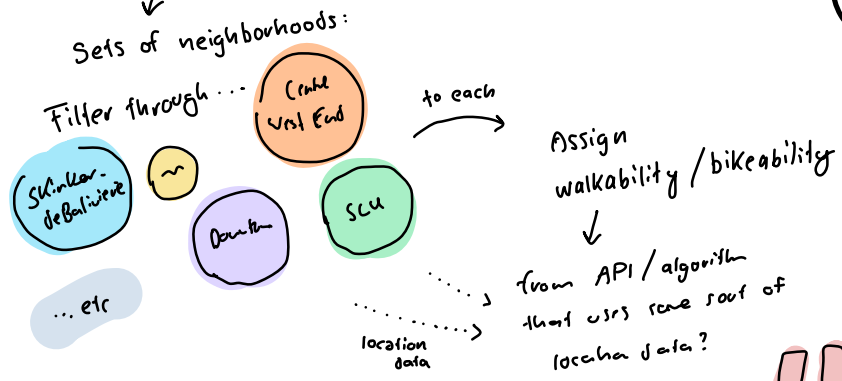
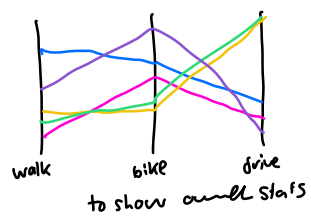


1

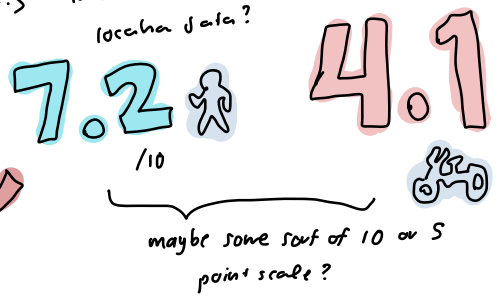
# Walkability / Bikeability



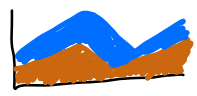
1 Parallel line graph?



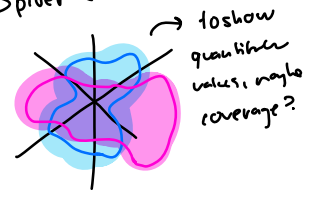
Translate to visualization(s)



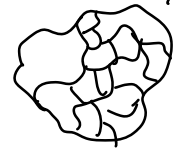
2 Stacked chart?



