

# R is dope AF

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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!**