

R is dope AF

Matthew Malishev^{1*}

¹ *Department of Biology, Emory University, 1510 Clifton Road NE, Atlanta, GA, USA, 30322*

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*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)  
  # 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 = [ 3 4 5;  
      1 3 1;  
      3 5 9 ]  
x = A \ b      # Solve the system Ax = b
```

HTML

```
<!-- links-->  
  <div class="footer">  
    <a href="dd_feed.html"  
      class="transition fade_in">  
      Latest post  
    </a>  
    &nbsp; &nbsp; &nbsp; &nbsp;  
    <a href="dd_contact.html"  
      class="transition fade_in">  
      Contact  
    </a>  
    &nbsp; &nbsp; &nbsp; &nbsp;  
    <a href="dd_subscribe.html"  
      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"    "gawk"      "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!