

## Data Wrangling – Part 5

`arrange()`: is used to reorder the rows of a data frame based on one or more variables. The default order is from smallest to largest (or alphabetical for strings). To change the order from largest to smallest use "desc()".

### Command Illustration

```
new_dataframe_name <- dataframe_name %>%  
  arrange(column_name)
```

For the illustration examples, assume the dataframe is the following:

**Illustration\_Data**

Name	Age	total_Income	var_1	var_2	var_3	zipcode	honesty	cat_total
Val	18	18000	apple	carrots	elephant	60001	agree	0
Derek	25	25000	grapes	carrots	tiger	60073	disagree	1
Whitney	30	30000	bananas	carrots	lion	60109	disagree	2
Sasha	40	40000	peaches	carrots	rabbit	60111	disagree	1
Daniella	45	45000	bananas	carrots	shark	60155	agree	1

**Example 1:** Arrange data by "cat\_total" in ascending order (smallest to largest)

```
example_1<-Illustration_Data %>%  
  arrange(cat_total)
```

Name	Age	total_Income	var_1	var_2	var_3	zipcode	honesty	cat_total
Val	18	18000	apple	carrots	elephant	60001	agree	0
Derek	25	25000	grapes	carrots	tiger	60073	disagree	1
Whitney	30	30000	bananas	carrots	lion	60109	disagree	2
Sasha	40	40000	peaches	carrots	rabbit	60111	disagree	1
Daniella	45	45000	bananas	carrots	shark	60155	agree	1

Output will be a dataframe that looks like:

Name	Age	total_Income	var_1	var_2	var_3	zipcode	honesty	cat_total
Val	18	18000	apple	carrots	elephant	60001	agree	0
Derek	25	25000	grapes	carrots	tiger	60073	disagree	1
Sasha	40	40000	peaches	carrots	rabbit	60111	disagree	1
Daniella	45	45000	bananas	carrots	shark	60155	agree	1
Whitney	30	30000	bananas	carrots	lion	60109	disagree	2

**Example 2:** Arrange data by "cat\_total" in descending order (largest to smallest).

```
example_2<-illustration_Data %>%
```

```
arrange(desc(cat_total))
```

Name	Age	total_Income	var_1	var_2	var_3	zipcode	honesty	cat_total
Val	18	18000	apple	carrots	elephant	60001	agree	0
Derek	25	25000	grapes	carrots	tiger	60073	disagree	1
Whitney	30	30000	bananas	carrots	lion	60109	disagree	2
Sasha	40	40000	peaches	carrots	rabbit	60111	disagree	1
Daniella	45	45000	bananas	carrots	shark	60155	agree	1

Output will be a dataframe that looks like:

Name	Age	total_Income	var_1	var_2	var_3	zipcode	honesty	cat_total
Whitney	30	30000	bananas	carrots	lion	60109	disagree	2
Derek	25	25000	grapes	carrots	tiger	60073	disagree	1
Sasha	40	40000	peaches	carrots	rabbit	60111	disagree	1
Daniella	45	45000	bananas	carrots	shark	60155	agree	1
Val	18	18000	apple	carrots	elephant	60001	agree	0

**Example 3:** Arrange data in alphabetical order by name.

```
example_3<-illustration_Data %>%
```

```
arrange(Name)
```

Name	Age	total_Income	var_1	var_2	var_3	zipcode	honesty	cat_total
Val	18	18000	apple	carrots	elephant	60001	agree	0
Derek	25	25000	grapes	carrots	tiger	60073	disagree	1
Whitney	30	30000	bananas	carrots	lion	60109	disagree	2
Sasha	40	40000	peaches	carrots	rabbit	60111	disagree	1
Daniella	45	45000	bananas	carrots	shark	60155	agree	1

Output will be a dataframe that looks like:

Name	Age	total_Income	var_1	var_2	var_3	zipcode	honesty	cat_total
Daniella	45	45000	bananas	carrots	shark	60155	agree	1
Derek	25	25000	grapes	carrots	tiger	60073	disagree	1
Sasha	40	40000	peaches	carrots	rabbit	60111	disagree	1
Val	18	18000	apple	carrots	elephant	60001	agree	0
Whitney	30	30000	bananas	carrots	lion	60109	disagree	2

**Example 4:** Count the number of occurrences each fruit had in "var\_1"

```
example_4<-illustration_Data %>%  
  group_by(var_1) %>%  
  summarize(N = n())
```

Name	Age	total_Income	var_1	var_2	var_3	zipcode	honesty	cat_total
Val	18	18000	apple	carrots	elephant	60001	agree	0
Derek	25	25000	grapes	carrots	tiger	60073	disagree	1
Whitney	30	30000	bananas	carrots	lion	60109	disagree	2
Sasha	40	40000	peaches	carrots	rabbit	60111	disagree	1
Daniella	45	45000	bananas	carrots	shark	60155	agree	1

Output will be a dataframe that looks like:


**Example 5:** Arrange by honesty and within category of honesty, arrange by cat\_total.

```
example_5 <- illustration_Data %>%  
  arrange(honesty, cat_total)
```

Name	Age	total_Income	var_1	var_2	var_3	zipcode	honesty	cat_total
Val	18	18000	apple	carrots	elephant	60001	agree	0
Derek	25	25000	grapes	carrots	tiger	60073	disagree	1
Whitney	30	30000	bananas	carrots	lion	60109	disagree	2
Sasha	40	40000	peaches	carrots	rabbit	60111	disagree	1
Daniella	45	45000	bananas	carrots	shark	60155	agree	1

Output will be a dataframe that looks like:

Name	Age	total_Income	var_1	var_2	var_3	zipcode	honesty	cat_total
Val	18	18000	apple	carrots	elephant	60001	agree	0
Daniella	45	45000	bananas	carrots	shark	60155	agree	1
Derek	25	25000	grapes	carrots	tiger	60073	disagree	1
Sasha	40	40000	peaches	carrots	rabbit	60111	disagree	1
Whitney	30	30000	bananas	carrots	lion	60109	disagree	2