

# Rmd Beamer Example

John Doe

July 9, 2018

Example of Beamer Slides from R Markdown

# Outline

- ▶ Instructions
- ▶ An image
- ▶ Two R code chunks
- ▶ An equation typeset in LaTeX
- ▶ References

## How to Create Beamer Slides from an Rmd file

- ▶ put title information in yaml prologue (optional)
- ▶ open a `.term` file and run these commands
- ▶ rendered view in Rmd editor may not look right - view the pdf file to see slides

```
$ R
> library(rmarkdown)
> render("filename.Rmd", beamer_presentation())
> quit()
$ open filename.pdf
```

# Image



Figure 1: NASA Exoplanet Exploration Program

Radius of planet:

$$r_p = r_s \times \sqrt{\frac{\Delta B}{B}}$$

Radius of planet's orbit:

$$r = \sqrt[3]{\frac{GM_s P^2}{4\pi^2}}$$

## R Code Chunk 1

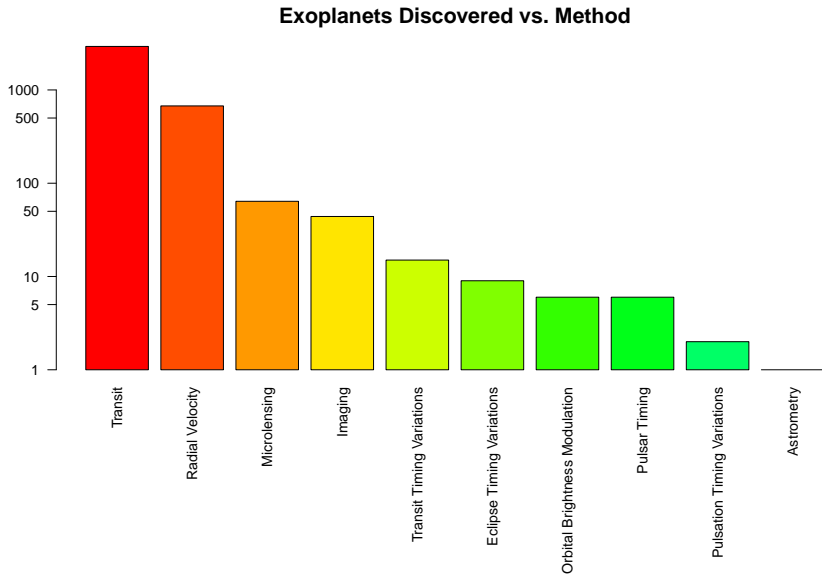
Get Data

```
qry  <- paste0("table=exoplanets&select=",
               "pl_hostname,",
               "pl_letter,",
               "pl_discmethod,pl_publ_date")
site <- paste0("http://exoplanetarchive.ipac.caltech.edu",
               "/cgi-bin/nstEDAPI/nph-nstEDAPI")
url  <- paste0(site, "?", qry)
exo  <- read.csv(url, stringsAsFactors=F)
exo$pl_discmethod <- as.factor(exo$pl_discmethod)
head(exo,3)
```

##	pl_hostname	pl_letter	pl_discmethod	pl_publ_date
## 1	HD 86081		b Radial Velocity	2006-08
## 2	HD 86226		b Radial Velocity	2010-03
## 3	HD 87883		b Radial Velocity	2009-10

## R Code Chunk 2

Yield for different methods of discovery. Use log scale on vertical axis





## References

Beamer User Guide

<http://tug.ctan.org/macros/latex/contrib/beamer/doc/beameruserguide.pdf>

R Markdown Presentations with Beamer

[https://rmarkdown.rstudio.com/beamer\\_presentation\\_format.html](https://rmarkdown.rstudio.com/beamer_presentation_format.html)

R function to create beamer slides

[https://www.rdocumentation.org/packages/rmarkdown/versions/1.9/topics/beamer\\_presentation](https://www.rdocumentation.org/packages/rmarkdown/versions/1.9/topics/beamer_presentation)

NASA Exoplanet Exploration Program

<https://exoplanets.nasa.gov/alien-worlds/exoplanet-travel-bureau/>