PhotoCity

A game that harnesses the powers of everyday people and their cameras to reconstruct the world in 3D

You have to take a lot of pictures to build a 3D model of the entire world.

Reconstructing a city or school campus requires many different photos from many different angles. Everyday computer users can help us out, as long as we make it fun for them to collect data.

Many people you know have cameras, as well as access to the internet.

We can create 3D models of places where no Google Street View Car can go.

The game guides people to fill in holes in existing models, as well as expand them.

How do you play?

Capture flags for your team and conquer buildings for yourself!

Look for flags on our map at our website, or on our iPhone app.

Go outside and take pictures of buildings where the flags are.

Add pictures to flags on our website or through our iPhone app.

How does it work?

Using computer vision developed at the UW CSE Department, we can construct a 3D model from 2D pictures. People can complete existing 3D models of buildings, and even reconstruct a new building.

Website and iPhone App

Join and play!

http://photocitygame.com

Kathleen Tuite
ktuite@cs.washington.edu

Dun-Yu Hsiao
dyhsiao@u.washington.edu

Nadine Tabing
nadine@cs.washington.edu

Sylvia Tashev
sylvia@cs.washington.edu

Zoran Popović
zoran@cs.washington.edu

Noah Snavely
snavely@cs.cornell.edu

PhotoCity Website

PhotoCity iPhone App

PhotoCity Collection of Photos

3D Model