

Reading in Datasets

Max Kurzweil

1/24/2025

Reading in Textbook Data

```
library(mosaic)
```

```
data("StudentSurvey")
```

```
head(StudentSurvey)
```

##	Year	Sex	Smoke	Award	HigherSAT	Exercise	TV	Height	Weight	Siblings
## 1	Senior	M	No	Olympic	Math	10	17	118	0	4
## 2	Sophomore	F	Yes	Academy	Math	4	7	66	120	2
## 3	FirstYear	M	No	Nobel	Math	14	5	72	208	2
## 4	Junior	M	No	Nobel	Math	3	6	31	110	1
## 5	Sophomore	F	No	Nobel	Verbal	3	3	65	150	1
## 6	Sophomore	F	No	Nobel	Verbal	5	4	65	114	2

##	BirthOrder	VerbalSAT	MathSAT	SAT	GPA	Pulse	Piercings
## 1	4	540	670	1210	3.13	54	0
## 2	2	520	630	1150	2.50	66	3
## 3	1	550	560	1110	2.55	130	0
## 4	1	490	630	1120	3.10	78	0
## 5	1	720	450	1170	2.70	40	6
## 6	2	600	550	1150	3.20	80	4

This dataset contains high school students answering questions about their high school experience and personal achievements.

Reading in a CSV File Dataset

```
library(readr)
```

```
Quarterbacks <- read_csv("Quarterbacks.csv")
```

```
## Rows: 251 Columns: 20
```

```
## — Column specification
```

```
## Delimiter: ","
```

```
## chr (2): Player, HOF
```

```
## dbl (18): HOFScore, ChampionshipWins, AllProSelections, ProBowlSelections,  
YearsStarter, FirstYearStarter, LastYearStarter, WeightedCareerAve, GamesPlayed,  
GamesStarted, PassesCompleted, PassesAttempted, YardsGained, PassingTouchdowns,  
LongestPass, Interceptions, Sacked, YardsLostSacks
```

```
##
```

```
## i Use `spec()` to retrieve the full column specification for this data.  
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
head(Quarterbacks)
```

```
## # A tibble: 6 × 20
```

```
##   Player      HOFScore ChampionshipWins AllProSelections ProBowlSelections  
##   <chr>      <dbl>           <dbl>           <dbl>           <dbl>  
## 1 Tom Brady    259.             7               3               15  
## 2 Peyton Manning 258.             2               7               14  
## 3 Brett Favre   180.             1               3               11  
## 4 Aaron Rodgers 175.             1               4               10  
## 5 Johnny Unitas 160.             3               5               10  
## 6 Joe Montana  154.             4               3                8
```

```
## # i 15 more variables: YearsStarter <dbl>, FirstYearStarter <dbl>,  
## # LastYearStarter <dbl>, WeightedCareerAve <dbl>, GamesPlayed <dbl>,  
## # GamesStarted <dbl>, PassesCompleted <dbl>, PassesAttempted <dbl>,  
## # YardsGained <dbl>, PassingTouchdowns <dbl>, LongestPass <dbl>,  
## # Interceptions <dbl>, Sacked <dbl>, YardsLostSacks <dbl>, HOF <chr>
```

This dataset contains information on NFL quarterbacks and their playing careers, including Hall of Fame scores, championships, awards, and career statistics.