# Stop Signs

**Last Updated: June 1, 2020**
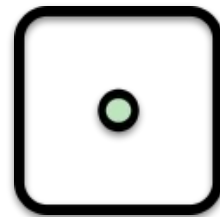
Created by: *ggando_lyft*

# Agenda

- **Objective**
- **Stop Signs**
  - **Tags**
  - **Minor Stop**
  - **Complex Intersections**
  - **All-Way**
- **Summary of Stop Tags**
- **Training Worksheets**
- **Key to Training Worksheets**

# Objective

# Objective

**Gain a understanding of the tags needed to edit stop and yield signs in OSM.**

# Stop Signs

# Stop Sign

A stop sign will be modeled at the actual location on a road where the vehicle would actually stop.

There are multiple sub-categories of stop signs in OSM:
- **Minor Road Stop Signs**
- **All-Way Stop Signs**

**Stop Sign Indications:**
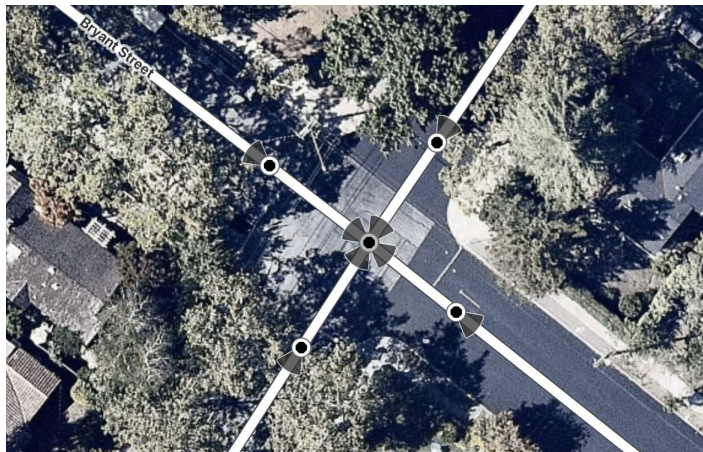- Physical stop sign
- The word "Stop" painted on the pavement

# Stop Sign Tags



| Key | Value |
|-----|-------|
| highway | stop |

All stop signs will be modeled as a node on a way with this tag.



| Key | Value |
|-----|-------|
| direction | forward |
| | backward |
| | both |

This tag is used for indicating the direction of traffic that the stop sign is used on bidirectional roads.

| Key | Value |
|-----|-------|
| stop | all |

Tag used to indicated center node of a all way stop.



| Key | Value |
|-----|-------|
| stop | minor |

If a stop is a minor stop

# Stop Sign Tags

If a physical sign exists add this tag.

If no physical sign exists do not add this tag.



| Key | Value |
| --- | --- |
| traffic_sign | stop |



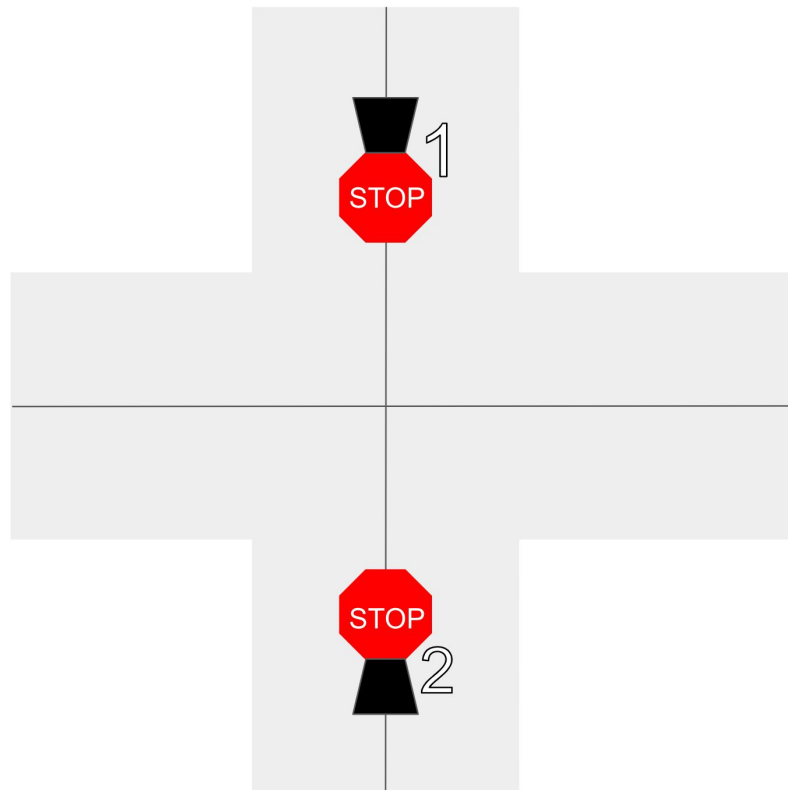| Key | Value |
| --- | --- |
| traffic_sign | stop |

