

Reading Data

If the file that you are going to read is saved in your working directory, you do not need to specify the whole path to the file.

Reading from .txt file

Getting help

```
> ?read.table
```

`read.table` reads a file and create a data frame from it. By default it doesn't have a `header`.

```
> our.data = read.table("Data/CData.txt", header = TRUE)
> head(our.data)
      x      y
1 5.1756426 1.4663523
2 8.3717110 3.8488988
3 0.3805756 1.3589665
4 4.3884145 4.5357171
5 1.9780963 0.5158695
6 0.5544184 0.4695551
```

Reading from .csv file

Getting help

```
> ?read.csv
```

`csv` stands for comma-separated values. `read.csv` reads a file and create a data frame from it. By default it has a `header` and the values are separated `sep` by `,`.

```
> pokemon = read.csv("Data/pokemon.csv")
> head(pokemon)
  Number      Name Type_1 Type_2 Total HP Attack Defense
Sp_Atk Sp_Def Speed
1      1    Bulbasaur  Grass Poison   318 45     49     49
65     65     45
```

2	2	Ivysaur	Grass Poison	405	60	62	63
80	80	60					
3	3	Venusaur	Grass Poison	525	80	82	83
100	100	80					
4	4	Charmander	Fire	309	39	52	43
60	50	65					
5	5	Charmeleon	Fire	405	58	64	58
80	65	80					
6	6	Charizard	Fire Flying	534	78	84	78
109	85	100					

Generation	isLegendary	Color	hasGender	Pr_Male
Egg_Group_1	Egg_Group_2			

1	1	False	Green	True	0.875
Monster		Grass			
2	1	False	Green	True	0.875
Monster		Grass			
3	1	False	Green	True	0.875
Monster		Grass			
4	1	False	Red	True	0.875
Monster		Dragon			
5	1	False	Red	True	0.875
Monster		Dragon			
6	1	False	Red	True	0.875
Monster		Dragon			

	hasMegaEvolution	Height_m	Weight_kg	Catch_Rate
Body_Style				
1	False	0.71	6.9	45
quadruped				
2	False	0.99	13.0	45
quadruped				
3	True	2.01	100.0	45
quadruped				
4	False	0.61	8.5	45
bipedal_tailed				
5	False	1.09	19.0	45
bipedal_tailed				
6	True	1.70	90.5	45
bipedal_tailed				

```
> titanic = read.csv("Data/titanic.csv")
```

```
> head(titanic)
```

	PassengerId	Survived	Pclass
1	1	0	3

2	2	1	1
3	3	1	3
4	4	1	1
5	5	0	3
6	6	0	3

Name _____

Sex Age SibSp Parch

1 Braund, Mr. Owen Harris

male	22	1	0
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2 Cumings, Mrs. John **Bradley** (Florence Briggs Thayer)

female	38	1	0
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3 Heikkinen, Miss. Laina

female	26	0	0
--------	----	---	---

4 Futrelle, Mrs. Jacques **Heath** (Lily May Peel)

female	35	1	0
--------	----	---	---

5 Allen, Mr. William Henry

male	35	0	0
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6	Moran, Mr. James
---	------------------

male	NA	0	0
------	----	---	---

Ticket	Fare	Cabin	Embarked
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1 A/5 21171 7.2500 S

2	PC	17599	71.2833	C85	C
---	----	-------	---------	-----	---

```
3 STON/O2. 3101282 7.9250 S
```

4	113803	53.1000	C123	S
---	--------	---------	------	---

5	373450	8.0500	S
---	--------	--------	---

6	330877	8.4583	0
---	--------	--------	---