

avengersLPS

#Introduction

#Loading the CSV File

Download the CSV from FiveThirtyEight Github and save as “avengers.csv”

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.2.1 --
```

```
## v ggplot2 3.0.0      v purrr   0.2.5
## v tibble  1.4.2      v dplyr   0.7.6
## v tidyr   0.8.1      v stringr 1.3.1
## v readr   1.1.1      v forcats 0.3.0
```

```
## -- Conflicts ----- tidyverse_conflicts() --
```

```
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
file = "avengers2.csv"
```

```
if(!file.exists(file)){
```

```
  download.file("https://raw.githubusercontent.com/fivethirtyeight/data/master/avengers/avengers.csv",
    destfile=file)
```

```
}
```

Loading “avengers.csv” in variable “avengers_df”

```
library(readr);
```

```
avengers_df <- read.csv("avengers.csv", quote="\");
```

```
avengers_df;
```

```
##                                     URL
## 1          http://marvel.wikia.com/Henry_Pym_(Earth-616)
## 2          http://marvel.wikia.com/Janet_van_Dyne_(Earth-616)
## 3          http://marvel.wikia.com/Anthony_Stark_(Earth-616)
## 4    http://marvel.wikia.com/Robert_Bruce_Banner_(Earth-616)
## 5          http://marvel.wikia.com/Thor_Odinson_(Earth-616)
## 6          http://marvel.wikia.com/Richard_Jones_(Earth-616)
## 7          http://marvel.wikia.com/Steven_Rogers_(Earth-616)
## 8          http://marvel.wikia.com/Clint_Barton_(Earth-616)
## 9          http://marvel.wikia.com/Pietro_Maximoff_(Earth-616)
## 10         http://marvel.wikia.com/Wanda_Maximoff_(Earth-616)
## 11         http://marvel.wikia.com/Jacques_Duquesne_(Earth-616)
## 12         http://marvel.wikia.com/Hercules_(Earth-616)
## 13         http://marvel.wikia.com/T%27Challa_(Earth-616)
## 14         http://marvel.wikia.com/Vision_(Earth-616)
## 15         http://marvel.wikia.com/Dane_Whitman
## 16    http://marvel.wikia.com/Natalia_Romanova_(Earth-616)#
## 17         http://marvel.wikia.com/Mantis_(Earth-616)#
## 18         http://marvel.wikia.com/Henry_McCoy_(Earth-616)#
## 19         http://marvel.wikia.com/Heather_Douglas_(Earth-616)#
## 20         http://marvel.wikia.com/Patricia_Walker_(Earth-616)#
## 21         http://marvel.wikia.com/Matthew_Hawk_(Earth-616)#
## 22         http://marvel.wikia.com/Robert_Frank_(Earth-616)#
## 23         http://marvel.wikia.com/Simon_Williams_(Earth-616)#
```

24 [http://marvel.wikia.com/Yondu_Udonta_\(Earth-691\)#](http://marvel.wikia.com/Yondu_Udonta_(Earth-691)#)
 ## 25 [http://marvel.wikia.com/Martinex_T%27Naga_\(Earth-691\)#](http://marvel.wikia.com/Martinex_T%27Naga_(Earth-691)#)
 ## 26 [http://marvel.wikia.com/Charlie-27_\(Earth-691\)#](http://marvel.wikia.com/Charlie-27_(Earth-691)#)
 ## 27 [http://marvel.wikia.com/Nicholette_Gold_\(Earth-691\)#](http://marvel.wikia.com/Nicholette_Gold_(Earth-691)#)
 ## 28 [http://marvel.wikia.com/Stakar_Ogord_\(Earth-691\)#](http://marvel.wikia.com/Stakar_Ogord_(Earth-691)#)
 ## 29 [http://marvel.wikia.com/Vance_Astro_\(Earth-691\)#](http://marvel.wikia.com/Vance_Astro_(Earth-691)#)
 ## 30 [http://marvel.wikia.com/Mar-Vell_\(Earth-616\)#](http://marvel.wikia.com/Mar-Vell_(Earth-616)#)
 ## 31 [http://marvel.wikia.com/Carol_Danvers_\(Earth-616\)#](http://marvel.wikia.com/Carol_Danvers_(Earth-616)#)
 ## 32 [http://marvel.wikia.com/Samuel_Wilson_\(Earth-616\)#](http://marvel.wikia.com/Samuel_Wilson_(Earth-616)#)
 ## 33 [http://marvel.wikia.com/Jocasta_\(Earth-616\)#](http://marvel.wikia.com/Jocasta_(Earth-616)#)
 ## 34 [http://marvel.wikia.com/Greer_Nelson_\(Earth-616\)#](http://marvel.wikia.com/Greer_Nelson_(Earth-616)#)
 ## 35 [http://marvel.wikia.com/Jennifer_Walters_\(Earth-616\)#](http://marvel.wikia.com/Jennifer_Walters_(Earth-616)#)
 ## 36 [http://marvel.wikia.com/Monica_Rambeau_\(Earth-616\)#](http://marvel.wikia.com/Monica_Rambeau_(Earth-616)#)
 ## 37 [http://marvel.wikia.com/Eros_\(Earth-616\)#](http://marvel.wikia.com/Eros_(Earth-616)#)
 ## 38 [http://marvel.wikia.com/James_Rhodes_\(Earth-616\)#](http://marvel.wikia.com/James_Rhodes_(Earth-616)#)
 ## 39 [http://marvel.wikia.com/Barbara_Morse_\(Earth-616\)#](http://marvel.wikia.com/Barbara_Morse_(Earth-616)#)
 ## 40 [http://marvel.wikia.com/Moira_Brandon_\(Earth-616\)#](http://marvel.wikia.com/Moira_Brandon_(Earth-616)#)
 ## 41 [http://marvel.wikia.com/Benjamin_Grimm_\(Earth-616\)#](http://marvel.wikia.com/Benjamin_Grimm_(Earth-616)#)
 ## 42 [http://marvel.wikia.com/Bonita_Juarez_\(Earth-616\)#](http://marvel.wikia.com/Bonita_Juarez_(Earth-616)#)
 ## 43 [http://marvel.wikia.com/Marc_Spector_\(Earth-616\)#](http://marvel.wikia.com/Marc_Spector_(Earth-616)#)
 ## 44 [http://marvel.wikia.com/John_Walker_\(Earth-616\)#](http://marvel.wikia.com/John_Walker_(Earth-616)#)
 ## 45 [http://marvel.wikia.com/Human_Torch_\(Android\)_\(Earth-616\)#](http://marvel.wikia.com/Human_Torch_(Android)_(Earth-616)#)
 ## 46 [http://marvel.wikia.com/Miguel_Santos_\(Earth-616\)#](http://marvel.wikia.com/Miguel_Santos_(Earth-616)#)
 ## 47 [http://marvel.wikia.com/Julia_Carpenter_\(Earth-616\)#](http://marvel.wikia.com/Julia_Carpenter_(Earth-616)#)
 ## 48 [http://marvel.wikia.com/22P45-9-X-51_\(Earth-616\)#](http://marvel.wikia.com/22P45-9-X-51_(Earth-616)#)
 ## 49 [http://marvel.wikia.com/Chris_Powell_\(Earth-616\)#](http://marvel.wikia.com/Chris_Powell_(Earth-616)#)
 ## 50 [http://marvel.wikia.com/Namor_McKenzie_\(Earth-616\)#](http://marvel.wikia.com/Namor_McKenzie_(Earth-616)#)
 ## 51 [http://marvel.wikia.com/Scott_Lang_\(Earth-616\)#](http://marvel.wikia.com/Scott_Lang_(Earth-616)#)
 ## 52 [http://marvel.wikia.com/Anthony_Druid_\(Earth-616\)#](http://marvel.wikia.com/Anthony_Druid_(Earth-616)#)
 ## 53 [http://marvel.wikia.com/Marrina_Smallwood_\(Earth-616\)#](http://marvel.wikia.com/Marrina_Smallwood_(Earth-616)#)
 ## 54 [http://marvel.wikia.com/Ravonna_Renslayer_\(Earth-6311\)#](http://marvel.wikia.com/Ravonna_Renslayer_(Earth-6311)#)
 ## 55 [http://marvel.wikia.com/Rita_DeMara_\(Earth-616\)#](http://marvel.wikia.com/Rita_DeMara_(Earth-616)#)
 ## 56 [http://marvel.wikia.com/Dennis_Dunphy_\(Earth-616\)#](http://marvel.wikia.com/Dennis_Dunphy_(Earth-616)#)
 ## 57 [http://marvel.wikia.com/Gilgamesh_\(Earth-616\)#](http://marvel.wikia.com/Gilgamesh_(Earth-616)#)
 ## 58 [http://marvel.wikia.com/Reed_Richards_\(Earth-616\)#](http://marvel.wikia.com/Reed_Richards_(Earth-616)#)
 ## 59 [http://marvel.wikia.com/Susan_Storm_\(Earth-616\)#](http://marvel.wikia.com/Susan_Storm_(Earth-616)#)
 ## 60 [http://marvel.wikia.com/Wendell_Vaughn_\(Earth-616\)#](http://marvel.wikia.com/Wendell_Vaughn_(Earth-616)#)
 ## 61 [http://marvel.wikia.com/Ashley_Crawford_\(Earth-616\)#](http://marvel.wikia.com/Ashley_Crawford_(Earth-616)#)
 ## 62 [http://marvel.wikia.com/Dinah_Soar_\(Earth-616\)#](http://marvel.wikia.com/Dinah_Soar_(Earth-616)#)
 ## 63 [http://marvel.wikia.com/DeMarr_Davis_\(Earth-616\)#](http://marvel.wikia.com/DeMarr_Davis_(Earth-616)#)
 ## 64 [http://marvel.wikia.com/Val_Ventura_\(Earth-616\)#](http://marvel.wikia.com/Val_Ventura_(Earth-616)#)
 ## 65 [http://marvel.wikia.com/Craig_Hollis_\(Earth-616\)#](http://marvel.wikia.com/Craig_Hollis_(Earth-616)#)
 ## 66 [http://marvel.wikia.com/Gene_Lorraine_\(Earth-616\)#](http://marvel.wikia.com/Gene_Lorraine_(Earth-616)#)
 ## 67 [http://marvel.wikia.com/Doreen_Green_\(Earth-616\)#](http://marvel.wikia.com/Doreen_Green_(Earth-616)#)
 ## 68 [http://marvel.wikia.com/Monkey_Joe_\(Earth-616\)#](http://marvel.wikia.com/Monkey_Joe_(Earth-616)#)
 ## 69 [http://marvel.wikia.com/Doug_Taggart_\(Earth-616\)#](http://marvel.wikia.com/Doug_Taggart_(Earth-616)#)
 ## 70 [http://marvel.wikia.com/Tippy-Toe_\(Earth-616\)#](http://marvel.wikia.com/Tippy-Toe_(Earth-616)#)
 ## 71 [http://marvel.wikia.com/Wade_Wilson_\(Earth-616\)#](http://marvel.wikia.com/Wade_Wilson_(Earth-616)#)
 ## 72 [http://marvel.wikia.com/Greg_Willis_\(Earth-616\)#](http://marvel.wikia.com/Greg_Willis_(Earth-616)#)
 ## 73 [http://marvel.wikia.com/Sersi_\(Earth-616\)#](http://marvel.wikia.com/Sersi_(Earth-616)#)
 ## 74 [http://marvel.wikia.com/Peter_Parker_\(Earth-616\)#](http://marvel.wikia.com/Peter_Parker_(Earth-616)#)
 ## 75 [http://marvel.wikia.com/Walter_Newell_\(Earth-616\)#](http://marvel.wikia.com/Walter_Newell_(Earth-616)#)
 ## 76 [http://marvel.wikia.com/Elvin_Haliday_\(Earth-616\)#](http://marvel.wikia.com/Elvin_Haliday_(Earth-616)#)
 ## 77 [http://marvel.wikia.com/William_Baker_\(Earth-616\)#](http://marvel.wikia.com/William_Baker_(Earth-616)#)

