Bike Lanes

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Created by: *ggando_lyft*
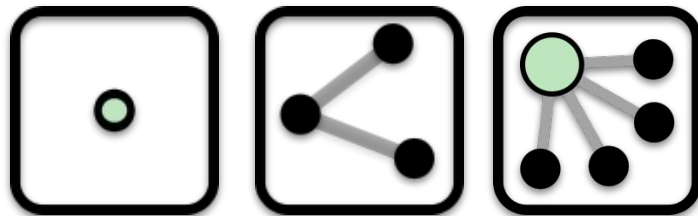
lyft

Agenda

- **Objective**
- **Bike Lanes**
  - **Shared cycleway**
  - **Cycle Track vs Cycle Lane**
  - **Intersections**
  - **ASL**
  - **Designated Cycle Lane**
  - **Through Bike Lane**

Objective

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Gain a understanding of the tags needed to edit, parking & bike lanes in OSM.

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Biking Lanes

Shared Cycleway

Shared Cycleway

- Bike lanes that are not separate from motorized traffic
- markings that indicate that cars motor vehicles and bikes should share the lane
- use one of the following tags as needed:
  - **cycleway=shared_lane**
  - **cycleway:right=shared_lane**
  - **cycleway:left=shared_lane**

Sharrow - shared paint marking
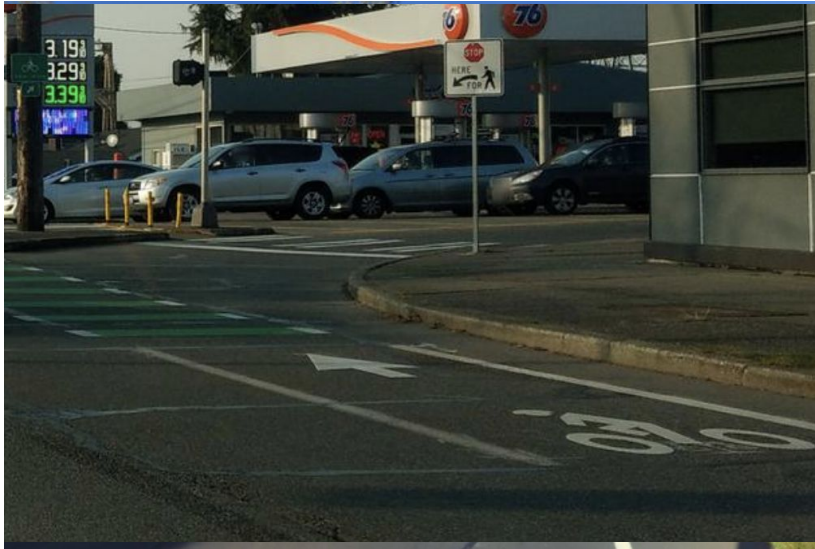
Example of Shared Cycleway

