

Data in R

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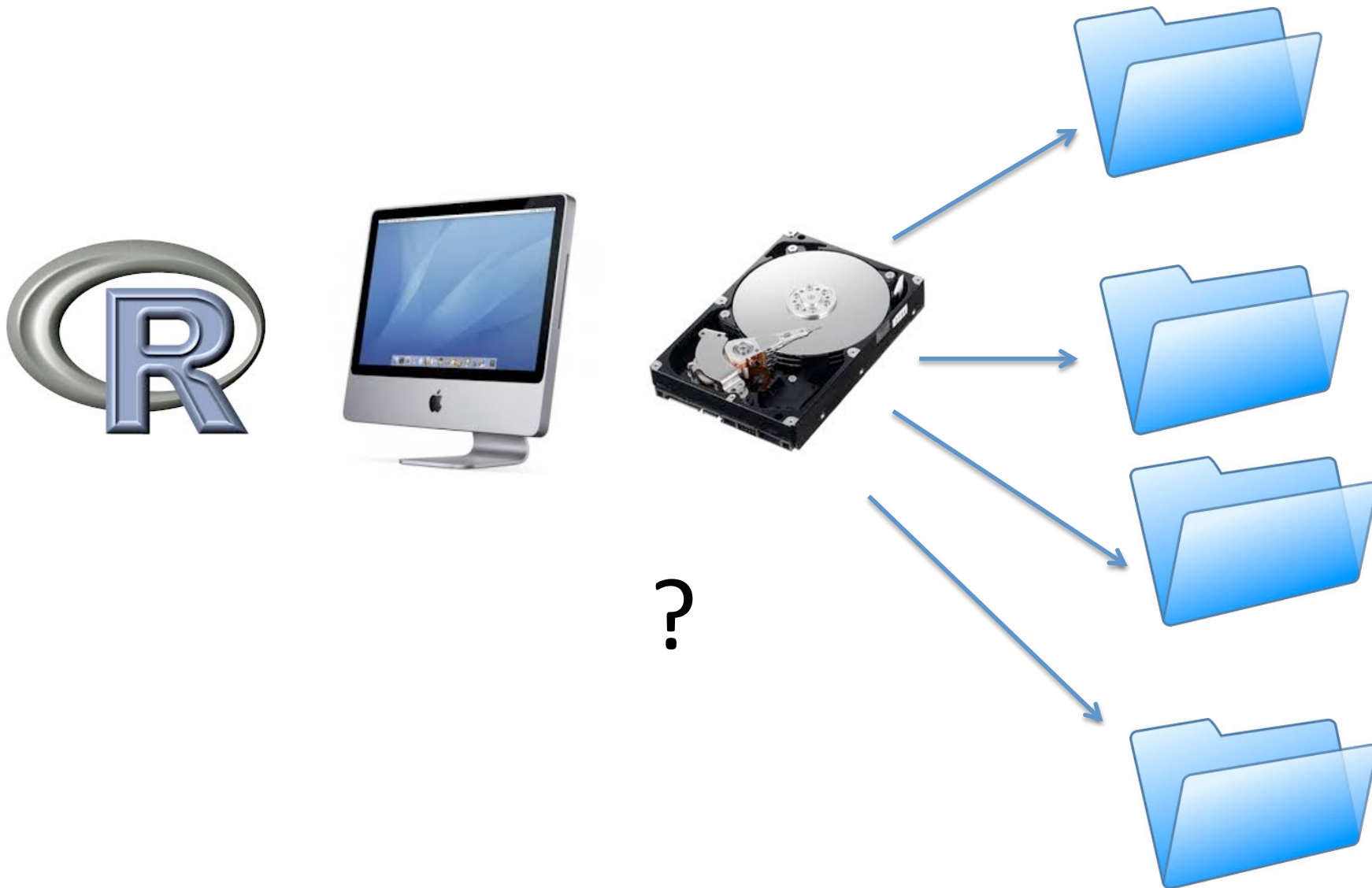


