

CS/INFO 4154:

Analytics-driven Game Design

Class 26:

Ubiquitous Gaming

Mon

Wed

Fri

10/25
Ubiquitous Gaming

10/27
Friends Release 1

10/30
Friends Release 2

11/1
Friends Release 3

11/3

Friends Release Report due 10:10am

Friends Release

- Requirements
 - *Smooth progression* of nine* tasks
 - Tutorials
 - Music
 - Sound
 - Logging

* Negotiable; “task” definition depends on your game

Friends Release Report

- Instructions on website
- Due **BEFORE CLASS** by 10:10am on Friday 11/3
- Academic Integrity:
 - **It is expected that all players are real players**
 - Exception: accidentally testing your game with logging active
 - OK if it happens a couple of times
 - If there is a recording problem, *please let us know*

Today

- How can analytics help us understand a major shift in video games?



Outline

- Research on *Pokémon GO*
- What makes a location-based game work?
- The impact of “ubiquitous gaming”
- Open office hours

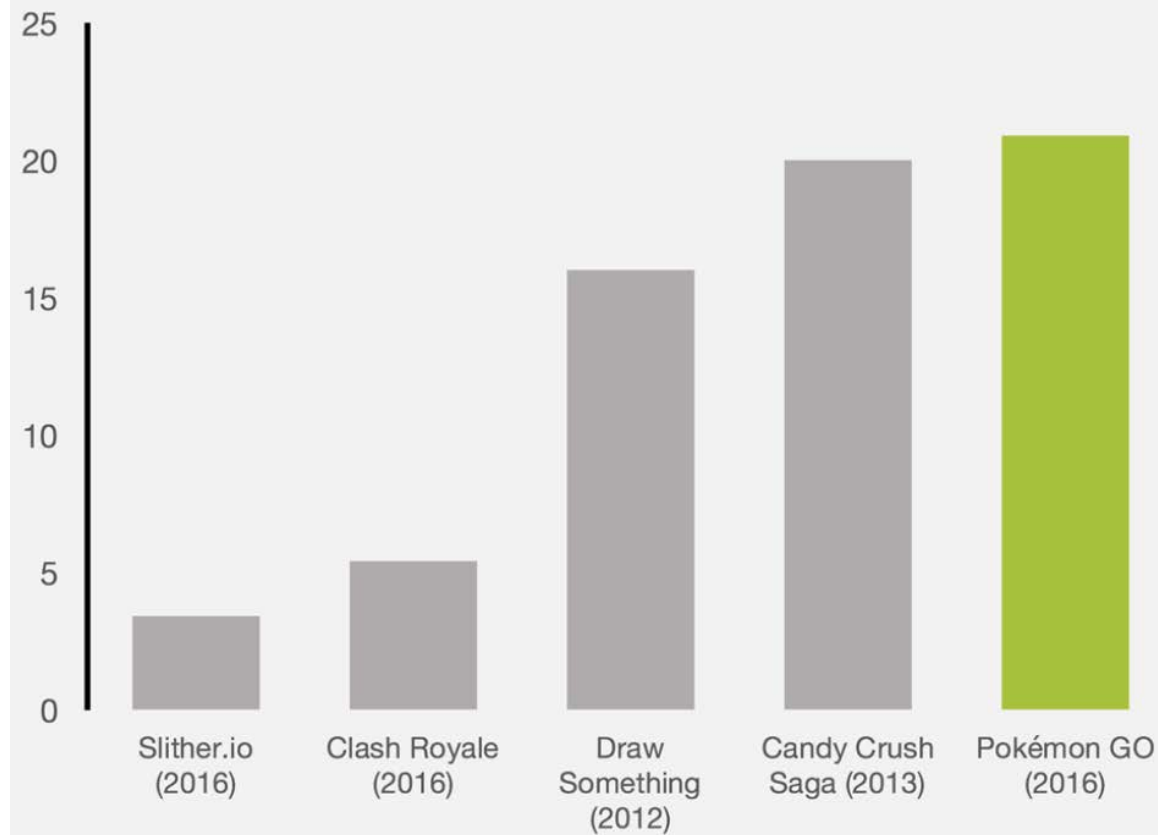
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Pokémon GO

