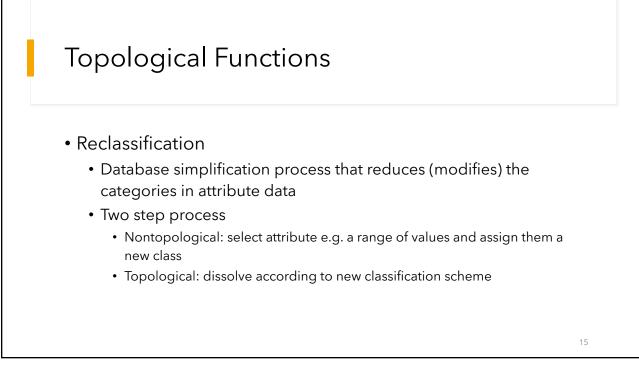
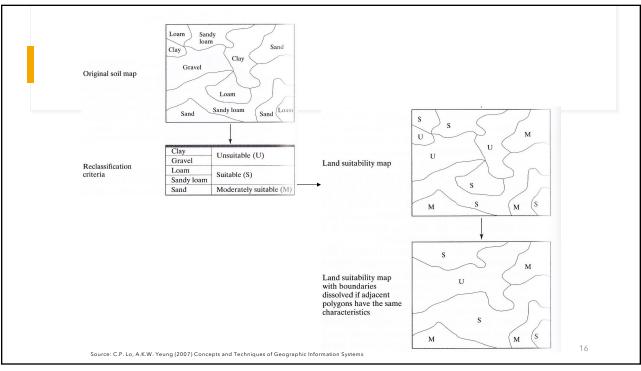
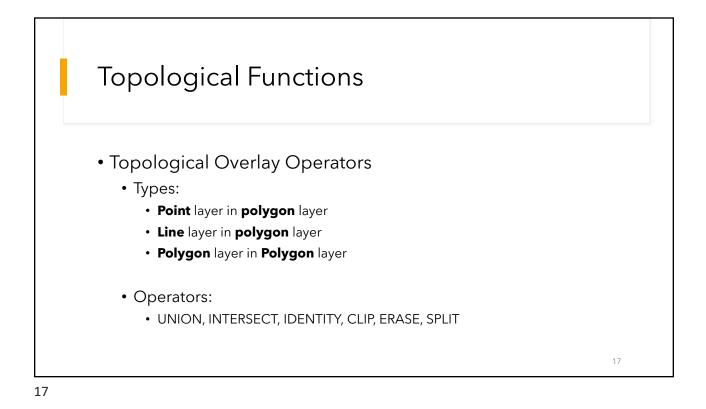
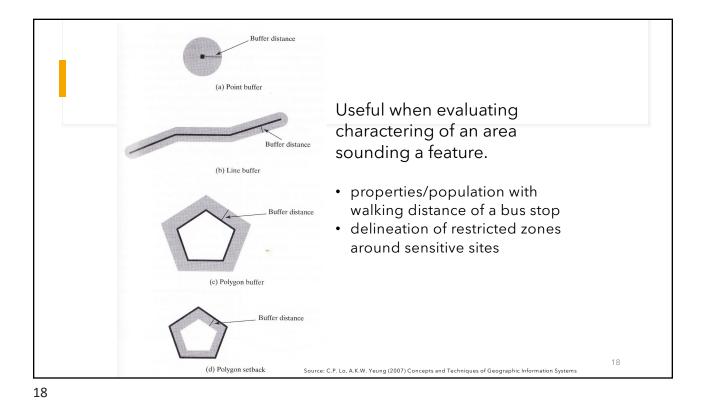


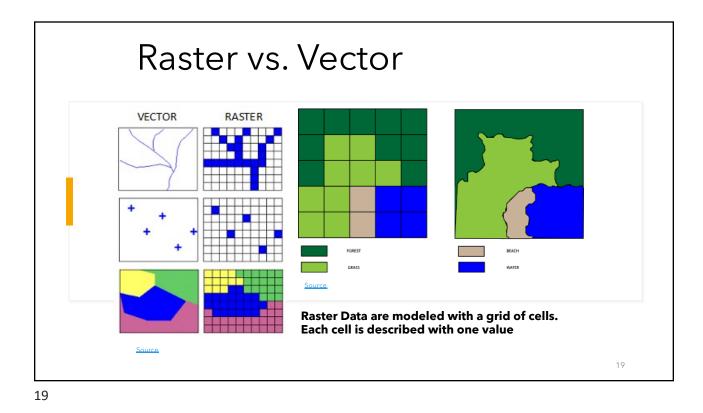
	Newtonelasterl	Topological		
	Nontopological	Featured-based	Layer-based	
Logical operations	• Attribute database query		• Reclassification and aggregation	
Arithmetic operations	Change mappingSummary statistics			
Overlay operations	Address geocoding	• Overlay analysis	• Overlay analysis	
Geometric property operations	• Calculation of areas, perimeters, and distances		• Network analysis	
Geometric transformation operations	 Coordinate and geometric transformation Surface interpolation 			
Geometric derivation operations		• Buffering		



