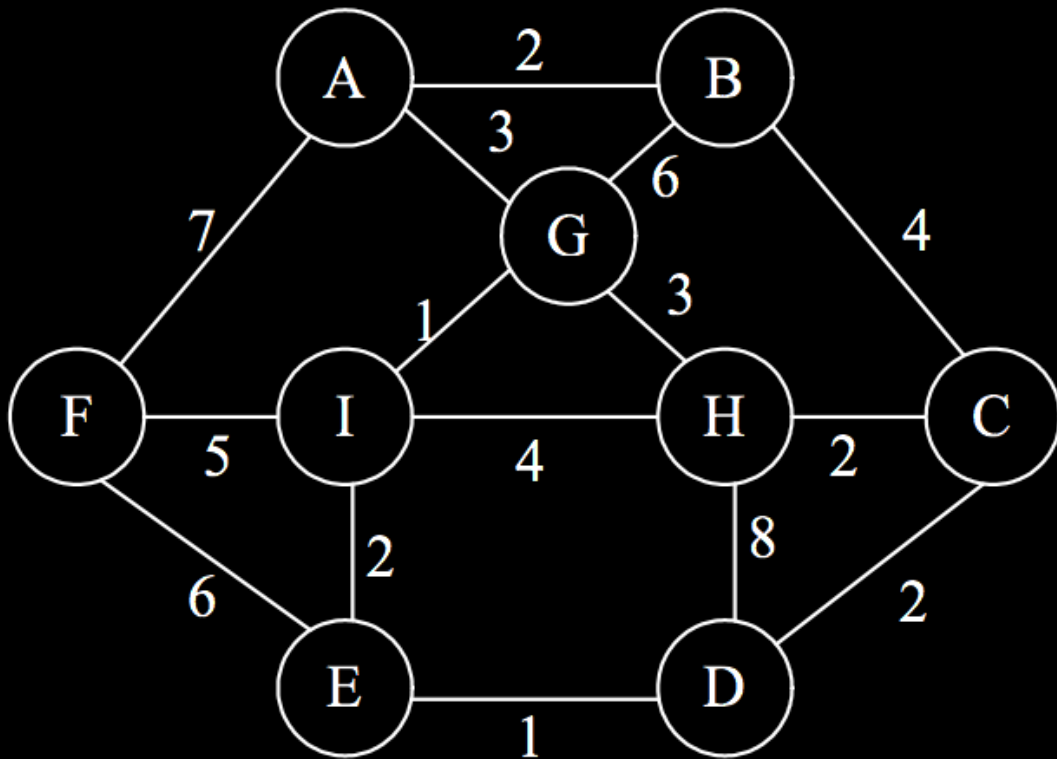


Routeplanning



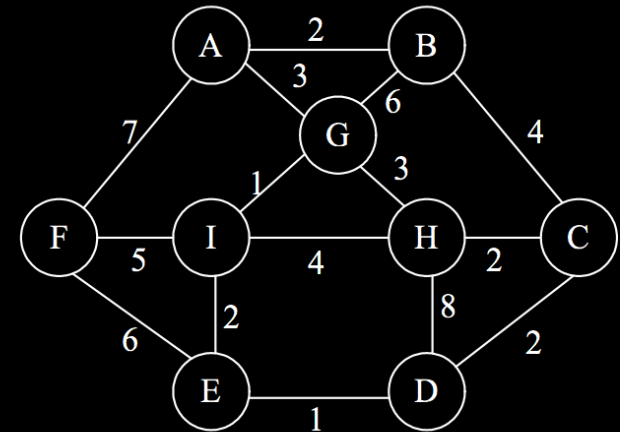
Routeplanning

Determine for each piece of road:

- Whether we can drive on it
- The *cost* of driving on it

Build a graph – what roads are connected

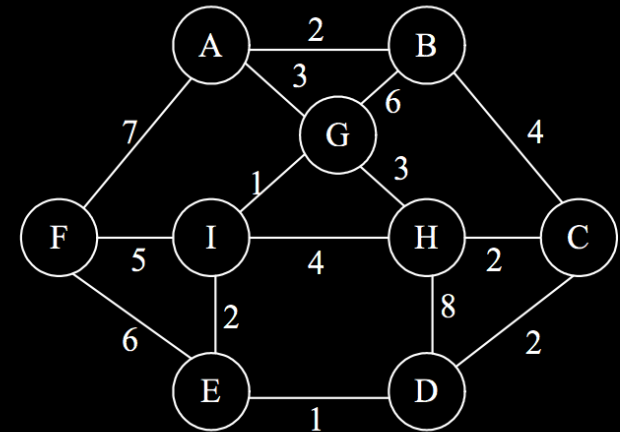
Find the *cheapest* way from A to B



Routeplanning: cost of a road

Our routeplanner uses aspects which are combined

- Can we access this road? Is it one-way?
- What is the (legal) maxspeed?
- How comfortable is a segment?
- How safe feels the road?
- How fast does an average cyclist go?
- Is it part of a network?
- ...



Access of a road

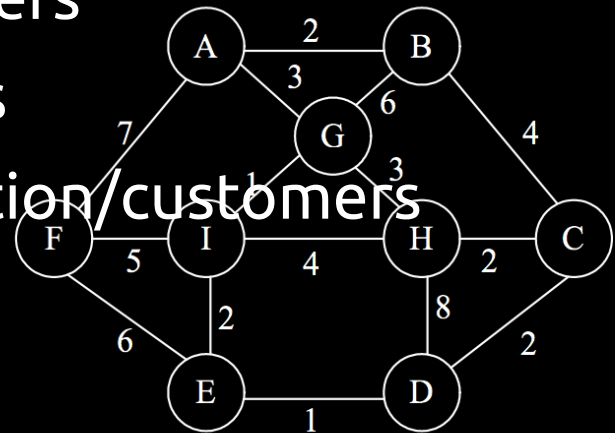
- Can I access the road with <vehicle>?

access=yes/no/private/permmissive/customers

bicycle=yes/no/private/permmissive/customers

foot=yes/no/private/permmissive/customers

motor_vehicle=yes/no/private/destination/customers



Access of a road

motor_vehicle=destination

bicycle=yes



Access of a road

motor_vehicle=destination

bicycle=yes

speed_pedelec=no



Access of a road

motor_vehicle=destination

bicycle=yes

speed_pedelec=yes

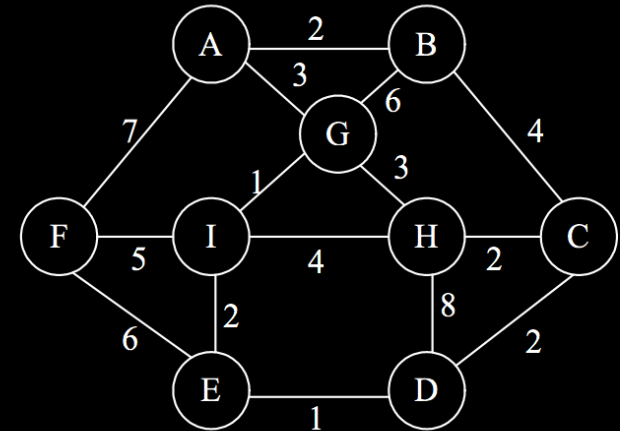


Oneway of a road

- Can I travel the road in two directions with <vehicle>?

