GSS-9.1

9. Individual Projects Steps for the Development of a Generator

- 1. Task Definition
 - a. Task description
 - b. Examples for input (DSL)
 - c. Examples for generated output
 - d. Description of analysis and transformation tasks
- 2. Structuring Phase
 - a. Develop concrete syntax
 - b. Specify notation of tokens
 - c. Develop abstract syntax
 - d. Comprehensive tests
- 3. Semantic Analysis
 - a. Characterize erroneous inputs by test cases
 - b. Specify binding of names
 - c. Specify computation and checks of properties
 - d. Comprehensive tests
- 4. Transformation
 - a. Develop output patterns
 - b. Develop computations to create output
 - c. Comprehensive tests
- 5. Documentation and Presentation of the Generator

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Objectives:

Plan the development of your generator

In the lecture:

Refer to corresponding sections of the lecture, and to the running example.

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Individual Projects in Current Lecture			
	Торіс	Student team	
	Α		
	В		
	С		
	D		
	E		
	F		
	G		
	Н		

Lecture Generating Software from Specifications WS 2013/14 / Slide 902

Objectives:

Overview over Projects

In the lecture:

The topics are explained by the authors

10. Visual Languages Developed using DEViL

Two conference presentations are available in the lecture material:

Domain-Specific Visual Languages: Design and Implemenation

Uwe Kastens, July 2007 CoRTA

Outline:

- 1. What are visual languages?
- 2. Domain-specific visual languages
- 3. Ingredients for Language design
- 4. A Development Environment for Visual Languages
- 5. Pattern-Based Specifications in DEViL

Specifying Generic Depictions of Language Constructs for 3D Visual Languages

Jan Wolter, September 2013, VL / HCC

Outline:

- 1. 3D Visual Languages
- 2. DEViL3D Generator Framework for 3D Visual Languages
- 3. Generic Depictions

Lecture Generating Software from Specifications WS 2013/14 / Slide 951

Objectives:

An initial understanding of visual languages

In the lecture:

Visual languages, their design and implementation is explained. The slides for the presentations can be found in the lecture material: <a href="https://doi.org/10.1001/journal.org/10.100

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