Making Your App Geographically Aware

Craig Shoemaker
SENIOR WEB DEVELOPER

@craigshoemaker craigshoemaker.net

Geolocation

Determines the geographical location of the client.

Request Patterns

One time

Continual

	IP ADDRESS	GPS	WiFi	CELL PHONE	USER-DEFINED
PROS	Available everywhere Server-side	High accuracy	Accurate Works indoors Quick & cheap response	Fairly accurate Works indoors Quick & cheap response	High accuracy Flexibility to designate alternate locations
CONS	Low accuracy High processing overhead	Long operation Not optimal indoors Hardware required	Ineffective in areas with limited access points	Requires cell tower access Ineffective with limited towers	Can be inaccurate

Source: Pro HTML5 Programming, Apress

Options

Accuracy

- Boolean (default `false`)
- Attempt to gather more accurate location
- May not be effective
- May lengthen request time

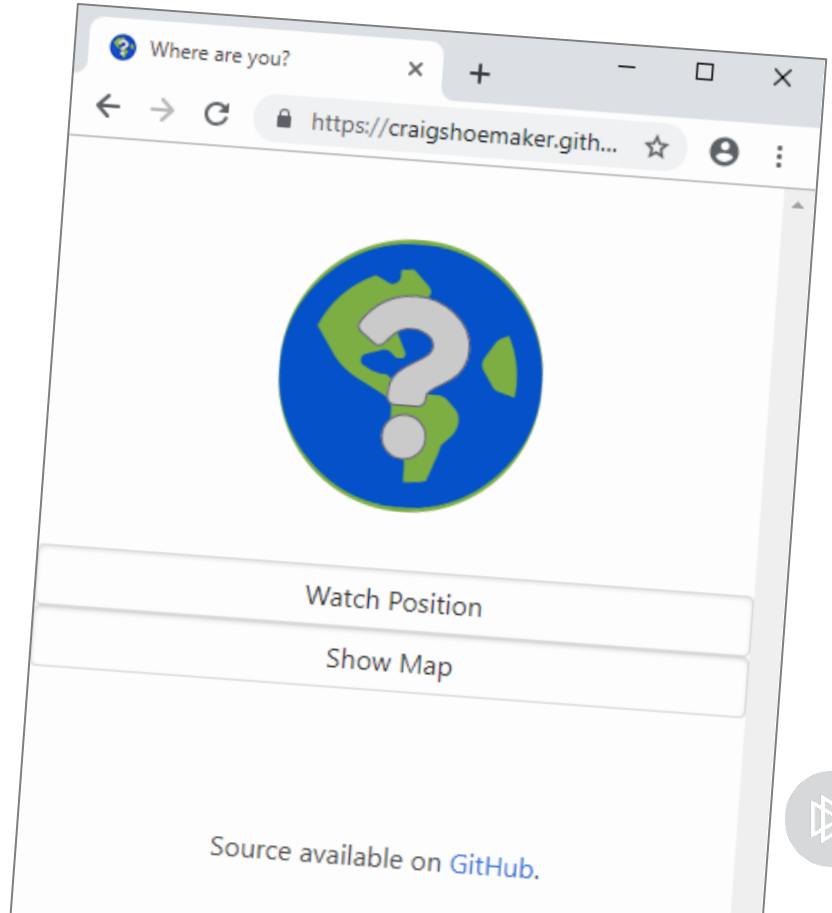
Timeout

- Max time to calculate location
- Milliseconds
- No limit (default)

Maximum Age

- Used to determine refresh
- Milliseconds
- Default = 0 (immediate refresh)

https://craigshoemaker.github.io/where-are-you



Location API

Calculation approaches

Options

Building on HTML5: Optimizing for Data, Communication and Offline Apps

INTRODUCTION

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