

Semantic Web & Javascript

Project description

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This document describes the overall theme for the master thesis to be written by Arne Hassel, with Kjetil Kjernsmo as main supervisor and Martin Giese and Arild Waaler as secondary supervisors.

The master thesis will focus on Semantic Web (SW) and Javascript (JS), with the goal to create a tool enabling JS-developers to work with SW.

Through analyzing existing, mature SW-tools for other programming languages, we hope to gain insight into what features are required for developers to work with SW.

Through qualitative analysis of popular tools available for JS, we hope to see patterns that are favored among developers.

The tool will be designed as a mid-layer, to first and foremost sport an Application Programming Interface (API) that is intuitive for JS-developers and seasoned SW-developers alike. It will build on standards so that basic functionality in the lower layers can be provided by other instances.

The thesis will relate to the standards written at the World Wide Web Consortium (W3C), and may even contribute to some of their work.

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Kjetil Kjernsmo