# Minor Stops

# Minor Stop Signs

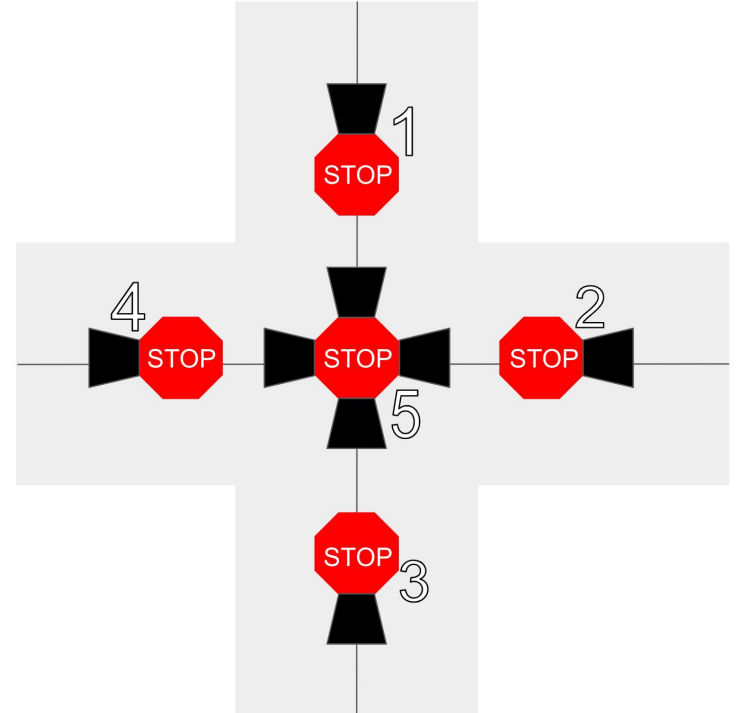Minor road stop sign tags are used at junctions where **some approaches** do not have to stop.
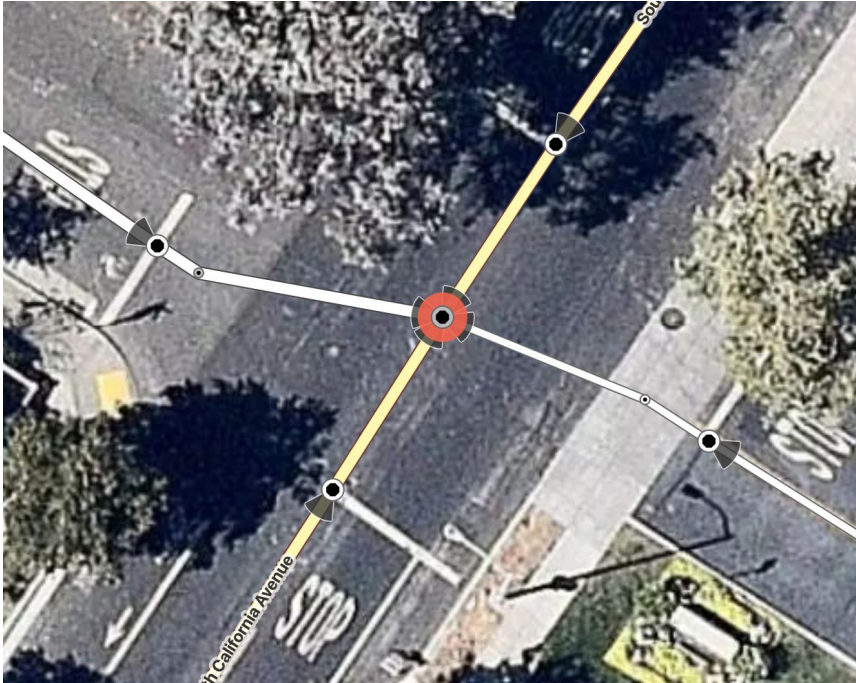
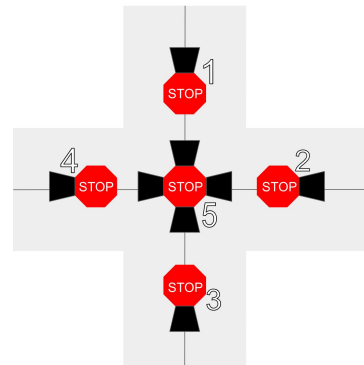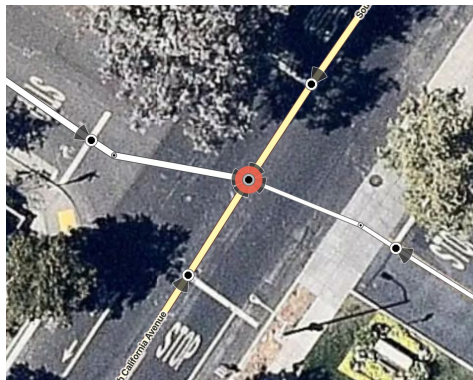| Key | Value |
|-----|-------|
| highway | stop |
| stop | minor |
| direction | 'forward' or 'backward' |