```

## 78      http://marvel.wikia.com/Crystalia_Amaquelin_(Earth-616)#
## 79      http://marvel.wikia.com/Eric_Masterson_(Earth-616)#
## 80      http://marvel.wikia.com/Philip_Javert_(Earth-921)#
## 81      http://marvel.wikia.com/Melissa_Darrow_(Earth-9201)#
## 82      http://marvel.wikia.com/Deathcry_(Earth-616)#
## 83      http://marvel.wikia.com/Anthony_Stark_(Earth-96020)#
## 84      http://marvel.wikia.com/Giuletta_Nefaria_(Masque)_(Earth-616)#
## 85      http://marvel.wikia.com/Vance_Astrovik_(Earth-616)#
## 86      http://marvel.wikia.com/Angelica_Jones_(Earth-616)#
## 87      http://marvel.wikia.com/Delroy_Garrett_Jr._(Earth-616)#
## 88      http://marvel.wikia.com/Maria_de_Guadalupe_Santiago_(Earth-616)#
## 89      http://marvel.wikia.com/Jonathan_Hart_(Earth-616)#
## 90      http://marvel.wikia.com/Kelsey_Leigh_(Earth-616)#
## 91      http://marvel.wikia.com/Luke_Cage_(Earth-616)#
## 92      http://marvel.wikia.com/Veranke_(Earth-616)#
## 93      http://marvel.wikia.com/James_Howlett_(Earth-616)#
## 94      http://marvel.wikia.com/Robert_Reynolds_(Earth-616)#
## 95      http://marvel.wikia.com/Maya_Lopez_(Earth-616)#
## 96      http://marvel.wikia.com/Nathaniel_Richards_(Iron_Lad)_(Earth-6311)#
## 97      http://marvel.wikia.com/Elijah_Bradley_(Earth-616)#
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## 100     http://marvel.wikia.com/Cassandra_Lang_(Earth-616)#
## 101     http://marvel.wikia.com/Katherine_Bishop_(Earth-616)#
## 102     http://marvel.wikia.com/Vision_(Jonas)_(Earth-616)#
## 103     http://marvel.wikia.com/Thomas_Shepherd_(Earth-616)#
## 104     http://marvel.wikia.com/Daniel_Rand_(Earth-616)#
## 105     http://marvel.wikia.com/Stephen_Strange_(Earth-616)#
## 106     http://marvel.wikia.com/Ares_(Earth-616)#
## 107     http://marvel.wikia.com/James_Buchanan_Barnes_(Earth-616)#
## 108     http://marvel.wikia.com/Jessica_Drew_(Earth-616)#
## 109     http://marvel.wikia.com/Jessica_Jones_(Earth-616)#
## 110     http://marvel.wikia.com/Amadeus_Cho_(Earth-616)#
## 111     http://marvel.wikia.com/Maria_Hill_(Earth-616)#
## 112     http://marvel.wikia.com/Robert_Baldwin_(Earth-616)#
## 113     http://marvel.wikia.com/Sharon_Carter_(Earth-616)#
## 114     http://marvel.wikia.com/Eric_0%27Grady_(Earth-616)#
## 115     http://marvel.wikia.com/Brunnhilde_(Earth-616)#
## 116     http://marvel.wikia.com/Richard_Rider_(Earth-616)#
## 117     http://marvel.wikia.com/Brian_Braddock_(Earth-616)#
## 118     http://marvel.wikia.com/Dennis_Sykes_(Earth-616)#
## 119     http://marvel.wikia.com/Noh-Varr_(Earth-616)#
## 120     http://marvel.wikia.com/Thaddeus_Ross_(Earth-616)#
## 121     http://marvel.wikia.com/John_Aman_(Earth-616)#
## 122     http://marvel.wikia.com/Shang-Chi_(Earth-616)#
## 123     http://marvel.wikia.com/James_Santini_(Earth-616)#
## 124     http://marvel.wikia.com/Emery_Schaub_(Earth-616)#
## 125     http://marvel.wikia.com/Jeanne_Foucault_(Earth-616)#
## 126     http://marvel.wikia.com/Fiona_(Inhuman)_(Earth-616)#
## 127     http://marvel.wikia.com/Jennifer_Takeda_(Earth-616)#
## 128     http://marvel.wikia.com/Hollow_(Earth-616)#
## 129     http://marvel.wikia.com/Julie_Power_(Earth-616)#
## 130     http://marvel.wikia.com/Alani_Ryan_(Earth-616)#
## 131     http://marvel.wikia.com/Ken_Mack_(Earth-616)#

```

