

Destination Signs

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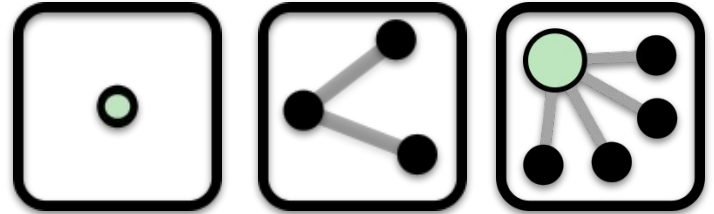
Agenda

- **Objective and Vocab**
- **Destination Signs**
- **Examples**
- **Training Sheets**
- **Editing instruction**

Objective

Objective

Gain a understanding of how to read and edit destinations signs in OSM.



Vocab

Destination Sign - a sign that details a route, road, city, or place for a vehicle to ascend to.

Exit Sign - a sign that indicates where a freeway exit is occurring, and is sometimes marked with a number of that exit

Exit number- The junction/exit number from the exit sign. Examples: 236, 11A, 51A-B

Link road - link roads are used to identify slip roads or ramps

Toward location - The location that the exit/ramp/slip road will head toward

Toward route number - The route number that the exit/ramp/slip road will head toward

Toward road name - The road name that the exit/ramp/slip road will head toward

Branch route number - The route number that the exit/ramp/slip road will branch onto

Branch route name - The road name that the exit/ramp/slip road will branch onto

Advisory speed limit - When a exit/ramp/slip road has an advisory speed sign

Route marker - the highway shield including the interstate or state route number

Destination Signs

Destination Tags in Scope

Key	Value	Description
junction:ref	*	Exit number
destination	*	Toward direction
destination:ref	*	branch route number [route direction]
destination:ref:to	*	toward route number [route direction]
destination:street	*	branch road name











Ex. Derry Street

Note: Write out the street type,
'Derry Street'

Route Marker

- Route markers will indicate the type of route marker and number of the route.
- Signs differ from location, below are route signs in CA
- Know the market you are working in, seek out additional resources for locations

Route	Route Value	Route Example
Interstate	I #	  
U.S. Route	US #	 
California State Route	CA #	
County Route	CR #	 

Destination Signs Examples with Tags

Non-numeric Exit Sign

***destination:street'** tag will be used on the way



Node

Key	Value
highway	motorway_junction
noref	yes

Way

Key	Value
highway	motorway_link
oneway	yes
destination:street	Derry Street

Unnumbered Exit

When using destination
ref remember convert
route symbol to text



Node

Key	Value
highway	motorway_junction
noref	yes

Way

Key	Value
highway	motorway_link
oneway	yes
destination:street	Mill Valley;Stinson Beach
destination:ref	CA 1

Shared Exit

When multiple values are needed for the same key, separate with ;



Node

Key	Value
highway	motorway_junction
ref	53

Way

Key	Value
highway	motorway_link
oneway	yes
junction:ref	53
destination	Pittsburg;Antioch ;Martinez;Hercules
destination:ref	CA 4

Freeway before motorway junction



When Freeway crosses the destination sign, specific information on the sign describes the future behavior of traffic lanes. The number of lanes and exit geometry are described by satellite imagery/ Mapillary and Bing Street Side Imagery.

- The **lanes=*** tag - number of traffic lanes.
- The **turn:lanes=*|*** tag - turn markings for individual lanes. Value starting with the left most lane, ending with the right most and separated with a | (vertical bar).
- The **destination:lanes=*|*** tag - destination of each lane. Usually, leftmost and rightmost lanes are described by the exit signs. Each value separated with a | (vertical bar).

Motorway Junction (Node)



When a link road deviates from a way for an exit, the node where the link road starts is tagged to indicate the point of the road changes. The node will only need two tags to identify an exit. The tag **highway=motorway_junction** is used to indicate the type of highway feature. This tag is used for *any* type of link road when it is needed to indicate an exiting or splitting from another link way. The **motorway_junction** tag should not be used for segments going ON ramp.

