



# CS106S: Week 5

Safe Google Maps

Download the starter code:  
[bit.ly/gmaps-code](https://bit.ly/gmaps-code)

Follow the slides:  
[bit.ly/gmaps-slides](https://bit.ly/gmaps-slides)

# Plan For Today

- 1) Recap of Warmup Assignment
- 2) Coding
- 3) Analysis
- 4) Coding Pt. 2

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# Inspiration

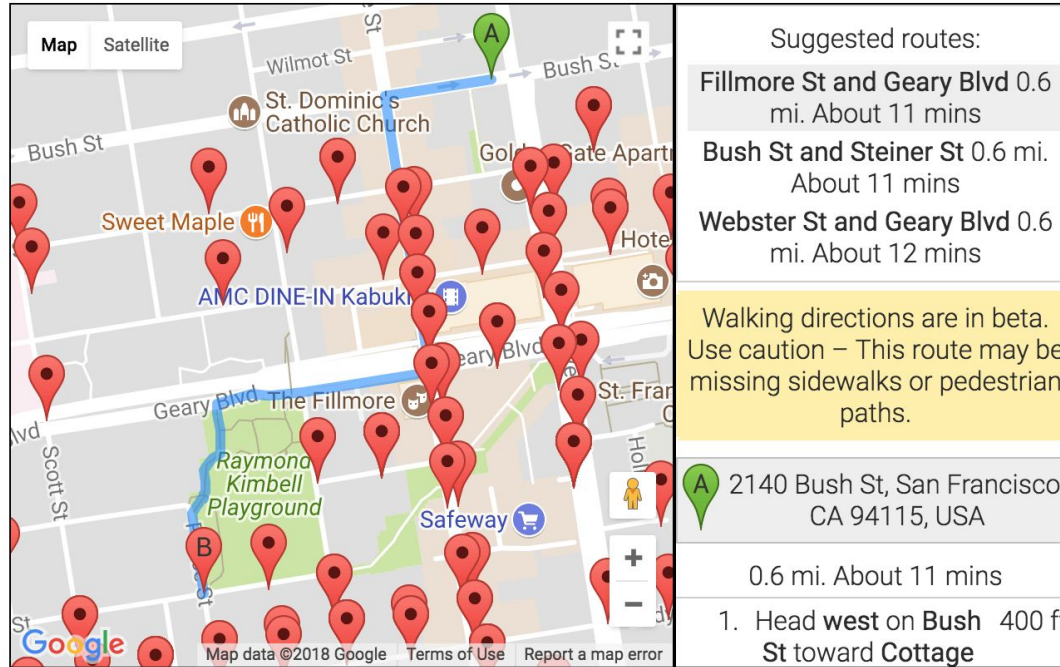
Google Maps is super great!!!! but.....



# Ethics?

*Something to consider as we do this assignment*

# The Warmup



Safety Score (lower = safe, higher = risky):

0

*index.html*



# Let's Talk A Basic Approach...

And then y'all will get a crack at this



Map Satellite

Wilmot St

Bush St

St. Dominic's Catholic Church

Sweet Maple

AMC DINE-IN Kabuki

Geary Blvd

Raymond Kimbell Playground

Safeway

St. Francis

St. Scott St

Map data ©2018 Google Terms of Use Report a map error

Suggested routes:

**Fillmore St and Geary Blvd** 0.6 mi. About 11 mins

**Bush St and Steiner St** 0.6 mi. About 11 mins

**Webster St and Geary Blvd** 0.6 mi. About 12 mins

Walking directions are in beta. Use caution – This route may be missing sidewalks or pedestrian paths.