```

## 132      http://marvel.wikia.com/Humberto_Lopez_(Earth-616)#
## 133      http://marvel.wikia.com/Johnathon_Gallo_(Earth-616)#
## 134      http://marvel.wikia.com/Lyra_(Earth-8009)#
## 135      http://marvel.wikia.com/Anya_Corazon_(Earth-616)#
## 136      http://marvel.wikia.com/Brandon_Sharpe_(Earth-616)#
## 137      http://marvel.wikia.com/Kevin_Masterson_(Earth-616)#
## 138      http://marvel.wikia.com/Michiko_Musashi_(Earth-616)#
## 139      http://marvel.wikia.com/Takashi_Matsuya_(Earth-616)#
## 140      http://marvel.wikia.com/Daisy_Johnson_(Earth-616)#
## 141      http://marvel.wikia.com/Ororo_Munroe_(Earth-616)#
## 142      http://marvel.wikia.com/Matthew_Murdock_(Earth-616)#
## 143      http://marvel.wikia.com/Eugene_Thompson_(Earth-616)#
## 144      http://marvel.wikia.com/Otto_Octavius_(Earth-616)#
## 145      http://marvel.wikia.com/Alexander_Summers_(Earth-616)#
## 146      http://marvel.wikia.com/Samuel_Guthrie_(Earth-616)#
## 147      http://marvel.wikia.com/Roberto_da_Costa_(Earth-616)#
## 148      http://marvel.wikia.com/Eden_Fesi_(Earth-616)#
## 149      http://marvel.wikia.com/Captain_Universe_(Earth-616)#
## 150      http://marvel.wikia.com/Isabel_Kane_(Earth-616)#
## 151      http://marvel.wikia.com/Marcus_Milton_(Earth-13034)#
## 152      http://marvel.wikia.com/Rogue_(Anna_Marie)_(Earth-616)#
## 153      http://marvel.wikia.com/Shiro_Yoshida_(Earth-616)#
## 154      http://marvel.wikia.com/Ex_Nihilo_(Earth-616)#
## 155      http://marvel.wikia.com/Abyss_(Ex_Nihilo%27s)_(Earth-616)#
## 156      http://marvel.wikia.com/Nightmask_(Earth-616)#
## 157      http://marvel.wikia.com/Kevin_Connor_(Earth-616)#
## 158      http://marvel.wikia.com/Sam_Alexander_(Earth-616)#
## 159      http://marvel.wikia.com/America_Chavez_(Earth-616)#
## 160      http://marvel.wikia.com/Loki_Laufeyson_(Ikol)_(Earth-616)#
## 161      http://marvel.wikia.com/David_Alleyne_(Earth-616)#
## 162      http://marvel.wikia.com/Nicholas_Fury,_Jr._(Earth-616)#
## 163      http://marvel.wikia.com/Phillip_Coulson_(Earth-616)#
## 164      http://marvel.wikia.com/Tony_Masters_(Earth-616)#
## 165      http://marvel.wikia.com/Victor_Mancha_(Earth-616)#
## 166      http://marvel.wikia.com/Monica_Chang_(Earth-616)#
## 167      http://marvel.wikia.com/Doombot_(Avenger)_(Earth-616)#
## 168      http://marvel.wikia.com/Alexis_(Earth-616)#
## 169      http://marvel.wikia.com/Eric_Brooks_(Earth-616)#
## 170      http://marvel.wikia.com/Adam_Brashear_(Earth-616)#
## 171      http://marvel.wikia.com/Victor_Alvarez_(Earth-616)#
## 172      http://marvel.wikia.com/Ava_Ayala_(Earth-616)#
## 173      http://marvel.wikia.com/Kaluu_(Earth-616)#
##          Name.Alias Appearances Current. Gender
## 1      Henry Jonathan "Hank" Pym      1269      YES      MALE
## 2          Janet van Dyne      1165      YES      FEMALE
## 3      Anthony Edward "Tony" Stark      3068      YES      MALE
## 4          Robert Bruce Banner      2089      YES      MALE
## 5          Thor Odinson      2402      YES      MALE
## 6      Richard Milhouse Jones      612      YES      MALE
## 7          Steven Rogers      3458      YES      MALE
## 8      Clinton Francis Barton      1456      YES      MALE
## 9          Pietro Maximoff      769      YES      MALE
## 10      Wanda Maximoff      1214      YES      FEMALE
## 11      Jacques Duquesne      115      NO      MALE

```

## 12	Heracles	741	YES	MALE
## 13	T'Challa	780	NO	MALE
## 14	Victor Shade (alias)	1036	YES	MALE
## 15	Dane Whitman	482	NO	MALE
## 16	Natalia Alianovna Romanova	1112	YES	FEMALE
## 17	Brandt	160	NO	FEMALE
## 18	Henry P. McCoy	1886	NO	MALE
## 19	Heather Douglas	332	NO	FEMALE
## 20	Patsy Walker	557	NO	FEMALE
## 21	Matthew Liebowitz (birth name)	197	NO	MALE
## 22	Robert L. Frank Sr.	106	NO	MALE
## 23	Simon Williams	692	YES	MALE
## 24	Yondu Udonta	109	NO	MALE
## 25	Martinez T'Naga	100	NO	MALE
## 26	Charlie-27	132	NO	MALE
## 27	Nichollette Gold	108	NO	FEMALE
## 28	Stakar	100	NO	MALE
## 29	Vance Astrovik	156	NO	MALE
## 30	Mar-Vell	254	NO	MALE
## 31	Carol Susan Jane Danvers	935	YES	FEMALE
## 32	Samuel Thomas Wilson	576	YES	MALE
## 33	Jocasta	141	YES	FEMALE
## 34	Greer Grant Nelson	355	YES	FEMALE
## 35	Jennifer Walters	933	YES	FEMALE
## 36	Monica Rambeau	348	YES	FEMALE
## 37	Eros	206	NO	MALE
## 38	James R. Rhodes	533	NO	MALE
## 39	Barbara Barton (nee Morse)	374	NO	FEMALE
## 40	Moiria Brandon	2	NO	FEMALE
## 41	Benjamin Jacob Grimm	2305	NO	MALE
## 42	Bonita Juarez	83	NO	FEMALE
## 43	Marc Spector	402	NO	MALE
## 44	John F. Walker	352	NO	MALE
## 45	Jim Hammond (alias)	565	NO	MALE
## 46	Miguel Santos	112	NO	MALE
## 47	Julia Carpenter	218	NO	FEMALE
## 48	X-51	149	NO	MALE
## 49	Christopher Powell	168	NO	MALE
## 50	Namor McKenzie	1561	NO	MALE
## 51	Scott Edward Harris Lang	217	NO	MALE
## 52	Anthony Ludgate Druid	158	NO	MALE
## 53	Marrina Smallwood	86	NO	FEMALE
## 54	Ravonna Lexus Renslayer	41	NO	FEMALE
## 55	Rita DeMara	68	NO	FEMALE
## 56	Dennis Dunphy	70	NO	MALE
## 57		61	NO	MALE
## 58	Reed Richards	2125	YES	MALE
## 59	Susan Richards (nee Storm)	1761	NO	MALE
## 60	Wendell Elvis Vaughn	293	NO	MALE
## 61	Ashley Crawford	36	YES	FEMALE
## 62		22	NO	FEMALE
## 63	DeMarr Davis	31	YES	MALE
## 64	Val Ventura	34	YES	MALE
## 65	Craig Hollis	33	YES	MALE

## 66	Gene Lorrene	4	NO	MALE
## 67	Dorreen Green	47	NO	FEMALE
## 68		7	NO	MALE
## 69	Doug Taggert	3	NO	MALE
## 70		16	NO	FEMALE
## 71	Wade Wilson	575	NO	MALE
## 72	Greg Willis	58	NO	MALE
## 73	Circe	237	NO	FEMALE
## 74	Peter Benjamin Parker	4333	YES	MALE
## 75	Walter Newell	126	NO	MALE
## 76	Elvin Haliday	158	NO	MALE
## 77	William Baker	355	NO	MALE
## 78	Crystal Amaquelin Maximoff	517	NO	FEMALE
## 79	Eric Kevin Masterson	202	NO	MALE
## 80	Phillip Javert	31	NO	MALE
## 81		28	NO	FEMALE
## 82		50	NO	FEMALE
## 83	Anthony Edward Stark	27	NO	MALE
## 84	"Giulietta Nefaria"	18	NO	FEMALE
## 85	Vance Astrovik	302	NO	MALE
## 86	Angelica Jones	330	NO	FEMALE
## 87	Delroy Garrett Jr.	101	NO	MALE
## 88	Maria de Guadalupe Santiago	43	NO	FEMALE
## 89	Jonathan Hart	126	NO	MALE
## 90	Kelsey Leigh