Cycleway Tags

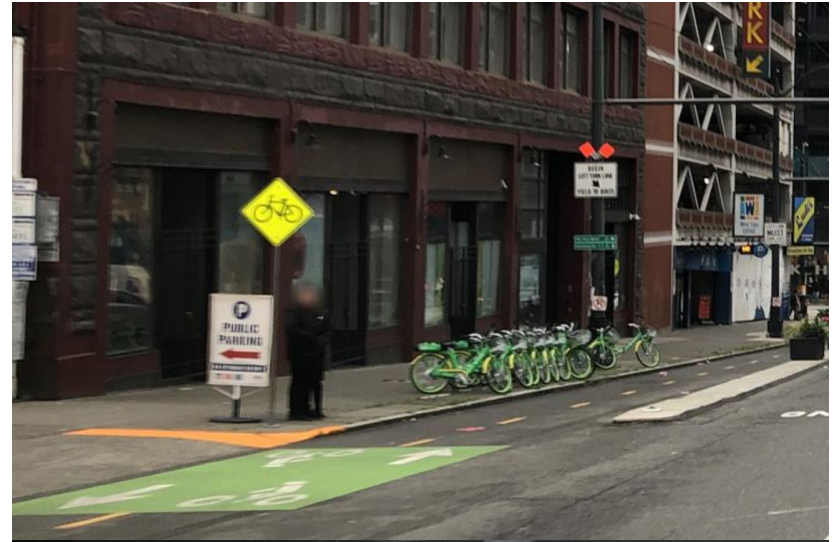| Key	Value
cycleway	shared_lane

Separate Marked Cycleways

Cycleway Lane vs. Cycle Track

A **cycleway** is actually a part of the road. A bicycle lane with nothing to mark it but a painted line or a symbol would fall under this category.
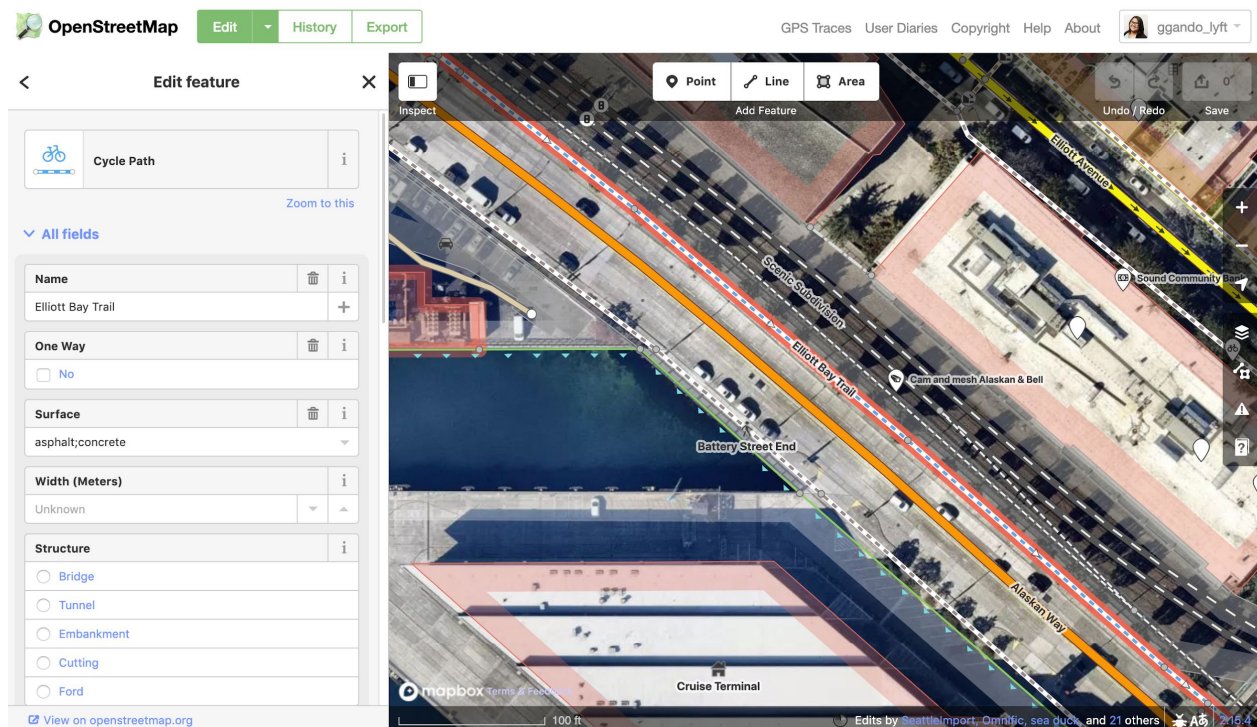
A **cycle track** is separated from the road by a physical barrier such as a curb or a segment of grass border, but still runs alongside it.
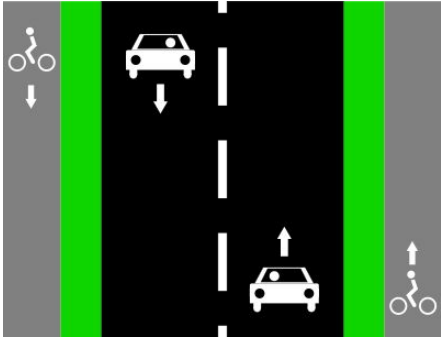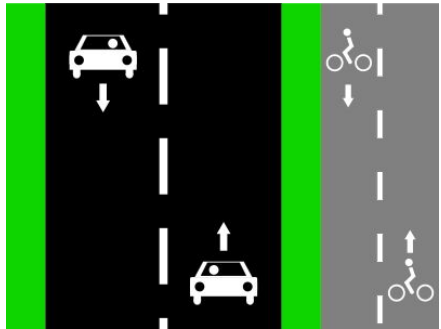
Cycle Track

