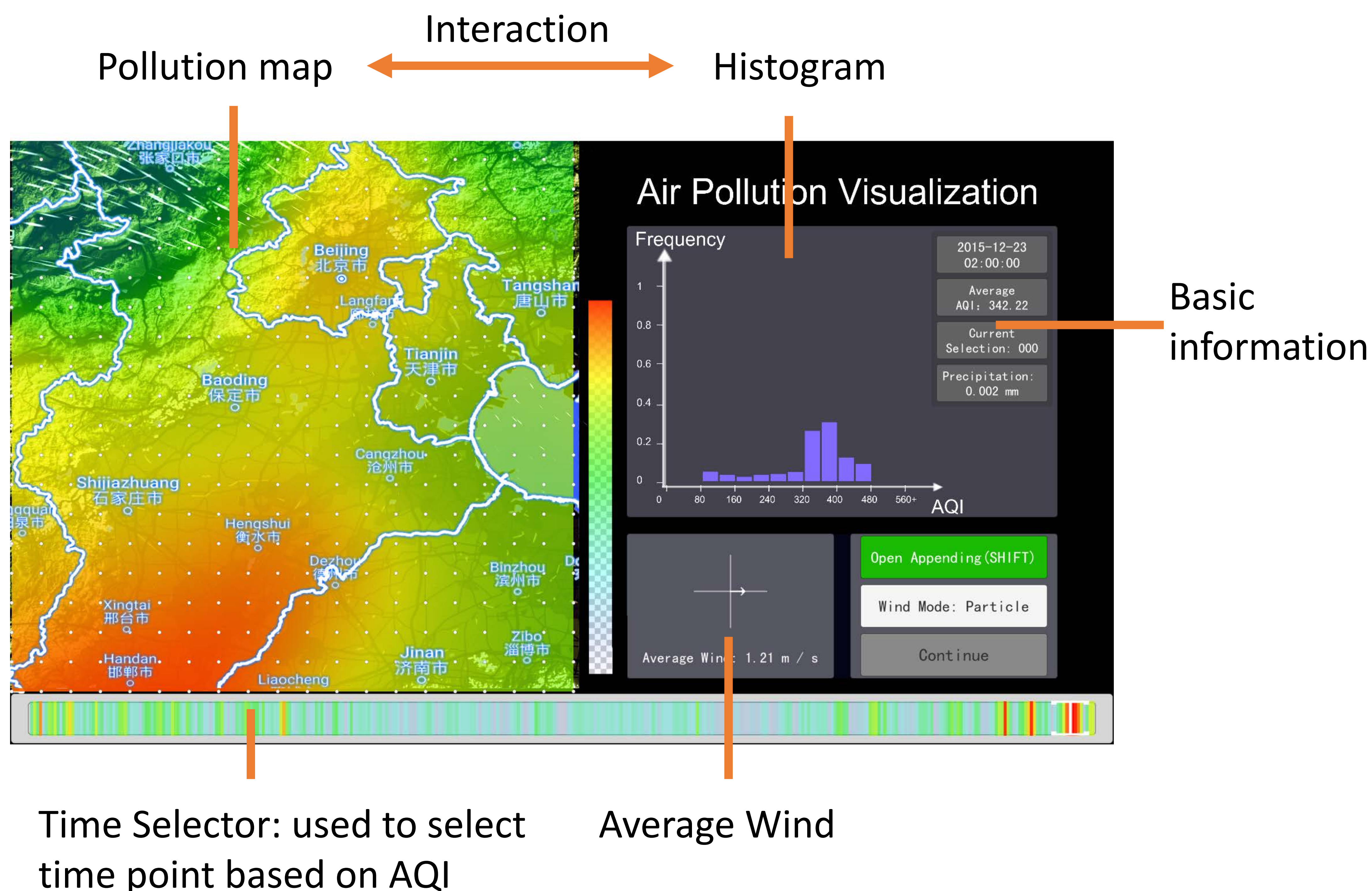
2. Data Analysis

We draw a pollution map, mapping air pollution to the color on the map. Red represent the amount of AQI.

And we use two ways to represent wind. A particles system and a wind vanes system.

3. Visualization Description

We developed a tool by Unity 3D.

Pollution map

Interaction

Histogram

Basic information

Time Selector: used to select time point based on AQI

Average Wind

4.Reference

[1]全国空气质量历史数据(Pollution DataSet) http://beijingair.sinaapp.com/
[2]ECMWF Wind DataSet http://apps.ecmwf.int/datasets/data/interim-full-daily/
[3]Unity 3D