The Next Generation of R Markdown

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Keywords: reproducible, knitr, markdown, reports

R Markdown is an authoring format that enables easy creation of dynamic documents, presentations, and reports from *R*. It combines the core syntax of markdown (Gruber 2004), an easy-to-write plain text format, with embedded *R* code chunks whose output is included in the final document. R Markdown documents are fully reproducible (they can be automatically regenerated whenever underlying *R* code or data changes).

This talk will describe R Markdown v2 (Allaire 2014), a next generation implementation of R Markdown based on **knitr** (Xie 2012) and pandoc (MacFarlane 2006). This implementation brings many enhancements to R Markdown, including:

- Create HTML, PDF, and MS Word documents as well as Beamer, ioslides and reveal.js presentations.

- New markdown syntax including expanded support for tables and bibliographies.

- Hooks for customizing HTML and PDF output (include CSS, headers, and footers).

- Embedding of Shiny applications and reactive expressions within R Markdown documents.

- Compilation of HTML, PDF, or MS Word notebooks from R scripts.

- Extensibility: easily define new formats for custom publishing requirements.

This talk will cover the new features of R Markdown in depth and provide many examples of their use. We'll also discuss creating custom templates and output formats as well as extending R Markdown to include new types of rich web content.

References

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