

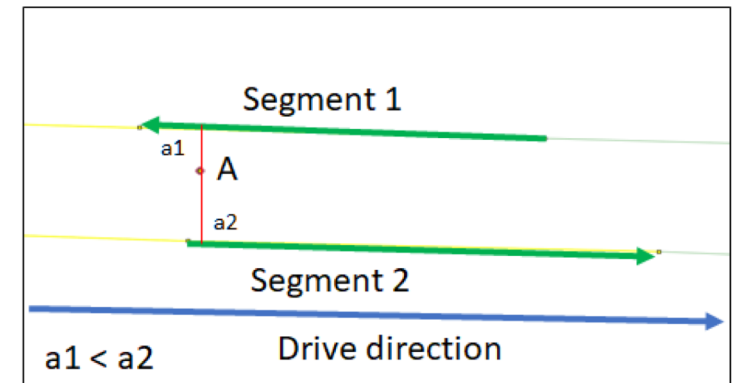
Requires trajectory reconstruction algorithms

Snap way-points of a trip to road segments

- Find the K-nearest neighbors ($k=10$, and distance within 100 meters) as the candidates
- Select the candidate with largest cosine

Fill segment gaps by heuristic algorithms

- Due to large time interval between two waypoints (1~2mins or longer), intermediate segments may be missing
- Use road network topology
- **Need to use a [shortest path] algorithm** to fill the gaps between two segments
 - This assumes that drivers take the shortest path between the two recorded waypoints...



Due to the uncertainty of GPS positioning, we cannot always employ the nearest segment to snap the waypoint