oneway=yes / no / -1

oneway:bicycle=yes/no



Oneway of a road

- oneway=yes



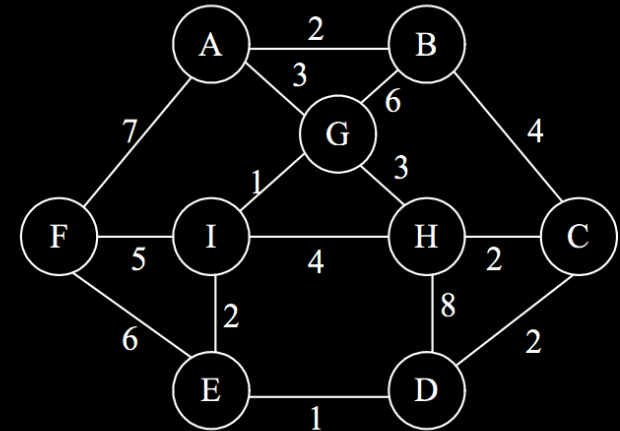
Oneway of a road

- oneway=yes
- oneway:bicycle=no



Cycleway classifications

- Map it as a seperate cycleway?
- Or map is attribute on the road



Cycleway classifications

- Separate cycleway if there is at least one meter between the road and the cycleway
- In the case of D07 “Verplicht fietspad”:
The **main road for cars** is not allowed for bicycles

bicycle=use_sidepath



Cycleway classifications

Add a **cycleway=*** tag onto the main road in the case of

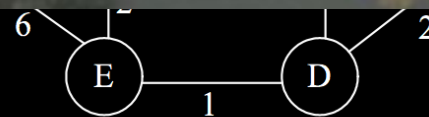
- “Moordstrookje”: **cycleway=lane**
- Fietssuggestiestrook/sharrow/: **cycleway=shared_lane**
- With the bus: **cycleway=shared_bus_lane**
- Separate track: **cycleway=track**
The line between cycleway=track and drawing it is thin



Tags (9)

bridge	yes		i
cycleway	lane		i
highway	primary		i
lanes	2		i
layer	1		i
maxspeed	50		i
name	Brugsesteenweg		i
ref	N9		i
toll:hgv	yes		i

+



Cycleway classifications

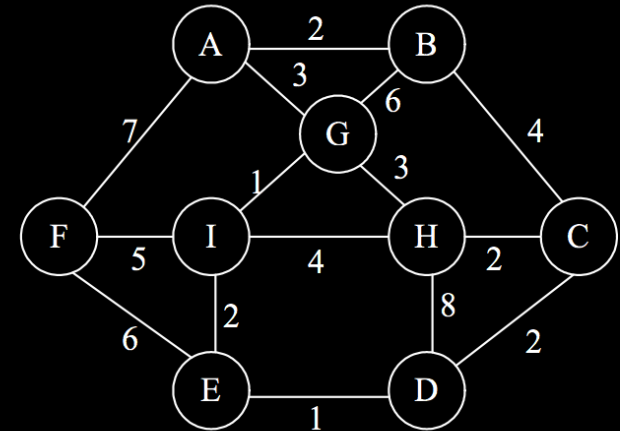
Track vs. lane vs. seperate drawing... use your judgement

There are areas where `cycleway=track` is on the main road, others where it is drawn seperately

