

# Building Web Based GIS Applications with GeoExt

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# About this Tutorial

- Hands-on optional – materials are also available for download after the class
- See small code snippets and config objects and how they play together to build a rich application

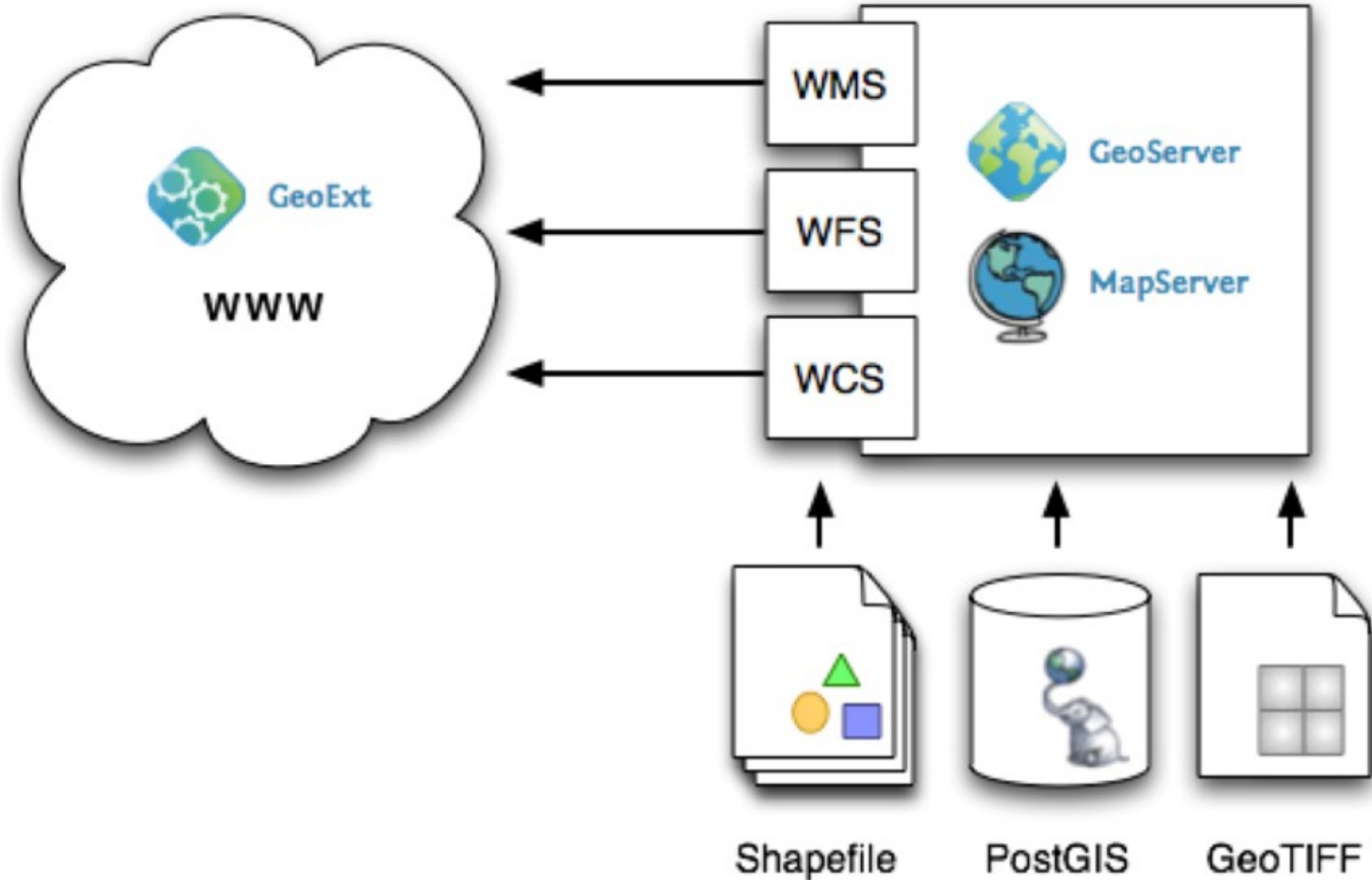
# GeoExt

- OpenLayers is great for maps, but lacks a rich UI – Ext JS provides the UI, but lacks mapping
- GeoExt brings together the mapping power of OpenLayers with the rich UI of Ext JS
- GeoExt provides GIS related widgets
- GeoExt turns OpenLayers Formats and objects into Ext JS data components