# All Way Stops

# All Way Stops

All way stops are defined all directions of traffic needing to stop.

# All Way Stops Example

- All 5 nodes in this intersection
  - 'highway=stop' tag added
    - To indicate all the stop signs
- Nodes 1-4
  - Will have a direction applied
- Node 5
  - Is the center of the all way stop intersection
  - The stop=all tag is included to the center node of an intersection, to indicate the type of stop is an all way stop
  - No direction is applied





For Nodes 1-4

| Key | Value |
|-----|-------|
| highway | stop |
| direction | 'forward' or 'backward' |

For Nodes 5

| Key | Value |
|-----|-------|
| highway | stop |
| stop | all |

# All Way Stops

All way stops are defined all directions of traffic needing to stop.

# All Way Stops Example 2

- All 4 nodes in this intersection
  - 'highway=stop' tag added
  - To indicate all the stop signs
- Nodes 1-3
  - Will have a direction applied
- Node 4
  - Is the center of the all way stop intersection
  - The stop=all tag is included to the center node of an intersection, to indicate the type of stop is an all way stop
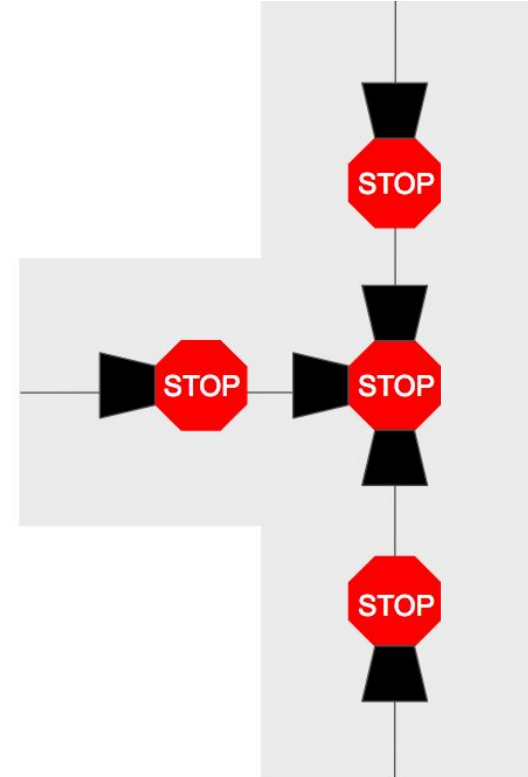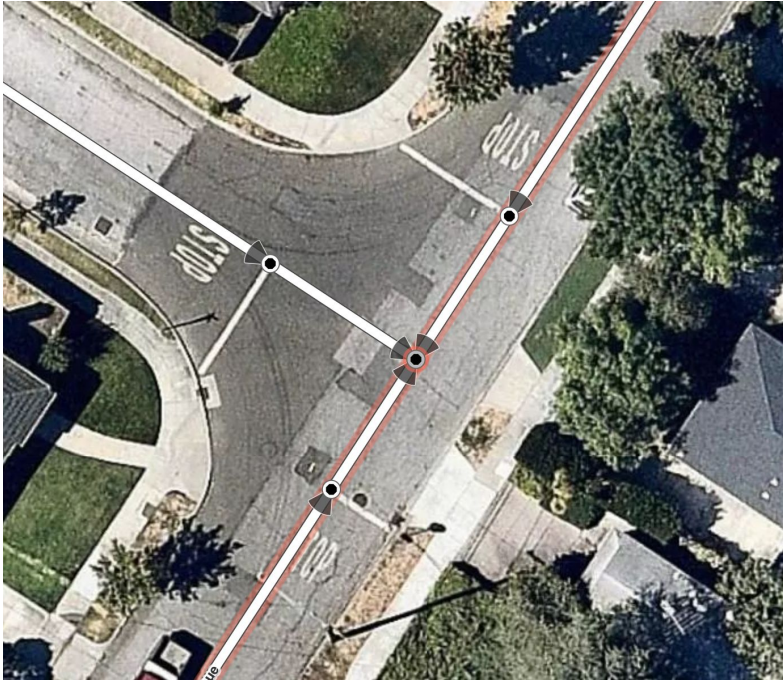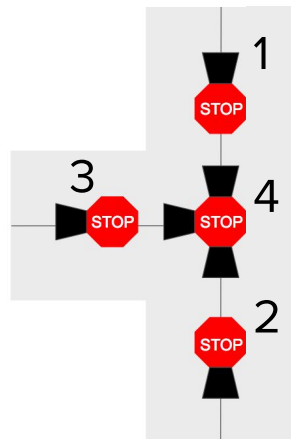  - No direction is applied





For Nodes 1-3

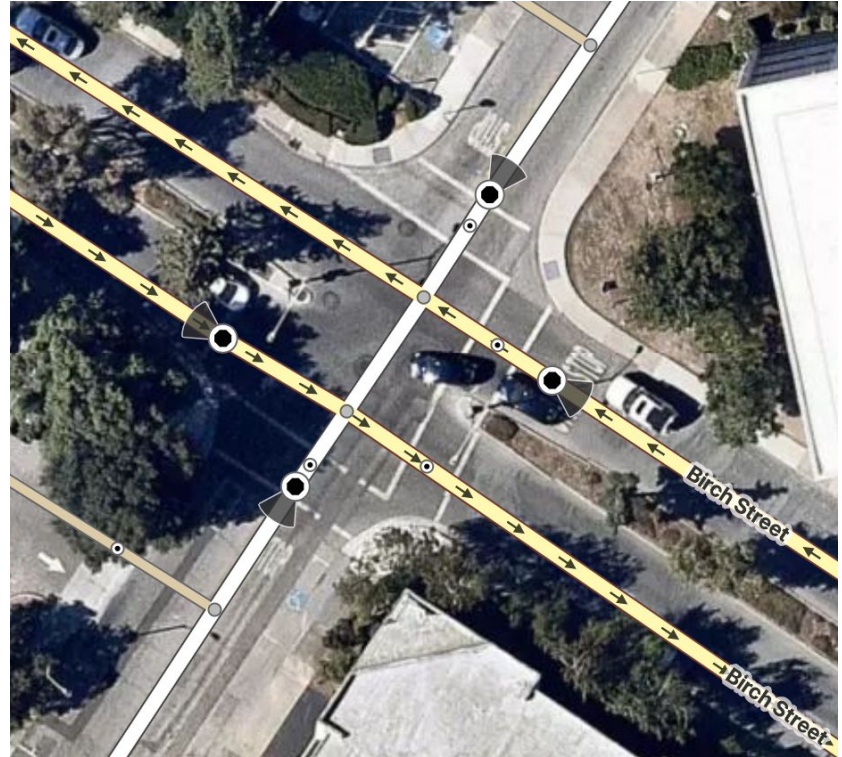| Key | Value |
|-----|-------|
| highway | stop |
| direction | 'forward' or 'backward' |

