Karlsruhe Institute of Technology

Software Design and Quality

# rootJS - Specification

PSE - Software Engineering Practice

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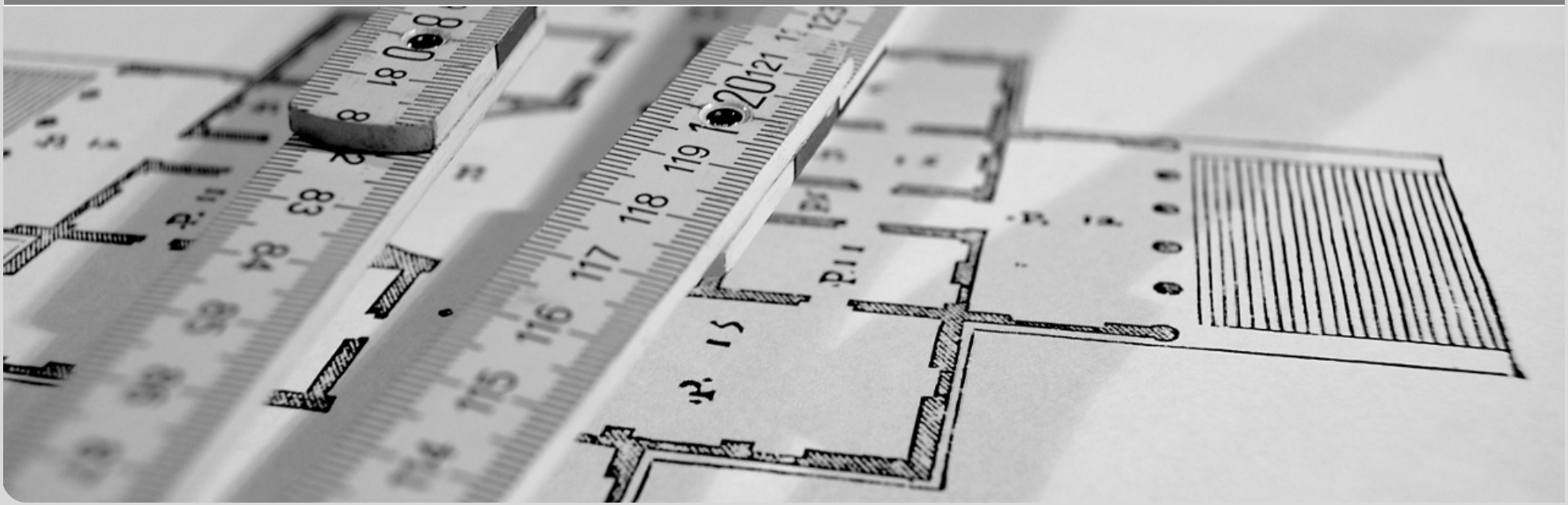
STEINBRUCH CENTER FOR COMPUTING



# Outline/Gliederung

# Software

## ROOT

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## Node.js

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# Software

## ROOT

- 
- 

## Node.js

- 
- 

# Hardware

# Initialization

- Expose all
  - Global variables
  - Global functions
  - Classes
- Each are bound to corresponding proxy methods
- An object which members are the exposed features is beeing passed to node

## Names

- Functions and classes have the same name as in Root
- Global variables can be called using Get[Variable] and Set[Variable] methods

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# Call a feature

- All features in node are mapped to a proxy method that will be called
- The proxy method will eventually call a root function and pass the result to our ObjectFactory
- By looking at the object type an corresponding v8::Handle will be generated and returned to node
  - If the result is an object this will be done recursively

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# Example slide C

## Example 1

- Bullet point 1
- Bullet point 2
- ...

# Example slide C

## Example 1

- Bullet point 1
- Bullet point 2
- ...

# Example slide D

## Alert 1

- Bullet point 1
- Bullet point 2
- ...

# Example slide D

## Alert 1

- Bullet point 1
- Bullet point 2
- ...

# References I