A 2140 Bush St, San Francisco, CA 94115, USA

0.6 mi. About 11 mins

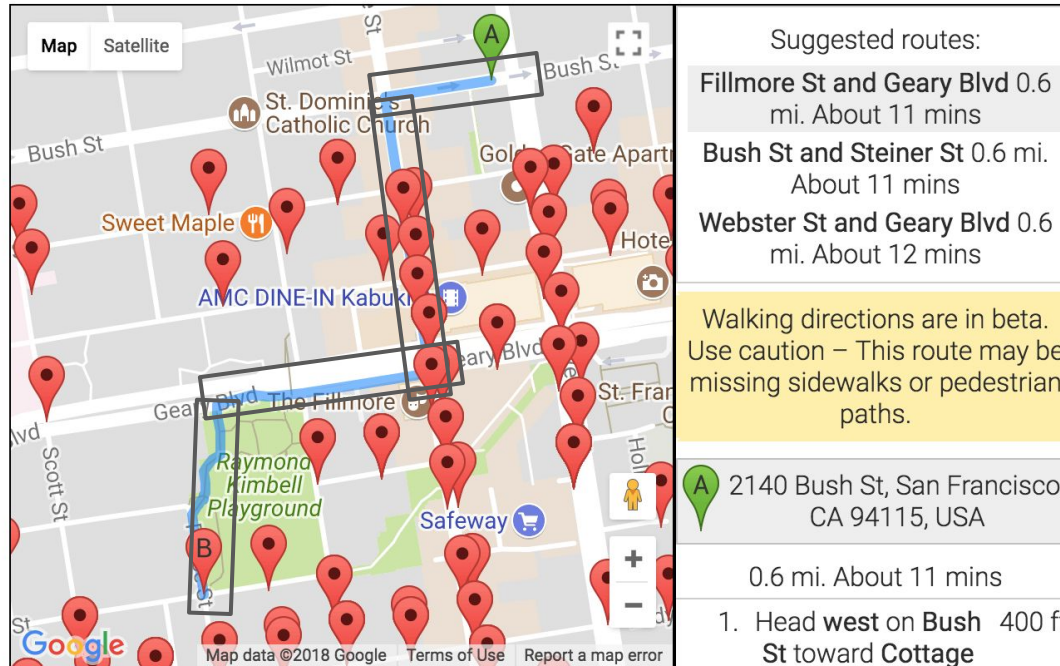
1. Head **west** on **Bush St** 400 ft toward **Cottage**

Safety Score (lower = safe, higher = risky):

0

*Any ideas?*

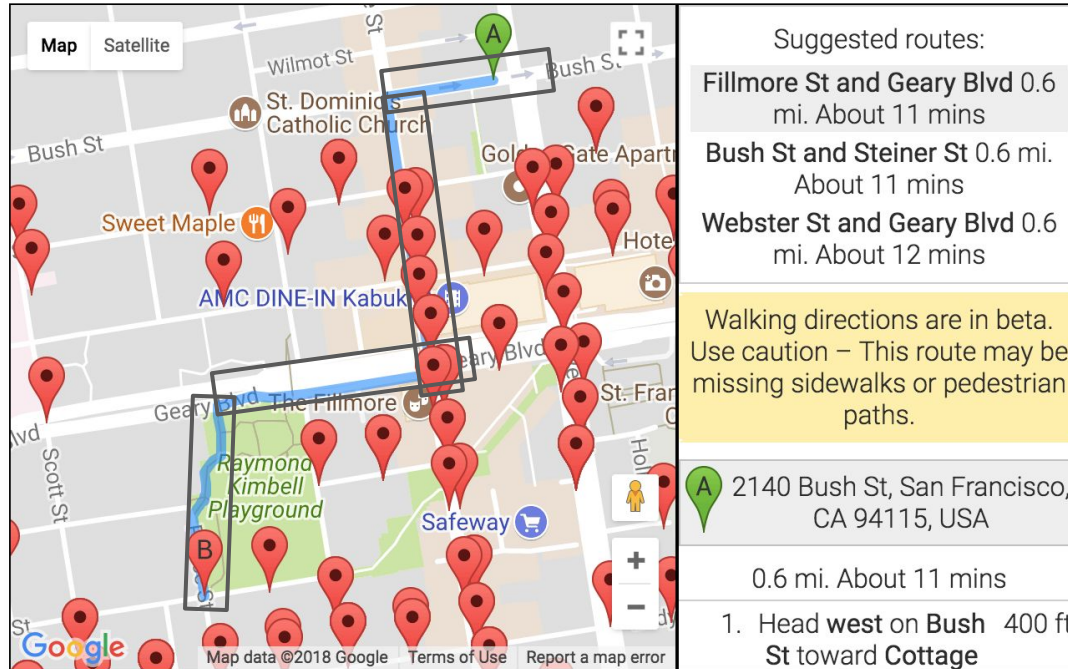




Safety Score (lower = safe, higher = risky):