For Nodes 4

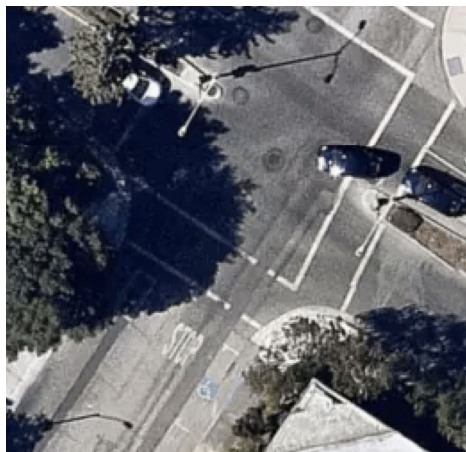| Key | Value |
|-----|-------|
| highway | stop |
| stop | all |

# Complex Intersection

# Complex Intersections

- In the event that an intersection has more than one intersecting node (i.e. more than two intersecting ways)
- **Do not apply highway=stop** tags to the intersecting nodes
- Simply apply **highway=stop** tags to the stop line nodes

# Summary of Stop Tags

# Stop Sign Tags



| Key | Value |
|-----|-------|
| highway | stop |

All stop signs will be modeled as a node on a way with this tag.



| Key | Value |
|-----|-------|
| direction | forward |
| | backward |
| | both |

This tag is used for indicating the direction of traffic that the stop sign is used on bidirectional roads.

| Key | Value |
|-----|-------|
| stop | all |

Tag used to indicated center node of a all way stop.



| Key | Value |
|-----|-------|
| stop | minor |

If a stop is a minor stop

# Thank you

# Training Worksheets

# Practice 1

**Not all cells of the table will need to be used**

| Tag | Value |
|-----|-------|
|     |       |
|     |       |
|     |       |
|     |       |

| Tag | Value |
|-----|-------|
|     |       |
|     |       |
|     |       |
|     |       |

Assume that 4 physical stops signs are present

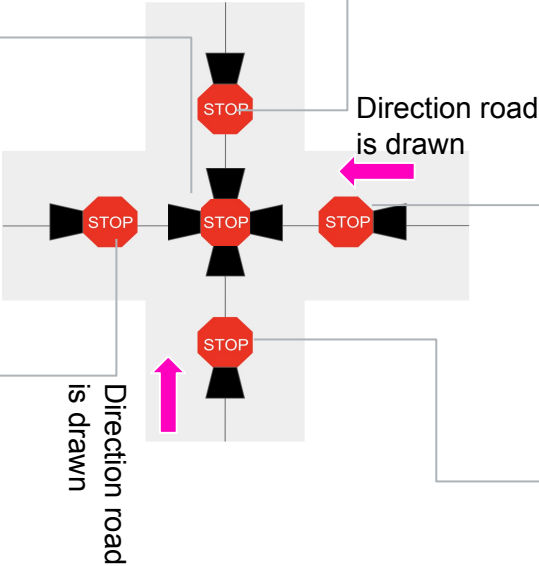| Tag | Value |
|-----|-------|
|     |       |
|     |       |
|     |       |
|     |       |

| Tag | Value |
|-----|-------|
|     |       |
|     |       |
|     |       |
|     |       |

| Tag | Value |
|-----|-------|
|     |       |
|     |       |
|     |       |
|     |       |

Direction road is drawn

Direction road is drawn

STOP

STOP

STOP

STOP

STOP

# Practice 2

**Not all cells of the table will need to be used**

| Tag | Value |
|-----|-------|
|     |       |
|     |       |
|     |       |
|     |       |

| Tag | Value |
|-----|-------|
|     |       |
|     |       |
|     |       |
|     |       |

Assume that 3 physical stops signs are present

| Tag | Value |
|-----|-------|
|     |       |
|     |       |
|     |       |
|     |       |

Direction road is drawn

One Way Road

| Tag | Value |
|-----|-------|
|     |       |
|     |       |
|     |       |
|     |       |

