Support for Haxe in Org-Babel, Emacs

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Outline

Scope

This section is target at novice users, who don't know what
`org-mode` is.

Area of application

`org-mode` is an editing mode for Emacs. Its primary objectives are:

- To act as a personal organizer.
- To keep a journal of a research.
- To produce technical documentation.
- To provide accounting assistance via spreadsheets.

History

`org-mode` was started (in 2003) and is maintained today by Prof. Carsten Dominik, who works for astronomy department of University of Amsterdam. `org-mode` is one of the most actively developed Emacs packages. It is part of the Emacs distribution since Emacs 22.

Examples

This presentation was developed using `org-mode` and was exported using Beamer LaTeX package.

Overview

`org-babel` is a facility that provides inline code evaluation, highlighting and tangling[1].

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[1] Tangling and untangling is the process employed in literate programming for hiding and displaying code blocks.

Documentation

My primary use of `org-babel` is to provide nicely formatted code blocks with documentation. Eventually, this may also include diagrams.

Research

`org-babel` may be very useful for researches in various fields, where it allows them to embed their programs, proofs and the results of executing the code directly in the document. More yet, it allows the results obtained by one researcher to be reproduced by her colleagues.

Scientific publications

There are many books published using `org-mode` and LaTeX,
where `org-babel` played a significant role. For example,
Benjamin C. Pierce's book on type theory.

What was done so far

So far Haxe support is limited to only JavaScript. The support for tables is in the early stage. Additionaly, this requires Node.js for evaluating the results.

Planned features

- Add support to other Haxe targets.
- Support tables.
- Export generated source code in the target language.
- Generate HTML code for inclusion of SWF for Flash target.

Example

```
package ;
class OrgBabelTest {

  static function main() {
    trace("OrgBabelTest::main called");
  }

}
```

And the result is

```
OrgBabelTest::main called
```