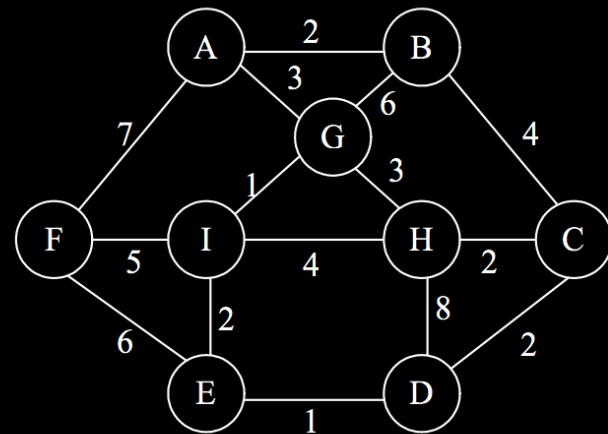
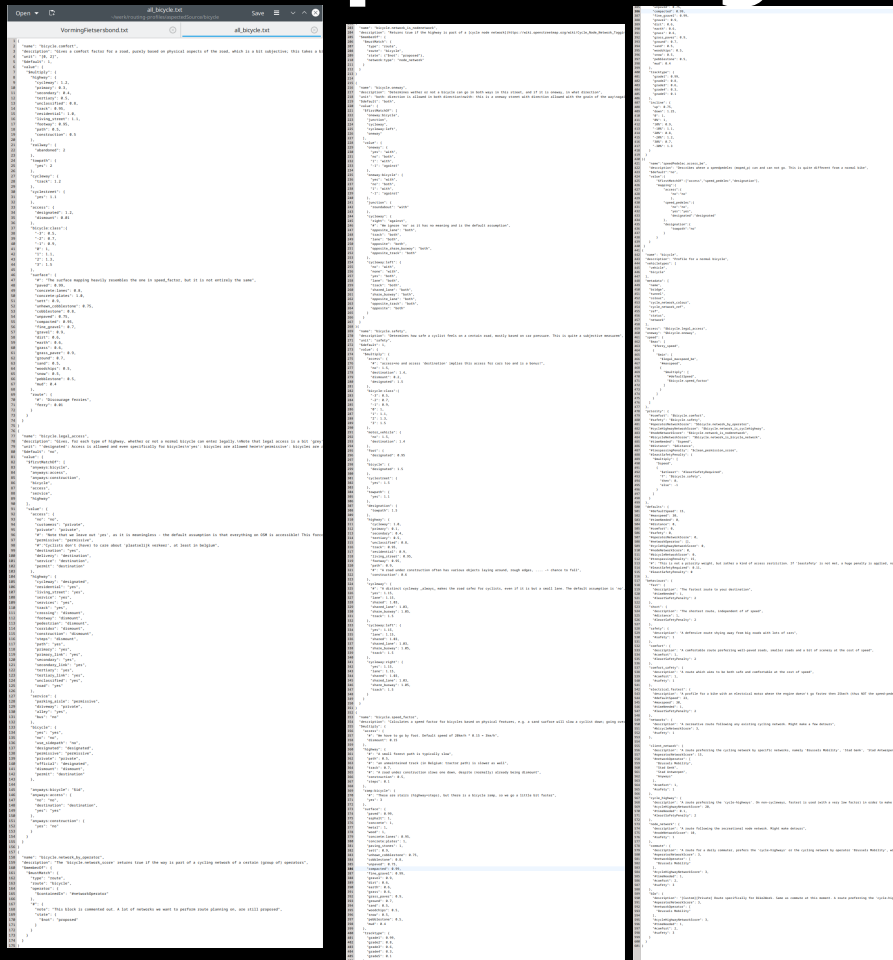


How comfortable is a segment?

```
7 "$multiply": {
8   "highway": {
9     "cycleway": 1.2,
10    "primary": 0.3,
11    "secondary": 0.4,
12    "tertiary": 0.5,
13    "unclassified": 0.8,
14    "track": 0.95,
15    "residential": 1.0,
16    "living_street": 1.1,
17    "footway": 0.95,
18    "path": 0.5,
19    "construction": 0.5
20  },
21  "railway": {
22    "abandoned": 2
23  },
24  "towpath": {
25    "yes": 2
26  },
27  "cycleway": {
28    "track": 1.2
29  },
30  "cyclestreet": {
31    "yes": 1.1
32  },
33  "access": {
34    "designated": 1.2,
35    "dismount": 0.01
```



