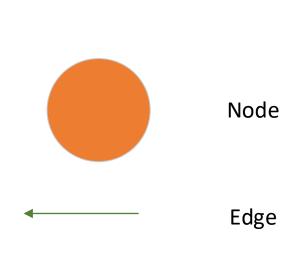
Traffic Simulation - Road Network Nodes and Edges



Each road cell can have connections on up to 4 sides.

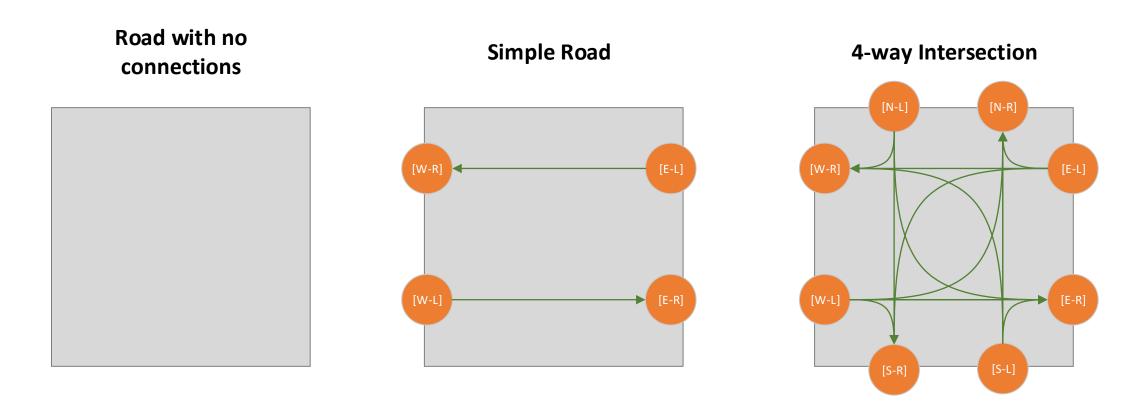
Sides are named by cardinal direction: North, East, South, West.

For each side, there is a right node (R) and a left node (L).

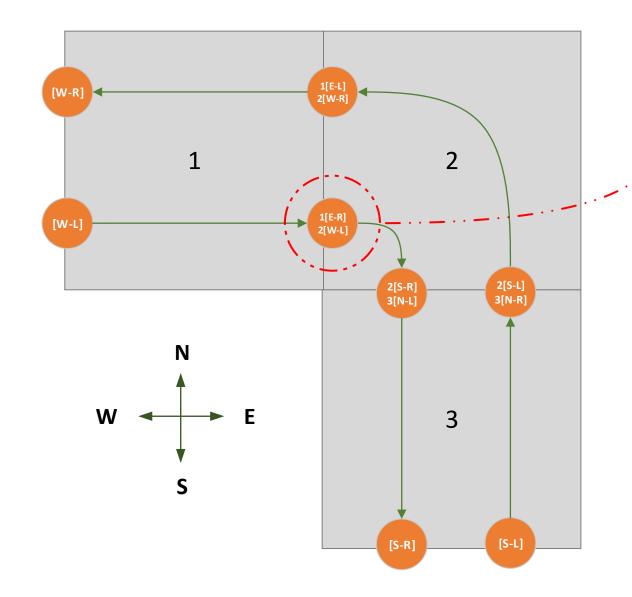
A particular node is named by both its cardinal direction and left-right orientation: [N-R] = North, Right Node

Direction of the side is determined by facing the side outwards from the center of the cell.

Edges can only travel from nodes that are R to L, or L to R.



Connection Example 1



In Example 1, incoming traffic from Cell-1 enters the [E-R] node. Cell-1's [E-R] node is also Cell-2's [W-L] node.

Note how nodes are only placed in necessary locations. A node pair is created upon the connection of roads. For instance, West to South travel in Cell 2 is required. East and North nodes are not necessary for Cell 2.

Connection Example 2

