PRONTO Cycleshare Data Challenge

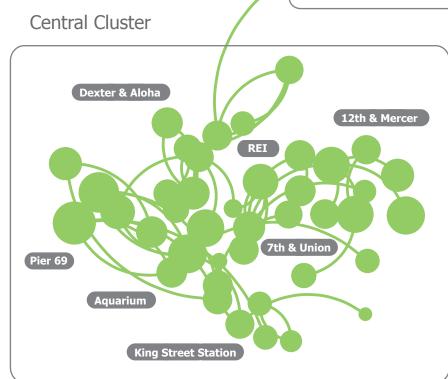Created by: Aaron Lichtner

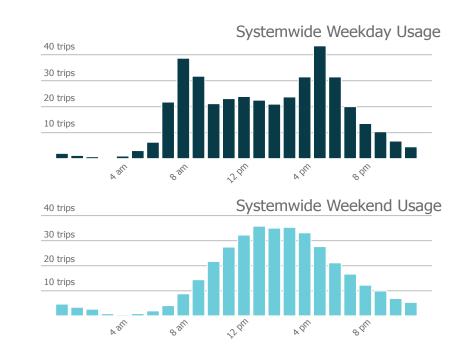## University Cluster

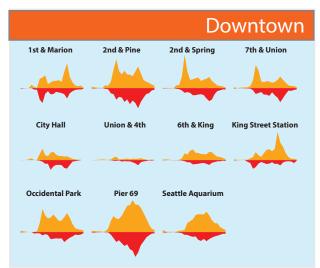Burke Gilman Trail

University Bridge

Seattle's Cycleshare

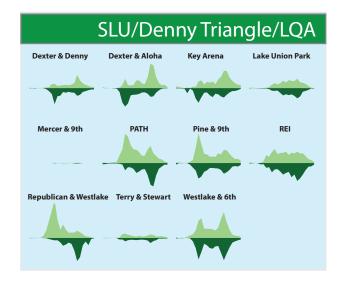The PRONTO system is made of two distinct nodes, the Downtown Cluster and the University cluster. Here is shown relative station usage (size of circle) and each station's most popular station
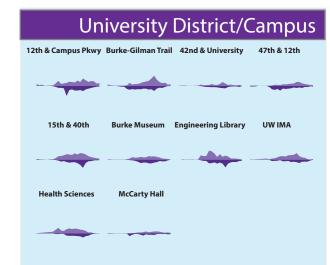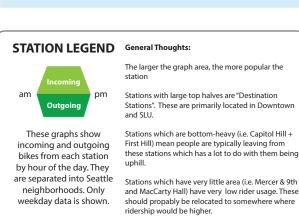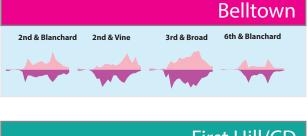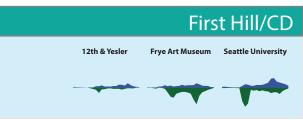
Central Cluster

Dexter & Aloha

12th & Mercer

REI

Pier 69

7th & Union

Aquarium

King Street Station

Systemwide Weekday Usage

40 trips
30 trips
20 trips
10 trips

4 am · 8 am · 12 pm · 4 pm · 8 pm

Systemwide Weekend Usage

40 trips
30 trips
20 trips
10 trips

4 am · 8 am · 12 pm · 4 pm · 8 pm

SYSTEM STATIONS

Downtown

1st & Marion	2nd & Pine	2nd & Spring	7th & Union
City Hall	Union & 4th	6th & King	King Street Station
Occidental Park	Pier 69	Seattle Aquarium	

SLU/Denny Triangle/LQA

Dexter & Denny	Dexter & Aloha	Key Arena	Lake Union Park
Mercer & 9th	PATH	Pine & 9th	REI
Republican & Westlake	Terry & Stewart	Westlake & 6th	

University District/Campus

12th & Campus Pkwy	Burke-Gilman Trail	42nd & University	47th & 12th
15th & 40th	Burke Museum	Engineering Library	UW IMA
Health Sciences	McCarty Hall		

STATION LEGEND

Incoming
am · pm
Outgoing

These graphs show incoming and outgoing bikes from each station by hour of the day. They are separated into Seattle neighborhoods. Only weekday data is shown.

