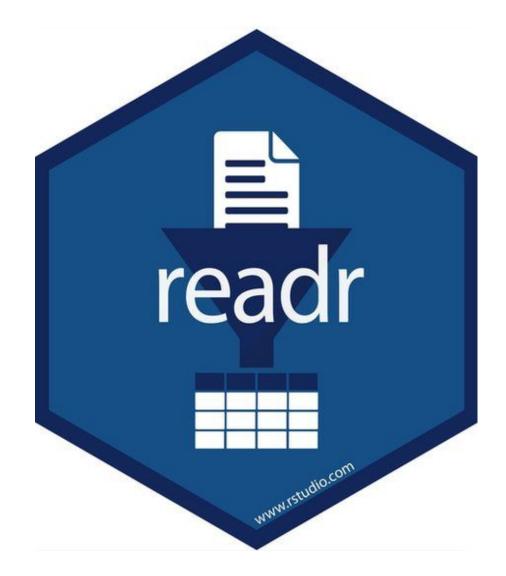
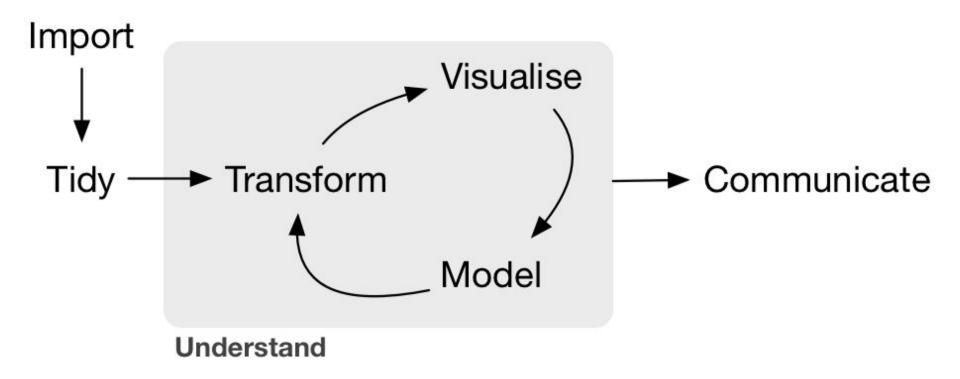
reading and writing data with readr

