

Seeing Is Believing



visualizing spatial data

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OverviewGiver



- Who am I



- Why this talk

- About Blender



- Conclusion and further steps



▶ SelfExplainer



- Klaas Dijkstra (1968)



- NAVTEQ/Nokia L&C (2005)
GIS Data Analyst



- FME User (2007)
- FME Certified Professional (2011)





ReasonsExtractor



- Need for visualization





Anscombe's quartet I



I		II		III		IV	
x	y	x	y	x	y	x	y
10,0	8,04	10,0	9,14	10,0	7,46	10,0	6,58
8,0	6,95	8,0	8,14	8,0	6,77	8,0	5,76
13,0	7,58	13,0	8,74	13,0	12,74	13,0	7,71
9,0	8,81	9,0	8,77	9,0	7,11	9,0	8,84
11,0	8,33	11,0	9,26	11,0	7,81	11,0	8,47
14,0	9,96	14,0	8,1	14,0	8,84	14,0	7,04
6,0	7,24	6,0	6,13	6,0	6,08	6,0	5,25
4,0	4,26	4,0	3,1	4,0	5,39	4,0	12,5
12,0	10,84	12,0	9,13	12,0	8,15	12,0	5,56
7,0	4,82	7,0	7,26	7,0	6,42	7,0	7,91
5,0	5,68	5,0	4,74	5,0	5,73	5,0	6,89

Statistical property
Average
Variance
Correlation x / y
Linear regression

9	8
11	4
1	
$y = 3 + 0,5x$	

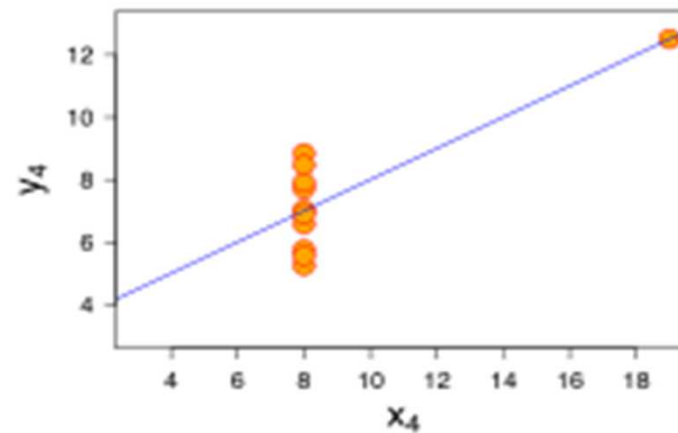
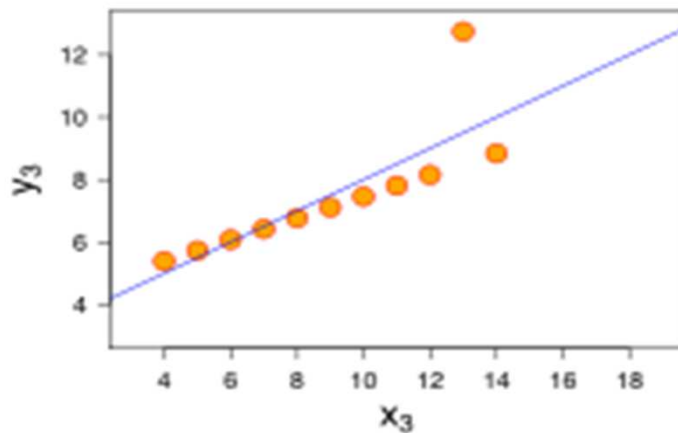
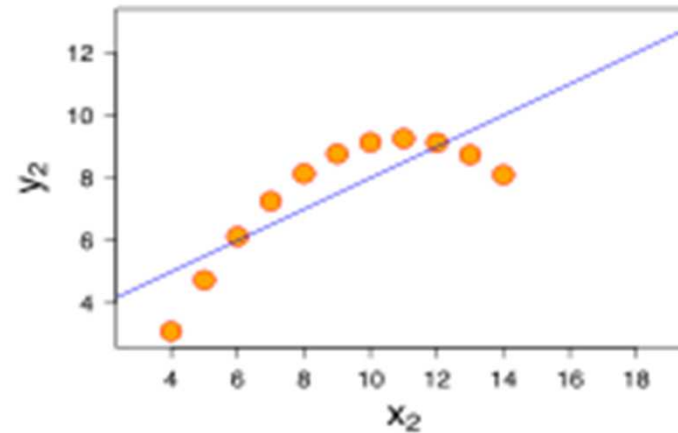
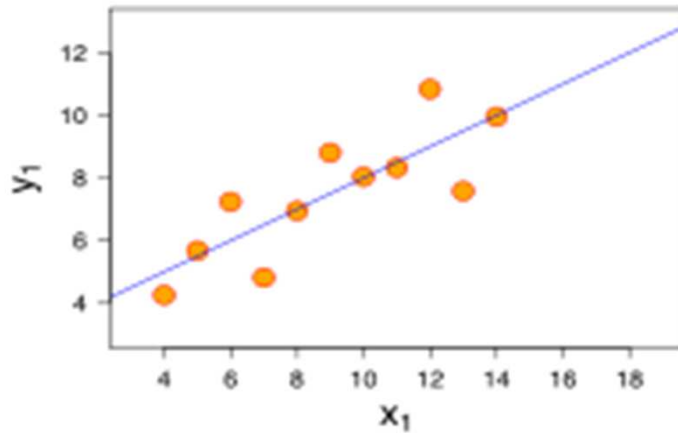
9	8
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9	8
11	4
1	
$y = 3 + 0,5x$	

9	8
11	4
1	
$y = 3 + 0,5x$	



Anscombe's quartet II





ReasonsExtractor



- Need for visualization



- GIS software





GIS software



- 2D visualization not really going forward



- 3D visualization at extra cost

- FME has 3D visualization, but basic





ReasonsExtractor



- Need for visualization



- GIS software

- Blender opportunities



▶ BlenderDefiner



demo reel



http://www.youtube.com/watch?feature=player_embedded&v=QbzE8jOO7_0&hd=1



BlenderFactLister



- is open source (www.blender.org)



- can create (2D/3D) stills
- can create animations (4D)

- works with vector and raster
- its API works with Python



- has an active user community



▶ BlenderQuerier



- Could Blender work as visualizer for (geo)spatial data?



▶ BlenderQuerier



- Could Blender work as visualizer for (geo)spatial data?

- demos





FutureDeveloper



- Connecting the dots
 - Format, BGE



- Expanding current functionality
 - automated pipeline
 - automated cameras



- Blender \leftrightarrow FME



▶ AudienceThanker



Thanks for your attention!



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