Tennis Exercise Followup

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CPSC 547, Information Visualization Day 11: 7 February 2017

http://www.cs.ubc.ca/~tmm/courses/547-17

-redisplays contents



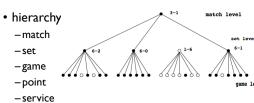
TennisViewer

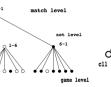
[Liqun Jin and David C. Banks, "Visualizing a Tennis Match," Proceedings of 1996 IEEE Symposium on Information Visualization (San Francisco, CA), pp. 108-114.]

[Liqun Jin and David C. Banks, "TennisViewer: A Browser for Competition Trees," IEEE Computer Graphics and Applications, Vol. 17, No. 4 (July/August 1997), IEEE Computer Society, pp. 63-65.]

• synthesized data: entire single tennis match down to stroke level -simulating strokes subject to prescribed probabilities

TennisViewer









a		
bl	b2	b3
cll	c21	c31
		1
c12		
		c32
c13	c22	1
		c33
c14		
		I

Figure 6: The top-nesting layered map of the tree in figure 5

Tennis Viewer

- treemap idiom
- subdivision: match, sets, games
- -coloured by player (red/green)
- 2D translucent layers
- -top made from combination of translucent planes below
- -local information (who won point, above) + global context (who won match, below).
- ball traces of strokes
- -icon: spatial layout of tennis court
- -arrow showing ball trace



Tennis Viewer

• Magic Lens to zoom underneath



TennisViewer

- animation
- before vs after final point



TennisViewer

cardinality

-strokes

• top-nesting layered map

- I match 5 sets
- 51 games
- 332 points
- 446 services
- 2800 strokes



Critique

- strengths?
- weaknesses?
- comparison to your own sketches?