

Cartographic Software

- Introduction to cartographic software. Basic principles.
- The history of OCAD, older version's functionality
 - A general overview about OCAD: basic drawing and editing functions
 - Planning symbol sets, creating and editing symbols
 - Colors and spot colors in OCAD
 - Importing and exporting files. Importing OpenStreetMap data.
 - Printing
 - Database connection and management in OCAD: Shape files
 - Usage of digital elevation models: importing, file formats, contour lines, hypsometry and hill shading
 - GPS data import
 - Layout
 - Internet maps
- OpenStreetMap: the free editable map of the world. Volunteered geographic Information.
- Automations in cartographic generalization:
 - Basic principle of automations on maps.
 - The most important line and polygon generalization algorithms.
 - Point generalization
 - Testing of algorithms in software: ArcGIS and QGIS, mapshaper.org.

Literature:

www.ocad.com

Okada, Alexandra, Buckingham Shum, Simon, Sherborne, Tony (Eds.): Knowledge Cartography, Software Tools and Mapping Techniques
Springer, 2014

Ian Muehlenhaus: Web Cartography: Map Design for Interactive and Mobile Devices, CRC Press, 2013

Slocum, McMaster, Kessler, Howard: Thematic Cartography and Geographic Visualization. 2005. Scale and generalization chapter.

Suggested literature:

V. Vozenilek: Cartography for GIS

Palacky University Olomouc, 2005

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