Introducing OpenScales

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What is OpenScales?

Mapping client framework
Based on Flash platform
Licensed under LGPL
Started in early 2009
Community

• 160 subscribers on the mailing list

• Hosted on BitBucket

• Companies/organizations involved
  • Atos Worldline
  • French National Geographic Institute
  • XoomCode
  • Pennsylvania State University
  • Cyclomedia
Let’s talk about Flash platform ...
From designers to developers

A few years ago, Flash authoring tools were only for designers.

Nowadays, we can develop application writing ActionScript3 and Flex with an Open Source SDK.

Efficient development requires commercial IDE Flash Builder, based on Eclipse.
Flash 10.1

Adobe has rewritten Flash Player from scratch in order to be able to run it on all platforms consistently.
Issues and challenges

• iPhone/iPad do not have Flash for now. Not blocking since all other mobile platforms will have it.

• Adobe MUST continue to open the platform
  • Flash player for 64 bits operating systems
  • Official Flash Builder under Linux

• HTML 5
  • A few years to wait for wide deployment
  • Innovation comes from competition
Quick comparison ...

Quite similar to Java few years ago

Thanks to the community, it has been Open Sourced

Why is not the same with Flash ?
OpenScales 1.2

OpenScales 1.2-beta3 is out
Final release before the end of September
Modules

- **openscales-geometry**: Point, LinearRing ...
- **openscales-proj4as**: Proj4 port in ActionScript
- **openscales-core**: lightweight mapping core
- **openscales-fx**: Flex 4 support
- **openscales-as-example**
- **openscales-fx-example**
- **openscales-air-example**
One framework, any device

OpenScales

Web client  Desktop application  Mobile application
Flex application

- Flex 4 support
- OpenScales API is closed to OpenLayers’ one
- Support WMS, WFS, KML, OSM ... 
- OpenScales 1.2 displays 75000 points (2500 lines) with a good user experience

AIR application

• Turn your web client in a desktop application

• Full access to the filesystem

• System integration
  • File association
  • Icon on desktop
AIR mobile application

- Package as a native mobile application
- Support multi-touch, GPS, screen orientation, accelerometer events
- Same speed as Flash plugin on your computer
AIR mobile application

You can test it if you have a smartphone with Android 2.2 (Froyo) and AIR 2.5

http://openscales.org/downloads/openscales-mobile-tracker-1.2.apk
OpenScales 2 roadmap (2011)

• ActionScript GeoAPI
• Free zoom mode
• Display geometries up to 300000 pts
• WMTS, WFS 2.0, GML 3.2.1 support
• Tiled KML support
• SLD editor (Flex and AIR)
• OpenScales Studio
• And …
OpenScales 2.5D prototype
OpenScales 2.5D prototype
Full 3D support in OpenScales 2

Our guess/bet: Flash full accelerated 3D support to compete with WebGL

Flash Player 3D Future session at Max 2010 on the 27th of October
How to:

• Use it  http://openscales.org
• Contribute  hg clone http://bitbucket.org/gis/openscales
• Contact us  sebastien.deleuze@atosorigin.com
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