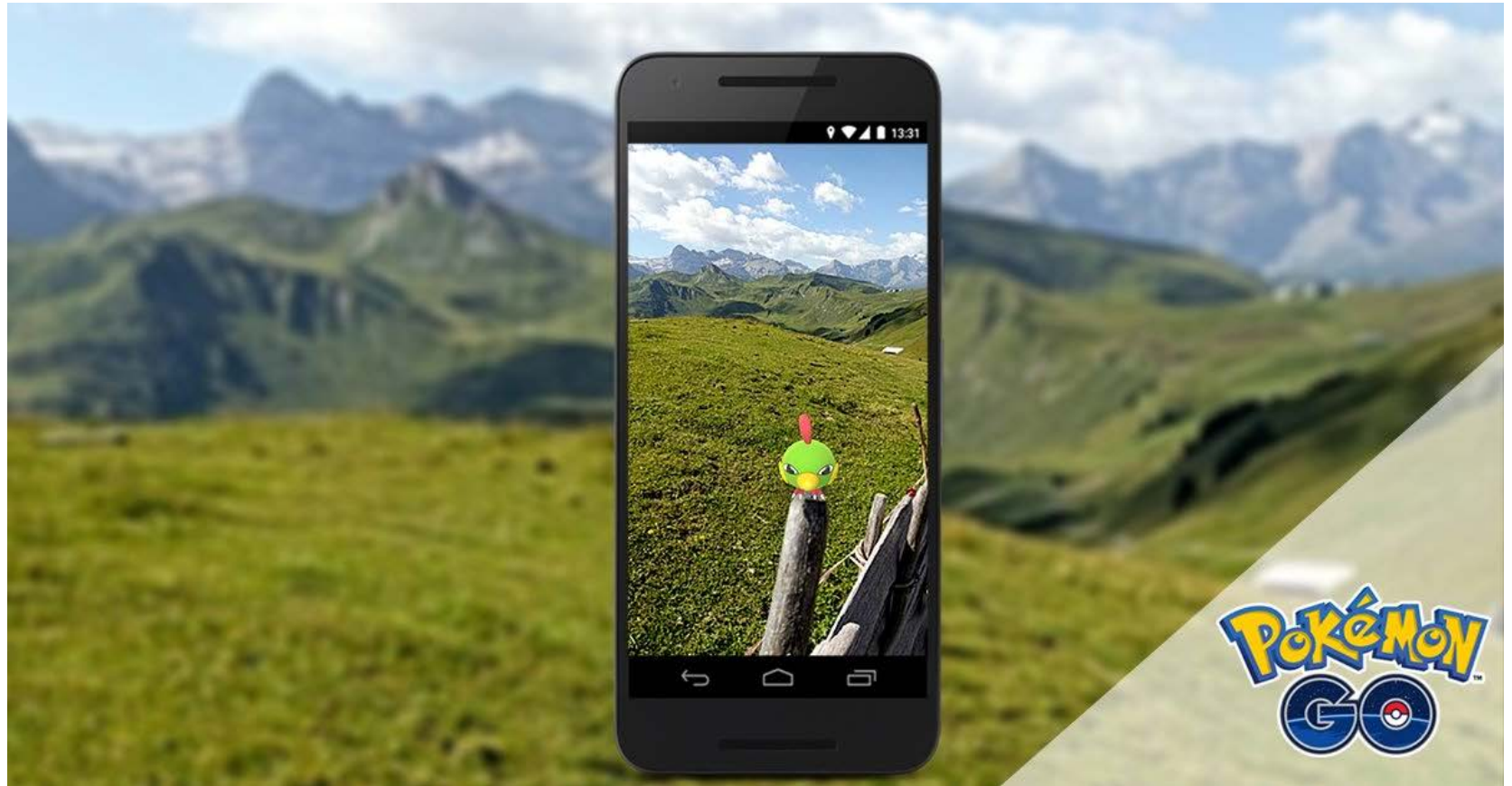
Pokémon GO is the biggest US mobile game ever

Peak daily active users (millions)



Source: TechCrunch

Pokémon GO



Questions:

- How did Pokémon GO affect the *movement* of people?
- How did it affect *payment*?
- What is the impact of *alternate* reality?
- What is the impact of *augmented* reality?

Survey of Pokémon GO players #1

- 1,000 Finnish players
- Recruited through Facebook groups
- Qualitative, open-ended responses analyzed through coding

Survey of Pokémon GO players #2

- 375 players
- USA, Germany, Portugal, Finland, Belgium
- Qualitative, open-ended responses analyzed through coding

Questions:

- How did Pokémon GO affect the *movement* of people?
- How did it affect *payment*?
- What is the impact of *alternate* reality?
- What is the impact of *augmented* reality?

% who went to a new place

60%

65 million monthly users in April 2017 (Source: Niantic):

- 60% of this would be **39 million people**

% who went to a new *city*

9%

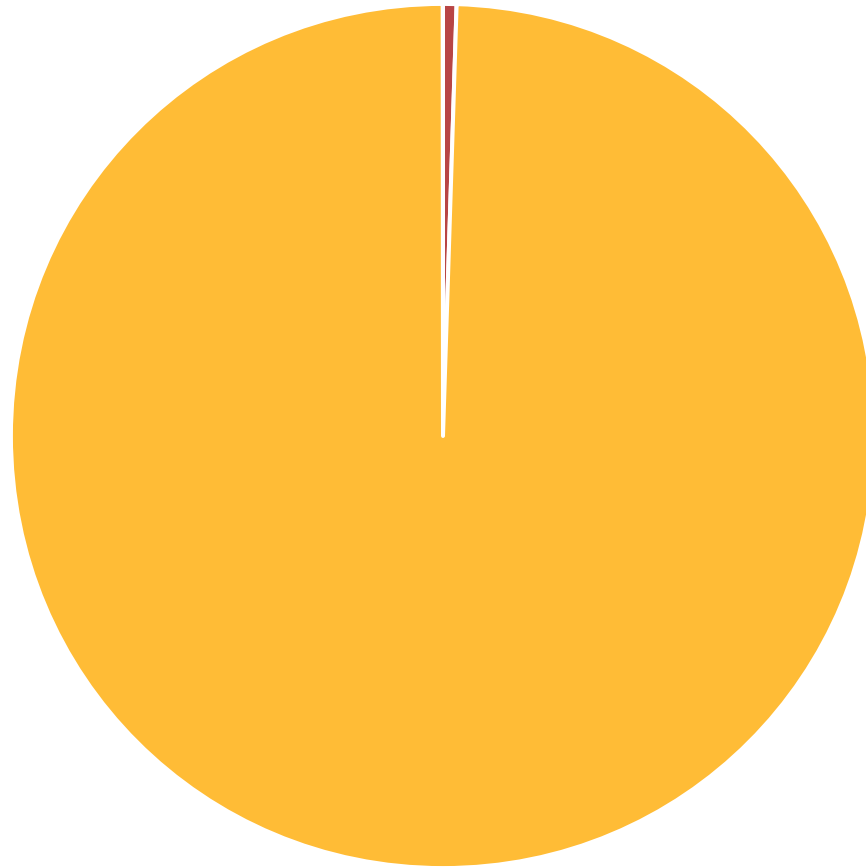
65 million monthly users in April 2017 (Source: Niantic):

- 9% of this would be **6 million people**

Questions:

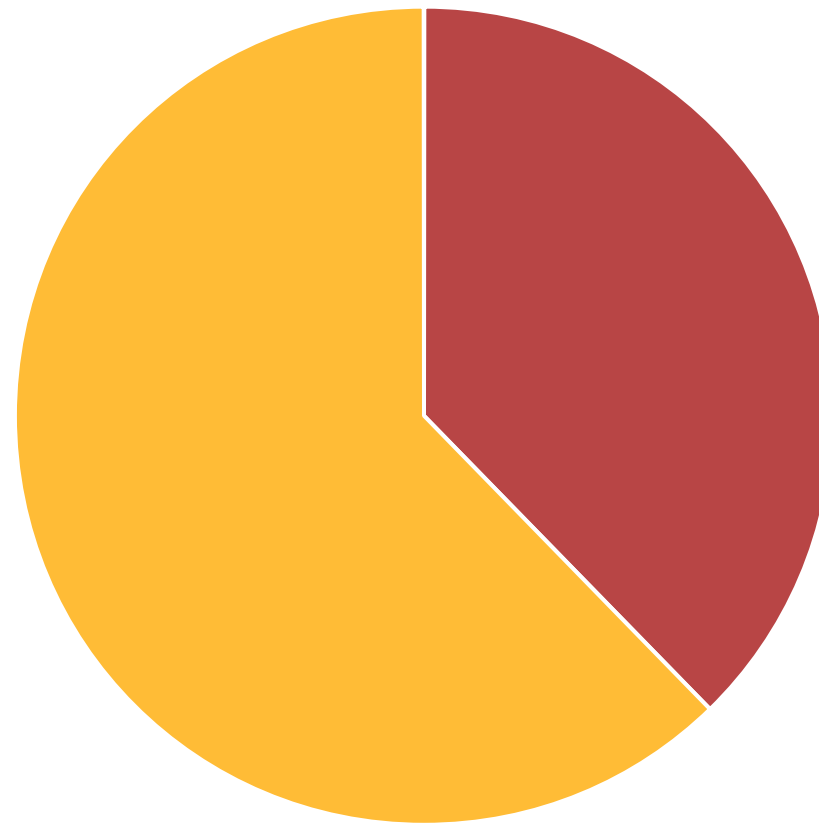
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Paying Users: Kongregate



■ Pay ■ Don't pay

Paying Users: *Pokémon GO*



Range:
1 to 300 EUR

ARPU:
35.67 EUR

■ Pay ■ Don't pay

% who made purchase in new place

46%

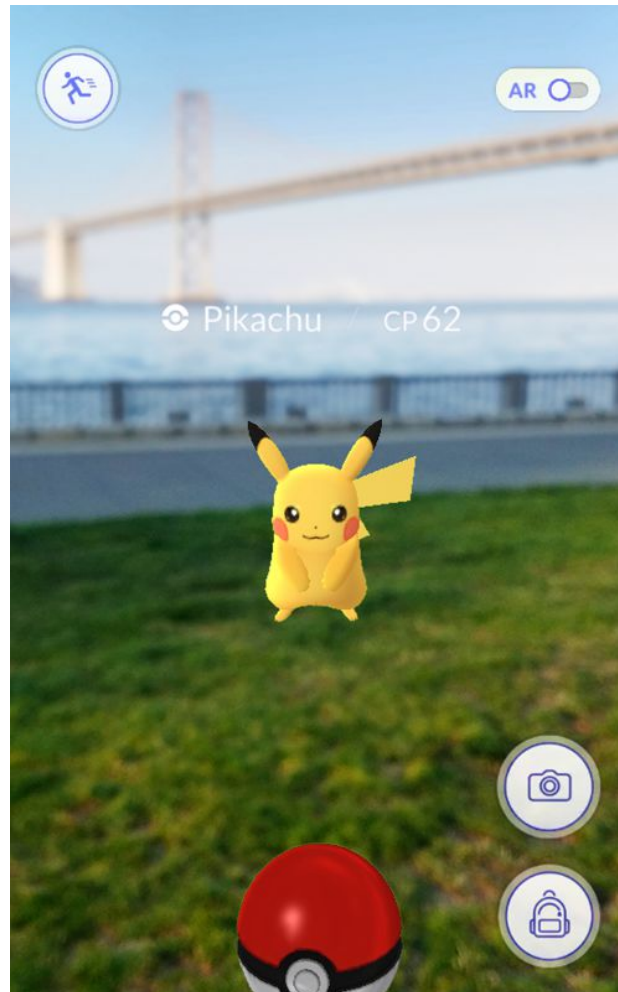
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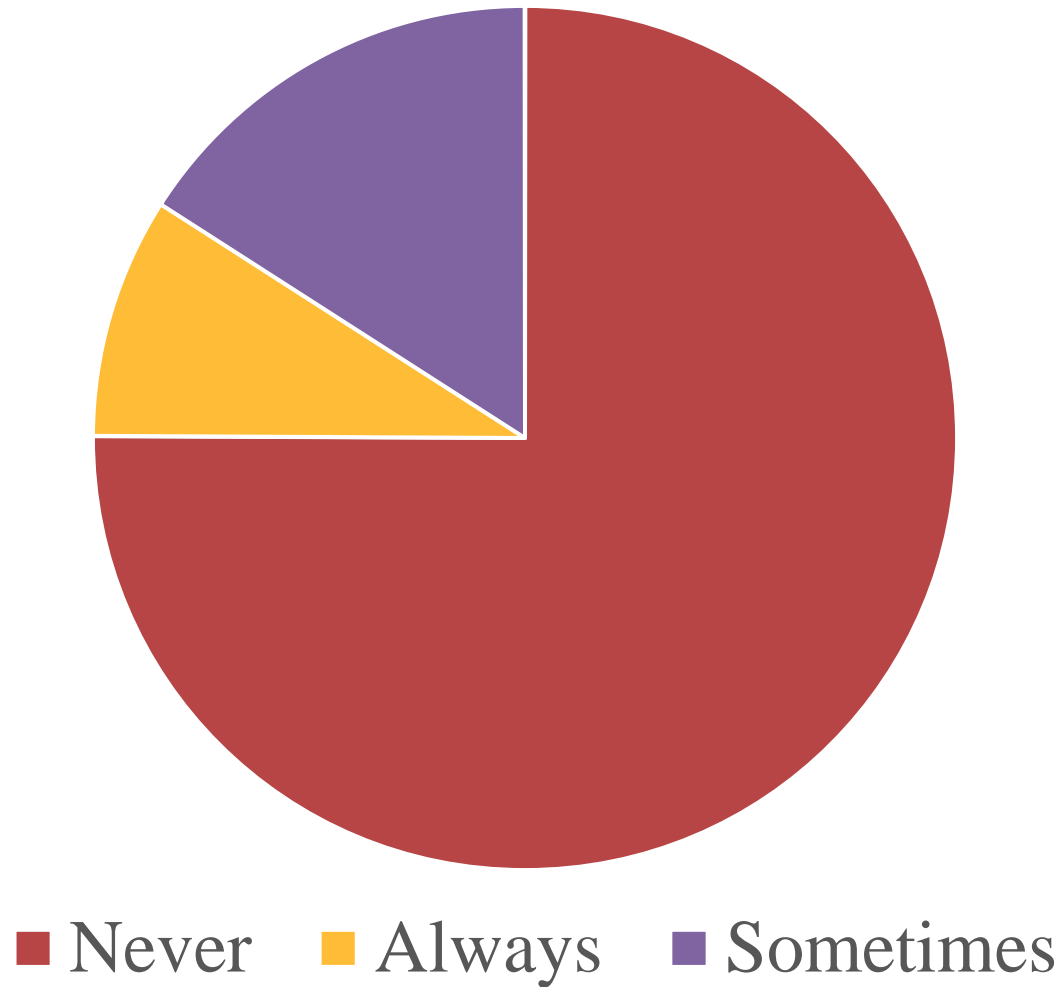
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Use of Augmented Reality