- the **ref=*** tag is used to indicate the exit number.
- If no exit number can be verified through open source imagery, then the tag **noref=yes** should be tagged

Motorway Link (Way)



The first link road should include all tags necessary with the information available for the destination and exit. The highway link type will be indicated in the **highway=*_link** tag, and the **oneway=yes** tag that indicates the link road is one way. In rare cases a link road will be tagged as **oneway=no** if it is a bi-directional road.

- The **junction:ref=*** tag - the exit number for the way.
- The **destination=*** tag - the name of the destination the motorway junction is exits to.
- The **destination:street=*** tag - the type of road instead.
- The **destination:ref=*** tag - used if the destination includes a route marker
- The **destination:ref:to=*** tag - used if the destination includes a 'TO' destination (proceeding destination in an exit's sign),

Training Sheets

Practice 1

Node

Key	Value

Way

Key	Value



Practice 2

Not all cells of the table will be used

Node

Key	Value

Way

Key	Value



Way

Key	Value

Answer Key to Training Sheets

Practice 1

Node

Key	Value
highway	motorway_junction
noref	yes

Way

Key	Value
highway	*_link
oneway	yes
destination: street	El Monte Road; Moody Road



Practice 2

Not all cells of the table will be used

Node

Key	Value
highway	motor_junction
noref	yes

Way

Key	Value
highway	*_link
oneway	yes
destination	San Jose
destination:street	John Daly Boulevard East
destination:ref	I 280



Way

Key	Value
highway	*_link
oneway	yes
destination:street	John Daly Boulevard West

Editing instruction

1. Open the editor and photos attached to the task

- Use only attached photos. Using Mapilari, bing, etc. is **not required**.
- From a large number of photos, you need to choose those in which the information about the right exit and lanes destination (wide green sign) is **clearly visible**.



2. "Not an Issue" tasks tagging scheme

no_ds_sign – the reference image in the task doesn't contain DS sign

already_exists – when the DS sign is already mapped in OSM in the right way

far_away – when there's a sign on the image but it's hard to read the info from it due to it's too far away

wrong_road – when the top N (1- N) photos do not relate to the exit

bad_quality - the image is hard to read

other – for any non mentioned above cases.

3. Check the lanes number at the selected road section

- Select the part of the road (freeway) between the node and the sign that is closest to the exit and check **if the number of lanes is the same throughout the selected section of the road.**
- **If** the number of lanes changes and/or the selected part of the road goes beyond the node, **then** split it.
- **If** a road section with the same number of lanes (even with a short length of 15-20 m.) could be selected, **then** go to step 4.



4. Required tags for freeway:

turn:lanes=*
destination:lanes=*

bicycle	no		
destination:lanes	none none none none none;Whipple Road;Indu...		
foot	no		
hgv	designated		
highway	motorway		
horse	no		
hov	lane		
lanes	5		
maxspeed	65 mph		
maxspeed:hgv	55 mph		
maxspeed:trailer	55 mph		
name	Nimitz Freeway		
note:lanes	left lane is hov		
oneway	yes		
ref	1880		
sidewalk	none		
turn:lanes	none none none none through;slight_right		
+			



5. Apply tag **turn:lanes = * for lanes which are used for the turn (according to the policy)**

6. Apply tag destination: lanes = * according to the policy

It's important to find signs in the proposed photos which clearly describe the destination of all the lanes on the selected road section.