# Practice 3

**Not all cells of the table will need to be used**

Assume that 3 physical stops signs are present

| Tag | Value |
|-----|-------|
|     |       |
|     |       |
|     |       |
|     |       |

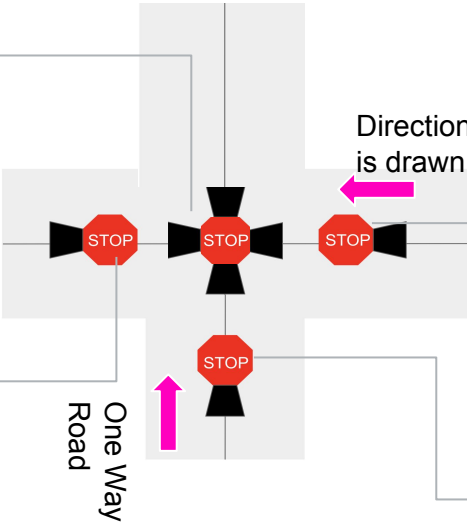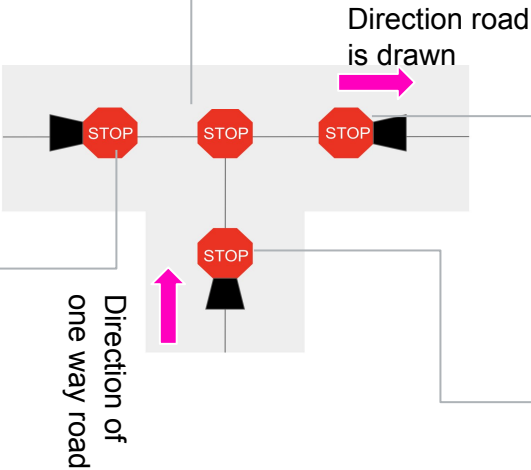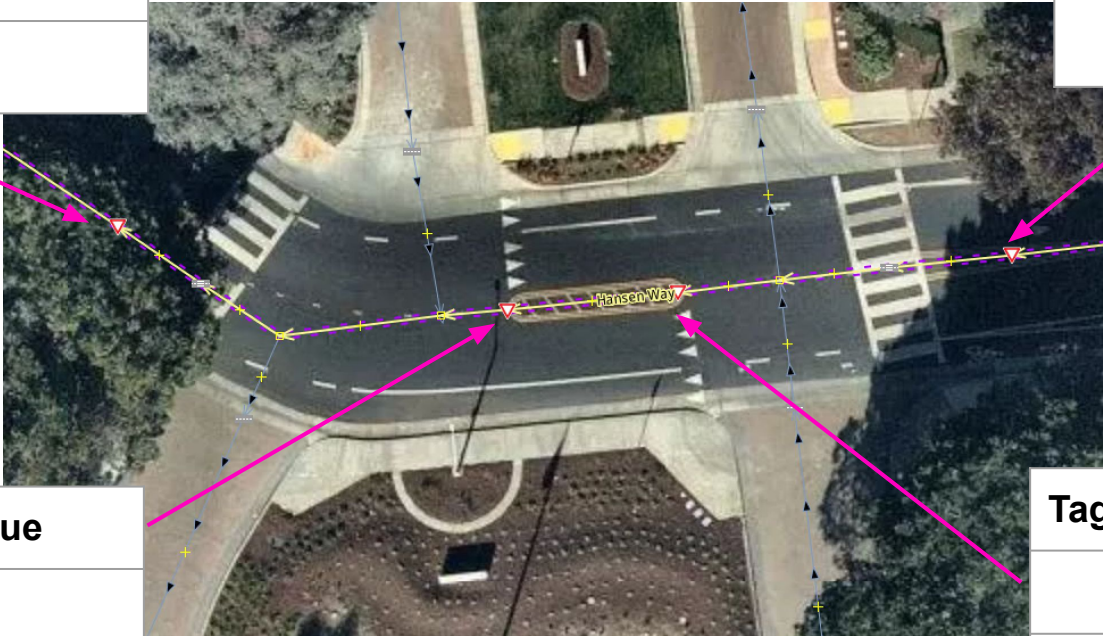| Tag | Value |
|-----|-------|
|     |       |
|     |       |
|     |       |
|     |       |