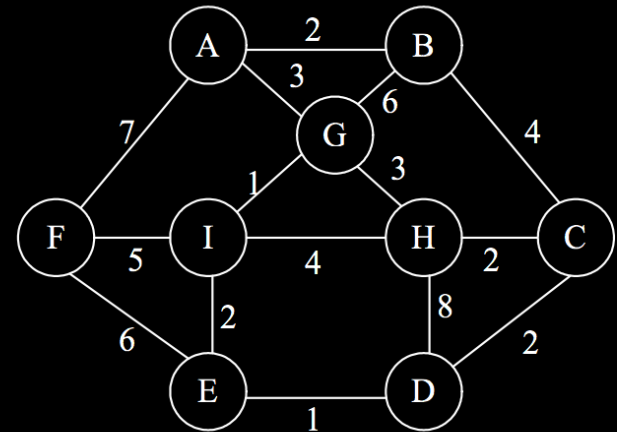
Routeplanning: cost of a road

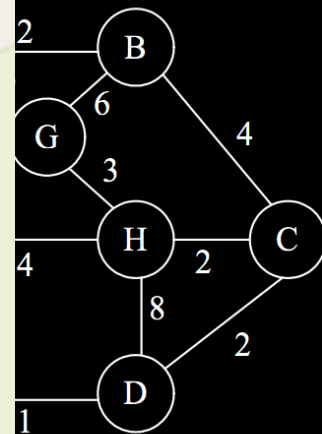


