

# Linked data principles and practice



## CSWS 2013 Summer School

Knud Hinnerk Möller and Victor de Boer

# About us

Knud Hinnerk Möller



Linked Data and Semantic Web practitioner, researcher and consultant.

Freelance Web Data consultant in Berlin, as [datalysator.com](http://datalysator.com)

Victor de Boer



Assistant professor at the Web & Media group of the VU University Amsterdam.

Linked Data Semantic Technologies in

- Cultural Heritage
- Digital History
- Linked Data for Development

# About this course

Date	9:00-12:00	14:00-16:30
Monday, 12/08	<b>LD principles + practice</b>	<b>Google knowledge graph</b>
	- Introduction to Linked Data - Building blocks of Linked Data - Simple Hands-on	
Tuesday, 13/08	<b>LD principles + practice</b>	<b>Baidu Knowledge graph</b>
	- Serving Linked Open Data - SPARQL - Hands-on: ClioPatria	
Wednesday, 14/08	<b>LD principles + practice</b>	
	- Linking your data - Consuming Linked Data	

# Day 1

1. [L] Course introduction
2. [L] introduction
  - General principles
  - Graphs
3. [H] graph drawing

## *Short break*

1. [L] building blocks of LOD
  - RDF, URIs,
  - RDF(S), Metadata schema (?)
  - OWL and beyond
  - Syntaxes RDF/XML, Turtle
2. [H] From Paper to Turtle
3. [L] Closing: what have we learned

# Day 2

1. [L] Theory about LOD servers
2. [H] ClioPatria installation

*Short break*

1. [L] SPARQL lecture and tutorial
2. [H] SPARQL
3. [L] Closing: what have we learned

# Day 3

1. [L] Linking and what's out there
2. [H] Link up your data

## *Short break*

1. [L] Consuming Linked Data
2. [H/L] PHP / Python RDFLib/  
SPARQL for R
3. [L] Closing: what have we  
learned

# Hands On sessions

- Work in groups (2-5 persons)
- We start with pen-and-paper
- One PC/Laptop per group
- Internet connection
- Start forming groups now

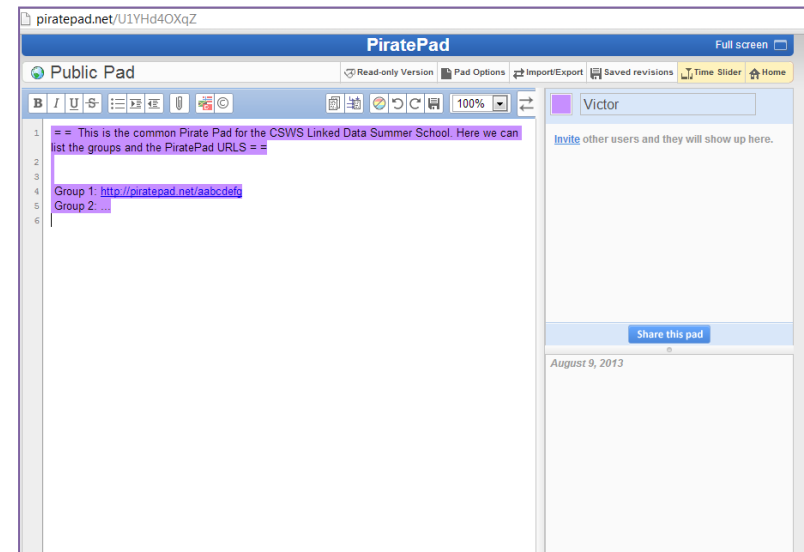
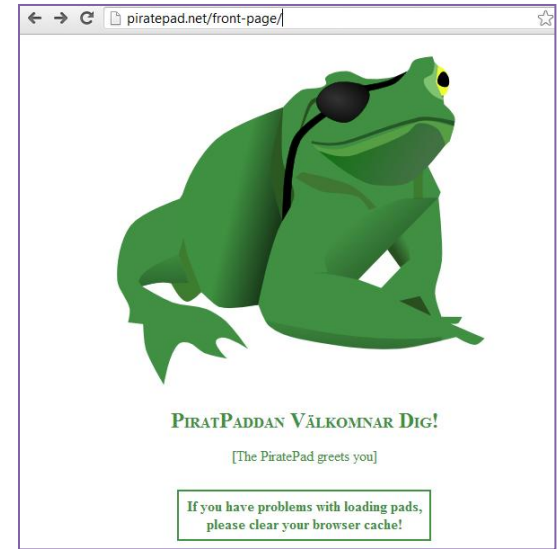
# Sharing code

- Every group makes its own piratepad to share code:
  - Go to piratepad.net
- There is one common piratepad where we list the URLs of the group piratepads

<http://piratepad.net/U1YHd4OXqZ>

or

<http://tinyurl.com/csws2013pad>



# Slides

The slides –and any other materials- will be made available at

<http://tinyurl.com/csww2013slides>

# “Rules”

- If you have questions ...
- If you want to have a specific topic discussed...
- If you are stuck with the hands-on session...
- If we talk to fast...

**Let us know!**