Turn Table in Network Analysis

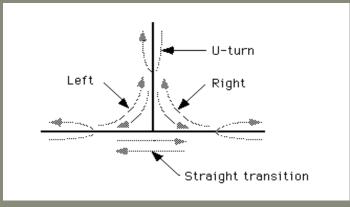
GEOG 575 Digital Compilation and Database Design Fall 2009 Zach Bevens

Turn Table Purpose

In Network analysis the distance traveled along each segment is only part of the travel time. Each Junction also requires time to traverse. Turn Tables are used to store these values for more complete route analysis.

What is a turn in network Analysis?

"A turn is a transition from one street segment to another at a junction"



Possible Turns

Left Turn

Right

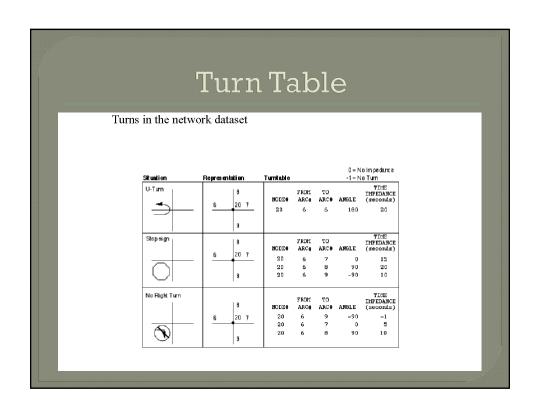
Straight

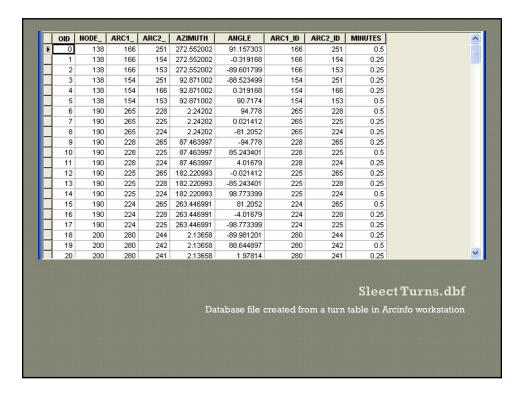
U-Turn

There are n^2 possible turns at an intersection with n being the number of edges at an intersection

Turn impedance

- The amount of time required to make a turn
- DIRECTIONAL- Different turns take longer to complete





Conclusion

The turn database file can be imported into a network dataset along with the network segments to perform Network Analysis

References

 ${\it Introduction\ to\ Geographic\ Information\ Systems\ Kang-tsung\ Chang,5^{th}\ Ed.,ch\ 17pgs}$ 373-374
ArcGis Desktop Help Turns in the Network Dataset