











reference maps

- storage of spatial information
- show location, type and variety of tangible features in the environment
- general purpose: a dictionary of features
- geographic features
 - land: coastlines, mountains, roads
 - water: rivers, lakes etc.
 - landmarks
- give answers to spatial questions
 - where?
 - what?
 - when?





7 > 15-JUL-04

thematic maps

- tell a story: show distribution of phenomena in space
- specific purpose: a graphic theme, or essay

story types...

- to illustrate spatial patterns
 - base map as reference blue transition in handout
 - thematic overlay
- qualitative: distribution maps
 - what, when and where?
 - category membership
- quantitative: statistical maps
 - what, when, where and how much?
 - category membership
 - sequence, ranks, magnitude





9 15-JUL-04

statistical maps



illustrate and quantify spatial patterns: what and how much is where?

<text><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item>

















the visual variables















this means for cartography... figure-ground: the three map planes • - foreground - middle ground - background visual and semantic hierarchies • - visual: darker features stand out - semantic: roads are most important on a road map foreground • - most important visual plane Source: Den 28 15-JUL-04





geovisualization



map symbolization functional approach to visualization: • how to communicate knowledge with graphic marks? how to logically and coherently link data to graphics? - cartographic language is not like natural language semiotics - the study of sign systems 32 15-JUL-04

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