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

TourTrak TD Five Boro Bike Tour

Credits
- Team Centri-Pedal Motion (2014)
- Team DevCycle (2013-2014)
- Team Cycl-ops (2012-2013)
- Project Executive

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