3 Spider chart



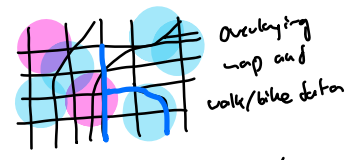
4 Cartogram



5 Normal Map w/ points and flows



6

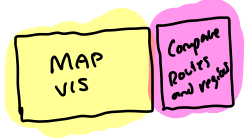


## Neighbourhood Data

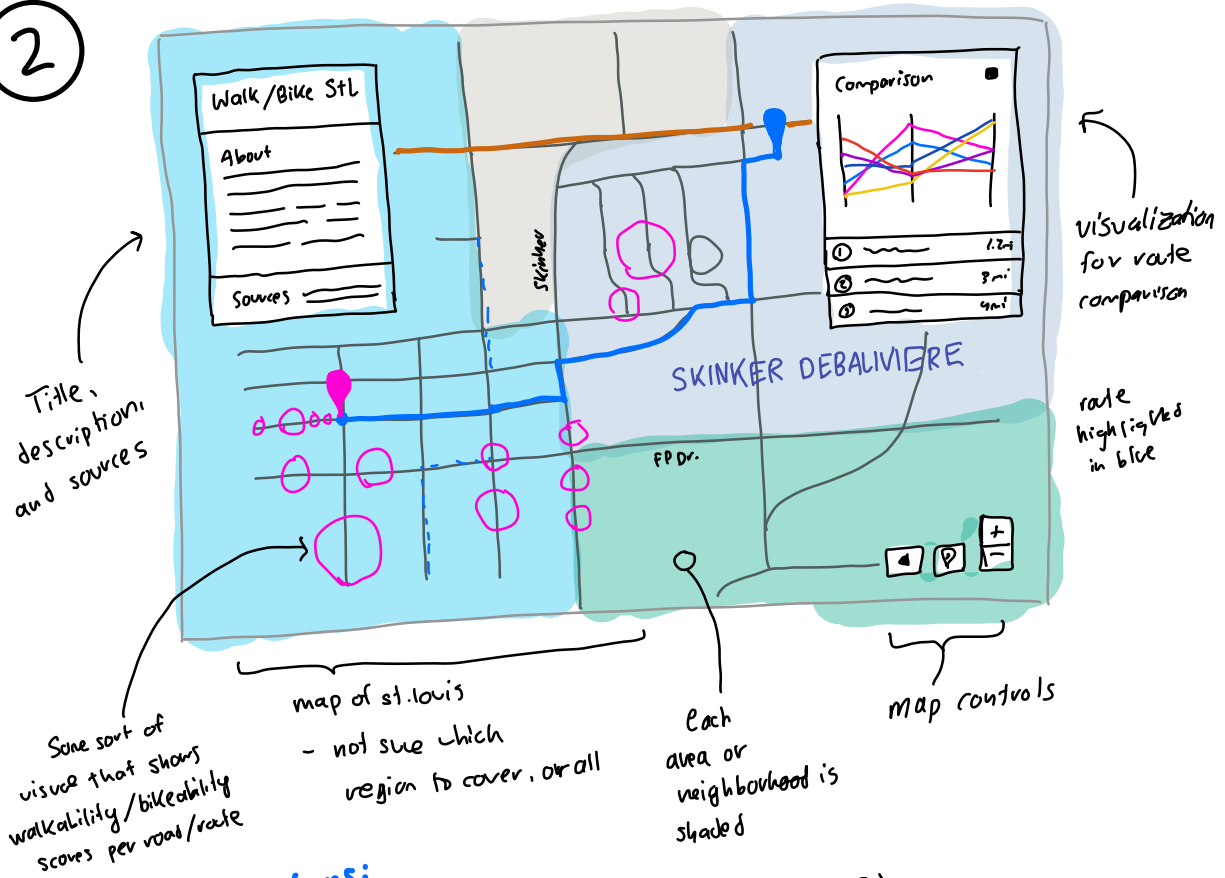


1 or 2 visualizations:

- 1 to help visualize routes and neighbourhoods
- 1 to help compare regions

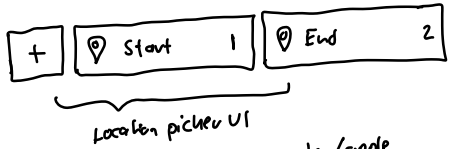


2



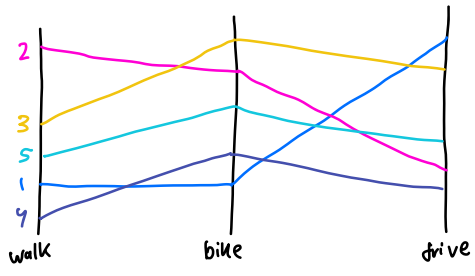
Notes on visualizations:

Need a way for users to choose a route:



→ maybe google/apple maps can supply this functionality?

Parallel Line Graph (?)



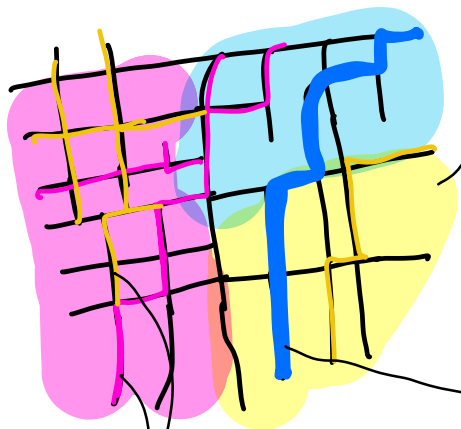
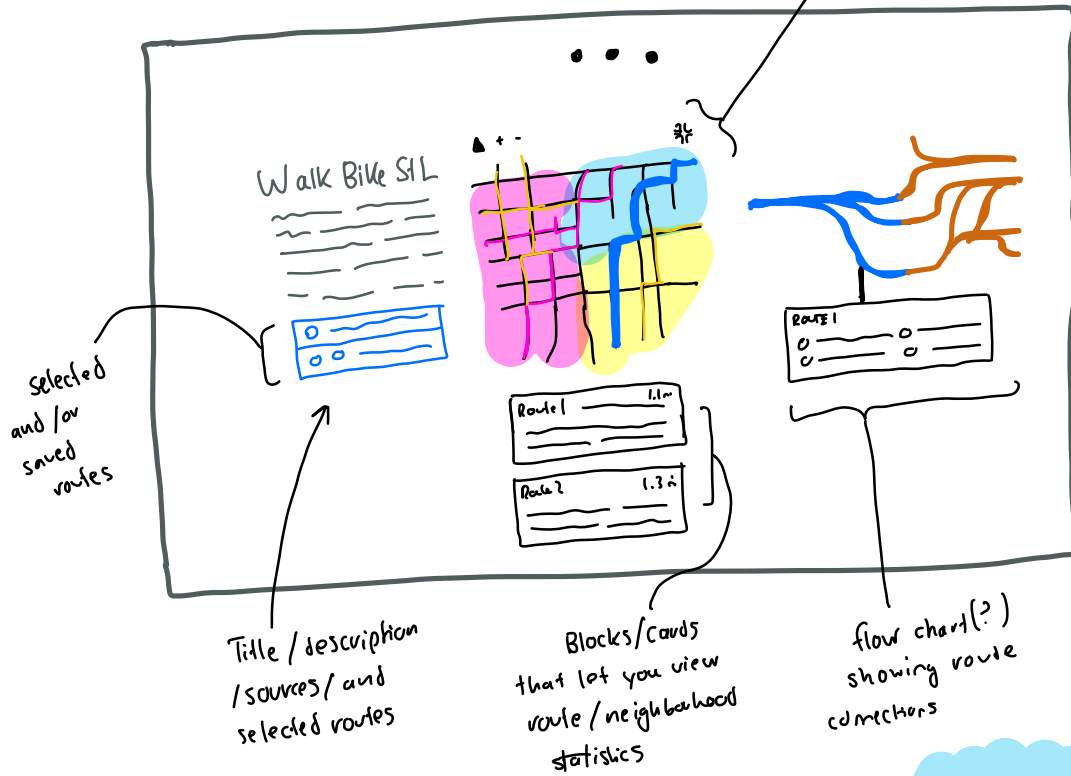
→ compare walk/bike/drive scores and see different overall results