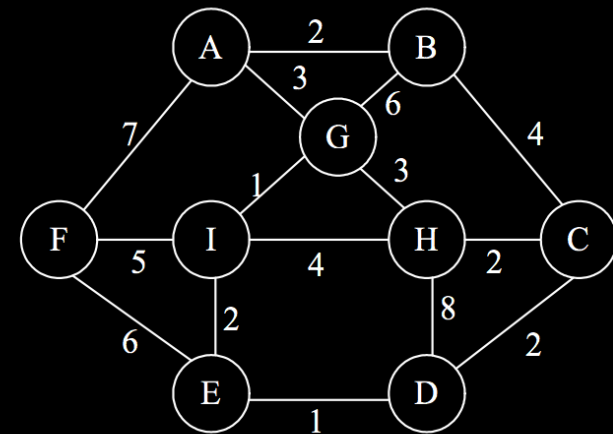
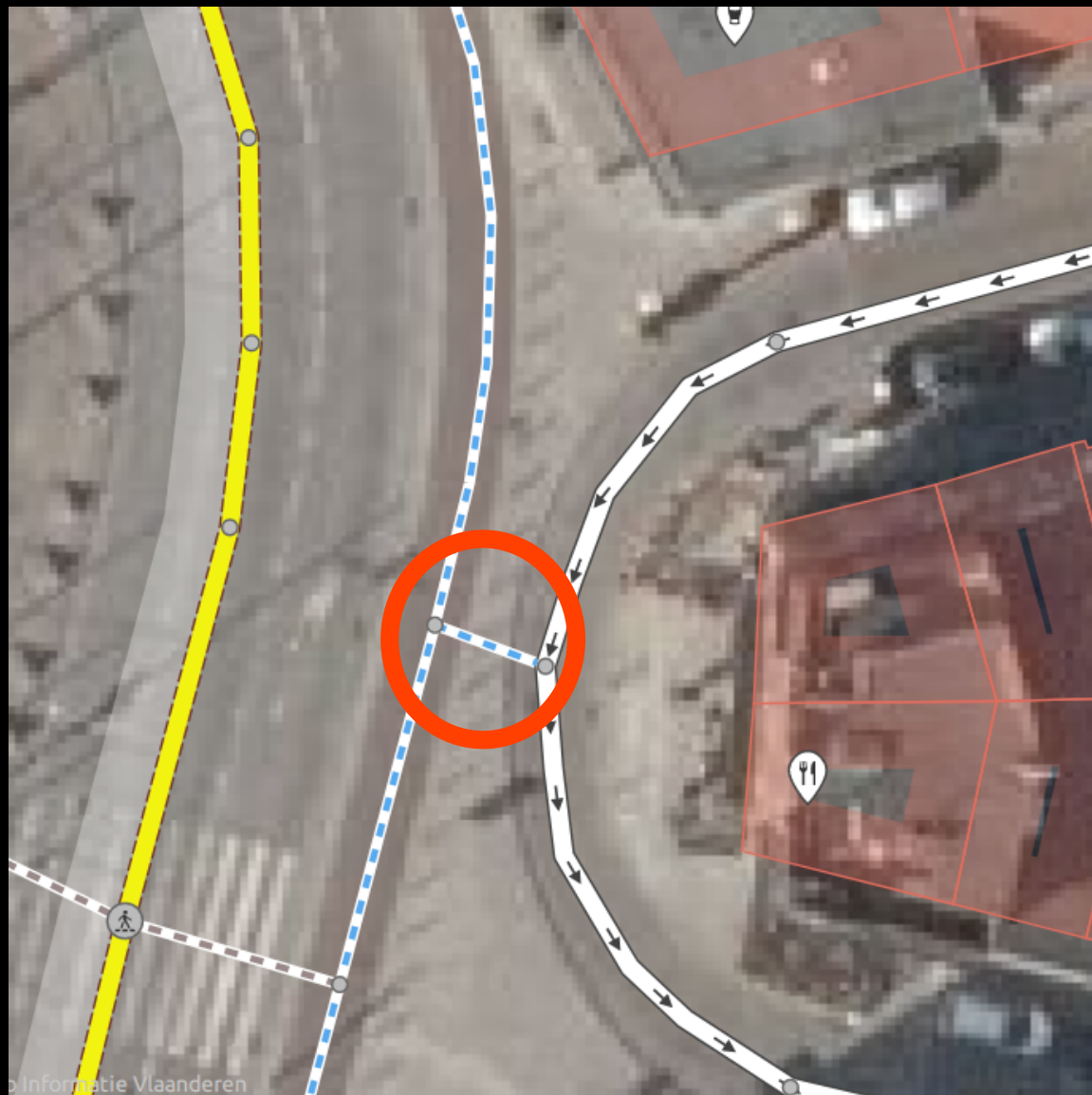
Help! The proposed route I've gotten is not what I want it to be!