Use of Augmented Reality



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5-minute pair discussion

- What makes a location-based game work well?
- What are the challenges?
- Why did *Pokémon GO specifically* do so well?

The Good

“What things make *Pokémon GO* fun to play?”

- globally well-known brand
- moving in the real world
- sociability

The Good

“What things make *Pokémon GO* fun to play?”

- moving in the real world (413 users)
- sociability (348 users)
- globally well-known brand (131 users)

The Bad

“What things about playing *Pokémon GO* do you dislike?”

- bad behavior from other players
- technical problems
- unequal gaming opportunities
- unpolished game design

The Bad

“What things about playing *Pokémon GO* do you dislike?”

- technical problems (285 users)
- unpolished game design (194 users)
- unequal gaming opportunities (148 users)
- bad behavior from other players (109 users)

Case study: 3D reconstruction

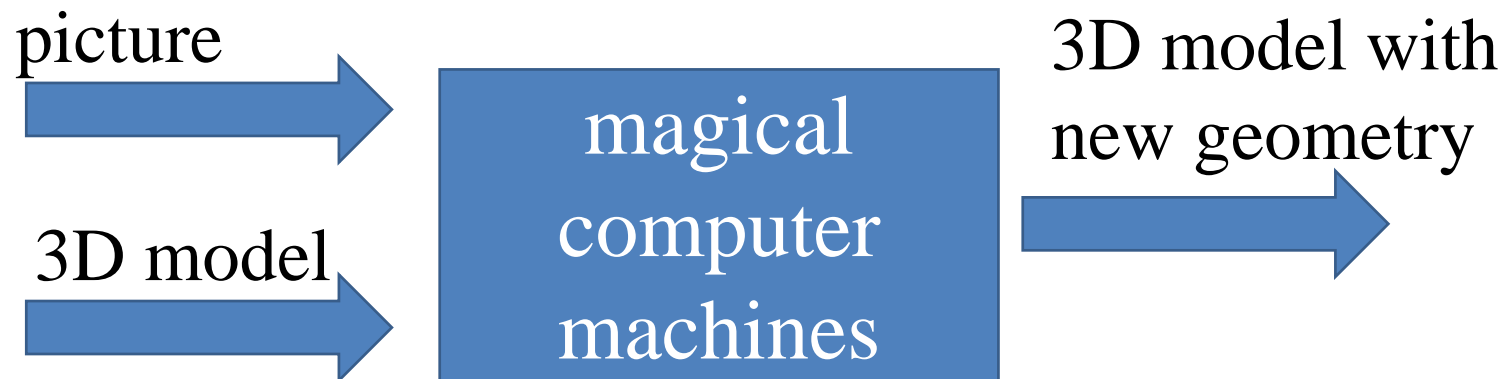


Case study: 3D reconstruction

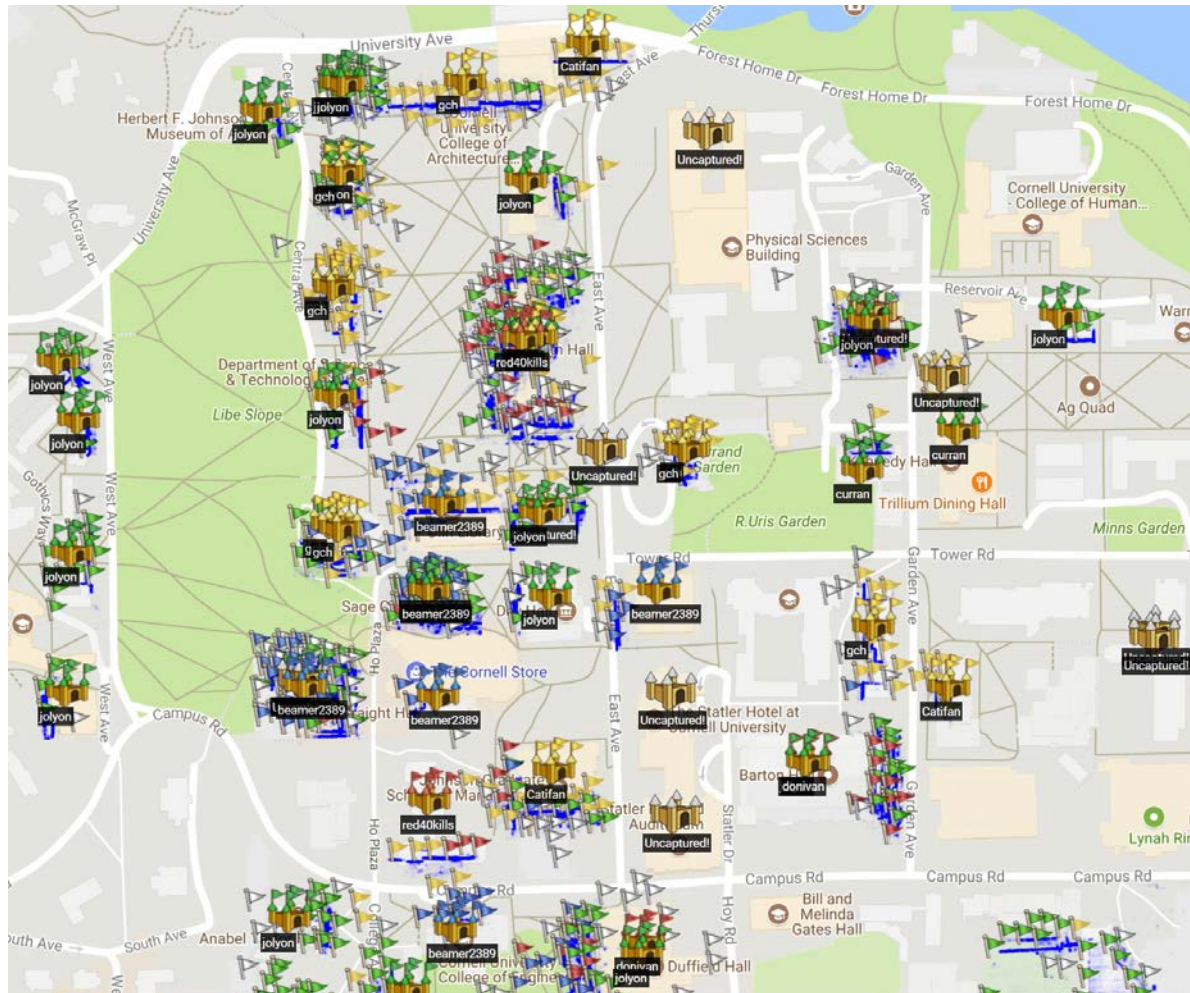


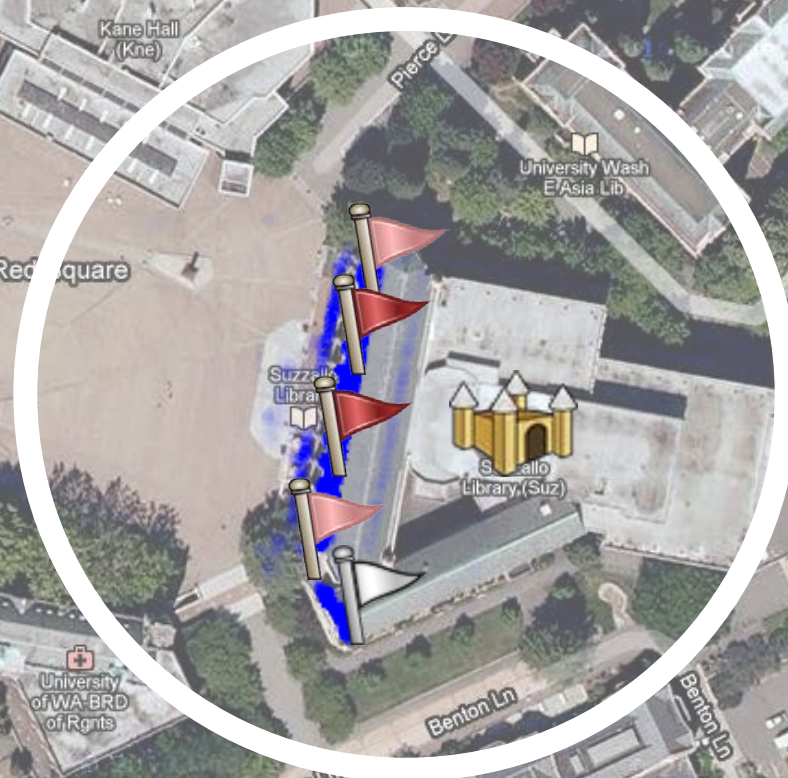
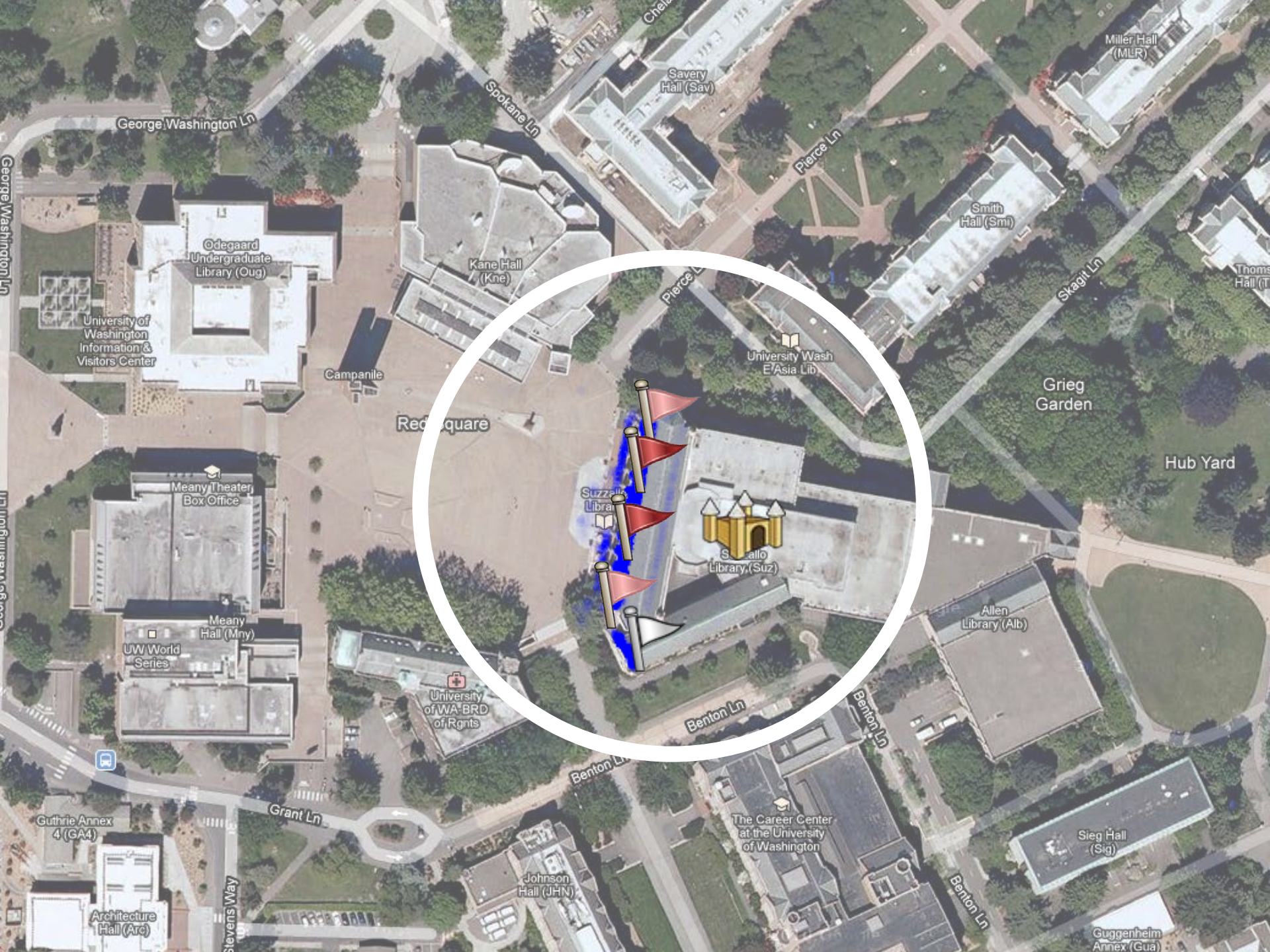
Case study: 3D reconstruction game

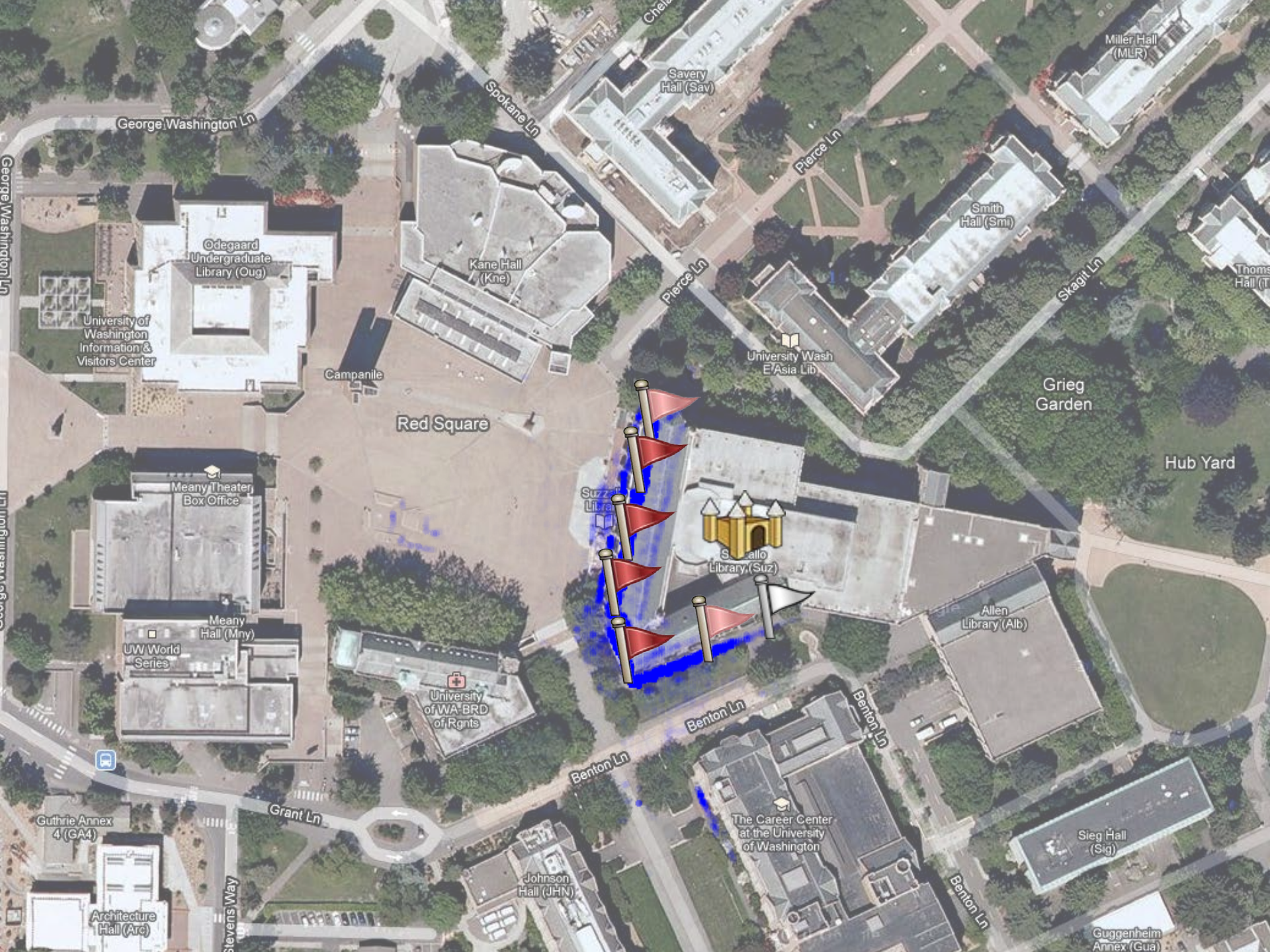
- Can we incentivize people to take pictures?
- Can we get pictures from less common angles?
- Can we make this fun?