Shorr	24	NO	FEMALE
## 91	Carl Lucas	886	YES	MALE
## 92	Veranke	159	NO	FEMALE
## 93	James "Logan" Howlett	3130	YES	MALE
## 94	Robert Reynolds	241	NO	MALE
## 95	Maya Lopez	67	NO	FEMALE
## 96	Nathaniel Richards	23	NO	MALE
## 97	Elijah Bradley	103	NO	MALE
## 98	William "Billy" Kaplan	123	YES	MALE
## 99	Dorrek VIII/Theodore "Teddy" Altman	110	YES	MALE
## 100	Cassie Lang	160	NO	FEMALE
## 101	Katherine "Kate" Bishop	132	YES	FEMALE
## 102	Alias: Jonas	121	NO	MALE
## 103	Thomas "Tommy" Shepherd	59	YES	MALE
## 104	Daniel Thomas Rand K'ai	629	NO	MALE
## 105	Doctor Stephen Vincent Strange	1324	NO	MALE
## 106	Ares	236	NO	MALE
## 107	James Buchanan Barnes	663	NO	MALE
## 108	Jessica Miriam Drew	525	YES	FEMALE
## 109	Jessica Jones	205	YES	FEMALE
## 110	Amadeus Cho	108	NO	MALE
## 111	Maria Hill	359	YES	FEMALE
## 112	Robbie Baldwin	299	NO	MALE
## 113	Sharon Carter	333	NO	FEMALE
## 114	Eric O'Grady	88	NO	MALE
## 115	Brunnhilde	369	NO	FEMALE
## 116	Richard Rider	380	NO	MALE
## 117	Brian Braddock	545	NO	MALE
## 118	Dennis Sykes	6	NO	MALE
## 119	Noh-Varr	126	YES	MALE

## 120	Thaddeus Ross	417	NO	MALE
## 121	John Aman	31	YES	MALE
## 122	Shang-Chi	310	YES	MALE
## 123	James Santini	40	YES	MALE
## 124	Emery Schaub	26	YES	MALE
## 125	Jeanne Foucault	63	YES	FEMALE
## 126	Fiona	2	YES	FEMALE
## 127	Jennifer Takeda	73	YES	FEMALE
## 128	Yvette	22	YES	FEMALE
## 129	Julie Power	153	YES	FEMALE
## 130	Alani Ryan	73	YES	FEMALE
## 131	Ken Mack	59	NO	MALE
## 132	Humberto Lopez	66	YES	MALE
## 133	Johnny Gallo	43	YES	MALE
## 134	Lyra	55	YES	FEMALE
## 135	Any Corazon	108	YES	FEMALE
## 136	Brandon Sharpe	64	YES	MALE
## 137	Kevin Masterson	62	YES	MALE
## 138	Michiko Musashi	94	YES	FEMALE
## 139	Taki Matsuya	18	YES	MALE
## 140	Daisy Johnson	81	NO	FEMALE
## 141	Ororo Munroe	1598	NO	FEMALE
## 142	Matt Murdock	1375	NO	MALE
## 143	Flash Thompson	746	YES	MALE
## 144	Otto Octavius	561	NO	MALE
## 145	Alex Summers	592	YES	MALE
## 146	Samuel Guthrie	679	YES	MALE
## 147	Roberto da Costa	491	YES	MALE
## 148	Eden Fesi	65	YES	MALE
## 149		55	YES	MALE
## 150	Izzy Kane	44	YES	FEMALE
## 151	Marcus Milton	65	YES	MALE
## 152	Anna Marie	877	YES	FEMALE
## 153	Shiro Yoshida	176	YES	MALE
## 154		24	YES	MALE
## 155		25	YES	FEMALE
## 156	Adam	35	YES	MALE
## 157	Kevin Kale Connor	44	YES	MALE
## 158	Sam Alexander	78	YES	MALE
## 159	America Chavez	22	YES	FEMALE
## 160	Loki Laufeyson	77	NO	MALE
## 161	David Alleyne	115	YES	MALE
## 162	Nicholas Fury, Jr., Marcus Johnson	77	YES	MALE
## 163	Phillip Coulson	69	YES	MALE
## 164	Tony Masters	173	NO	MALE
## 165	Victor Mancha	75	YES	MALE
## 166	Monica Chang	12	YES	FEMALE
## 167		14	YES	MALE
## 168	Alexis	13	YES	FEMALE
## 169	Eric Brooks	198	YES	MALE
## 170	Adam Brashear	29	YES	MALE
## 171	Victor Alvarez	45	YES	MALE
## 172	Ava Ayala	49	YES	FEMALE
## 173	Kaluu	35	YES	MALE

##	Probationary.Introl	Full.Reserve.Avengers.Intro	Year
## 1		Sep-63	1963
## 2		Sep-63	1963
## 3		Sep-63	1963
## 4		Sep-63	1963
## 5		Sep-63	1963
## 6		Sep-63	1963
## 7		Mar-64	1964
## 8		May-65	1965
## 9		May-65	1965
## 10		May-65	1965
## 11		Sep-65	1965
## 12		Oct-67	1967
## 13		May-68	1968
## 14		Nov-68	1968
## 15		Dec-69	1969
## 16		May-73	1973
## 17		Aug-73	1973
## 18	Jul-75	Sep-76	1976
## 19	Jul-75	Sep-76	1976
## 20	Nov-75	Sep-76	1976
## 21		Aug-75	1975
## 22	Apr-77	Jul-78	1978
## 23	Apr-77	Mar-79	1979
## 24		Feb-78	1978
## 25		Feb-78	1978
## 26		Feb-78	1978
## 27		Feb-78	1978
## 28		Feb-78	1978
## 29		Feb-78	1978
## 30		Jul-78	1978
## 31		Apr-79	1979
## 32		Jun-79	1979
## 33	Jul-80	Nov-88	1988
## 34		Sep-81	1981
## 35		Jul-82	1982
## 36	Jan-83	May-83	1983
## 37	Jun-83	May-84	1984
## 38	May-84	Sep-84	1984
## 39	Jun-84	Sep-84	1984
## 40		Nov-93	1993
## 41		Jun-86	1986
## 42		Sep-87	1987
## 43	Sep-87	Jun-88	1988
## 44		May-89	1989
## 45		Nov-89	1989
## 46		Apr-91	1991
## 47		Sep-92	1992
## 48		Jun-92	1992
## 49		May-93	1993
## 50		Dec-85	1985
## 51	Jan-87	3-Feb	2003
## 52		Apr-87	1987
## 53		Dec-87	1987

## 54		May-88 1988
## 55		Nov-88 1988
## 56		Jan-88 1988
## 57		Feb-89 1989
## 58		Feb-89 1989
## 59		Feb-89 1989
## 60		Oct-89 1989
## 61		Jul-89 1989
## 62		Jul-89 1989
## 63		Jul-89 1989
## 64		Jul-89 1989
## 65		Jul-89 1989
## 66		5-Apr 2005
## 67		5-May 2005
## 68		5-May 2005
## 69		5-May 2005
## 70		5-Jul 2005
## 71		7-Sep 2007
## 72		9-Aug 2009
## 73		Feb-90 1990
## 74		Apr-90 1990
## 75		Jul-90 1990
## 76	Feb-91	1900
## 77	Feb-91	1900
## 78	Aug-91	Jan-92 1992
## 79		Jan-92 1992
## 80		Dec-92 1992
## 81		Jun-93 1993
## 82		Jul-93 1993
## 83		Feb-96 1996
## 84		Apr-96 1996
## 85		May-98 1998
## 86		May-98 1998
## 87		Apr-00 2000
## 88		Jul-00 2000
## 89		1-Aug 2001
## 90		4-Jun 2004
## 91		5-Mar 2005
## 92		5-Mar 2005
## 93		5-Jun 2005
## 94		5-Oct 2005
## 95		5-Nov 2005
## 96		5-Apr 2005
## 97		5-Apr 2005
## 98		5-Apr 2005
## 99		5-Apr 2005
## 100		5-Jun 2005
## 101		5-Jun 2005
## 102		6-Feb 2006
## 103		6-Jun 2006
## 104		7-Feb 2007
## 105		7-Feb 2007
## 106		7-Mar 2007
## 107		8-Dec 2008

## 108	8-Dec 2008
## 109	10-Aug 2010
## 110	9-Dec 2009
## 111	10-May 2010
## 112	10-Jun 2010
## 113	10-May 2010
## 114	10-May 2010
## 115	10-May 2010
## 116	10-May 2010
## 117	10-May 2010
## 118	10-Sep 2010
## 119	10-Jun 2010
## 120	11-Jun 2011
## 121	10-Dec 2010
## 122	11-Apr 2011
## 123	1900
## 124	1900
## 125	10-Aug 2010
## 126	1900
## 127	10-Aug 2010
## 128	1900
## 129	1900
## 130	1900
## 131	10-Aug 2010
## 132	10-Aug 2010
## 133	1900
## 134	1900
## 135	1900
## 136	10-Aug 2010
## 137	1900
## 138	1900
## 139	1900
## 140	12-Jan 2012
## 141	12-Jan 2012
## 142	11-Nov 2011
## 143	12-Apr 2012
## 144	13-Jan 2013
## 145	12-Dec 2012
## 146	13-Feb 2013
## 147	13-Feb 2013
## 148	13-Feb 2013
## 149	13-Feb 2013
## 150	13-Feb 2013
## 151	13-Feb 2013
## 152	13-Apr 2013
## 153	13-May 2013
## 154	13-Oct 2013
## 155	13-Oct 2013
## 156	13-Oct 2013
## 157	13-Oct 2013
## 158	15-Feb 2015
## 159	13-Jul 2013
## 160	13-Jul 2013
## 161	13-Sep 2013

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Since joining the New Avengers: First death Kill

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```

