

# Rich text & parsing

EDITING THE FUTURE

# THIS! IS! PARSER!

- MediaWiki's current parser is split between two components:
- Well-defined Preprocessor (template expansion, parser functions & tag hooks, headings, comments)
- Poorly-defined block & inline processing in Parser class

# THIS! IS! PARSER!

- Preprocessor is fast and reversible
- Later parsing throws away data, makes irreversible transformations
- -> we cannot easily reverse HTML to wikitext, or identify source wikitext for all HTML elements

Does better editing  
**need** a new parser?

# Hopes

- **Immediate, fine-grained editing**
- jump straight from page view into a table cell, template parameter, reference contents, etc.
- Need enough annotations from the parser on **real output** that we can identify the part of the source that needs changing

# Existing editor work

- FCK - uses core parser
- Wikia RTE - modifies core parser
- WikiHow - site-specific editor
- Twoonix - custom parser
- Wysiftw - custom parser -> section editing
- InlineEditor - custom -> para editing

# Hopes II

- **Content portability is a key Wikimedia goal**
- Tighter specification of later parser steps will make our content more portable
- Will also make templates more portable
- Taking emphasis off source-level editing encourages future features to use existing function syntax

Read my lips:  
**No New Syntax**



- Refine, don't reimagine
- Decoupled: test on live sites via gadgets
- Inclusive: make easy to try, easy to report issues
- Widespread: aggressively do batch testing to confirm things work on complex pages

- Scariest problem: open...close templates
- Try to find a way to leave these as-is and make the parser & editor smart enough to handle it
- If can't, a clean migration path is **key to deployment**

# What's happening now?

- Brion -- more experiments with JavaScript parsing w/ PEG definitions & custom AST->HTML transform
- Trevor -- experiments with visual editor surface
- Neil -- experiments with another JS PEG-based parser
- You -- ???

# Timeline

- May 2011 -- kickoff here!
- ... experimentation in gadgets...
- August 2011 -- Wikimania demos
- ... opt-in early tests in gadgets...
- November 2011 -- Larger betas & opt-in testing
- ... deployment & migration TBD

# Things to do right now?

- Fiddle with ParserPlayground gadget on mediawiki.org
- Keep experimenting with Wysiftw, InlineEditor, Wikia RTE, and any custom parsers - mwlib, sweble, etc
- Be aggressive about finding real-world test cases: interesting templates on real pages that fail on existing parsers

<http://mediawiki.org/wiki/Future>