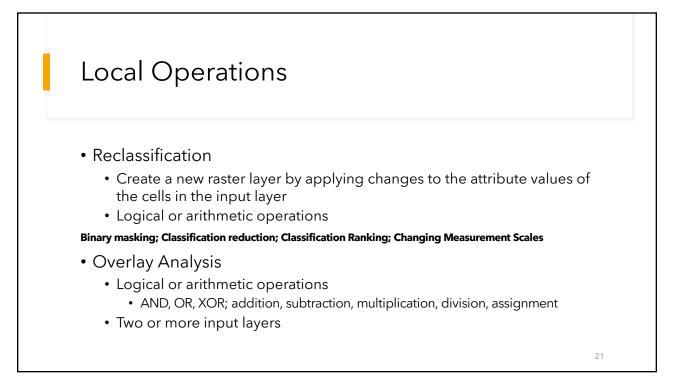




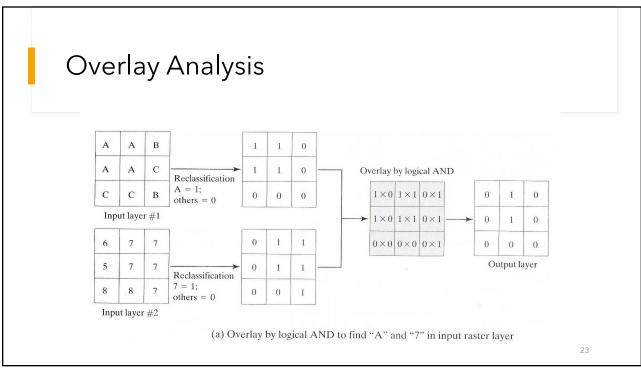




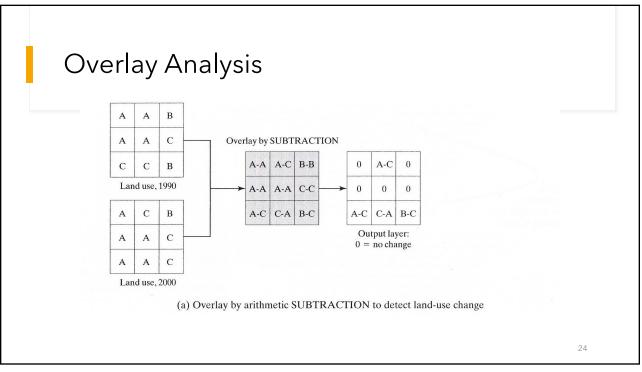
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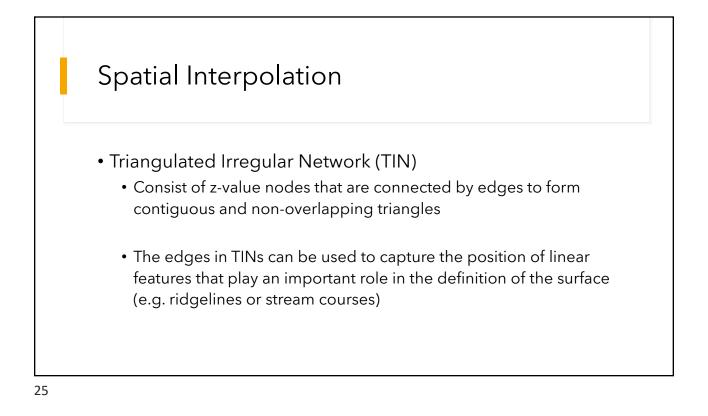


