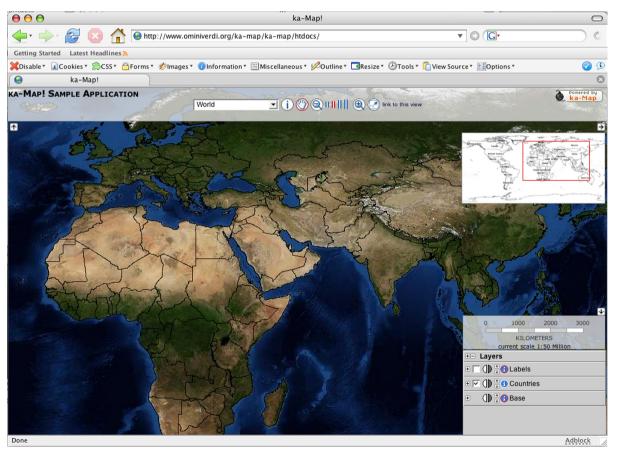




an interactive web-mapping application



Authors: Paul Spencer, Lorenzo Becchi





what is ka-Map?

- Key Features
 - Client Side: GUI Interactivity
 - Server Side: Tiling System





What is ka-Map?

- Other features:
 - Google-like interface
 - Continuous panning
 - No page submit
 - Interactive scalebar, legend and keymap
 - Interactive layer control
 - Keyboard navigation
 - Multiple map access





- Client Side:
 - built using AJAX principles
 - Multiple interfaces (GUIs) -> DHTML
 - extendable functionality via tool API
- Server Side:
 - flexible configuration based on MapServer
 - multiple maps, layers (groups)





what is AJAX?

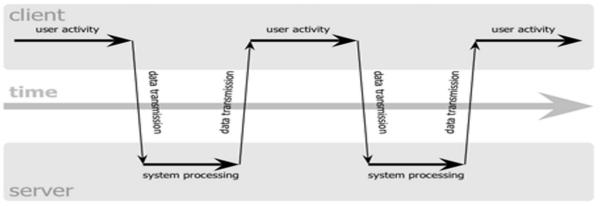
- Asynchronous JavaScript and XML
 - coined by Jesse James Garrett http://www.adaptivepath.com/publications/essays/archives/000385.p hp
 - not a technology, but a group of technologies that are used together
 - CSS
 - DHTML
 - XmlHttpRequest (is this necessary?)
 - XML, XSL



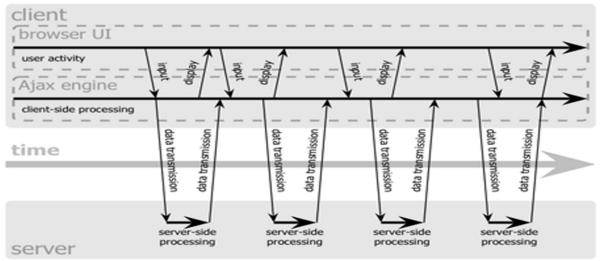


What is AJAX?

classic web application model (synchronous)



Ajax web application model (asynchronous)

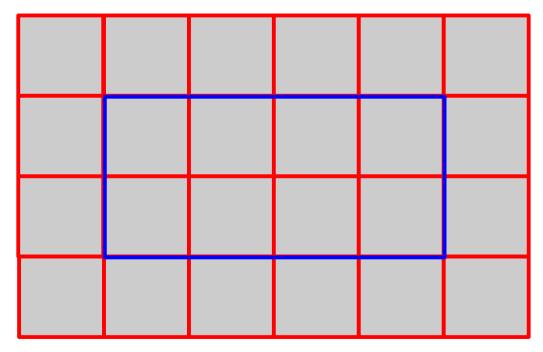


Source: http://www.adaptivepath.com/publications/essays/archives/000385.php





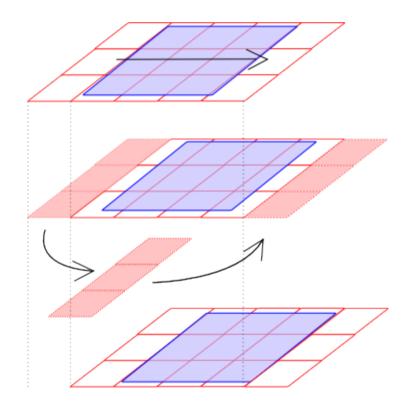
- How does ka-Map use tiling system:
 - To maintain high performances only viewport tiles are downloaded from the server.







