



Summer Term 2011

Softwareentwicklung in der Geoinformatik Praxis

Google Earth

File Handling and Dynamic Visualisations

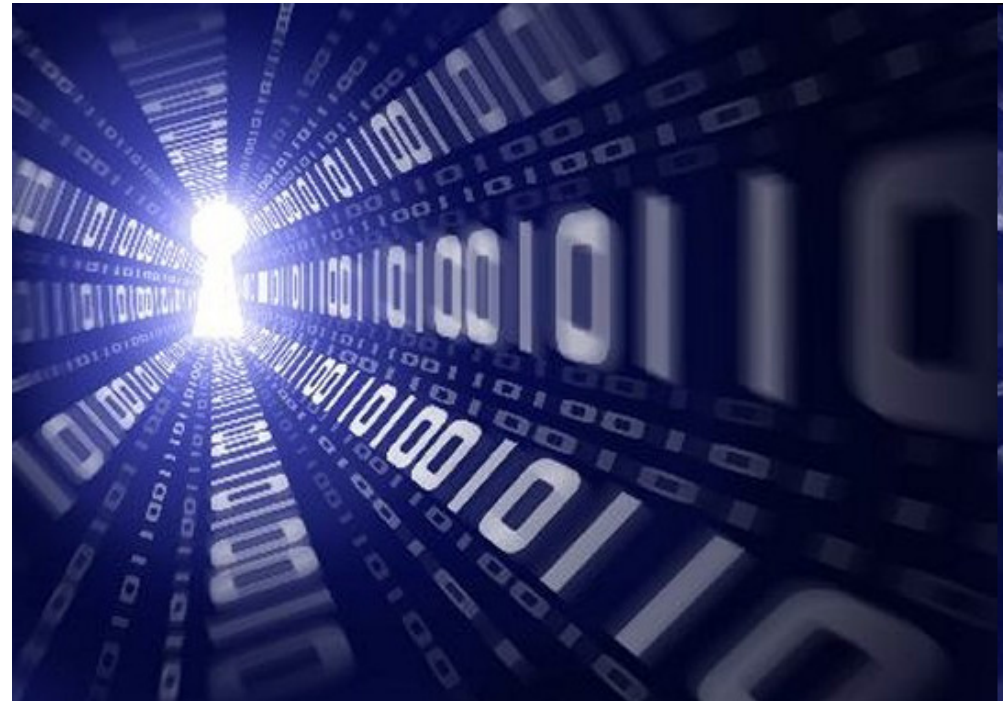
Bernd Resch

13 April 2011



Overview

- Organisational
- Introduction
- Google Earth, KML and Java



Organisational ::: Dates

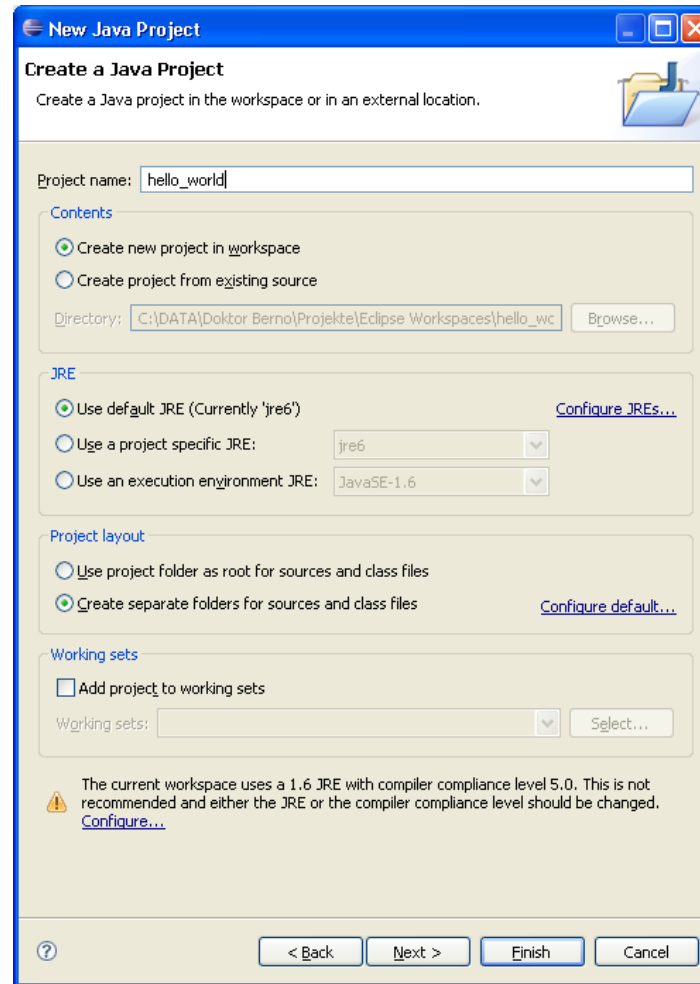
- Wed, 16 March 2011 09.00-12.00 → HS 3.004
- Wed, 06 April 2011 09.00-12.00 → HS 3.004
- Wed, 13 April 2011 09.00-12.00 → HS 3.004
- Wed, 04 May 2011 09.00-12.00 → HS 3.004
- Wed, 18 May 2011 09.00-12.00 → HS 3.004
- Wed, 01 June 2011 09.00-12.00 → HS 3.004
- Wed, 15 June 2011 09.00-12.00 → HS 3.004

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- *Fri, 15 July 2011* *End-term Assignment Due Date*

Google Earth

Introduction to Eclipse

- Create a new project
- “unit3”



Google Earth and KML ::: Exercise

- Create a KML file "unit3.kml" that displays the following WGS84 position:
 - ◆ 13.06024, 47.78861
- ➔ <http://code.google.com/apis/earth>
- ➔ KML Placemark sample:
http://code.google.com/apis/kml/documentation/kml_tut.html#placemarks

Google Earth and KML ::: Exercise

- Create a class "*GoogleEarthLauncher*", which displays the contents of the file "unit3.kml" in Google Earth.
 - ◆ Use *Runtime.getRuntime().exec()* command
 - ➔ parameters: Google Earth program path and KML file path

Google Earth and KML ::: Exercise

- Create a class "*DynamicGoogleEarthLauncher*", which displays the following coordinates (x/y WGS84) in Google Earth:

13.06024,47.78861

13.03917,47.82273

13.03364,47.80569

13.05354,47.80628

13.04747,47.81912

Google Earth and KML ::: Exercise

- Create a class "*DynamicGoogleEarthLauncher*", which displays the following coordinates (x/y WGS84) in Google Earth:
 - ◆ Create a *String* variable containing the KML tags
 - ◆ Use a for loop to create the *<Placemark>* tags

Google Earth and KML :::: Exercise

- Create a class "*DynamicGoogleEarthLauncher*", which displays the following coordinates (x/y WGS84) in Google Earth:
 - ◆ Create the file "unit3.kml" dynamically on your harddrive (use *FileWriter* and *BufferedWriter* classes)
 - ◆ Launch GE using the file path as a command line parameter (s. above *Runtime.getRuntime().exec()*)



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