- Sometimes the cycle track is modeled as its own specific way.
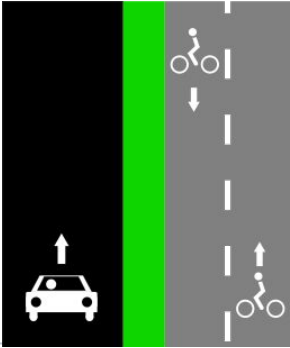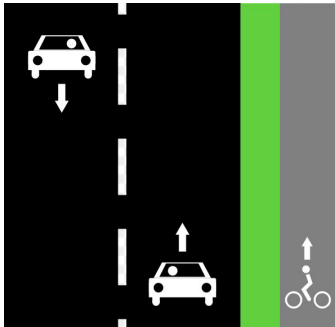- In this case **do not** add cycle tags to way with "highway=*" tag

See example in OSM
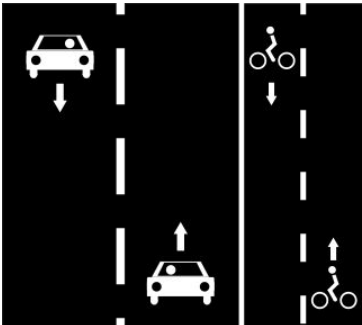
Cycle Track - Examples

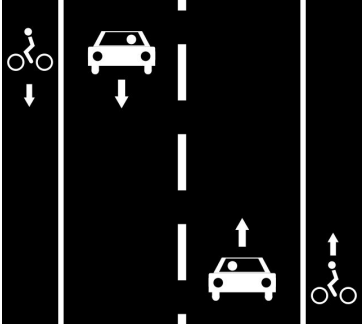| Diagram	OSM Way Forward	Description and Tags
	Way A ↑	Cycle tracks on left and right side of the road. **highway=*** **cycleway=track**
	Way A ↑	Bidirectional cycle track on the right side of the road. **highway=*** **cycleway:right=track** **cycleway:right:oneway=no**
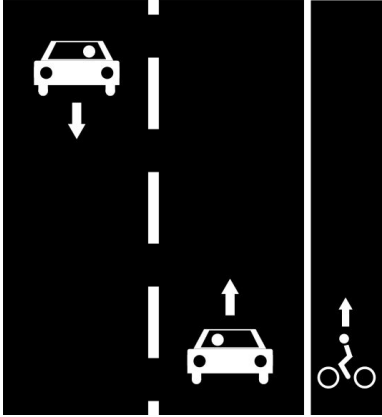
Cycle Track - Examples

Diagram	OSM Way Forward	Description and Tags
	Way A (arrow pointing up)	Bidirectional cycle track right side of the one way road **highway=*** **oneway=yes** **cycleway:right=track** **oneway:bicycle=no**
	Way A (arrow pointing up)	One-way cycle track on right side of the road. **highway=*** **cycleway:right=track**
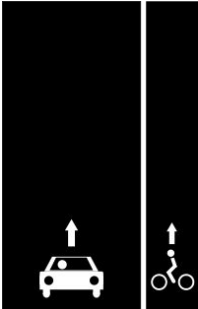
Cycle Lane Bidirectional Roads - Examples

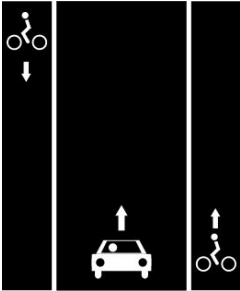| Diagram	OSM Way Forward	Description and Tags
	Way A	Cycle lanes on the left and right sides of the road. highway=* cycleway=lane
	Way A	Bidirectional cycle lane on right side of the road. highway=* cycleway:right=lane cycleway:right:oneway=no

Cycle Lane Bidirectional Roads - Examples

Diagram	OSM Way Forward	Description and Tags
	Way A	One way cycle lane on right side of the road only. highway=* cycleway:right=lane

Cycle Lane One Way - Examples

Diagram	OSM Way Forward	Description and Tags
	Way A	Cycle lanes on left and right sides of the one way road. **highway=*** **oneway=yes** **cycleway:left=lane** **cycleway:right=lane** **oneway:bicycle=no**
	Way A	One way cycle lane on right side and same direction of the one-way road. **highway=*** **oneway=yes** **cycleway:right=lane**