| Tag | Value |
|-----|-------|
|     |       |
|     |       |
|     |       |
|     |       |

| Tag | Value |
|-----|-------|
|     |       |
|     |       |
|     |       |

Direction road is drawn

STOP STOP STOP

STOP

Direction of one way road

# Practice 4

**Not all cells of the table will need to be used**

| Tag | Value |
|-----|-------|
|     |       |
|     |       |

| Tag | Value |
|-----|-------|
|     |       |
|     |       |

| Tag | Value |
|-----|-------|
|     |       |
|     |       |

| Tag | Value |
|-----|-------|
|     |       |
|     |       |



Hansen Way

# Answer Key to Training Worksheets

# Practice 1

**Not all cells of the table will need to be used**

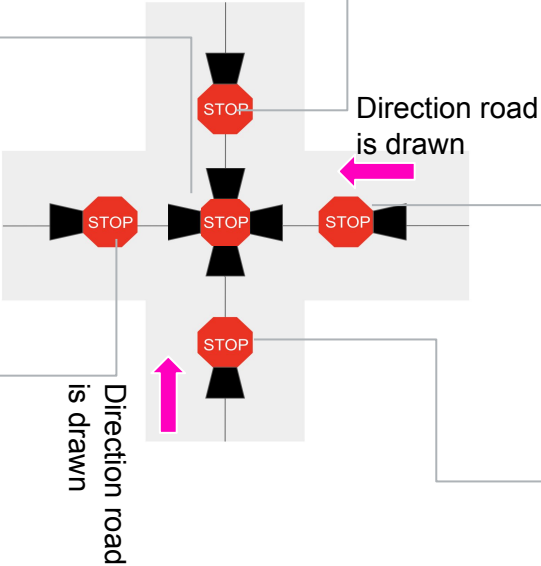| Tag | Value |
|-----|-------|
| highway | stop |
| stop | all |
| | |
| | |

| Tag | Value |
|-----|-------|
| highway | stop |
| direction | backward |
| traffic_sign | stop |
| | |

Assume that 4 physical stops signs are present

| Tag | Value |
|-----|-------|
| highway | stop |
| direction | forward |
| traffic_sign | stop |
| | |

| Tag | Value |
|-----|-------|
| highway | stop |
| direction | backward |
| traffic_sign | stop |
| | |

| Tag | Value |
|-----|-------|
| highway | stop |
| direction | forward |
| traffic_sign | stop |
| | |



Direction road is drawn

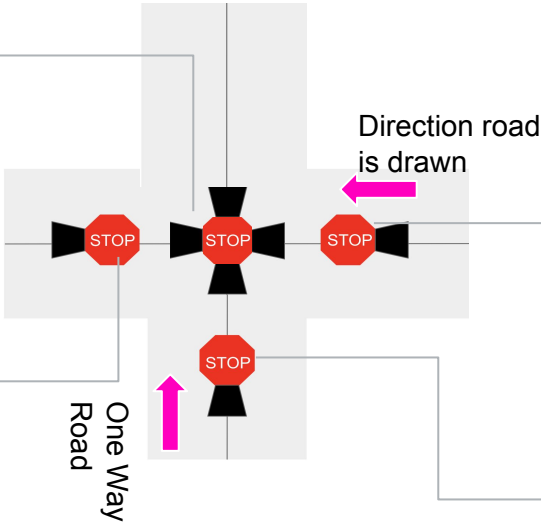Direction road is drawn

STOP STOP STOP STOP STOP

# Practice 2

**Not all cells of the table will need to be used**

| Tag | Value |
|-----|-------|
| highway | stop |
| stop | all |
| | |
| | |

| Tag | Value |
|-----|-------|
| highway | stop |
| direction | backward |
| traffic_sign | stop |
| | |

Assume that 3 physical stops signs are present

| Tag | Value |
|-----|-------|
| highway | stop |
| direction | forward |
| traffic_sign | stop |
| | |

| Tag | Value |
|-----|-------|
| highway | stop |
| traffic_sign | stop |
| | |
| | |