Dragging the map: railroading tiles





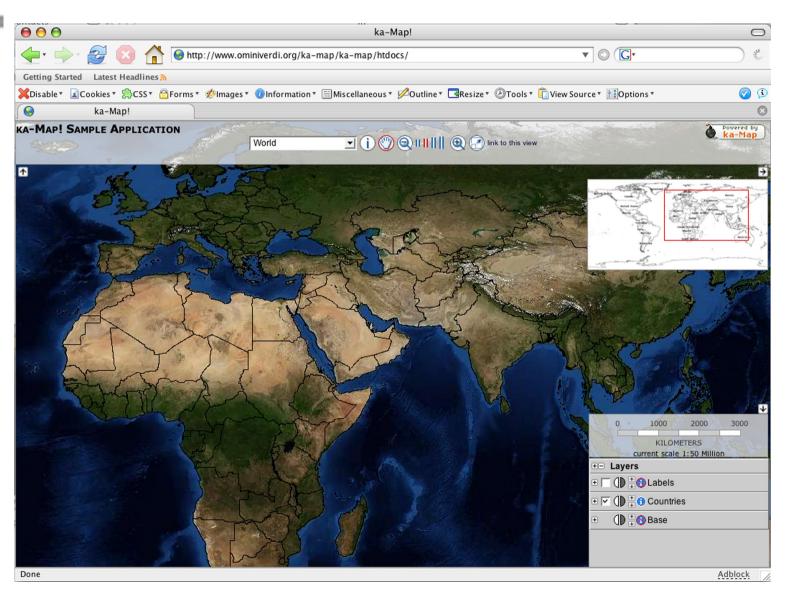


- Standard Mapserver Application:
 - Drawing on the fly is too slow
 - Big traffic means poor performances
- Ka-Map tiling system:
 - Tiled images are cached on the server so maps are drawn just once
 - Big traffic affect only web server performances





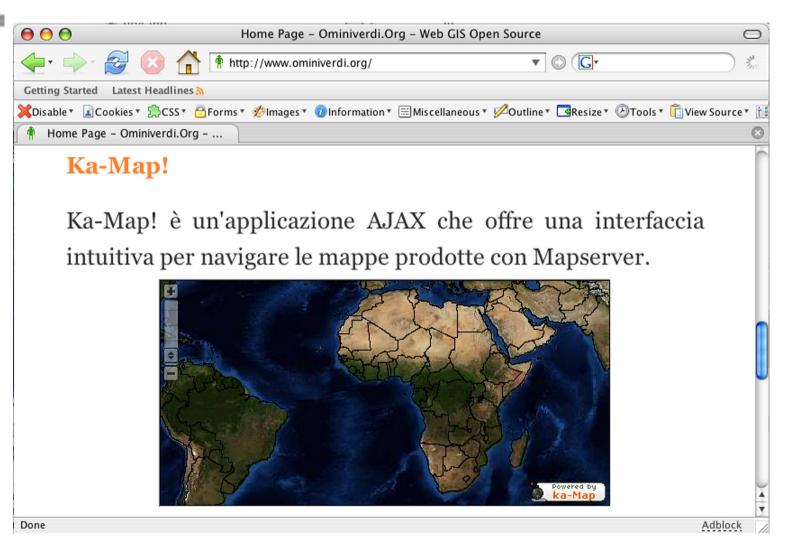
Interfaces: Standard Interface







Interfaces: Embedded Interface









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