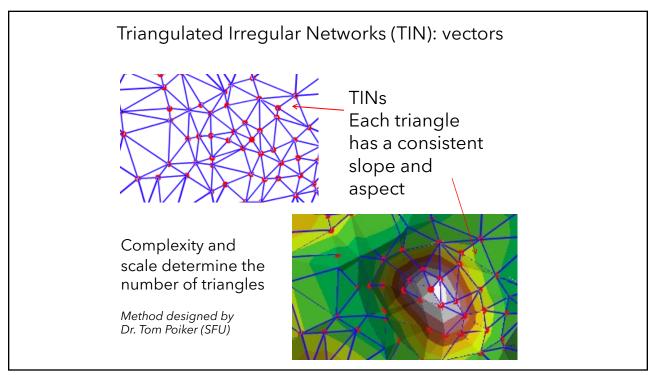
	eratior	1S		
	Local Operations	Neighborhood Operations	Extended Neighborhood Operations	Regional Operations
ogical Operations	Reclassification			
Arithmetic Operations	Reclassification	 Aggregation Filtering 	Statistical analysis	
Overlay Operations	• Logical •Arithmetic			• Category-wide overlay
Geometric Property Operations		• Slope and aspects	• Distance, proximity, and connectivity	• Area • Perimeter • Shape
Geometric Transformation Operations			 Rotation Translation Scaling 	
Geometric Derivation Decrations			 Buffering Viewshed analysis 	• Identification and reclassification