0

1. Create coordinate boxes for each leg of the route

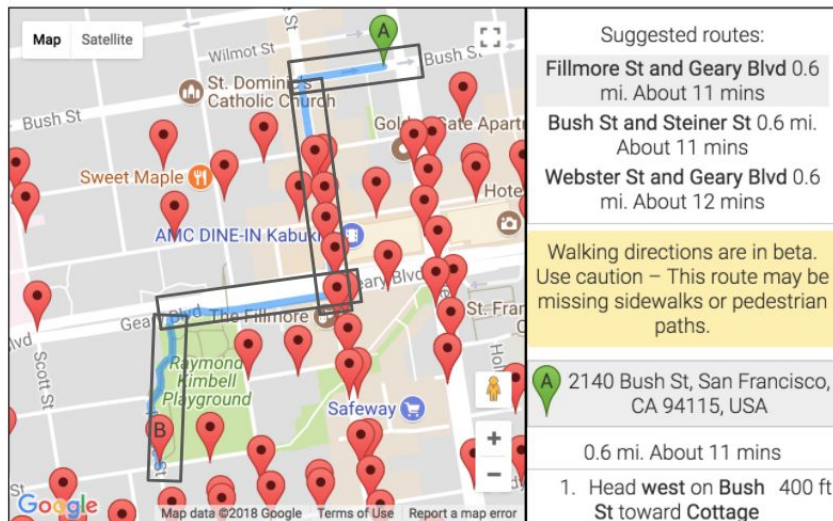


Safety Score (lower = safe, higher = risky):

0.64

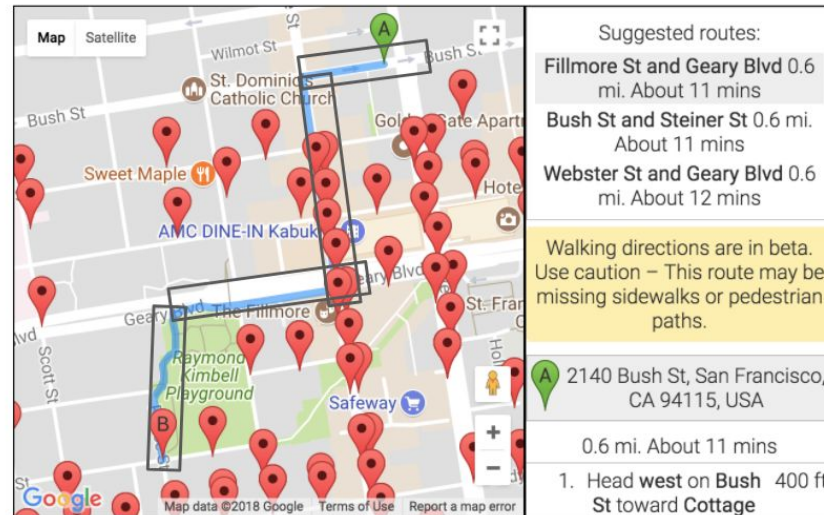
2. Count the number of past crimes in that box





Safety Score (lower = safe, higher = risky):

0



Safety Score (lower = safe, higher = risky):

0.64

1. Create coordinate boxes for each leg of the route

2. Count the number of past crimes in that box

Try that!

# Today's Assignment:

## The “Real” Safe Google Maps!

- The warm-up from last week was honestly this week's assignment
- Differences:
  - This week, your solution won't be just for a fixed path.  
It will be for ANY route in SF (see demo)!
  - Upon completing the assignment (if we do), your goal will be to make Safe Google Maps better than it already is..... Because honestly right now it's fairly basic
  - We will work together to do all this!

Let's get coding

[bit.ly/gmaps-code](https://bit.ly/gmaps-code)

# Analyzing Our App So Far

**Q1: Do you see this as being useful?**



## Analyzing Our App So Far

**Q2: How can we improve this application? In other words, in what ways does it suck in its current state and how can we improve it?**

Remainder of Class: Free For All

**Your Final Goal: Look into possible extensions and implement/try to implement a feature that would augment our current app.**

# Check-Off

[bit.ly/gmaps-checkoff](https://bit.ly/gmaps-checkoff)