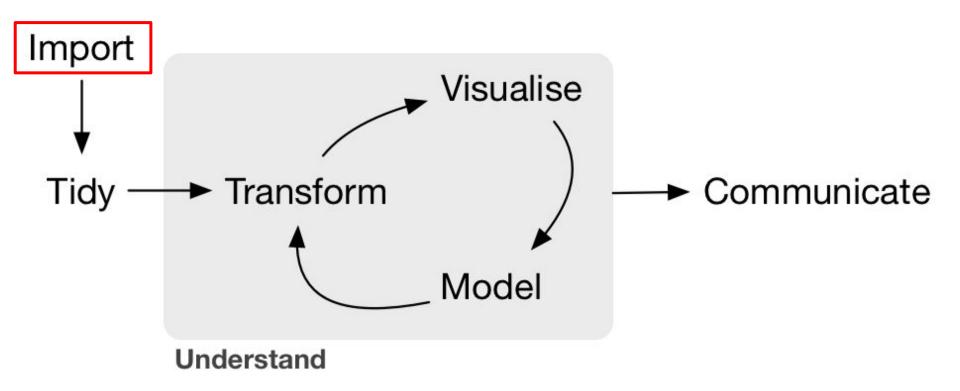
Fels Bioinformatics Meetup 2018.10.19



Steps in Data Analysis



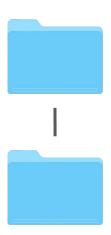
Steps in Data Analysis



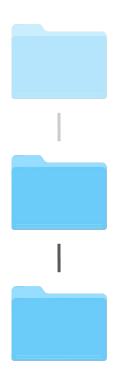
Directory

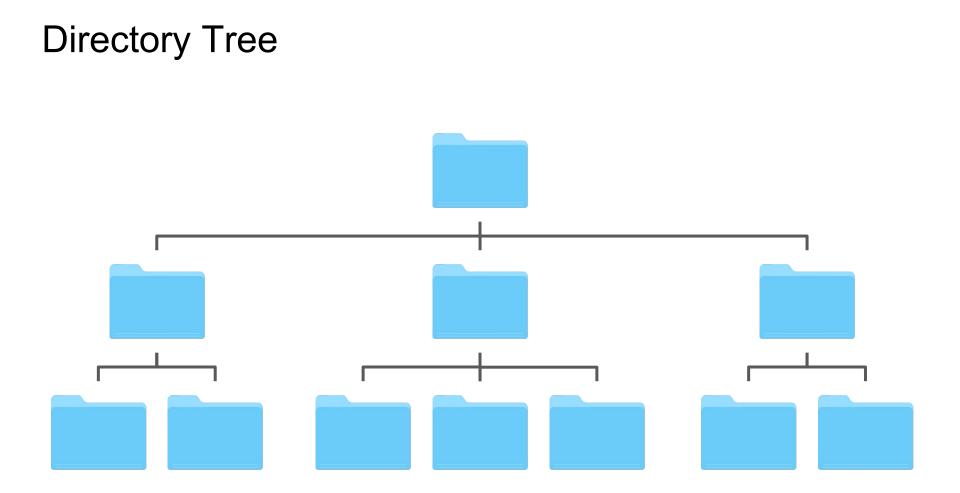


Parent Directory

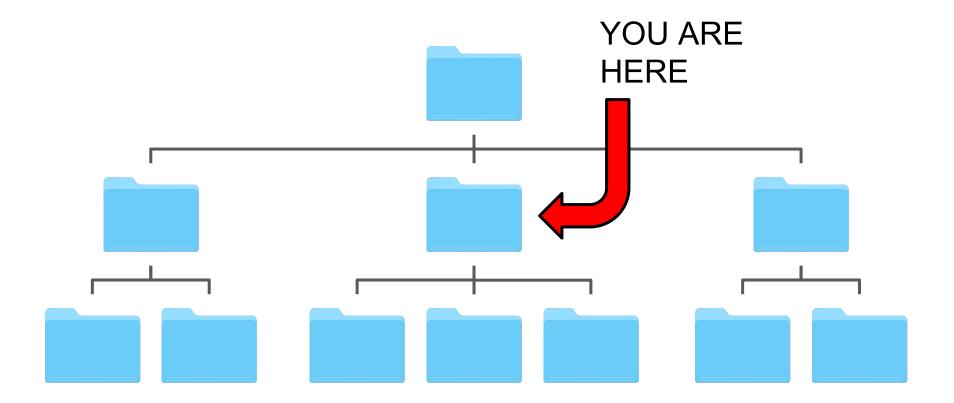


Child Directory / Subdirectory

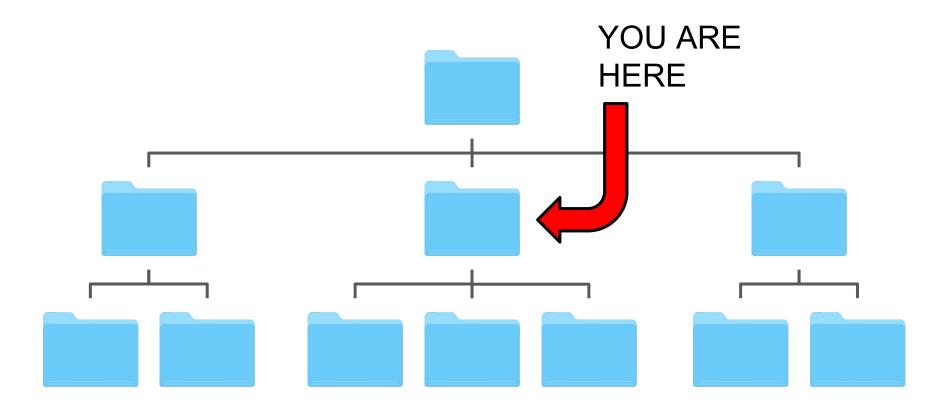




Working Directory



File Path



/parent_directory/child_directory1/

Linux (where data analysis/bioinformatics is mostly done) likes plain text files. Data is usually stored in delimited plain text files. A delimiter is any character that is used to specify boundaries between data, mostly commonly tabs or commas

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tab separated values (TSV)

Sepal.Length	Sepal.Width Petal.Length	Petal.Width Species
5.1 3.5 1.4 0.2	setosa	
4.9 3 1.4 0.2	setosa	
4.7 3.2 1.3 0.2	setosa	
4.6 3.1 1.5 0.2	setosa	
5 3.6 1.4 0.2	setosa	

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4.9 3 1.4 0.2	setosa	
4.7 3.2 1.3 0.2	setosa	
4.6 3.1 1.5 0.2	setosa	
5 3.6 1.4 0.2	setosa	

comma separated values (CSV)

```
Sepal.Length,Sepal.Width,Petal.Length,Petal.Width,Species-
5.1,3.5,1.4,0.2,setosa-
4.9,3,1.4,0.2,setosa-
4.7,3.2,1.3,0.2,setosa-
4.6,3.1,1.5,0.2,setosa-
5,3.6,1.4,0.2,setosa-
```

ANYTHING, however, can be used to delimit files

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spaces (probably third most common)

Sepal.Length Sepal.Width Petal.Length Petal.Width Species 5.1 3.5 1.4 0.2 setosa 4.9 3 1.4 0.2 setosa 4.7 3.2 1.3 0.2 setosa 4.6 3.1 1.5 0.2 setosa 5 3.6 1.4 0.2 setosa

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spaces (probably third most common)

Sepal.Length Sepal.Width Petal.Length Petal.Width Species 5.1 3.5 1.4 0.2 setosa 4.9 3 1.4 0.2 setosa 4.7 3.2 1.3 0.2 setosa 4.6 3.1 1.5 0.2 setosa 5 3.6 1.4 0.2 setosa

or seriously whatever people want

```
Sepal.Length/Sepal.Width/Petal.Length/Petal.Width/Species¬
5.1/3.5/1.4/0.2/setosa¬
4.9/3/1.4/0.2/setosa¬
4.7/3.2/1.3/0.2/setosa¬
4.6/3.1/1.5/0.2/setosa¬
5/3.6/1.4/0.2/setosa¬
```