Cycle Lane One Road - Examples

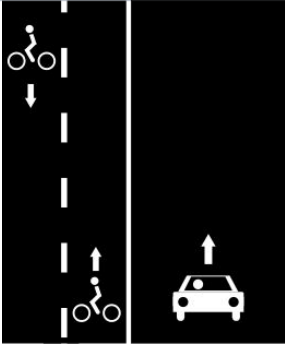| Diagram	OSM Way Forward	Description and Tags
	Way A	Cycle lanes on left side. **highway=*** **oneway=yes** **oneway:bicycle=no** **cycleway:left=lane** **cycleway:left:oneway=no**
	Way A	A one-way road flanked by cycleways going the same direction of the one-way road. **highway=*** **oneway=yes** **cycleway:right=lane** **cycleway:left=lane**

Cycleways & Intersections

Cycleways & Intersections

- Cycleways are typically protected by a solid white painted line
- Closer to an intersection where the solid white line becomes dashed
- Dash line indicates that motor vehicles can temporarily use the bike lane to safely turn right into a perpendicular way
- Tag this way as a **cycleway lane** **not** a shared cycleway

Advance Stop Line

Advance Stop Line

- Use the tag **cycleway=asl** on a node located at the position of the secondary stop line on way.
- The secondary stop line node should be added at the line where the bikes stop (closer to the crosswalk).
- If the ASL is on a bidirectional way, add directionality to the node by using the tag:
  **direction=forward OR
  direction=backward**
  - Make sure it is own independent way
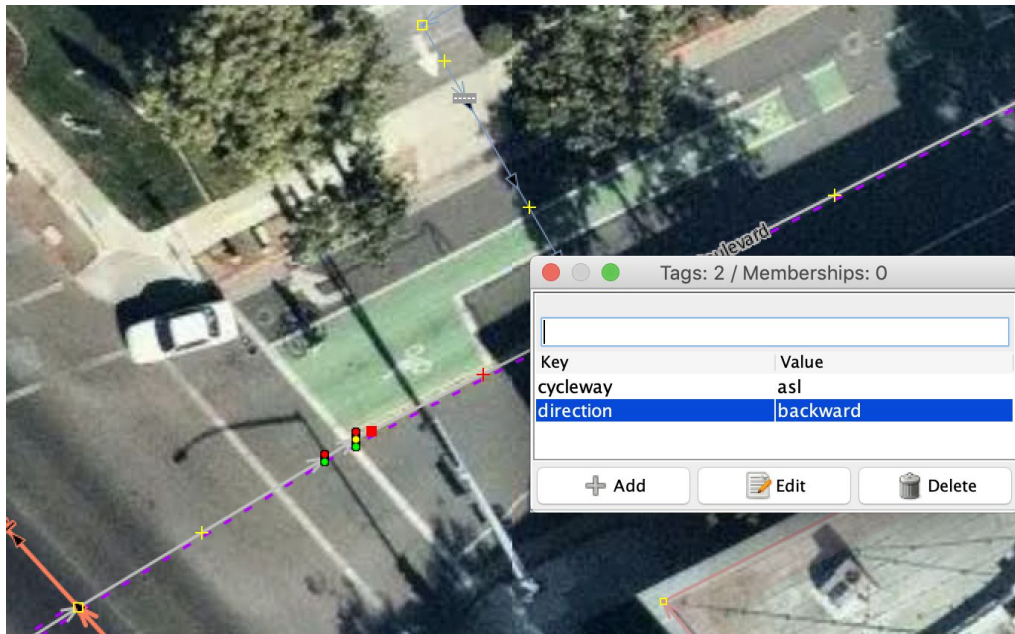
Designated Cycleways in Between Motorized Vehicle Lanes

Designated Cycleway Tags

Keys	Values	
bicycle:lanes bicycle:lanes:forward bicycle:lanes:backward	**Values**	**Value Description**
	designated	A lane designated for cyclists. Motorized traffic is restricted from using this lane.
	no	A cyclist cannot travel in this lane, it is only for use by motorized traffic.
	yes	A cyclist can travel in this lane (e.g. a left hand turn lane). However, it is primarily used by motorized traffic.

