

Making the Computer Do the Work

“GIS for the rest of us”

- with apologies to Apple Computer Marketing

What does the user want to see and what is the minimum that they need to know or do to see it?

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GEOG 490 GIS Programming
March 2011



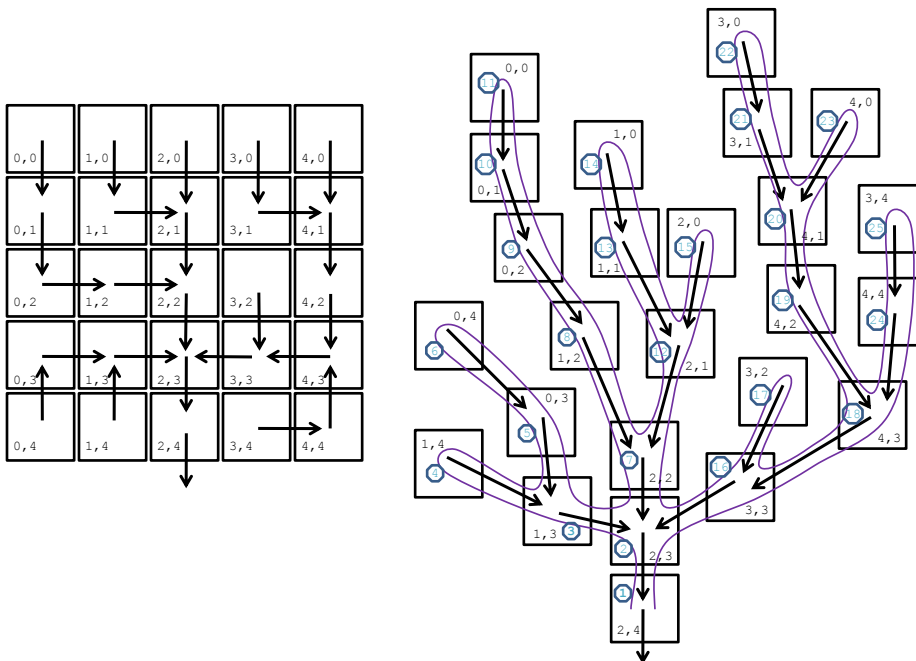
6 output files in addition to the watershed file

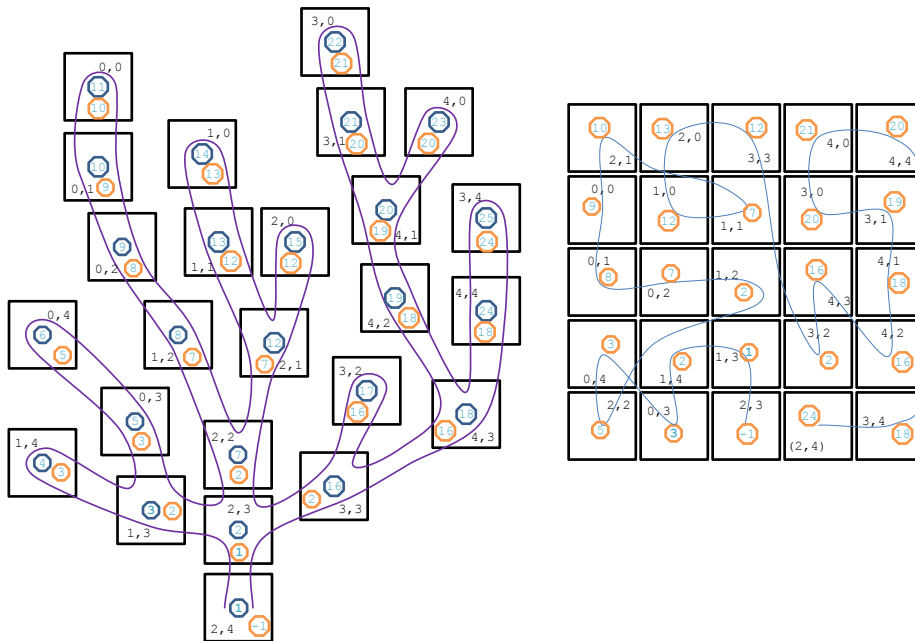
16 user entries

Data Structures “The Heart of GIS”

- raster
- vector
- table
- TIN
- network (like we used in shortest path)
- tree

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references

- “Flow Computation on Massive Grid Terrains”
 Lars Arge & Laura Toma (Duke University) Helena Mitasoua (Dept. of Marine, Earth, & Atmospheric Sciences, NCSU)
http://www.cs.duke.edu/geo*/terraflow
- New efficient methods to calculate watersheds
 E Fehr¹, J S Andrade Jr.^{1,2}, S D da Cunha³, L R da Silva³, H J Herrmann^{1,2}, D Kadau¹, C F Moukarzel^{1,4}, and E A Oliveira²
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- Extracting Topographic Structure from Digital Elevation Data for Geographic Information System Analysis
 S.K. Jensen and J.O. Dominique (TGS Technology, Inc., EROS Data Center, Sioux Falls, SD. 57198)