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- discrete vs continuous

- occlusion?

Many, many questions	Alternative models: preliminary steps towards answers?	Beyond marks and channels
 including Size-coded point marks vs area marks? Area marks vs area channel? What kind of marks are in a tile heatmap? a circle packing? a cartogram? a multi-level thingie with units? 	 Old mark/channel model: geometry-based marks -0D points, ID lines, 2D areas, 3D volumes Alternative mark/channel model channel-based analysis: channel availability model Encoded, Unavailable, Free mark-based analysis: mark constraint model Unconstrained (points), Interlocking (areas) 	 multi-level analysis requires larger design space small multiples: juxtaposed views vertical position within row: algorithmic, avoid occlusion vertical position across rows: encodes job type attribute superposition: layered views
 Line mark: line segment vs curved path? Do line charts use line marks? Line chart boundaries vs filled area charts interiors? Length-coded point marks vs line marks? 	 what best helps us think and reason about design space of visual encoding? combination of both? just one? another alternative? are there other interesting emergent properties arising from bottom-up channel analysis? 	- nesting: multi-scale views / glyphs

More stuff

 this talk http://www.cs.ubc.ca/~tmm/talks.html#mit24

-more questions? thoughts on answers??

- book http://www.cs.ubc.ca/~tmm/vadbook
- full courses, papers, videos, software, talks http://www.cs.ubc.ca/group/infovis http://www.cs.ubc.ca/~tmm





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