

data

Program

Summary
Statistics

Visualization

Program

Main

funcs.cpp

funcs.h

→ setup()

→ Run()

→ teardown()

funcs for
classes

• other funcs

- Read in data
- Store in vector
- Rotate through directions
- Stack incoming cars
- stoplight timing
- randomize directions turning
- if cars arrive when light
- red, stop \rightarrow accelerate
- dynamic speed variable
- distance across intersection
- acceleration variable
- unprotected left turns - yield
- allow drivers to change when they commute
- measurement of # of cars passing through intersection during given times
- decrease speed limit during school time

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- each car is a class
 - incoming dir \rightarrow given by data
 - turning? \rightarrow random selection only for eb/wb
 - time waiting
 - speed
 - weight / acceleration

Funcs. cpp

- Read data
- update intersection state
 - arrive / leave
- Arrive
 - for each dir, pushback car class
 - random gen parameters
- Turning?
 - Return R, L, S
- speed / wait?
 - speed limit or time / acceleration
- A accelerate
 - random
- update time waiting

Set up()

load data()

Direction classes()

Tracking variables()