Example 1 - Common Lane Tags
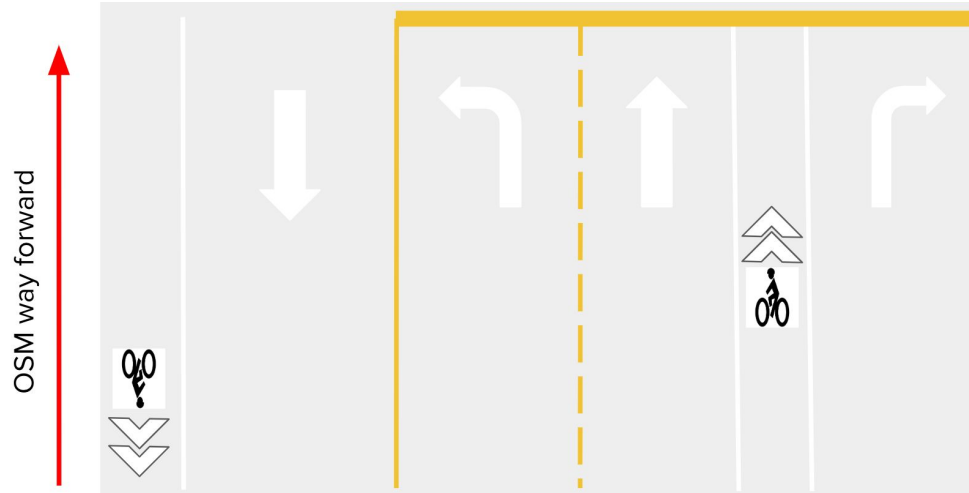
Key	Value
lanes	4
lanes:forward	3
lanes:backward	1
turn:lanes:forward	left|through|right

OSM way forward

Example 1 - Cycleway Tags

OSM way forward
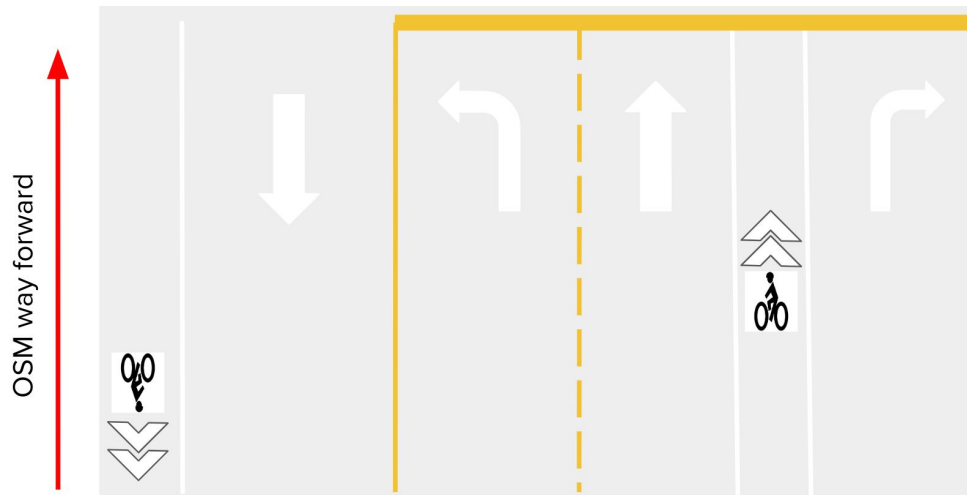
Explanation on the next slide

Key	Value
cycleway:left	lane
bicycle:lane:forward	yes|no|designated|yes

Example 1

OSM way forward

lanes=4	This applies to the total number of motorized vehicle lanes on for this segment of the way (both directions)
lanes:backward=1	This applies to the count of motorized vehicle lanes that travel the opposite direction of the OSM way forward
lanes:forward=3	This applies to the count of motorized vehicle lanes that travel the same direction of the OSM way forward
turn:lanes:forward=left|through|right	This applies to the turn lanes of the motorized vehicle
bicycle:lanes:forward=yes|no|designated|yes	1. A cyclist can turn left from the left hand turn lane 2. A cyclist cannot use the motorized vehicle lane to go straight through the intersection 3. A cyclist is required to use the designated bike lane to go straight through the intersection 4. A cyclist can turn right from the right hand turn lane
cycleway:left=lane	This applies to the bike lane that is to the left of motorized traffic (in respect to the direction that the way has been mapped in OSM)

Example 2

OSM way forward

Key	Value
lanes	5
lanes:forward	2
lanes:backward	3
turn:lanes:forward	left|none|right
cycleway:left	lane
bicycle:lanes:forward	yes|no|designated|yes

Through Cycleway

Through Cycleway

- There are scenarios where a bike lane to the right of traffic will move through traffic to a designated bike lane sandwiched between vehicle lanes
- For bike lanes similar to this scenario, use designated bike lane tags
- Do not use shared bike lane tags

Through Bike Lanes

Thank you