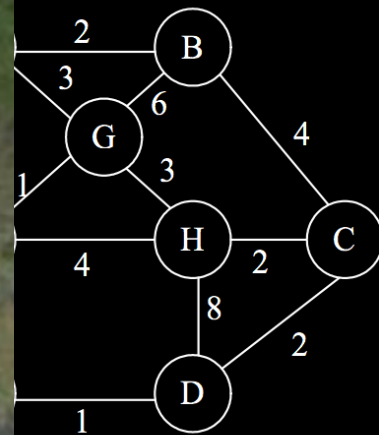
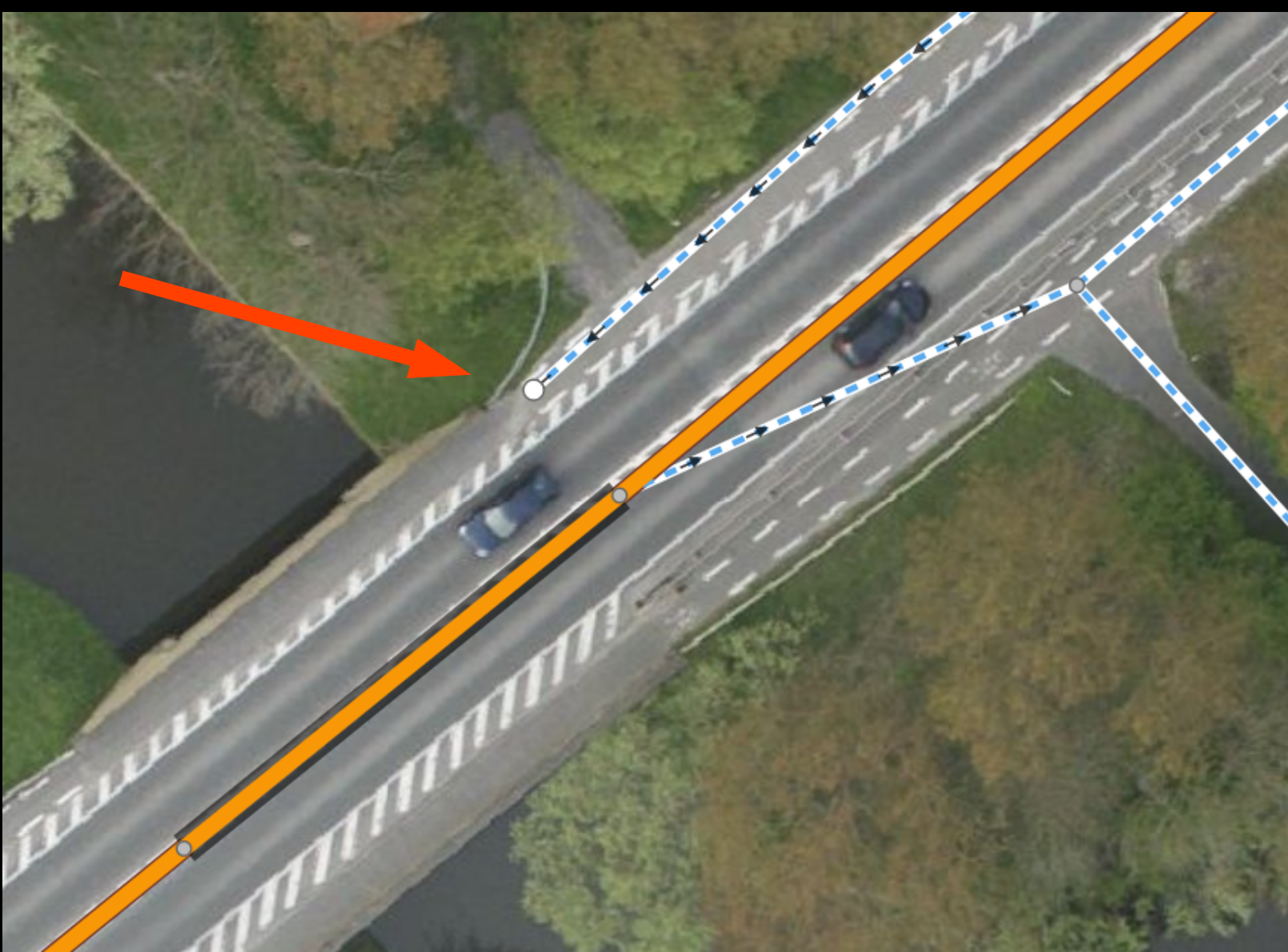
Check the data. Is everything tagged correctly?
Is a link missing?