- Advantages**
- familiar map layout  
→ easy to understand navigate
  - easy to compare routes with line graph
  - web layout focuses on content

- Disadvantages**
- the map could get cluttered with routes/circles/etc.
  - even though familiar, could need lots of detail and background info

3

map visualization that is smaller, but has similar neighborhood shading



neighborhoods that, on hover, show a tooltip w/ a snippet of info/stats

other areas color highlighted

If user has a highlighted main route, it shows also has a hover tooltip

**Advantages**

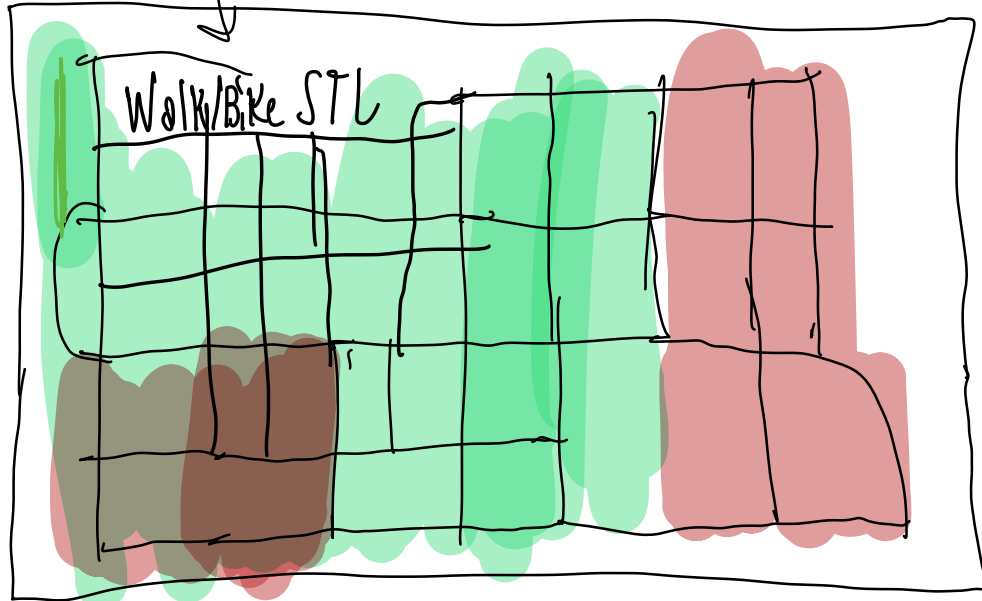
- more spread out view
- makes it easier to digest
- smaller map pins more room for all users

**Disadvantages**

- small map is hard to view
- flowmap might be confusing

4

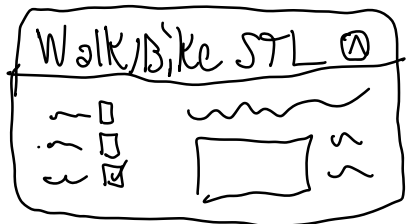
Can have collapsible menu under title



3d interactive full screen map

Score overlay (can switch between diff. score types)

