# R is dope AF

# ${\it Matthew~Malishev}^{1*}$

<sup>1</sup> Department of Biology, Emory University, 1510 Clifton Road NE, Atlanta, GA, USA, 30322

## Contents

Overview	
Just like LateX, but more versatile	
All from R!	!

Date: 2018-11-19 R version: 3.5.0

\*Corresponding author: matthew.malishev@gmail.com

This document can be found at https://github.com/darwinanddavis/SchistoIBM/tree/master/mac

#### R session info

#### params\$session

R version 3.5.0 (2018-04-23)

Platform: x86\_64-apple-darwin15.6.0 (64-bit) Running under: OS X El Capitan 10.11.6

Matrix products: default

BLAS: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRblas.0.dylib LAPACK: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRlapack.dylib

#### locale:

[1] en\_US.UTF-8/en\_US.UTF-8/en\_US.UTF-8/C/en\_US.UTF-8/en\_US.UTF-8

#### attached base packages:

[1] stats graphics grDevices utils datasets methods base

#### loaded via a namespace (and not attached):

[1] compiler\_3.5.0 backports\_1.1.2 magrittr\_1.5 rprojroot\_1.3-2 tools\_3.5.0 htmltools\_0.3.6 [7] pillar\_1.2.3 tibble\_1.4.2 yaml\_2.2.0 Rcpp\_0.12.19 stringi\_1.2.3 rmarkdown\_1.10

[13] knitr\_1.20 stringr\_1.3.1 digest\_0.6.15 rlang\_0.3.0.1 evaluate\_0.10.1

#### Overview

This document showcases why R is dope.

You can write in-line code, equations like this  $E = mc^2$ , create links to your website.

#### Just like LateX, but more versatile.

Create quoted text

Pump the bass in the trunk //
It rattled like a baby hand //
Except this toy cost 80 grand //
And I'm crazy tan, from all the places that I've been //
Just from writing words with a pen //

Define equations

$$t' = \frac{1}{\sqrt{1 - \frac{v^2}{c^2}}}$$

Embed images/gifs:



Embed code from different languages.

```
This is R code
```

```
if(pck==1){
  p<-c("rJava", "RNetLogo"); remove.packages(p)</pre>
  # then install rJava and RNetLogo from source
  install.packages("rJava", repos = "https://cran.r-project.org/", type="source"); library(rJava)
  install.packages("RNetLogo", repos = "https://cran.r-project.org/", type="source"); library(RNetLogo)
}
shell/bash
echo "Hello Bash!"
pwd # check working dir
git init # initialise git
Octave (and MATLAB from the RMatlab package).
RMatlab documentation.
b = [4; 9; 2] # Column vector
A = [345;
     1 3 1;
      3 5 9 ]
x = A \setminus b # Solve the system Ax = b
HTML
<!-- links-->
        <div class="footer">
            <a href="dd_feed.html"</pre>
            class="transition fade in">
                Latest post
            </a>
                 
            <a href="dd_contact.html"</pre>
            class="transition fade_in">
                Contact
            </a>
                 
            <a href="dd_subscribe.html"</pre>
            class="transition fade_in">
                Subscribe
            </a>
        </div>
CSS
body {
  color: red;
Javascript to access html and css
$('.title').css('color', 'red')
Python
x = 'hello, python world!'
print(x.split(' '))
```

Here's a complete list of available languages

## names(knitr::knit\_engines\$get())

[1]	"awk"	"bash"	"coffee"	0	"groovy"	"haskell"	"lein"	"mysql"
[9]	"node"	"octave"	"perl"	"psql"	"Rscript"	"ruby"	"sas"	"scala"
[17]	"sed"	"sh"	"stata"	"zsh"	"highlight"	"Rcpp"	"tikz"	"dot"
[25]	"c"	"fortran"	"fortran95"	"asy"	"cat"	"asis"	"stan"	"block"
[33]	"block2"	"js"	"css"	"sql"	"go"	"python"	"julia"	

## All from R!