Visualization Final Project:

Measuring the Effectiveness of Visualizing Public Transportation Schedules

Summer Kim | Brian Wong | Yang Zhao
Problem Description

E.J Marey, La Méthode Graphique
# Problem Description

Shaded Underline = no bikes during these hours

Note: Bikes cannot enter or exit 12th Street or 19th Street stations on weekdays between 6:56 - 8:50 am and 4:35 - 6:40 pm.

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Solution

Visualization interface:

✓ Displays only relevant information

✓ Provides relevant geographic elements for users to identify quickest route
Solution

To measure effectiveness, we hope to conduct a study to compare existing methods.
Related Work

Automated Visualization of Public Transportation Time Schedules
[Alan Joyce 2011]
Related Work

All Stations

12th St. Oakland City Center
16th St. Mission
19th St. Oakland
24th St. Mission
Ashby
Balboa Park
Bay Fair
Oakland Valley
Civic Center
Coliseum/Oakland Airport
Colma
Concord
Daly City
Downtown Berkeley
Dublin/Pleasanton
El Cerrito del Norte
El Cerrito Plaza
Embarcadero
Fremont
Fruitvale
Glen Park
Hayward
Lafayette
Lake Merritt
MacArthur
Millbrae
Montgomery St
North Berkeley
North Concord/Martinez
Orinda
Pittsburg/Bay Point
Pleasant Hill
Powell St.
Richmond
Rockridge
San Bruno
SF Airport
San Leandro
South Hayward
South San Francisco
Union City
Walnut Creek
West Oakland
SFO/Millbrae

Scott Murray
Select References


Prototype

Select your departure station

Type a station

or choose a nearby station

San Francisco Int'l Airport  Powel  Embarcadero  San Bruno  Daly City
Prototype

Select your departure station

- Berkeley
  - Downtown Berkeley
- North Berkeley
- San Francisco Int'l Airport
- Power
- Embarcadero
- San Bruno
- Daly City
Prototype
Prototype
Milestones

11/22 : Design efficient representation of public transportation network while preserving readability, clarity, completeness, and convenience.

11/24 : Implement working web and mobile application.

11/24 : Prepare study questionnaires to survey participants.

11/24 – 12/1 : Conduct study to measure effectiveness of visualization interface versus existing time schedules.
Thank you!