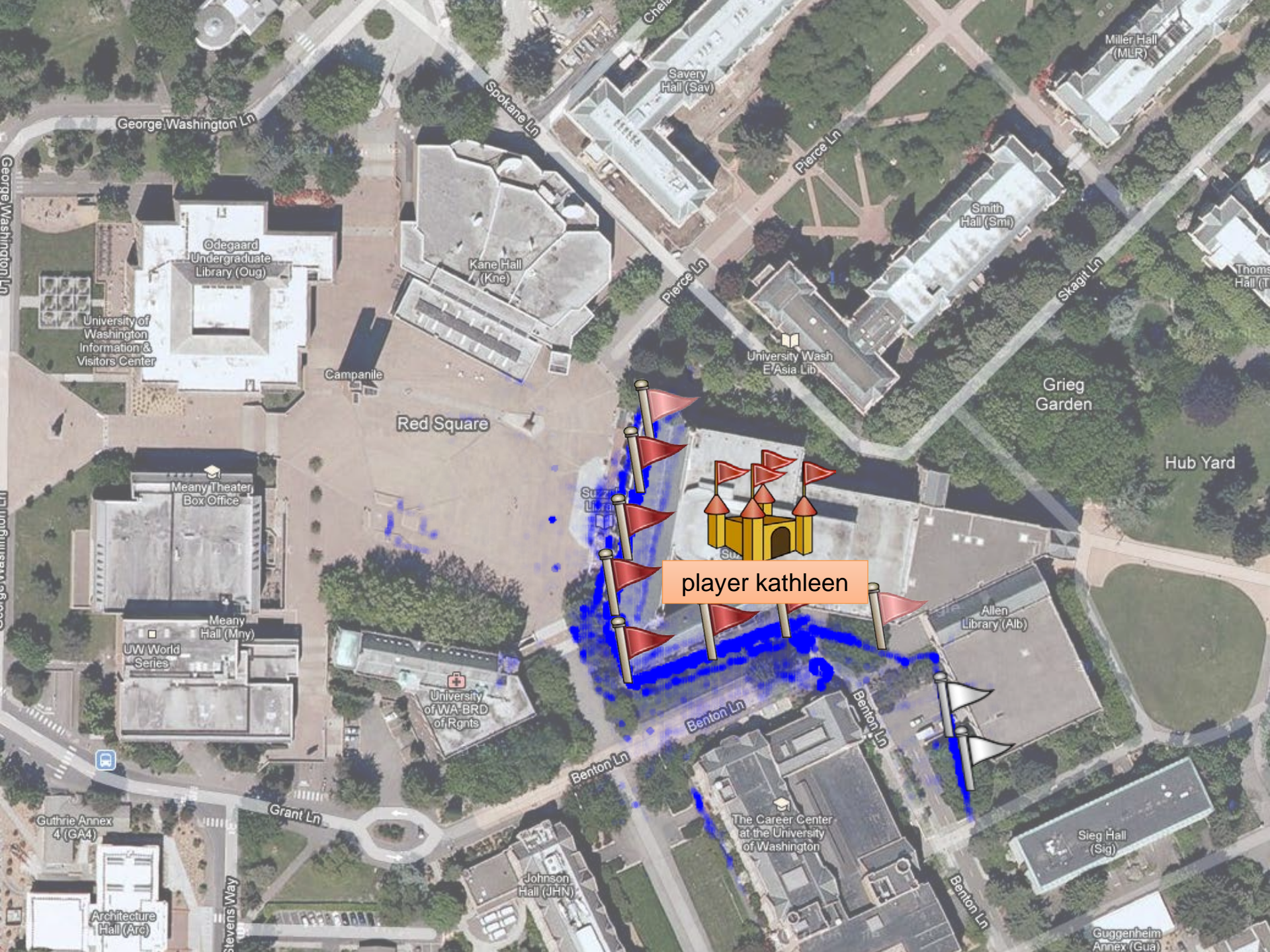


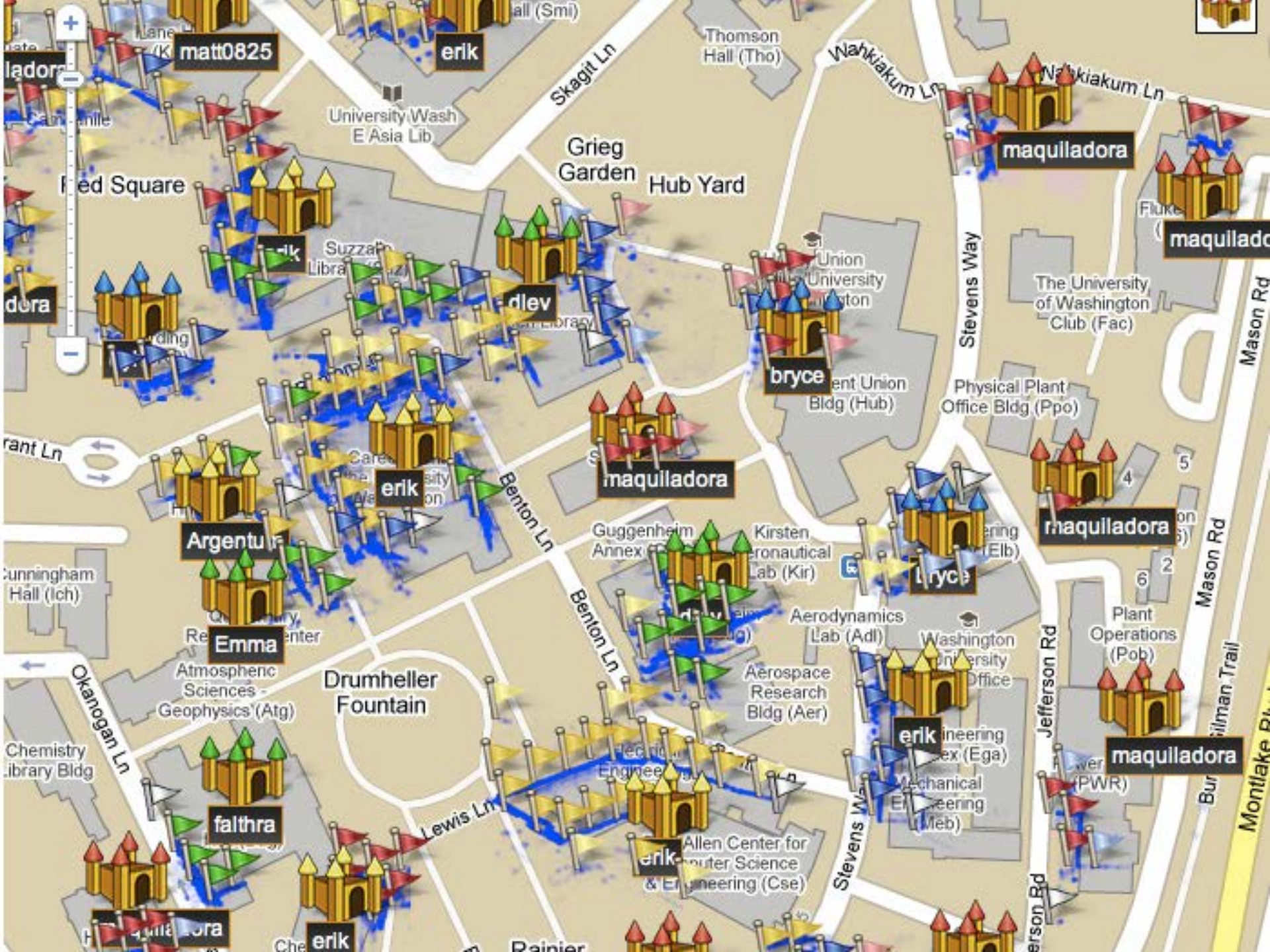
PhotoCity











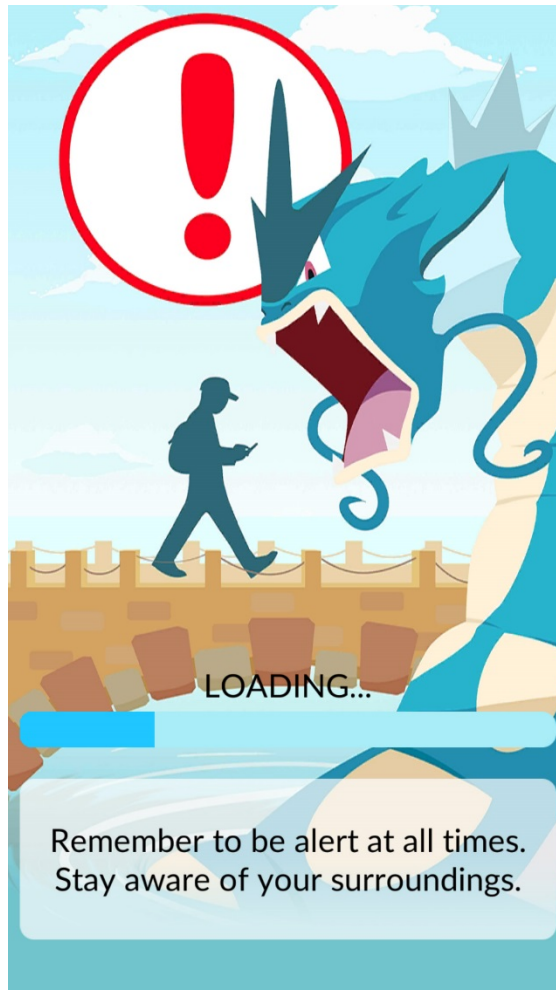
Photocity



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Dangers of increased movement



% who hit or almost hit something

33%

Most common culprits:

- signs
- poles
- other people

% who put personal safety at risk

11%

Jesse Schell DICE 2010



What do we think?

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Reminders for Friday

- Check logging
- Check logging again