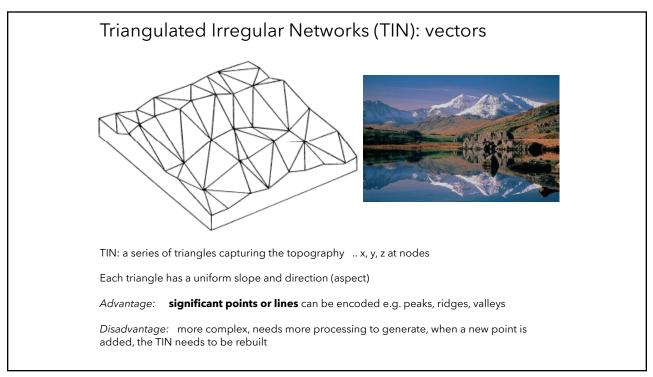


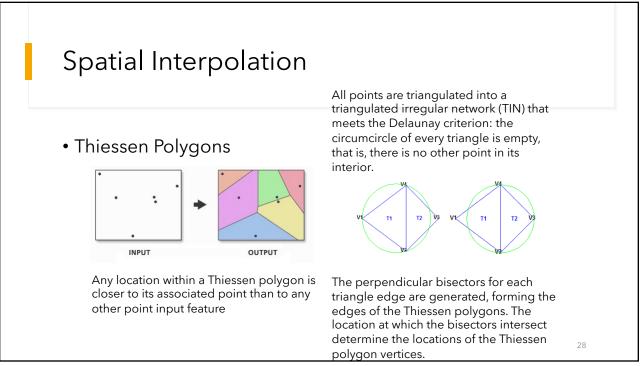


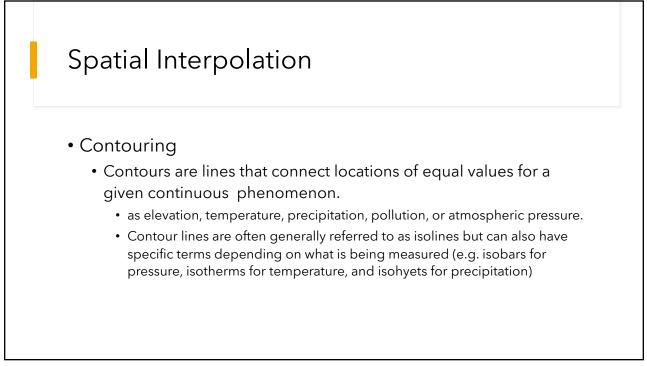


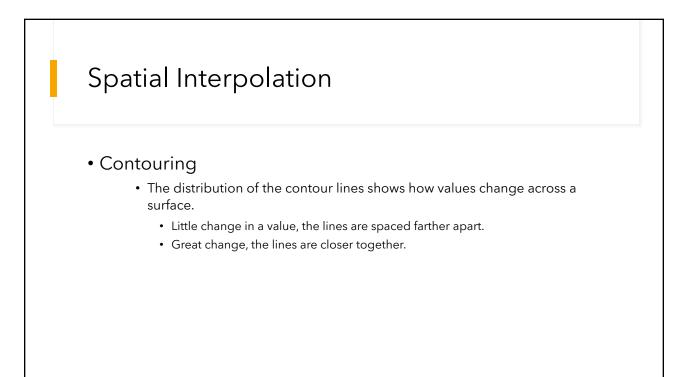


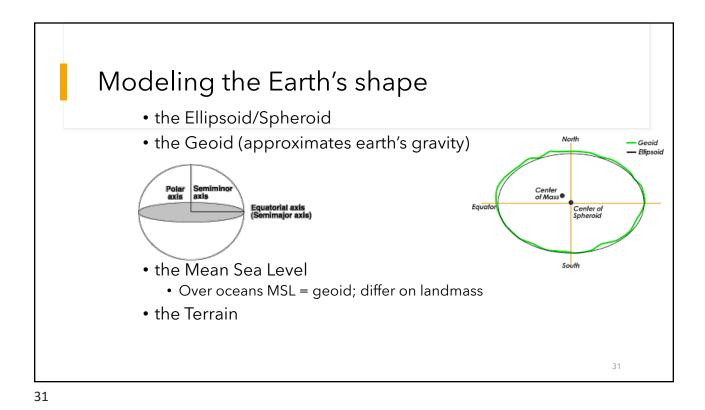




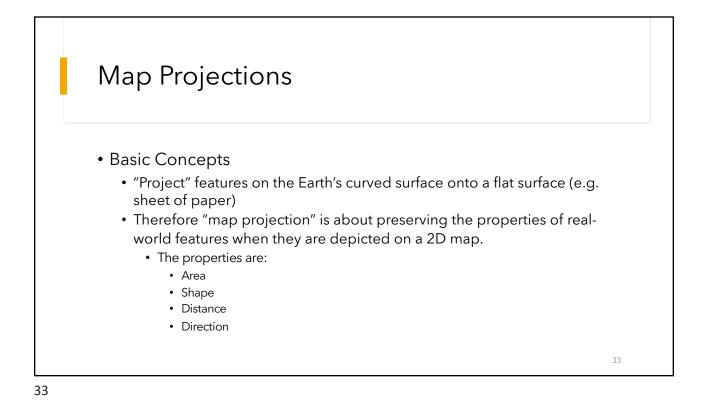


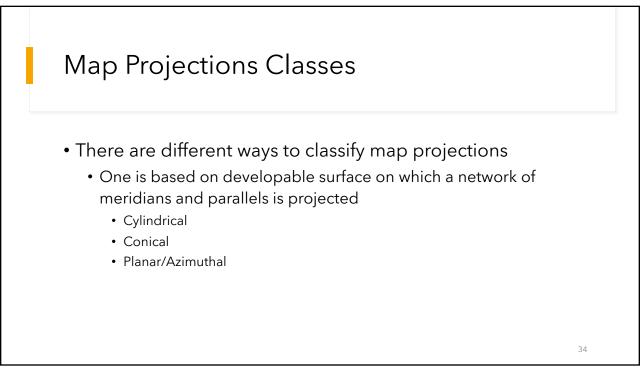


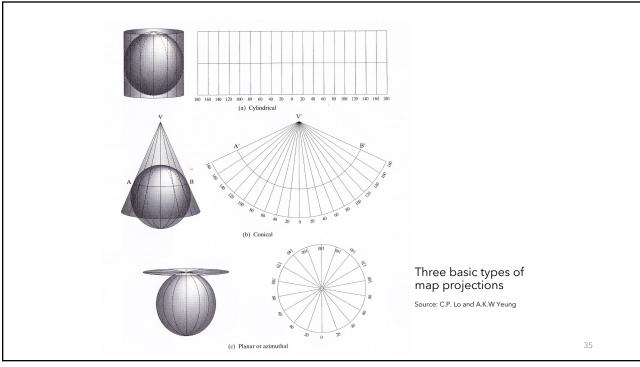


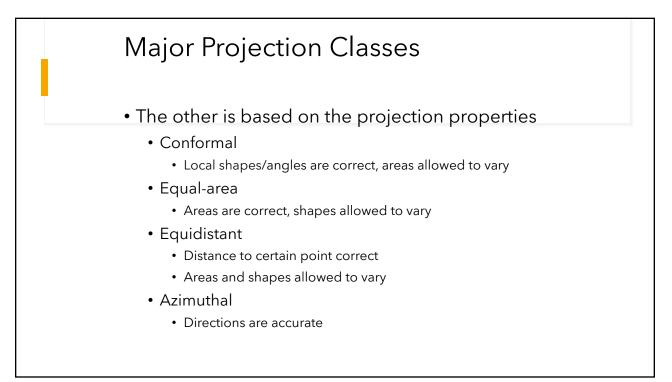


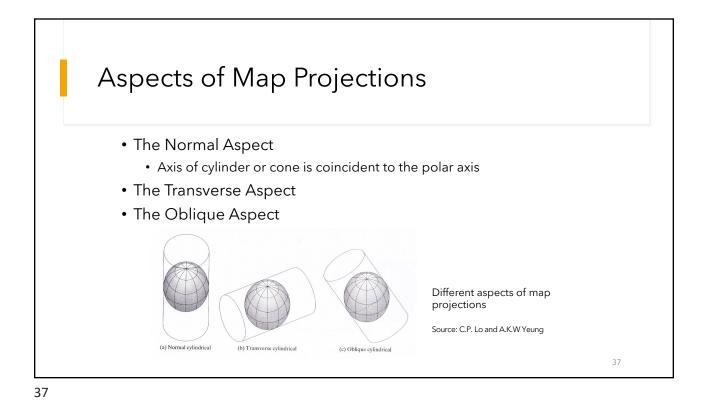
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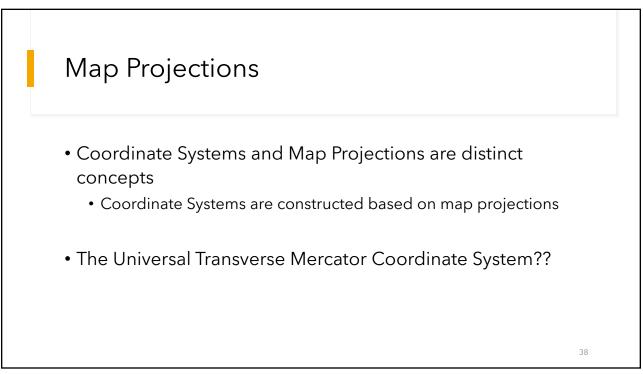




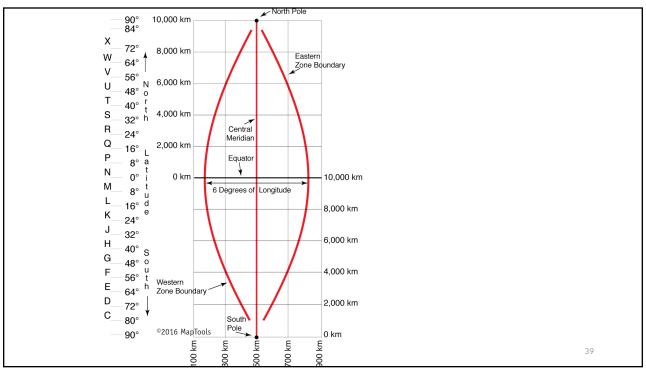


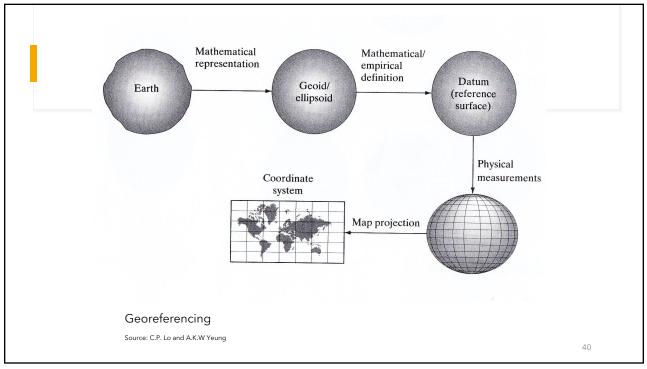


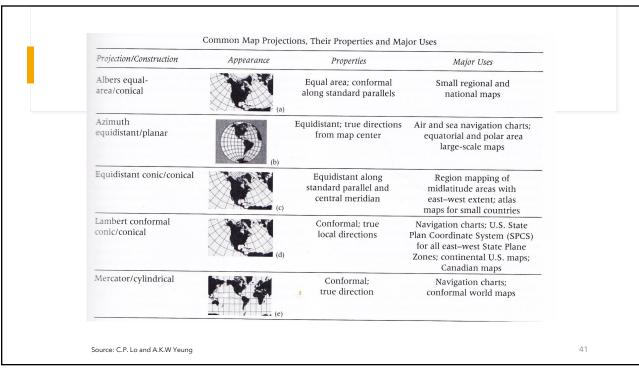




11/28/23







Projection/Construction	Appearance	Properties	Major Uses
Polyconic/conical		Equidistant along each standard parallel and central meridian	Topographic maps; USGS 7.5- and 15-min quadrangles
Robinson/ pseudocylindrical		Compromise between properties	Thematic world maps
Sinusoidal/ pseudocylindrical		Equal area; local directions correct along central meridian and equator	World maps and continental maps
Stereographic/planar		Conformal; true directions from map center	Navigation charts; polar region maps
Transverse Mercator/cylindrical		Conformal; true local directions	Topographic mapping for areas with north–south extent; U.S. State Plan Coordinate System (SPCS) for all north–south State Plane Zones

