# redoc

Reversible R Markdown/MS Word documents

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## Introduction: The Problem Scenario

- You are working on a collaborative project within a multidisciplinary team.
- You have produced analyses in R and written up a document using RMarkdown.
- You choose to output to MS Word and share the document.
- A collaborator tells you your work is rubbish and returns the document full of tracked changes and comments.
- You need to make revisions but tracked changes and comments cannot be pulled into RMarkdown.





Do you R Markdown but have collaborators that Microsoft Word?

==> No: Quit playin. Go to "Yes".

==> Yes: Check out redoc package by

@noamross for a bridge between R

Markdown and Microsoft Word: github.com

/noamross/redoc #rstats 🚄 📟





#### noamross/redoc

Reversible Reproducible Documents. Contribute to noamross/redoc development by creating an account on GitHub. github.com

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Example: nps\_report\_20161216.docx

### redoc

- redoc is an experimental package created by Noam Ross to enable a two-way RMarkdown ↔
  Microsoft Word workflow.
- Package is in the very early stages and still buggy. It needs a lot of work (if interested, you can contribute).
- Uses lua filters so needs Pandoc v2 (comes with RStudio 1.2)

#### Install with

```
source("https://install-github.me/noamross/redoc")
```

• Provides new output format: rdocx\_reversible().

```
output:
   redoc::rdocx_reversible:
     keep_md: TRUE
     highlight_outputs: TRUE
```

- Word files created with redoc can be reverted back to .Rmd, even if they have been edited.
- Tracked changes and comments added using Critic Markup.
- VERY COOL but quite complex behind the scenes.

## Critic Markup: The 5 Types

### Addition

```
{++ ++}
{++added in words appear here++} {>>This is terrible!<<}
```

### **Deletion**

```
{-- --}
{--deleted words appear here--} {==You said==}{>>Like<<}
```

#### **Substitution**

```
{~~ ~> ~~}
{~~sabstatute~>substitute~~}
```

#### **Comment**

```
{>> <<}
```

### **Highlight (for comments)**

```
{== ==}{>> <<}
```

## **DEMO**

- 1. Create rdocx\_reversible() file using basic RMarkdown template.
- 2. Insert tracked changes and comments to Word redoc file.
- 3. Use undoc() to retrieve . Rmd file in different ways.

[1] **Buggy**: For some reason, the .Rmd needs at least one addition {++++}, one subtraction {---} and one comment {>> <<} to knit properly.

# Some Concluding Thoughts

- redoc is probably too buggy to use in it's current state.
- Lacks some features, e.g. tools to bring in all changes as critic markup and then review within RStudio.
- If you do want to use it, couple of strategies that may work reasonably well:
- Use tracked changes that are very likely to be **all** accepted (or rejected I suppose!). **OR**
- Bring in all changes to the .Rmd and use the search function within RStudio to find different types of changes.

# Thanks, Any Questions?

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