# Today's Agenda

- GeoExt Basics – Hello World
- Make OpenLayers, Ext JS and GeoExt play together in a simple map viewer
- Create a WFS-T editor

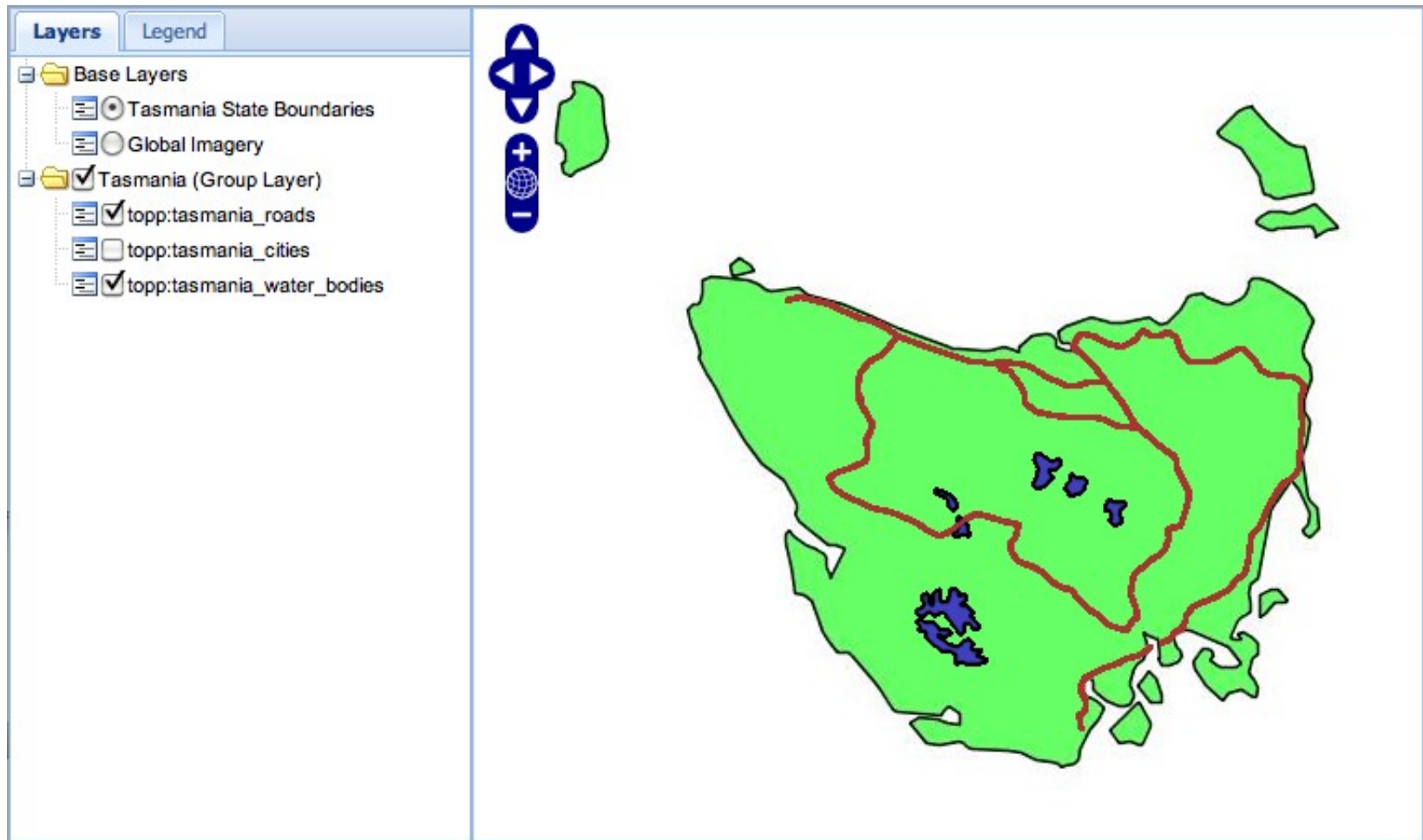
# GeoExt & OGC Services



# Module 1 – Hello World



# Module 2 – Widgets And Layout



The screenshot displays a web GIS interface. On the left, a 'Layers' panel is visible with two tabs: 'Layers' and 'Legend'. The 'Layers' panel shows a tree structure:

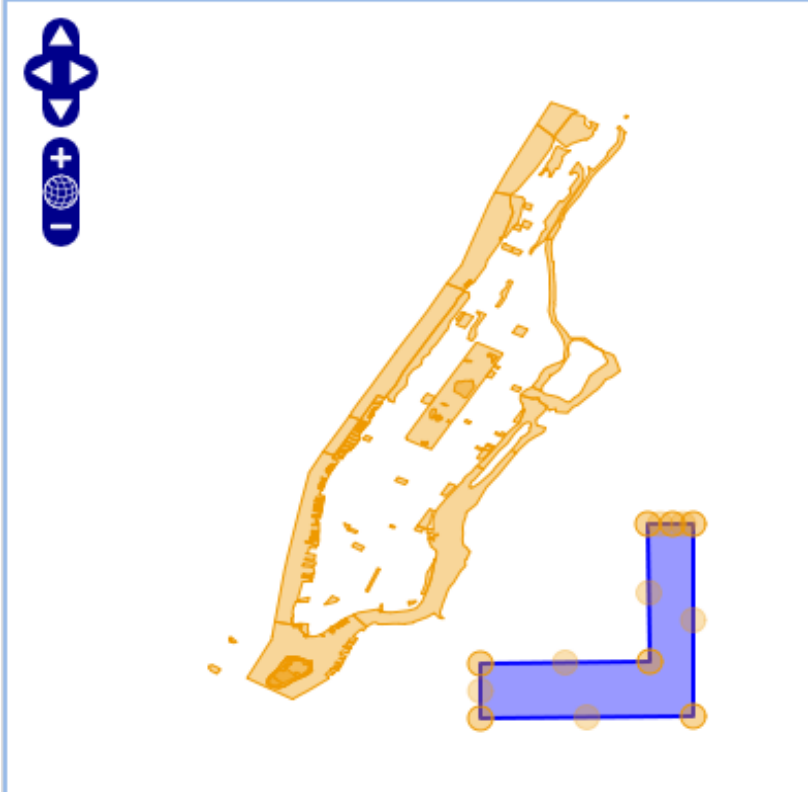
- Base Layers
  - Tasmania State Boundaries
  - Global Imagery
- Tasmania (Group Layer) (checked)
  - topp:tasmania\_roads
  - topp:tasmania\_cities
  - topp:tasmania\_water\_bodies

The main map area shows a map of Tasmania with a green background. Red lines represent roads, and blue shapes represent water bodies. Navigation controls are located in the top left of the map area, including a compass rose, a zoom in (+) button, a zoom out (-) button, and a globe icon. A small inset map of Australia is visible in the top right corner of the map area.



# Module 3 – WFS-T Editor

Map



Feature Table - Manhattan (NY) landmarks

Name	CFCC	Land	Area
The Reservoir	H41	89	10,000
The Lake	H31	91	10,000
Conservatory Wat	H31	92	10,000
The Pond	H31	93	10,000
Castle Clinton Nat	D83	94	10,000
Governors Island	D84	95	10,000
Governors Island	D84	96	10,000
Governors Island	D84	97	10,000
Governors Island	D84	98	10,000
Governors Island	D84	99	10,000
Governors Island	D84	100	10,000
Governors Island	D84	101	10,000
Governors Island	D84	102	10,000
Governors Island	D84	103	10,000
Governors Island	D84	104	10,000
Governor's Island	D84	105	10,000
Hudson River	H11	107	10,000
Jay Hood Wright P	D85	110	10,000
		0	10,000

Create Delete Save

# Try this at home!

[http://presentations.opengeo.org/2010\\_FOSS4G/gx-tutorial.zip](http://presentations.opengeo.org/2010_FOSS4G/gx-tutorial.zip)

## More information

<http://geoext.org/>