```
#Overall analysis of the data
```

```
avengers_df %>% str
```

```
## 'data.frame':   173 obs. of  21 variables:
## $ URL           : Factor w/ 173 levels "http://marvel.wikia.com/2ZP45-9-X-51_(Earth-61
```

```
## $ Name.Alias : Factor w/ 163 levels "", "\"Giulietta Nefaria\"",...: 62 72 13 128 147
## $ Appearances : int 1269 1165 3068 2089 2402 612 3458 1456 769 1214 ...
## $ Current. : Factor w/ 2 levels "NO","YES": 2 2 2 2 2 2 2 2 2 ...
## $ Gender : Factor w/ 2 levels "FEMALE","MALE": 2 1 2 2 2 2 2 2 1 ...
## $ Probationary.Introl : Factor w/ 13 levels "", "Apr-77", "Aug-91",...: 1 1 1 1 1 1 1 1 1 ...
## $ Full.Reserve.Avengers.Intro: Factor w/ 94 levels "", "1-Aug", "10-Aug",...: 88 88 88 88 88 88 71 73 ...
## $ Year : int 1963 1963 1963 1963 1963 1963 1964 1965 1965 1965 ...
## $ Years.since.joining : int 52 52 52 52 52 52 51 50 50 50 ...
## $ Honorary : Factor w/ 4 levels "Academy","Full",...: 2 2 2 2 2 3 2 2 2 ...
## $ Death1 : Factor w/ 2 levels "NO","YES": 2 2 2 2 2 1 2 2 2 ...
## $ Return1 : Factor w/ 3 levels "", "NO", "YES": 2 3 3 3 3 1 3 3 3 ...
## $ Death2 : Factor w/ 3 levels "", "NO", "YES": 1 1 1 1 3 1 1 3 1 ...
## $ Return2 : Factor w/ 3 levels "", "NO", "YES": 1 1 1 1 2 1 1 3 1 ...
## $ Death3 : Factor w/ 2 levels "", "YES": 1 1 1 1 1 1 1 1 1 ...
## $ Return3 : Factor w/ 3 levels "", "NO", "YES": 1 1 1 1 1 1 1 1 1 ...
## $ Death4 : Factor w/ 2 levels "", "YES": 1 1 1 1 1 1 1 1 1 ...
## $ Return4 : Factor w/ 2 levels "", "YES": 1 1 1 1 1 1 1 1 1 ...
## $ Death5 : Factor w/ 2 levels "", "YES": 1 1 1 1 1 1 1 1 1 ...
## $ Return5 : Factor w/ 2 levels "", "YES": 1 1 1 1 1 1 1 1 1 ...
## $ Notes : Factor w/ 71 levels "Reduced her to a pile of bones and organsby Va
```