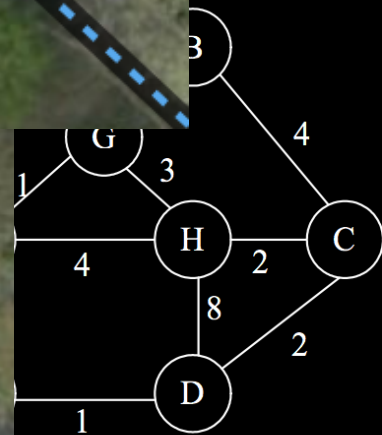
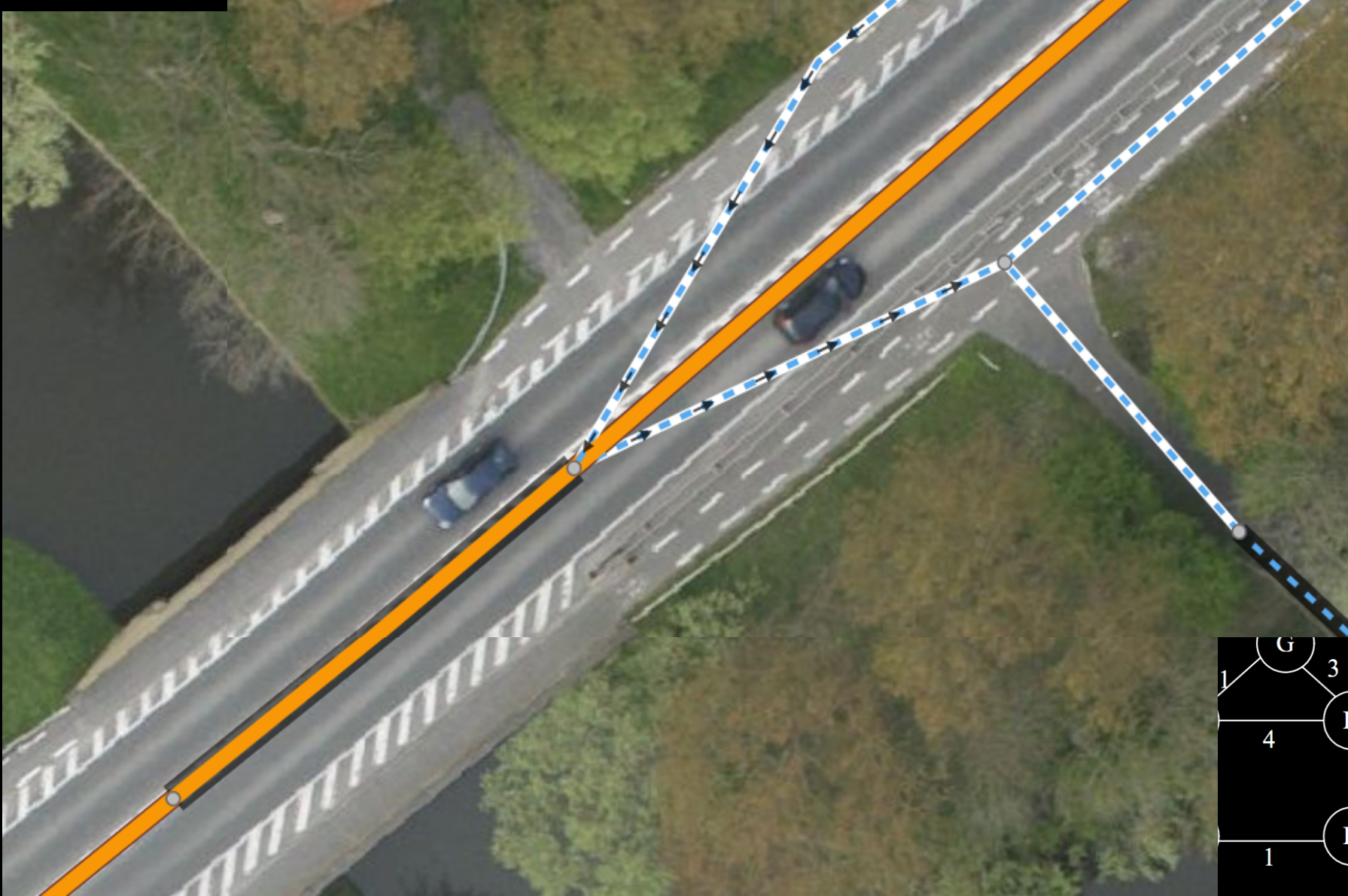
(Changes take some time to be picked up by routeplanners)











Help! The proposed route I've gotten is not what I want it to be!

Check the data. Is everything tagged correctly?
Is a link missing?

(Changes take some time to be picked up by routeplanners)

Ask help from others (e.g. Thierry)

Try another profile

Change the profile

