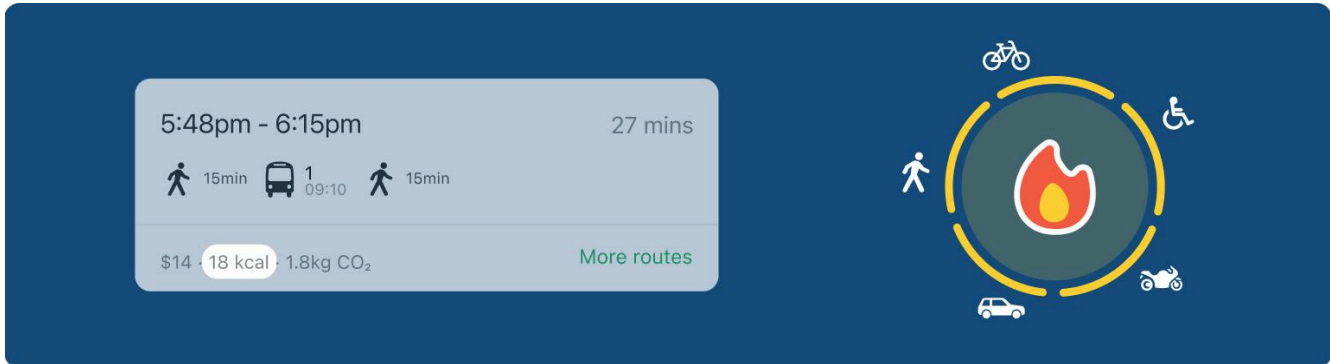# SKEDGO

How we calculate calories

Every portion of a trip that corresponds to any of the previous activities will add up to the total calories cost of the trip. The public transport portions of a trip don't add up any calories by themselves, but e.g.: walking to/from the train station does add the corresponding walking calories. Also note that we only add the "active" calories associated to each activity, this is achieved using a formula like this:

Active calories = **Total calories** - **Passive calories**
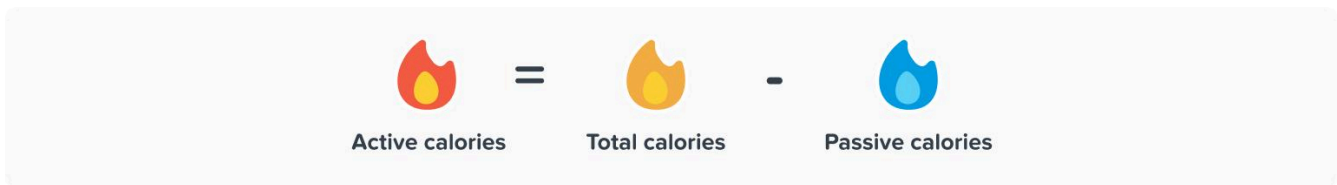
Riding motorbike
3 kcal/min[1]

Driving car
2 kcal/min[2]

Walking
Slow: 74 kcal/km[3]
Medium: 54 kcal/km[4]
Fast: 48 kcal/km[5]

Cycling
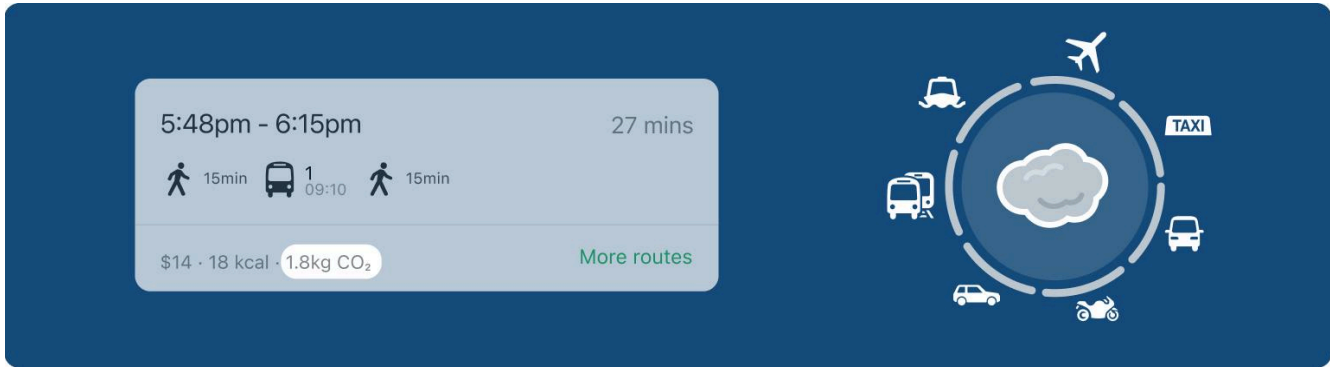Slow: 28 kcal/km[6]
Medium: 23 kcal/km[7]
Fast: 23 kcal/km[8]

Rolling a wheelchair
120% x Walking calories

Passive calories
1 kcal/min[9]

Sources:

1. http://www.wolframalpha.com/input/?i=calories+burnt+1hr+motorcycle+driving
2. http://www.wolframalpha.com/input/?i=calories+burnt+for+1hr+driving+car
3. http://www.wolframalpha.com/input/?i=calories+burnt+for+1km+walking+at+2km%2Fh
4. http://www.wolframalpha.com/input/?i=calories+burnt+for+1km+walking+at+4km%2Fh
5. http://www.wolframalpha.com/input/?i=calories+burnt+for+1km+walking+at+6km%2Fh
6. http://www.wolframalpha.com/input/?i=calories+burnt+for+1km+cycling+at+8km%2Fh
7. http://www.wolframalpha.com/input/?i=calories+burnt+for+1km+cycling+at+12km%2Fh
8. http://www.wolframalpha.com/input/?i=calories+burnt+for+1km+cycling+at+16km%2Fh
9. http://www.wolframalpha.com/input/?i=calories+burnt+1hr+doing+nothing

How we calculate carbon emissions

5:48pm - 6:15pm   27 mins

🚶 15min   🚌 1 09:10   🚶 15min

$14 · 18 kcal · 1.8kg CO₂   More routes

The carbon cost is measured in kg of CO_2 emissions. The carbon emissions for a trip are the sum of the emissions of each segment, and are reported per passenger kilometre.

Per-vehicle emissions

Car*
171 gram/km

Motorbike*
111.38 gram/km[1]

Taxi / TNC**
257.25 gram/km

Van / shuttle bus***
49.6 gram/km[2]

Per-passenger emissions:

Commuter train
41 gram/km[1]

Bus
117.74 gram/km[1]

Light rail / tram
28.61 gram/km[2]

Subway
28 gram/km[2]

Ferry
111.31 gram/km[1]

Intercity coach
27 gram/km

Intercity train
35 gram/km

Plane
244 gram/km[1]

Sources:

(1) EEA'16: https://www.eea.europa.eu/publications/term-report-2016/download

(2) https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/69314/pb13625-emission-factor-methodology-paper-110905.pdf

Notes:

(*) Motorbike and car emissions are customisable as input parameters to routing, so that API users can adjust them according to specific vehicle emissions and occupancy rates.

(**) When converting to per-passenger emissions, regular taxi trips assume a single passenger, while taxi pooling assumes two passengers, halving the emissions.

(***) When converting to per-passenger emissions, assumes average occupancy of 5 passengers per vehicle.