

Public Transit:
GGR424 - Transportation Geography & Planning

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What is public transit?

- ▶ Regularly scheduled vehicle trips
- ▶ Open to all paying passengers
- ▶ Can carry multiple passengers
- ▶ Whose trips may have different origins, destinations, and purposes

"transit is about multiple people riding in one vehicle even though they are not intentionally travelling together or even going to the same places"

Walker (2011)



Public Transit Benefits: Efficiency



https://www.reddit.com/r/Damnthatsinteresting/comments/daugu5/public_transport_vs_private_transport/

What makes transit useful? Seven demands of public transit:

1. It takes me *where* I want to go
2. It takes me *when* I want to go
3. It is a good use of my *time*
4. It is a good use of my *money*
5. It *respects* me in the level of safety, comfort, and amenity it provides
6. I can *trust* it
7. It gives me *freedom* to change my plans

Walker (2011)

Components of a public transit system:

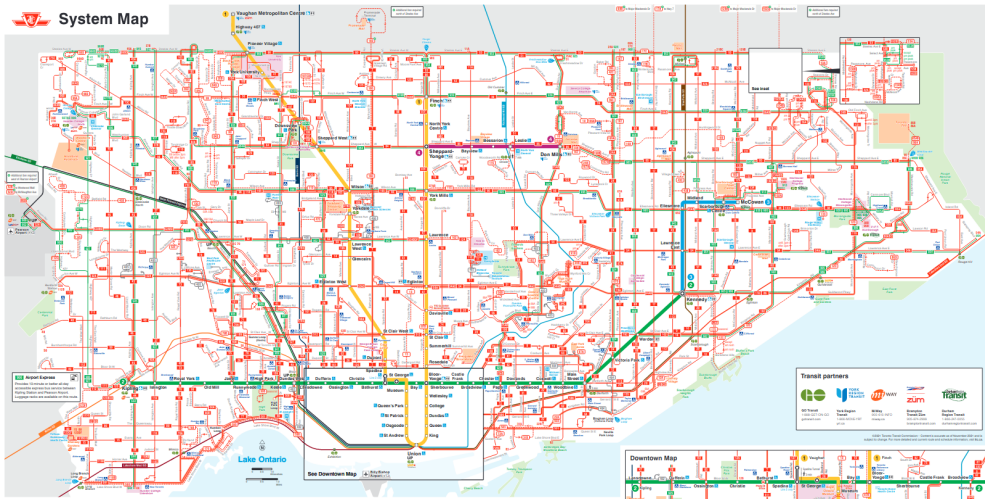
- ▶ **Network** - the combination of all connecting routes and stops
- ▶ **Routes** - connections between stops, usually fixed
- ▶ **Vehicles** - that traverse routes on set schedules
- ▶ **Stops** - where people access and exit the network, or transfer between routes



Types of transit network layouts: Radial



Types of transit network layouts: Grid



<https://www.ttc.ca/routes-and-schedules/>

Types of transit network layouts: Combination



Routes Characteristics:

- ▶ Technology
- ▶ Level of separation from other transport
- ▶ Speed
- ▶ Capacity
- ▶ Frequency
- ▶ Stop Spacing

Routes - Technology

Routes - Regional

Routes - Intra-urban Rapid Transit

Routes - LRT / BRT

Routes - Surface Routes

Routes - Frequency