```
avengers_df %>% summary()
```

```
## URL
## http://marvel.wikia.com/2ZP45-9-X-51_(Earth-616)# : 1
## http://marvel.wikia.com/Abyss_(Ex_Nihilo%27s)_(Earth-616)#: 1
## http://marvel.wikia.com/Adam_Brashear_(Earth-616)# : 1
## http://marvel.wikia.com/Alani_Ryan_(Earth-616)# : 1
## http://marvel.wikia.com/Alexander_Summers_(Earth-616)# : 1
## http://marvel.wikia.com/Alexis_(Earth-616)# : 1
## (Other) :167
## Name.Alias Appearances Current. Gender
## : 10 Min. : 2.0 NO :91 FEMALE: 58
## Vance Astrovik : 2 1st Qu.: 58.0 YES:82 MALE :115
## "Giulietta Nefaria": 1 Median : 132.0
## Adam : 1 Mean : 414.1
## Adam Brashear : 1 3rd Qu.: 491.0
## Alani Ryan : 1 Max. :4333.0
## (Other) :157
## Probationary.Introl Full.Reserve.Avengers.Intro Year
## :158 : 14 Min. :1900
## Apr-77 : 2 10-Aug : 6 1st Qu.:1979
## Feb-91 : 2 10-May : 6 Median :1996
## Jul-75 : 2 13-Feb : 6 Mean :1988
## Aug-91 : 1 Feb-78 : 6 3rd Qu.:2010
## Jan-83 : 1 Sep-63 : 6 Max. :2015
## (Other): 7 (Other):129
## Years.since.joining Honorary Death1 Return1 Death2
## Min. : 0.00 Academy : 17 NO :104 :104 :156
## 1st Qu.: 5.00 Full :138 YES: 69 NO : 23 NO : 1
## Median : 19.00 Honorary : 16 YES: 46 YES: 16
## Mean : 26.55 Probationary: 2
## 3rd Qu.: 36.00
## Max. :115.00
##
```

```
## Return2    Death3    Return3    Death4    Return4    Death5    Return5
##      :157      :171      :171      :172      :172      :172      :172
## NO : 8    YES: 2    NO : 1    YES: 1    YES: 1    YES: 1    YES: 1
## YES: 8                YES: 1
##
##
##
##
## Died in New_Avengers_Vol_3_32
## Died in Murderworld during Avengers Arena
## Reduced her to a pile of bones and organsby Vargas. Brought back by Chaos King. Died second time in
## Accidentally killed by Zaran
## Became possessed died to purge self of corruption. Revived as undead Avenger minion of the Grim Reap
## (Other)
## NA's
```

Some columns have inadequate typing.URL,Name.Alias and Notes should be string. Converting them:
 #Probationary.Introl and Full.Reserve are month-year dates

```
avengers_df$URL <- as.character(avengers_df$URL)
avengers_df$Name.Alias <- as.character(avengers_df$Name.Alias)
avengers_df$Notes <- as.character(avengers_df$Notes)
#avengers_df$Probationary.Introl <- as.Date(avengers_df$Probationary.Introl, format = "%b-%y")
avengers_df %>% str
```

```
## 'data.frame': 173 obs. of 21 variables:
## $ URL : chr "http://marvel.wikia.com/Henry_Pym_(Earth-616)" "http://marvel.
## $ Name.Alias : chr "Henry Jonathan \"Hank\" Pym" "Janet van Dyne" "Anthony Edward
## $ Appearances : int 1269 1165 3068 2089 2402 612 3458 1456 769 1214 ...
## $ Current. : Factor w/ 2 levels "NO","YES": 2 2 2 2 2 2 2 2 2 2 ...
## $ Gender : Factor w/ 2 levels "FEMALE","MALE": 2 1 2 2 2 2 2 2 2 1 ...
## $ Probationary.Introl : Factor w/ 13 levels "", "Apr-77", "Aug-91", ...: 1 1 1 1 1 1 1 1 1 1 ...
## $ Full.Reserve.Avengers.Intro: Factor w/ 94 levels "", "1-Aug", "10-Aug", ...: 88 88 88 88 88 88 71 73
## $ Year : int 1963 1963 1963 1963 1963 1963 1964 1965 1965 1965 ...
## $ Years.since.joining : int 52 52 52 52 52 52 51 50 50 50 ...
## $ Honorary : Factor w/ 4 levels "Academy","Full", ...: 2 2 2 2 2 3 2 2 2 2 ...
## $ Death1 : Factor w/ 2 levels "NO","YES": 2 2 2 2 2 1 2 2 2 2 ...
## $ Return1 : Factor w/ 3 levels "", "NO", "YES": 2 3 3 3 3 1 3 3 3 3 ...
## $ Death2 : Factor w/ 3 levels "", "NO", "YES": 1 1 1 1 3 1 1 3 1 1 ...
## $ Return2 : Factor w/ 3 levels "", "NO", "YES": 1 1 1 1 2 1 1 3 1 1 ...
## $ Death3 : Factor w/ 2 levels "", "YES": 1 1 1 1 1 1 1 1 1 1 ...
## $ Return3 : Factor w/ 3 levels "", "NO", "YES": 1 1 1 1 1 1 1 1 1 1 ...
## $ Death4 : Factor w/ 2 levels "", "YES": 1 1 1 1 1 1 1 1 1 1 ...
## $ Return4 : Factor w/ 2 levels "", "YES": 1 1 1 1 1 1 1 1 1 1 ...
## $ Death5 : Factor w/ 2 levels "", "YES": 1 1 1 1 1 1 1 1 1 1 ...
## $ Return5 : Factor w/ 2 levels "", "YES": 1 1 1 1 1 1 1 1 1 1 ...
## $ Notes : chr "Merged with Ultron in Rage of Ultron Vol. 1. A funeral was held"
```

#Converting to Tidy data

The dataframe contains five columns that register if the Avenger has died. Each column represents their first, second, third, fourth and fifth deaths. Similarly. there are also five columns that represent if the Avenger has revived. These 10 columns simply contain YES or NO values.

There is no information of when the Avenger has died. In fact, the dataframe is essentially a list of all Avengers that have existed. Therefore, converting each death into different rows does not make sense.

Instead, to make the number of deaths and revivals simpler, we will simply convert the number of YES values for each into an integer.

```
library(tidyverse)

avengers_tidydf <- avengers_df %>%
  mutate(Total.Deaths = avengers_df %>% select(Death1,Death2,Death3,Death4,Death5) %>% apply(1, function(x) sum(x), FUN = sum))
  mutate(Total.Return = avengers_df %>% select(Return1,Return2,Return3,Return4,Return5) %>% apply(1, function(x) sum(x), FUN = sum))
  subset(select=c(Death1,Death2,Death3,Death4,Death5,Return1,Return2,Return3,Return4,Return5))
avengers_tidydf

