TimeToLive

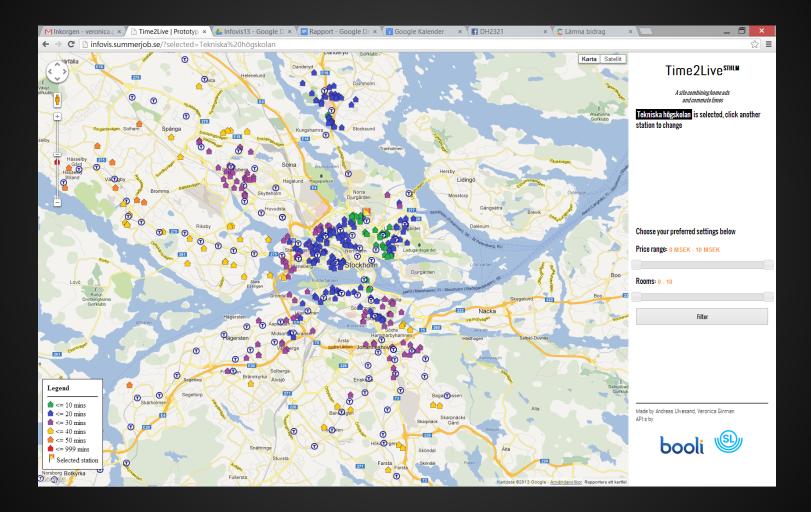


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Information Visualization DH 2321 2013/03/04



Outline

- Motivation
- Goals and Challenges
- Methods and Techniques
- DEMO
- Lessons Learned
- Conclusions and Future Work
- Discussion

Motivation

 Physical distance not necessarily related to commute time

 People are always stressed, not having enough time

Save a little time each day makes a lot in the long run

 Interesting visualization of time as a distance a possibility

Goals and Challenges

Goals

 Interesting to see time as a "distance" rather than actual distance in meters

- Provides a useful application for finding your new home in the optimal location
- Allows you to save time each day

Challenges

- Limitations in data gathering and display
- First time working with the APIs
- Only useful if you travel with SL not car or bike

Google Maps API
 Data APIs – SL for commute times and Booli for ads

Time algorithm

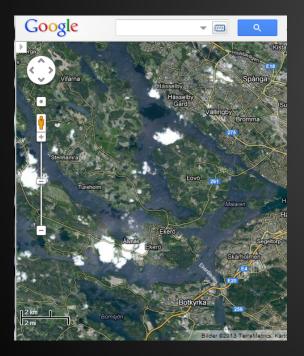


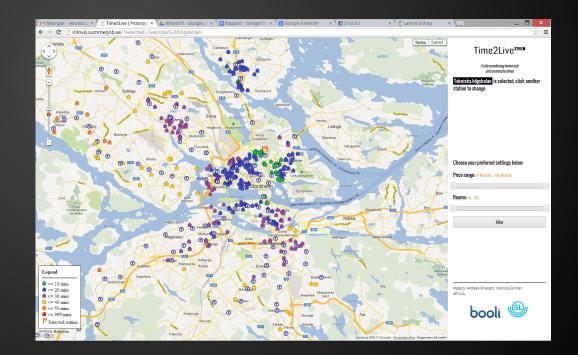




Google Maps API

Based on Google Maps web app, Javascript





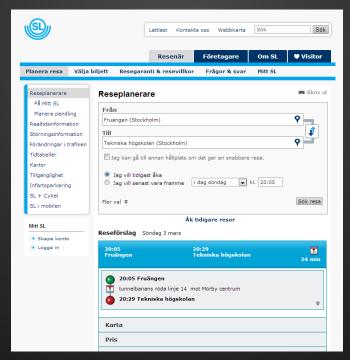
Data APIs

Booli API: fetch data dynamically using PHP

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visa bilder	Laggesta V Farsta		Lägenhet	2 rum 65 mª	1 dgr	
SE.	Atterbomsvägen 28, 2tr Kungsholmen Fredhäll	1 795 000 kr 57 903 kr/m ^a	Lägenhet 1 604 kr	1½ rum 31 m²	1 dgr	
	Körsbärsvägen 12 Östermalm	3 600 000 kr 44 444 kr/mª	Lägenhet 3 402 kr	3 rum 81 mª	1 dgr	
	Värtav. 31, 1/2tr Nedre Gärdet	2 350 000 kr 53 409 kr/m ^a	Lägenhet 2 006 kr	2 rum 44 m²	1 dgr	
	Sickla Kanalgata 3 Hammarby Sjöstad	3 095 000 kr 44 855 kr/mª	Lägenhet 4 719 kr	3 rum 69 m*	1 dgr	
15.11	Sankt Eriksg. 87, 4tr Vasastan Birkastan	2 590 000 kr 61 667 kr/m ^a	Lägenhet 1 712 kr	1 rum 42 m²	1 dgr	
	Granbacken 9, 2tr Bromma Ulvsunda	1 350 000 kr 29 032 kr/m ^a	Lägenhet 3 574 kr	2 rum 46.5 m²	1 dgr	
2.0	Per Lindeströms väg 88 Hammarbyhöjden	1 890 000 kr 38 571 kr/mª	Lägenhet 3 396 kr	2 rum 49 m²	1 dgr	

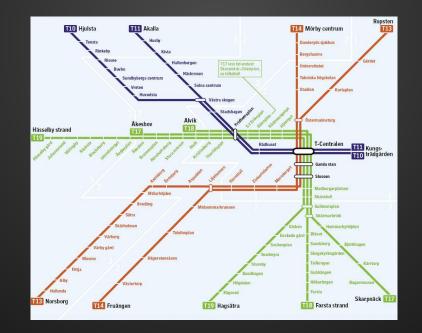
Data APIs

- Booli API: fetch data dynamically using PHP
- SL API: fetch data once using Java



Time algorithm

- Start with nearest station, go in each direction until we find the goal station.
 - Challenge: changing lines



DEMO

Lessons Learned

Difficulties

- Limitations with the SL API
- New to Javascript
- Lessons learned
 - Do thorough pre-study
 - Use debugger

Conclusion and Future Work

Goals achieved:

- Visualizes the time and the distance
- Easy to use

• We would like to:

- Add more stations for busses and trains
- Develop the algorithm for time calculation
- Perhaps allow the user to search from any address/point, not just stations
- Work on the colour representations
- Add more filters and visualization options
- Use AJAX to not have to reload the page when changing station

Thank you!

Questions?

Veronica Ginman {vginman@kth.se} Andreas Ulvesand {ulvesand@kth.se}

Mario Romero {email4@kth.se}

In case they ask
Extra Slides

Group Members

- Andreas Ulvesand
 - Computer Science, master thesis soon
 - Software dev, self-employed...?
- Veronica Ginman
 - Computer Science working on bachelors degree at the moment
 - Will study HCI for master studies