The recovery of NLGIS

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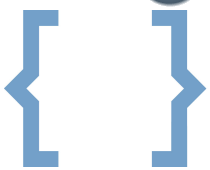
NLGis

Outline



Meaning and purpose of GIS

- Geographic Information System
- Purpose
  - capture, store & manage data
  - analyze data
  - present data

Dutch GIS: Past, Present, Future

- Kaartgis / NLGIS
- HISGIS.NL (extremely detailed, but not temporal)
- NLGIS-2 (detailed and temporal)

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NLGis

Goal

- To disclose the Historical Database of Dutch Municipalities (HDNG)
- To plot data from HDNG and other sources on NLGIS' maps
- For a period of five years

Components

- Maps server (API)
- Data server (API)
- Tools to combine maps, data and draw maps
  - basic mapping: website
  - advanced mapping: R & Python

Sustainability

- Modular approach: separating maps and data
- Use of main stream open source software
  - D3, Leaflet, MongoDB, Python, R
  - Used by major companies (e.g. Google, New York Times)

Audience

Dual approach:

- No experience with GIS (website)
  - Compare regional differences in a phenomenon
  - Compare changes over time
- Advanced users (familiar with Python, R)
  - Retrieve data from HDNG
  - Map other datasets
  - Map outcomes of (advanced) analyses
  - Integration with Wikipedia

Website - Demo

Features

- HDNG data selection
- Information box
- Colours

R - Demo

Features

- Functions: nlgget, nlgmap
- Main packages: jsonlite, rgdal, leafletR
- Use cases:
  - NLGIS meets CEDAR
  - NLGIS meets New York Library Map Wrapper

Summary and perspectives

Outlook

- Maintenance by the IISH (5 years)
- Maps for 1997-today
- Write codebook for Historical Database Dutch Municipalities (HDNG)
- Allow for upload of different kinds of maps (integration with CLIO-INFRA)