Microsoft
Office Excel

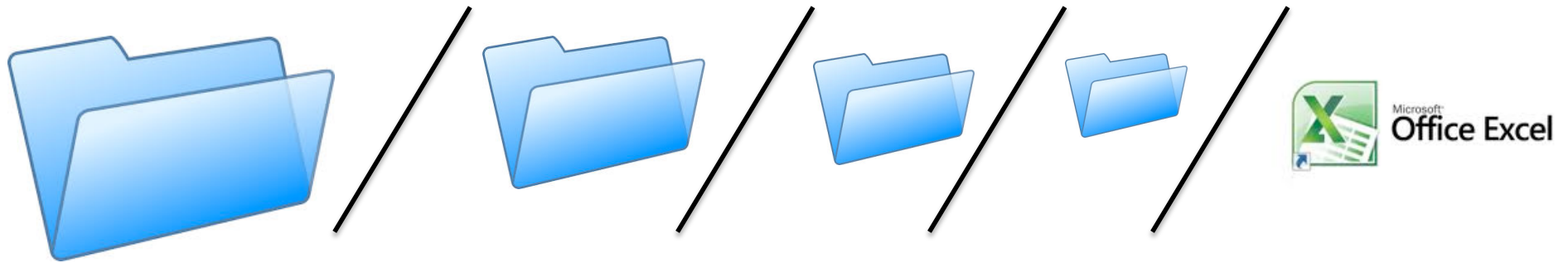
MySQL[®]



The working directory



Paths



Paths

- In Unix systems (mac or linux):

`~/path/to/file`

- In Windows

`\path\to\file`

Basic text files and tables

- Comma separated values (csv)
- Tab delimited text (txt)
- Space delimited (txt)
- Microsoft Office Excel files (xlsx)
(xlsx package extension)

Comma separated values

```
"data.file","calib.depth","Mean","Median","LowerHPD","HigherHPD"  
"SC1.ENV.log","100","0.00413380484764836","0.0041022018308103","0.0033  
"SC1.POL.log","100","0.001430247093376","0.00142096867630506","0.00124  
"SC2.ENV.log","21","0.00223051903303549","0.00169251327311646","0.0012  
"SC2.POL.log","25","0.000699881935828759","0.000606232514051607","0.00  
"SC3.ENV.A.log","15","0.00144102940521266","0.00141872586728741","0.00  
"SC3.ENV.B.log","18","0.00453949278305783","0.00451624515188946","0.00  
"SC3.POL.A.log","13","0.000868172610137217","0.000823904062277887","0.  
"SC3.POL.B.log","26","0.00111520152134509","0.00107474174987162","0.00  
"SC4.ENV.log","17","0.00328003719892098","0.00324465536802701","0.0023  
"SC4.POL.log","21","0.00112575996425508","0.00108650617564214","0.0006  
"SC5.ENV.sa.log","15","0.00771919773387022","0.00793382986166479","0.0  
"SC5.POL.sa.log","15","0.00160297591775934","0.000643533523455008","2.  
"SC6.ENV.3985.log","2.64","0.0177778999683104","0.0175169802275044","0  
"SC6.POL.29253.log","1.1","0.00554032034470414","0.00528239819823208",  
"SC6.POL.29266.log","3","0.00551927027153043","0.00512812708988147","0
```

Tab or space delimited text

data.file	calib.depth	Mean	Median	LowerHPD	HigherHPD
SC1.ENV.log	100	0.004133805	0.004102202	0.003324299	0.005093095
SC1.POL.log	100	0.001430247	0.001420969	0.001245977	0.001647794
SC2.ENV.log	21	0.002230519	0.001692513	0.001297859	0.009222209
SC2.POL.log	25	0.000699882	0.000606233	0.000361451	0.000915558
SC3.ENV.A.log	15	0.001441029	0.001418726	0.000499961	0.002419214
SC3.ENV.B.log	18	0.004539493	0.004516245	0.003465685	0.005623201
SC3.POL.A.log	13	0.000868173	0.000823904	0.000251927	0.001592222
SC3.POL.B.log	26	0.001115202	0.001074742	0.000676133	0.001703974
SC4.ENV.log	17	0.003280037	0.003244655	0.00236906	0.004222985
SC4.POL.log	21	0.00112576	0.001086506	0.000606301	0.001662764
SC5.ENV.sa.log	15	0.007719198	0.00793383	0.001018945	0.011420159
SC5.POL.sa.log	15	0.001602976	0.000643534	2.67E-05	0.004900402

Tutorial 5

- Set and find the working directory (WD) in R
- Reading and write text from the WD
(readLines)
- Read and write CSV files from the WD
(read.table)

We learned...

- The working directory is where R will look for data
- R can read data in different formats