General Thoughts:

The larger the graph area, the more popular the station

Stations with large top halves are "Destination Stations". These are primarily located in Downtown and SLU.

Stations which are bottom-heavy (i.e. Capitol Hill + First Hill) mean people are typically leaving from these stations which has a lot to do with them being uphill.

Stations which have very little area (i.e. Mercer & 9th and MacCarty Hall) have very low rider usage. These should propably be relocated to somewhere where ridership would be higher.

Belltown

| 2nd & Blanchard | 2nd & Vine | 3rd & Broad | 6th & Blanchard |

First Hill/CD

| 12th & Yesler | Frye Art Museum | Seattle University |

Capitol Hill

12th & Denny	12th & Mercer	15th & Thomas	Bellevue & Pine
Cal Anderson Park	Harrison & Broadway	Pine & 16th	Harvard & Pine
Summit and Denny	Summit and Republican		

HILLS + BIKES

PRONTO Olympics

15th and Thomas

Only 3 people so far have attempted PRONTO's most ambitious, elevation-related challenge: Going from the Seattle Waterfront ot the top of Capitol Hill.

Pier 69

410 feet

4 h 57 min   4 h 18 min   34 min
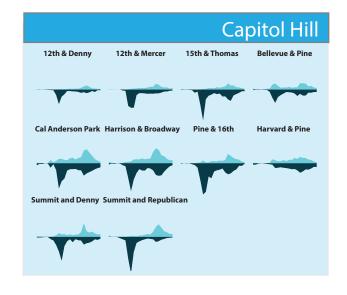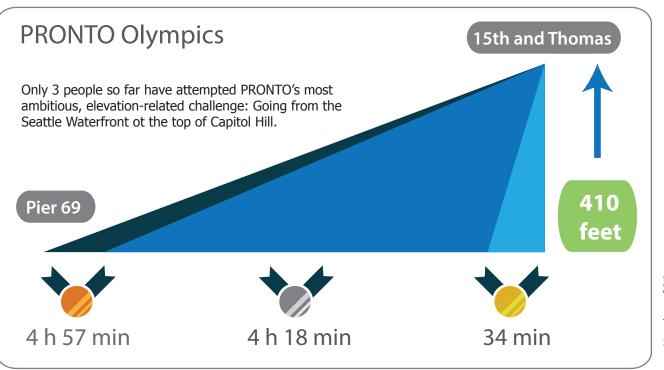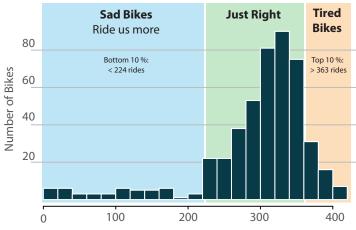
"The sad, sordid tale of Bike SEA00012"

Bike SEA00012 has only taken 1 ride in the first year of PRONTO. It was a cloudy day when she left her dock at 6th and Blanchard, hurtling down to 2nd and Pine. SEA00012 made the trek with her trusting Short-Term Pass Holder at her back in 12 minutes and 23 seconds.

Trips taken by each bike in a year?

| Sad Bikes | Just Right | Tired Bikes |
| Ride us more | | |

Bottom 10 %: < 224 rides

Top 10 %: > 363 rides

Number of Bikes
80
60
40
20

0   100   200   300   400
Number of trips taken per bike

Average Elevation Gain per Rider

No Change
-20 Feet
-40 Feet
-60 Feet
-80 Feet

Oct · Nov · Dec · Jan · Feb · Mar · Apr · May · Jun · Jul · Aug · Sep · Oct

Uphill is hard

The only day of net positive system elevation gain was Oct 13, 2015, opening day of the system when people were testing out the capabilities. Systemwide, the average rider descends somewhere between 20 and 60 feet. In the summer months we are a little less lazy it seems.