

Introduction to Beamer in RMarkdown

Waveley Qiu
MS Biostatistics (Theory and Methods)

Computing Club
April 10, 2023

Introduction

- ▶ Beamer is the \LaTeX package that is used to create presentation slides.
- ▶ As a \LaTeX package, it can be used in any \LaTeX typesetting and compiling processing system.
- ▶ Today, we will be discussing its use in RMarkdown.

Introduction

- ▶ Beamer is the \LaTeX package that is used to create presentation slides.
- ▶ As a \LaTeX package, it can be used in any \LaTeX typesetting and compiling processing system.
- ▶ Today, we will be discussing its use in RMarkdown.

Note: I am not a Beamer expert, just an amateur enthusiast.

Why Beamer?

Why Beamer?

“... \LaTeX encourages authors not to worry too much about the appearance of their documents but to concentrate on getting the right content.”

\LaTeX Project's About Page

Why RMarkdown?

Why RMarkdown?

1. If you can write a report in RMarkdown, you already have the syntactical structure you need to create a Beamer presentation! Special formatting pieces can be easily supplemented where needed.

Why RMarkdown?

1. If you can write a report in RMarkdown, you already have the syntactical structure you need to create a Beamer presentation! Special formatting pieces can be easily supplemented where needed.
2. You get all the benefits of RMarkdown – text, code, plots, and \LaTeX , all in one document.

Why RMarkdown?

1. If you can write a report in RMarkdown, you already have the syntactical structure you need to create a Beamer presentation! Special formatting pieces can be easily supplemented where needed.
2. You get all the benefits of RMarkdown – text, code, plots, and \LaTeX , all in one document.
3. File structure... and Git!

General Structure of a Beamer Presentation

YAML Header

```
1 ---
2 title: |
3   | Introduction to Beamer in RMarkdown
4 author: |
5   | Waveley Qiu
6   | MS Biostatistics (Theory and Methods)
7 date: |
8   | Computing Club
9   |
10 `r format(Sys.time(), '%B %d, %Y')`
11 output: beamer_presentation
12 ---
```

Introduction to Beamer in RMarkdown

Waveley Qiu
MS Biostatistics (Theory and Methods)

Computing Club
April 10, 2023

Figure 1: YAML Header and Result

Sectioned Content

```
80 • ## Why RMarkdown?
```

```
81
```

```
82 > 1. If you can write a report in RMarkdown, you  
already have the syntactical structure you need to  
create a Beamer presentation! Special formatting  
pieces can be easily supplemented where needed.
```

```
83
```

```
84 > 2. You get all the benefits of RMarkdown --  
text, code, plots, and \LaTeX, all in one  
document.
```

```
85
```

```
86 > 3. File structure... and Git!
```

```
87
```

Why RMarkdown?

1. If you can write a report in RMarkdown, you already have the syntactical structure you need to create a Beamer presentation! Special formatting pieces can be easily supplemented where needed.
2. You get all the benefits of RMarkdown – text, code, plots, and \LaTeX , all in one document.
3. File structure... and Git!

Figure 2: Sectioned Content and Result

Let's make a presentation :)

GitHub

Pull from this repo to follow along!

https://github.com/waveley/intro_to_beamer

References

<https://www.latex-project.org/about/>