combination and comparison tools for Thematic Maps in a webservices environment

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A change in my world

My tools once were these:
A change in my world

...but now look like this:
But my task is still the same:

“show the story in the data”
But my task is still the same: “show the story in the data”

the cartographic intent
in simple ways...
...or less simple ways

GEOGRAPHY (click & hold to separate)
- Runner Menno-Jan
- Runner Laszlo

FROM TIME TO GEOGRAPHY

FROM GEOGRAPHY TO TIME for Runner Menno-Jan

FROM GEOGRAPHY TO TIME for Runner Laszlo

kartoweb.itc.nl/D3tests/tracksViewer/orienteering.html
comparing spatial phenomena
comparing spatial phenomena

...is often the way people get “the story”
The new role of the cartographer

providing
(cartographic knowledge for)
tools that implement cartographic intent:

“code that thinks like a cartographer”
Maps as part of a Spatial Data Infrastructure
Maps as part of a Spatial Data Infrastructure presents a synthesis optimised for visualisation
Maps as part of a Spatial Data Infrastructure

visualisation of separate data, not optimised for combinations (synergy)
Maps as part of a Spatial Data Infrastructure

a combination of two different worlds
Mapping in a webservices environment
Mapping in a webservice environment as part of
conceptual change needed

sub-optimal combination of arbitrary map layers
conceptual change needed

sub-optimal combination of arbitrary map layers

integrated mapping of data layers
Mapping in a webservices environment as part of
Mapping in a webservices environment as part of
Architecture
comparing spatial phenomena

in *theme*:
– same place and time – different variables
comparing spatial phenomena

in *theme*:
– same place and time – different variables

in *space*:
– same variable – different places
– *or* same variable – different aggregation
comparing spatial phenomena

in *theme*:
− same place and time – different variables

in *space*:
− same variable – different places
− *or* same variable – different aggregation

in *time*:
− same variable and place – different times
comparing spatial phenomena

in *theme*:
– same place and time – different variables

in *space*:
– same variable – different places
– *or* same variable – different aggregation

in *time*:
– same variable and place – different times

in *expression*:
– same place, time and variables – different visual expressions
Architecture
- use data services (WFS) requests
- GeoJSON where possible
Atlas Viewer:
- based on the Open Web Platform
- uses D3 library
Thank you for your attention...

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