Direction road is drawn

One Way Road

# Practice 3

**Not all cells of the table will need to be used**

Assume that 3 physical stops signs are present
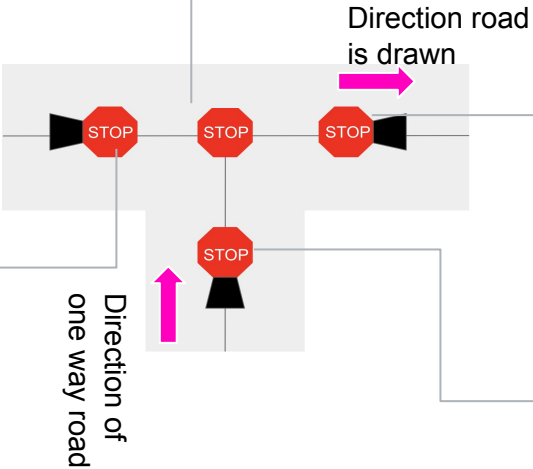
| Tag | Value |
|-----|-------|
| highway | stop |
| stop | all |
|  |  |
|  |  |

| Tag | Value |
|-----|-------|
| highway | stop |
| direction | backward |
| traffic_sign | stop |
|  |  |

| Tag | Value |
|-----|-------|
| highway | stop |
| direction | forward |
| traffic_sign | stop |
|  |  |

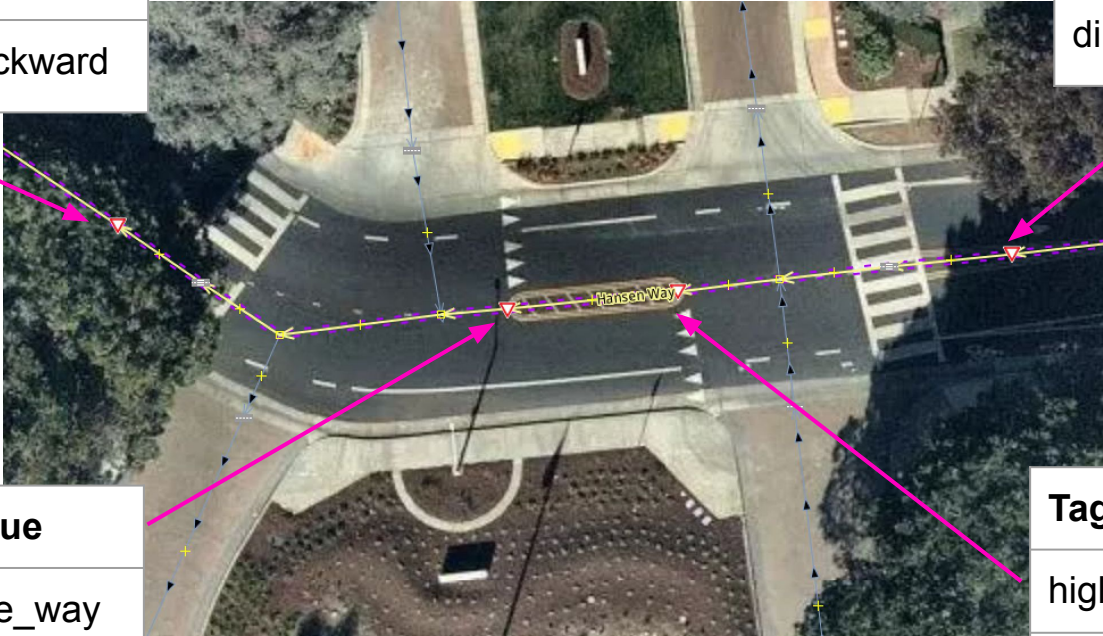| Tag | Value |
|-----|-------|
| highway | stop |
| traffic_sign | stop |
|  |  |

Direction road is drawn

Direction of one way road

# Practice 4

**Not all cells of the table will need to be used**

| Tag | Value |
|-----|-------|
| highway | give_way |
| direction | backward |

| Tag | Value |
|-----|-------|
| highway | give_way |
| direction | forward |



| Tag | Value |
|-----|-------|
| highway | give_way |
| direction | forward |

| Tag | Value |
|-----|-------|
| highway | give_way |
| direction | backward |