

# TourTrak



The Cycologists

# NYC Five Boro Bike Tour

- New York City Five Boro Bike Tour
- 32,000 Participants
- Issues:
  - Hard to track tour traffic real-time
  - Paper guides/maps were lacking
  - Difficult to log tour metrics

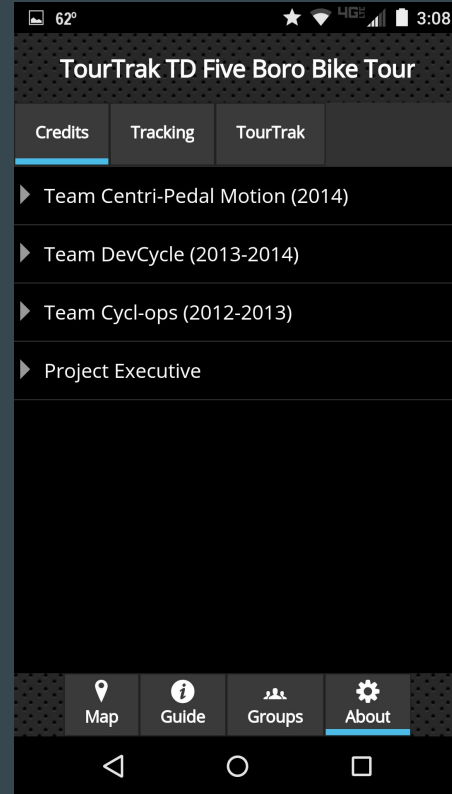


# TourTrak

- What it is:
  - Rider Traffic Tracker
  - Group Member Tracker
  - Tour Information Resource
- Sponsor: Lee Fischman, Galorath
- 4th iteration of TourTrak



django



# Core Goals

- Resolve Existing Issues
- Revitalize the project
  - Update to the latest version of technologies
  - Simplify build process
  - Create a full stack testing suite for regression
- Implement New Features
  - Multi-tagging POIs
  - Average tour speed ribbon (tour traffic map)
- Keep Android app size under 50mb

# Stretch Goals

- Ensure that the UI functions as intended
- Optimize the server side
  - It was hastily made and is likely messy
- Speed up/skip the client phonegap splash screen
  - It takes a while and is unsightly
- Photo Contest
  - Photo upload to given tour Flickr account
- Scavenger Hunt
  - A list of questions that riders can answer during the tour
- Find a better way to update map tiles
  - Push map updates through application updates

# Process

- Scrum with three-week sprints
  - Each with demo for the sponsor
- “Virtual standups” held daily, with observance of risks
- Continuous integration through staging environment
  - Every change must be code reviewed
- Bug and sprint tracking
- Meetings
  - Sprint planning meetings
  - Work sessions
  - Impromptu work meetings
- Weekly video calls with project sponsor

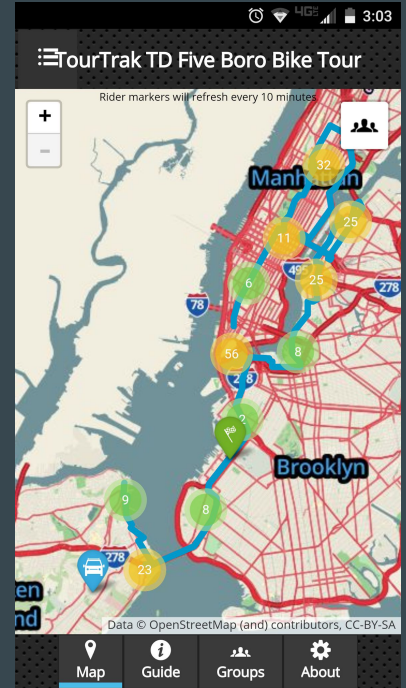
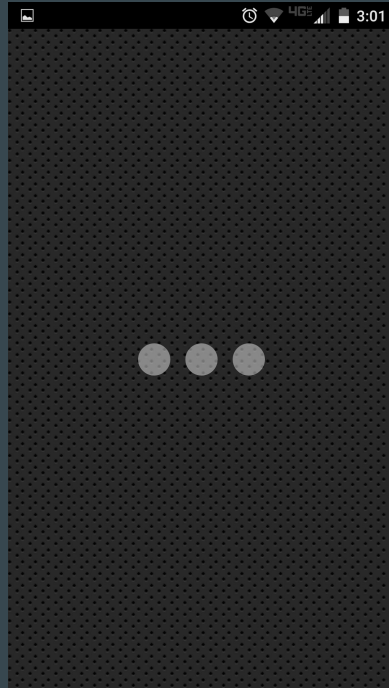
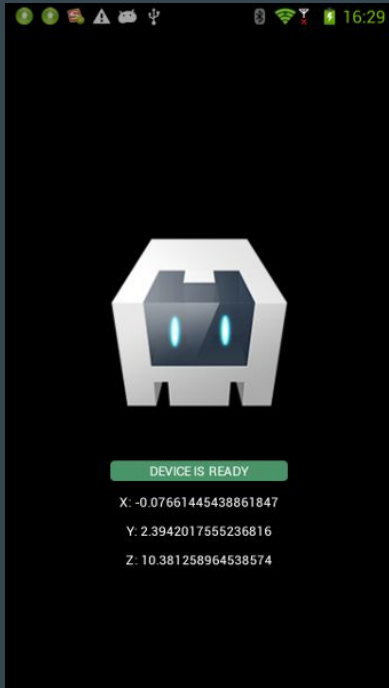
# Some Metrics

- # Standups / 83 days
  - Conor: 81
  - Brian: 75
  - Nate: 77
  - Charles: 77
  - Number of days with full attendance: 68
- Velocity: 15
  - Sprint 1: 19 (of 27)
  - Sprint 2: 14 (of 27)
  - Sprint 3: 11 (of 20)
  - Sprint 4 (current): 7 (of 20)

# Issues Getting Started (A Tale of Many Build States)

- Picking up the project proved to be slow and frustrating
  - Several major version changes between then and now
- Server Setup
  - Packages no longer existing
  - Conflicting updates
  - mod\_wsgi
- Consistent build inconsistencies:
  - “Infinidots”
  - “No Map”
  - “It Won’t Build”
    - Won’t build via Cordova, but will via Sencha
    - Missing (but not really) Cordova plugin
    - “We all got a different build error”
  - “Can’t talk to server”





# Plans for Spring Semester

- Beta testing
  - Testing with a route on campus
  - Pushing test versions to beta users through the App stores
- Implementing new features and polishing existing
  - Tour ribbon
  - New splash screen
  - App size reduction
  - Robust testing suite
- Update server
  - New version of django in January
  - Fix mod\_wsgi issue
- Completion by the next tour in May 01, 2016