Motorway

highway	motorway
lanes	5
turn:lanes	none none none through;slight_right slight_right
destination:lanes	none Walnut Creek;San Jose Walnut Creek;San Jose Walnut Creek;San Jose;Pittsburg;Antioch Martinez;Hercules

Node

highway	motorway_junction
ref	53

Linkway

7. Check if tags on the motorway link (blue line in the task preview) match with the destination sign on the photo

Possible tags:

destination=*

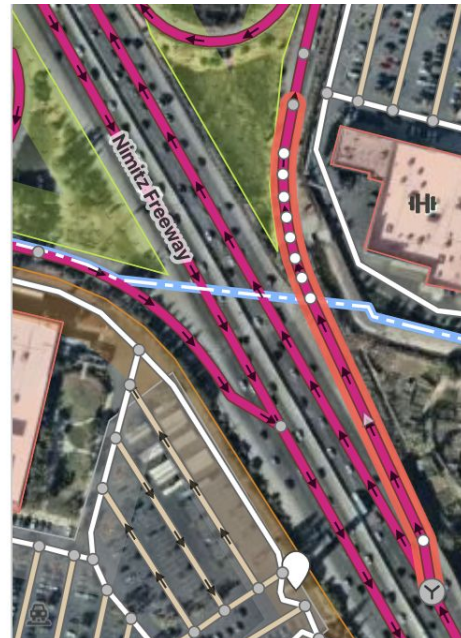
destination:street=*

destination:ref=*

destination:ref:to=*



Tags (10)			
destination:street	Whipple Road;Industrial Parkway		
highway	motorway_link		
junction:ref	residential		
lanes	service		
maxspeed:advisory	track		
oneway	unclassified		
tiger:cfcc	footway		
tiger:county	path		
tiger:reviewed	tertiary		
turn:lanes	secondary		
+			



Note: if these tags are applied only to part of the motorway link, **don't need to apply** these tags to the rest of the link sections.

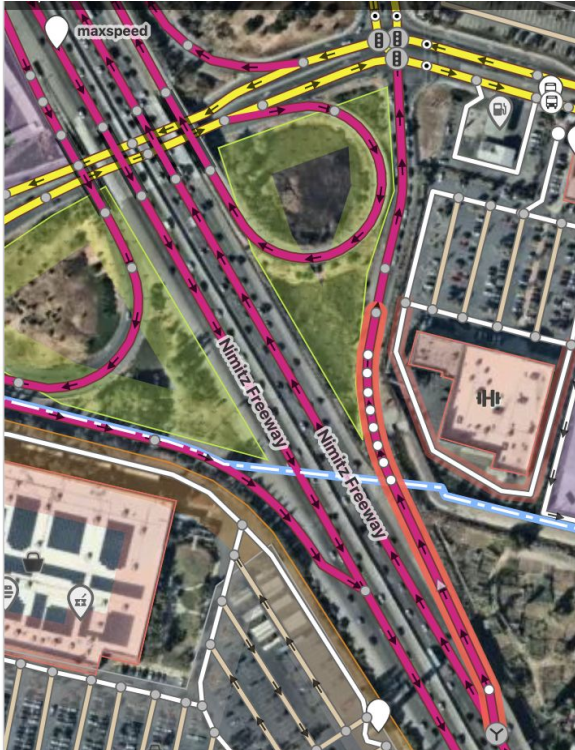
▼ Tags (10)

destination:street	Whipple Road;Ind...	🗑️	i
highway	motorway_link	🗑️	i
junction:ref	24	🗑️	i
lanes	1	🗑️	i
maxspeed:advis...	35 mph	🗑️	i
oneway	yes	🗑️	i
tiger:cfcc	A63	🗑️	i
tiger:county	Alameda, CA	🗑️	i
tiger:reviewed	no	🗑️	i
turn:lanes	through	🗑️	i

+

▼ Relations (0)

+



The map shows a complex highway interchange. A section of the highway is highlighted in red, and another section is highlighted in yellow. The red section is labeled 'Nimitz Freeway' and the yellow section is labeled 'Nimitz Freeway'. A 'maxspeed' tag is visible on the yellow section. The map also shows surrounding buildings, parking lots, and other road features.

8. Check if existing tags on the motorway junction match with the destination sign on the photo:

highway=motorway_junction

ref= exit number

OR noref=yes (if there is no number on the sign)

Tags (2)

highway	motorway_junction		
ref	24		
<div>+</div>			

Relations (0)

+



9. Save changes with a short comment for QC



**Thank
you**

July 30, 2020