

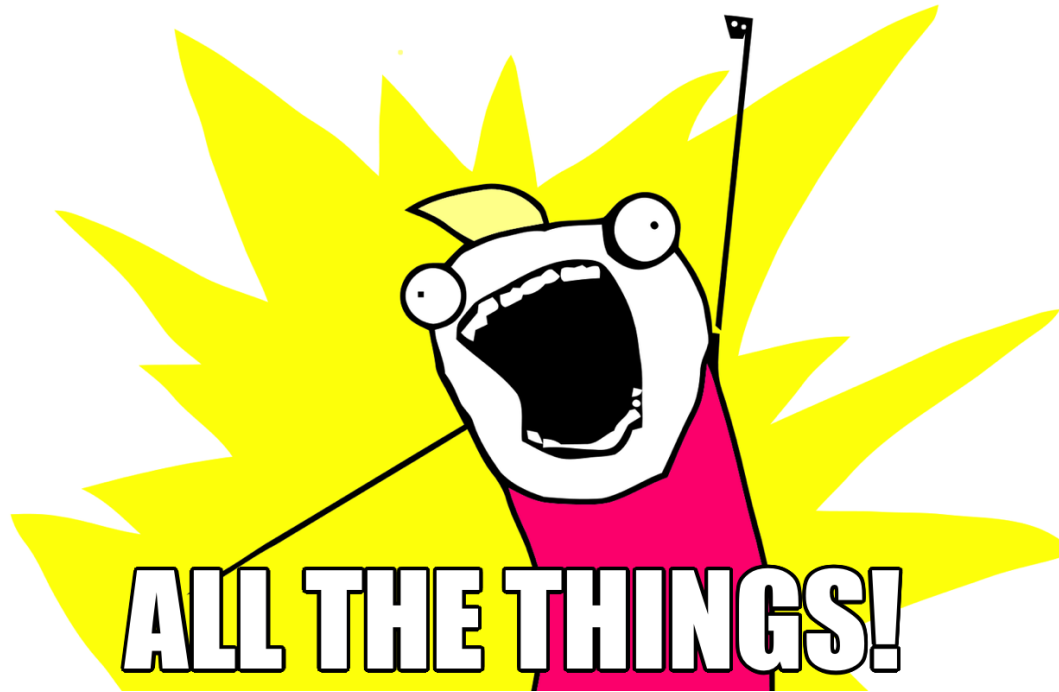
Hacking RStudio

Part 3: templates

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Templates

AUTOMATE



Templates - Why ?

- Automation of common markdown formats
- Sharing templates

For example, ThinkR has an internal package to produce slides (theses slides are generated through a customized `{xaringan}` format)

Examples

- `{pagedown}` - Paginate the HTML Output of R Markdown with CSS for Print
- `{xaringan}` - Presentation Ninja 幻灯忍者 · 写轮眼
- `{rticles}` - LaTeX Journal Article Templates for R Markdown
- `{tufte}` - Tufte Styles for R Markdown Documents

Markdown template

- Create a package
- `usethis::use_rmarkdown_template("mymarkdown")`
- update `inst/rmarkdown/templates/mymarkdown/template.yaml` & `inst/rmarkdown/templates/mymarkdown/skeleton/skeleton.Rmd`
- Install the package
- Find your template File > New File > RMarkdown > From Template

template.yaml

name: mymarkdown

description: >

A description of the template

create_dir: FALSE

skeleton.Rmd

```
---  
title: "Template Title"  
author: "Your Name"  
date: "The Date"  
output: output_format  
---  
  
``{r setup, include=FALSE}  
knitr::opts_chunk$set(echo = TRUE)  
``
```

Adding an RMarkdown Template

This file is what a user will see when they select your template. Make sure that you update the fields in the yaml header. In particular you will want to update the `output` field to whatever format your template requires.

This is a good place to demonstrate special features that your template provides. Ideally it should knit out-of-the-box, or at least contain clear instructions as to what needs changing.

Include external files along the Rmd

- Add files to the `skeleton` folder
- Turn `create_dir` to `TRUE` in the `yaml`



Project Templates

- Create a package
- Create a function to launch on project creation
- Define template metadata
- Input Widgets

Project Templates

```
create_golem <- function(path, ...) {  
  
  dir.create(path, recursive = TRUE, showWarnings = FALSE)  
  
  ll <- list.files(  
    path = golem_sys("shinyexample"),  
    full.names = TRUE, all.files = TRUE, no.. = TRUE  
  )  
  
  file.copy(  
    from = ll,  
    to = path,  
    overwrite = TRUE,  
    recursive = TRUE  
  )  
  
}
```

Project Templates

```
inst/rstudio/templates/project/create_golem.dcf
```

Binding: create_golem_gui

Title: Package for Shiny App using golem

OpenFiles: dev/01_start.R

Icon: golem.png

- Binding: the function to run on project creation
- Title: title of the template in the Gadget
- OpenFiles: which file to open at launch
- Icon: icon

Project Templates - input widgets

Parameter: check

Widget: CheckboxInput

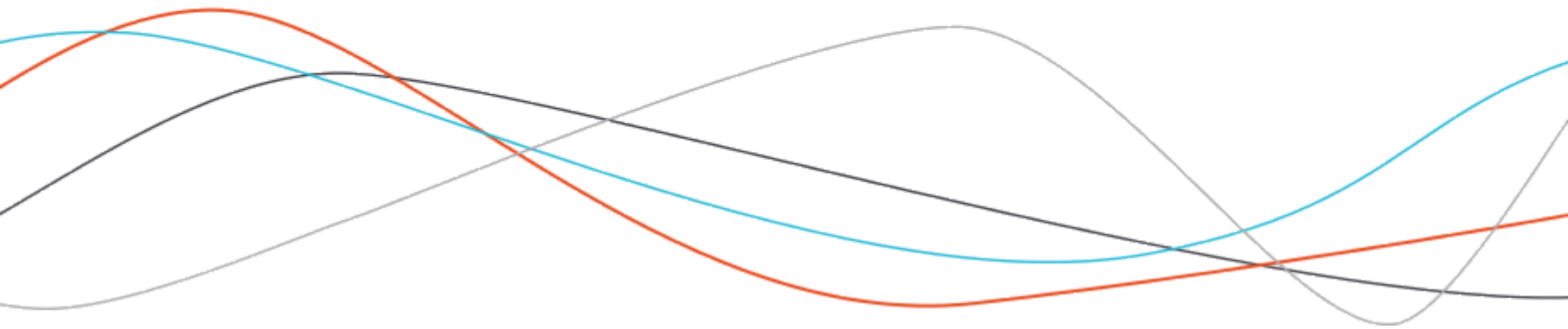
Label: Checkbox Input

Default: On

Position: left

- Parameter: The name of the parameter that will be passed to the function that creates the project.
- Widget: The type of the widget (CheckboxInput / SelectInput / TextInput / FileInput)
- Label: label to display
- Default: Default value of the element
- Position: where to put this element in the widget

Let's practice !





Now it's your turn to create an addin

Pick an idea (or choose your own)

- Create a template for a data analysis (markdown or project)
- Create a Markdown template with a custom CSS
- Create a template to connect to a database
- Create a template for launching a twitter data scraping