Detail view can appear above map when a specific address/neighborhood selected



### Advantages

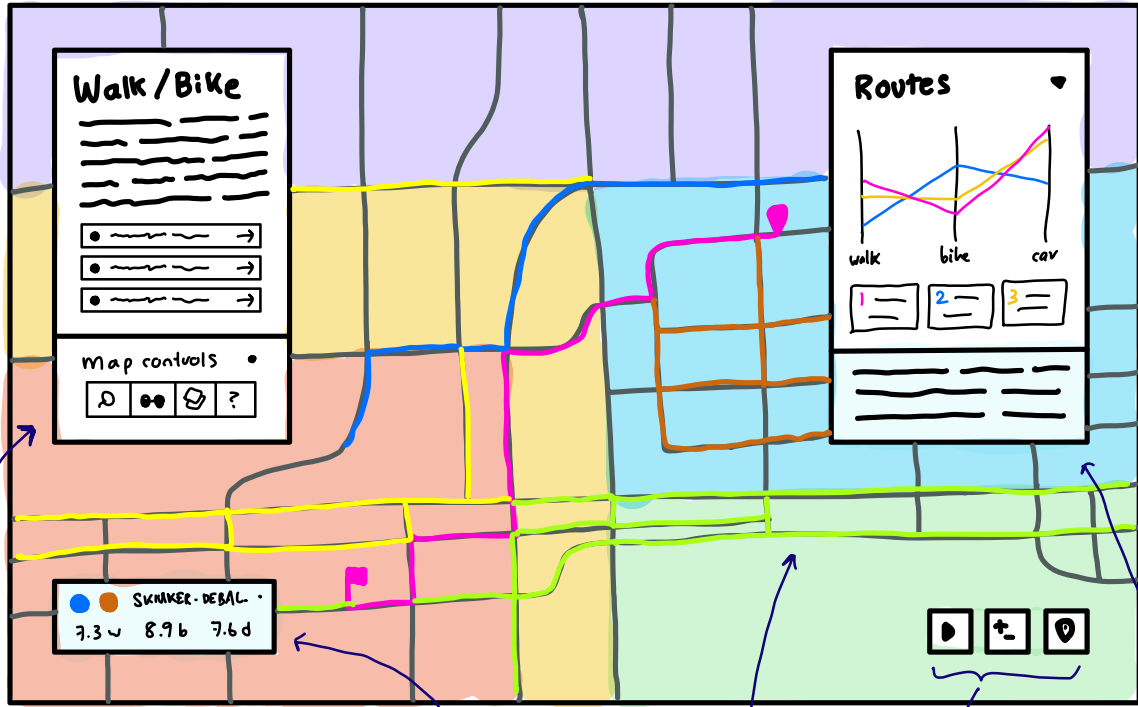
- Shows all available space
- Allows user to interact with data & view multiple types of data easily

### Disadvantages

- Could be difficult to style without being cluttered
- Potentially too much on screen simultaneously

# 5

## Realization Design



### Description, sources, and map controls

- give a description of the visualization
- show API/data sources
- map controls like: search, layers, help, etc.

### Neighbourhood/Area Tooltip

- Show area name, colour/symbols, and walk/bike scores

### Highlighted paths/roads

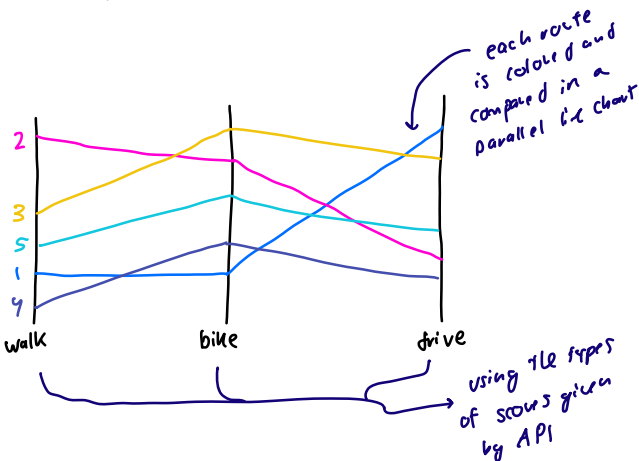
- coloured based on feasibility and scores

### Map actions

- zoom
- set location, etc.

### Routes Visualization

- Show a comparison w/4 modes
- And a description of the mini-viz



### What operations?

- most normal types of map operations, like search/zoom
- clicking and interacting w/routes to get more info
- viewing stat breakdowns