##                                URL
## 1      http://marvel.wikia.com/Henry_Pym_(Earth-616)
## 2      http://marvel.wikia.com/Janet_van_Dyne_(Earth-616)
## 3      http://marvel.wikia.com/Anthony_Stark_(Earth-616)
## 4      http://marvel.wikia.com/Robert_Bruce_Banner_(Earth-616)
## 5      http://marvel.wikia.com/Thor_Odinson_(Earth-616)
## 6      http://marvel.wikia.com/Richard_Jones_(Earth-616)
## 7      http://marvel.wikia.com/Steven_Rogers_(Earth-616)
## 8      http://marvel.wikia.com/Clint_Barton_(Earth-616)
## 9      http://marvel.wikia.com/Pietro_Maximoff_(Earth-616)
## 10     http://marvel.wikia.com/Wanda_Maximoff_(Earth-616)
## 11     http://marvel.wikia.com/Jacques_Duquesne_(Earth-616)
## 12     http://marvel.wikia.com/Hercules_(Earth-616)
## 13     http://marvel.wikia.com/T%27Challa_(Earth-616)
## 14     http://marvel.wikia.com/Vision_(Earth-616)
## 15     http://marvel.wikia.com/Dane_Whitman
## 16     http://marvel.wikia.com/Natalia_Romanova_(Earth-616)#
## 17     http://marvel.wikia.com/Mantis_(Earth-616)#
## 18     http://marvel.wikia.com/Henry_McCoy_(Earth-616)#
## 19     http://marvel.wikia.com/Heather_Douglas_(Earth-616)#
## 20     http://marvel.wikia.com/Patricia_Walker_(Earth-616)#
## 21     http://marvel.wikia.com/Matthew_Hawk_(Earth-616)#
## 22     http://marvel.wikia.com/Robert_Frank_(Earth-616)#
## 23     http://marvel.wikia.com/Simon_Williams_(Earth-616)#
## 24     http://marvel.wikia.com/Yondu_Udonta_(Earth-691)#
## 25     http://marvel.wikia.com/Martinex_T%27Naga_(Earth-691)#
## 26     http://marvel.wikia.com/Charlie-27_(Earth-691)#
## 27     http://marvel.wikia.com/Nicholette_Gold_(Earth-691)#
## 28     http://marvel.wikia.com/Stakar_Ogord_(Earth-691)#
## 29     http://marvel.wikia.com/Vance_Astro_(Earth-691)#
## 30     http://marvel.wikia.com/Mar-Vell_(Earth-616)#
## 31     http://marvel.wikia.com/Carol_Danvers_(Earth-616)#
## 32     http://marvel.wikia.com/Samuel_Wilson_(Earth-616)#
## 33     http://marvel.wikia.com/Jocasta_(Earth-616)#
## 34     http://marvel.wikia.com/Greer_Nelson_(Earth-616)#
## 35     http://marvel.wikia.com/Jennifer_Walters_(Earth-616)#
## 36     http://marvel.wikia.com/Monica_Rambeau_(Earth-616)#
## 37     http://marvel.wikia.com/Eros_(Earth-616)#
## 38     http://marvel.wikia.com/James_Rhodes_(Earth-616)#
## 39     http://marvel.wikia.com/Barbara_Morse_(Earth-616)#
## 40     http://marvel.wikia.com/Moira_Brandon_(Earth-616)#
## 41     http://marvel.wikia.com/Benjamin_Grimm_(Earth-616)#
## 42     http://marvel.wikia.com/Bonita_Juarez_(Earth-616)#
## 43     http://marvel.wikia.com/Marc_Spector_(Earth-616)#
```

```

## 44      http://marvel.wikia.com/John_Walker_(Earth-616)#
## 45      http://marvel.wikia.com/Human_Torch_(Android)_(Earth-616)#
## 46      http://marvel.wikia.com/Miguel_Santos_(Earth-616)#
## 47      http://marvel.wikia.com/Julia_Carpenter_(Earth-616)#
## 48      http://marvel.wikia.com/2ZP45-9-X-51_(Earth-616)#
## 49      http://marvel.wikia.com/Chris_Powell_(Earth-616)#
## 50      http://marvel.wikia.com/Namor_McKenzie_(Earth-616)#
## 51      http://marvel.wikia.com/Scott_Lang_(Earth-616)#
## 52      http://marvel.wikia.com/Anthony_Druid_(Earth-616)#
## 53      http://marvel.wikia.com/Marrina_Smallwood_(Earth-616)#
## 54      http://marvel.wikia.com/Ravonna_Renslayer_(Earth-6311)#
## 55      http://marvel.wikia.com/Rita_DeMara_(Earth-616)#
## 56      http://marvel.wikia.com/Dennis_Dunphy_(Earth-616)#
## 57      http://marvel.wikia.com/Gilgamesh_(Earth-616)#
## 58      http://marvel.wikia.com/Reed_Richards_(Earth-616)#
## 59      http://marvel.wikia.com/Susan_Storm_(Earth-616)#
## 60      http://marvel.wikia.com/Wendell_Vaughn_(Earth-616)#
## 61      http://marvel.wikia.com/Ashley_Crawford_(Earth-616)#
## 62      http://marvel.wikia.com/Dinah_Soar_(Earth-616)#
## 63      http://marvel.wikia.com/DeMarr_Davis_(Earth-616)#
## 64      http://marvel.wikia.com/Val_Ventura_(Earth-616)#
## 65      http://marvel.wikia.com/Craig_Hollis_(Earth-616)#
## 66      http://marvel.wikia.com/Gene_Lorrene_(Earth-616)#
## 67      http://marvel.wikia.com/Doreen_Green_(Earth-616)#
## 68      http://marvel.wikia.com/Monkey_Joe_(Earth-616)#
## 69      http://marvel.wikia.com/Doug_Taggart_(Earth-616)#
## 70      http://marvel.wikia.com/Tippy-Toe_(Earth-616)#
## 71      http://marvel.wikia.com/Wade_Wilson_(Earth-616)#
## 72      http://marvel.wikia.com/Greg_Willis_(Earth-616)#
## 73      http://marvel.wikia.com/Sersi_(Earth-616)#
## 74      http://marvel.wikia.com/Peter_Parker_(Earth-616)#
## 75      http://marvel.wikia.com/Walter_Newell_(Earth-616)#
## 76      http://marvel.wikia.com/Elvin_Haliday_(Earth-616)#
## 77      http://marvel.wikia.com/William_Baker_(Earth-616)#
## 78      http://marvel.wikia.com/Crystalia_Amaquelin_(Earth-616)#
## 79      http://marvel.wikia.com/Eric_Masterson_(Earth-616)#
## 80      http://marvel.wikia.com/Philip_Javert_(Earth-921)#
## 81      http://marvel.wikia.com/Melissa_Darrow_(Earth-9201)#
## 82      http://marvel.wikia.com/Deathcry_(Earth-616)#
## 83      http://marvel.wikia.com/Anthony_Stark_(Earth-96020)#
## 84      http://marvel.wikia.com/Giuletta_Nefaria_(Masque)_(Earth-616)#
## 85      http://marvel.wikia.com/Vance_Astrovik_(Earth-616)#
## 86      http://marvel.wikia.com/Angelica_Jones_(Earth-616)#
## 87      http://marvel.wikia.com/Delroy_Garrett_Jr._(Earth-616)#
## 88      http://marvel.wikia.com/Maria_de_Guadalupe_Santiago_(Earth-616)#
## 89      http://marvel.wikia.com/Jonathan_Hart_(Earth-616)#
## 90      http://marvel.wikia.com/Kelsey_Leigh_(Earth-616)#
## 91      http://marvel.wikia.com/Luke_Cage_(Earth-616)#
## 92      http://marvel.wikia.com/Veranke_(Earth-616)#
## 93      http://marvel.wikia.com/James_Howlett_(Earth-616)#
## 94      http://marvel.wikia.com/Robert_Reynolds_(Earth-616)#
## 95      http://marvel.wikia.com/Maya_Lopez_(Earth-616)#
## 96      http://marvel.wikia.com/Nathaniel_Richards_(Iron_Lad)_(Earth-6311)#
## 97      http://marvel.wikia.com/Elijah_Bradley_(Earth-616)#

