

LOAD

GRAPHS

- Load graphs
- Load gtfs feed
- (convert gtfs to graph)

POPULATION

- OD pairs
- Preference data

BUILD

WORLD

DRIVE NETWORK

WALK NETWORK

TRANSIT NETWORK

ONDEMAND NETWORK

fx: generateNetwork

DELIVERIES

Generate

- centers
- Transit stops

Compute:

- OD pair
- preference data
- trip types

fx: generateDeliveries

POPULATION

PEOPLE

From:

- OD pair
- preference data
- trip types

Compute:

- Possible trips

fx: generateIndividual  
makeTrip  
planDijkstraSeg  
planGTFSSeg  
raptor\_shortest\_path

fx: world\_of\_drive  
world\_of\_walk  
world\_of\_ondemand  
world\_of\_gtfs  
world\_of\_transit\_graph

ITERATE

WORLD

DRIVE NETWORK

- update edge costs
- shortest path for all trips

WALK NETWORK

TRANSIT NETWORK

- shortest path for all trips

ONDEMAND NETWORK

- redivide up trips
- traveling salesman

fx: planDelivSegs  
divideDelivSegs

POPULATION

fx: update\_choices

PEOPLE

Compute:

- Query trip possibilities
- Compare weighted costs
- Add chosen trip (or all) to chosen paths

fx: makeTrip  
queryTrip  
querySeg

