SSIE 500 /Introduction to R

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First step : Download R

To use R ,you must choose a computing center called mirror ,I recommend choosing Berkeley ,but you can use any mirror of your choice

Click on the link below and choose your downlaod type (window,mac. . . .)

https://cran.cnr.berkeley.edu

Second step : Download Rstudio

It's fair to say that Rstudio is the best free IDE for R

click on the link below and pick "RStudio Desktop Open Source License"

https://www.rstudio.com/products/rstudio/download/

Tutorial

https://cran.r-project.org/doc/manuals/R-intro.html

Test this short code on your machine !

```r
library(knitr)
X=c(1,2,3,4,5,6,7,8,9,10)
FX=4*X^3+2*X^2+sqrt(X)
df=data.frame(X,FX)
kable(df)
```

X	FX
1	7.00000
2	41.41421
3	127.73205
4	290.00000
5	552.23607
6	938.44949
7	1472.64575
8	2178.82843
9	3081.00000
10	4203.16228

```r
plot(X,FX)
lines(X,FX)
```