

Parameter Space		Pruning			
·		High	Normal	Low	
	Border				
	Normal		Ser	Chillips of the Children of th	
	Area		Cherry Cherry		

Questions?

Thank you.

Strengths and Weaknesses

- · Simple, smooth
- Efficient abstraction
- · Represent both area and boundary
- Opportunities to expand the cartographic design space
- Recognizability
- Users must be familiar with the original geography
- Inconsistency in the large parameter space
- No user study

Constraint: Only intended for tasks where exact boundaries are not needed

Scalability

- If a map with borders looks reasonable, its **second-level boundaries** can likely be transformed with stenomaps.
- Map of a continent: one stenomap for each country.
- · Map of a country: one stenomap for each province/state/region.
- · Generally, it is equivalent to **up to 100 stenomaps** per map.
- · Algorithm can adapt to produce the desired level of details in stenomaps.

Summary

System	Stenomaps
What: Data	Geometry: 2D borders in maps
What: Derived	Area to line transformation, which converts a border to a line that represents both the boundary and the area features.
Why: Task	Present and enjoy the maps with less intrusive borders and without inferences of exact location.
How: Encode	Geotagged data can be encoded into the line as its width or colour, or the data can replace the line by icons or text.
How: Reduce	Dimensionality reduction (area to line).
Scale	100 stenomaps per map (generally equivalent to second-level boundaries).