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98 [http://marvel.wikia.com/William_Kaplan_\(Earth-616\)#](http://marvel.wikia.com/William_Kaplan_(Earth-616)#)
 ## 99 [http://marvel.wikia.com/Dorrek_VIII_\(Earth-616\)#](http://marvel.wikia.com/Dorrek_VIII_(Earth-616)#)
 ## 100 [http://marvel.wikia.com/Cassandra_Lang_\(Earth-616\)#](http://marvel.wikia.com/Cassandra_Lang_(Earth-616)#)
 ## 101 [http://marvel.wikia.com/Katherine_Bishop_\(Earth-616\)#](http://marvel.wikia.com/Katherine_Bishop_(Earth-616)#)
 ## 102 [http://marvel.wikia.com/Vision_\(Jonas\)_\(Earth-616\)#](http://marvel.wikia.com/Vision_(Jonas)_(Earth-616)#)
 ## 103 [http://marvel.wikia.com/Thomas_Shepherd_\(Earth-616\)#](http://marvel.wikia.com/Thomas_Shepherd_(Earth-616)#)
 ## 104 [http://marvel.wikia.com/Daniel_Rand_\(Earth-616\)#](http://marvel.wikia.com/Daniel_Rand_(Earth-616)#)
 ## 105 [http://marvel.wikia.com/Stephen_Strange_\(Earth-616\)#](http://marvel.wikia.com/Stephen_Strange_(Earth-616)#)
 ## 106 [http://marvel.wikia.com/Ares_\(Earth-616\)#](http://marvel.wikia.com/Ares_(Earth-616)#)
 ## 107 [http://marvel.wikia.com/James_Buchanan_Barnes_\(Earth-616\)#](http://marvel.wikia.com/James_Buchanan_Barnes_(Earth-616)#)
 ## 108 [http://marvel.wikia.com/Jessica_Drew_\(Earth-616\)#](http://marvel.wikia.com/Jessica_Drew_(Earth-616)#)
 ## 109 [http://marvel.wikia.com/Jessica_Jones_\(Earth-616\)#](http://marvel.wikia.com/Jessica_Jones_(Earth-616)#)
 ## 110 [http://marvel.wikia.com/Amadeus_Cho_\(Earth-616\)#](http://marvel.wikia.com/Amadeus_Cho_(Earth-616)#)
 ## 111 [http://marvel.wikia.com/Maria_Hill_\(Earth-616\)#](http://marvel.wikia.com/Maria_Hill_(Earth-616)#)
 ## 112 [http://marvel.wikia.com/Robert_Baldwin_\(Earth-616\)#](http://marvel.wikia.com/Robert_Baldwin_(Earth-616)#)
 ## 113 [http://marvel.wikia.com/Sharon_Carter_\(Earth-616\)#](http://marvel.wikia.com/Sharon_Carter_(Earth-616)#)
 ## 114 [http://marvel.wikia.com/Eric_O%27Grady_\(Earth-616\)#](http://marvel.wikia.com/Eric_O%27Grady_(Earth-616)#)
 ## 115 [http://marvel.wikia.com/Brunnhilde_\(Earth-616\)#](http://marvel.wikia.com/Brunnhilde_(Earth-616)#)
 ## 116 [http://marvel.wikia.com/Richard_Rider_\(Earth-616\)#](http://marvel.wikia.com/Richard_Rider_(Earth-616)#)
 ## 117 [http://marvel.wikia.com/Brian_Braddock_\(Earth-616\)#](http://marvel.wikia.com/Brian_Braddock_(Earth-616)#)
 ## 118 [http://marvel.wikia.com/Dennis_Sykes_\(Earth-616\)#](http://marvel.wikia.com/Dennis_Sykes_(Earth-616)#)
 ## 119 [http://marvel.wikia.com/Noh-Varr_\(Earth-616\)#](http://marvel.wikia.com/Noh-Varr_(Earth-616)#)
 ## 120 [http://marvel.wikia.com/Thaddeus_Ross_\(Earth-616\)#](http://marvel.wikia.com/Thaddeus_Ross_(Earth-616)#)
 ## 121 [http://marvel.wikia.com/John_Aman_\(Earth-616\)#](http://marvel.wikia.com/John_Aman_(Earth-616)#)
 ## 122 [http://marvel.wikia.com/Shang-Chi_\(Earth-616\)#](http://marvel.wikia.com/Shang-Chi_(Earth-616)#)
 ## 123 [http://marvel.wikia.com/James_Santini_\(Earth-616\)#](http://marvel.wikia.com/James_Santini_(Earth-616)#)
 ## 124 [http://marvel.wikia.com/Emery_Schaub_\(Earth-616\)#](http://marvel.wikia.com/Emery_Schaub_(Earth-616)#)
 ## 125 [http://marvel.wikia.com/Jeanne_Foucault_\(Earth-616\)#](http://marvel.wikia.com/Jeanne_Foucault_(Earth-616)#)
 ## 126 [http://marvel.wikia.com/Fiona_\(Inhuman\)_\(Earth-616\)#](http://marvel.wikia.com/Fiona_(Inhuman)_(Earth-616)#)
 ## 127 [http://marvel.wikia.com/Jennifer_Takeda_\(Earth-616\)#](http://marvel.wikia.com/Jennifer_Takeda_(Earth-616)#)
 ## 128 [http://marvel.wikia.com/Hollow_\(Earth-616\)#](http://marvel.wikia.com/Hollow_(Earth-616)#)
 ## 129 [http://marvel.wikia.com/Julie_Power_\(Earth-616\)#](http://marvel.wikia.com/Julie_Power_(Earth-616)#)
 ## 130 [http://marvel.wikia.com/Alani_Ryan_\(Earth-616\)#](http://marvel.wikia.com/Alani_Ryan_(Earth-616)#)
 ## 131 [http://marvel.wikia.com/Ken_Mack_\(Earth-616\)#](http://marvel.wikia.com/Ken_Mack_(Earth-616)#)
 ## 132 [http://marvel.wikia.com/Humberto_Lopez_\(Earth-616\)#](http://marvel.wikia.com/Humberto_Lopez_(Earth-616)#)
 ## 133 [http://marvel.wikia.com/Johnathon_Gallo_\(Earth-616\)#](http://marvel.wikia.com/Johnathon_Gallo_(Earth-616)#)
 ## 134 [http://marvel.wikia.com/Lyra_\(Earth-8009\)#](http://marvel.wikia.com/Lyra_(Earth-8009)#)
 ## 135 [http://marvel.wikia.com/Anya_Corazon_\(Earth-616\)#](http://marvel.wikia.com/Anya_Corazon_(Earth-616)#)
 ## 136 [http://marvel.wikia.com/Brandon_Sharpe_\(Earth-616\)#](http://marvel.wikia.com/Brandon_Sharpe_(Earth-616)#)
 ## 137 [http://marvel.wikia.com/Kevin_Masterson_\(Earth-616\)#](http://marvel.wikia.com/Kevin_Masterson_(Earth-616)#)
 ## 138 [http://marvel.wikia.com/Michiko_Musashi_\(Earth-616\)#](http://marvel.wikia.com/Michiko_Musashi_(Earth-616)#)
 ## 139 [http://marvel.wikia.com/Takashi_Matsuya_\(Earth-616\)#](http://marvel.wikia.com/Takashi_Matsuya_(Earth-616)#)
 ## 140 [http://marvel.wikia.com/Daisy_Johnson_\(Earth-616\)#](http://marvel.wikia.com/Daisy_Johnson_(Earth-616)#)
 ## 141 [http://marvel.wikia.com/Ororo_Munroe_\(Earth-616\)#](http://marvel.wikia.com/Ororo_Munroe_(Earth-616)#)
 ## 142 [http://marvel.wikia.com/Matthew_Murdock_\(Earth-616\)#](http://marvel.wikia.com/Matthew_Murdock_(Earth-616)#)
 ## 143 [http://marvel.wikia.com/Eugene_Thompson_\(Earth-616\)#](http://marvel.wikia.com/Eugene_Thompson_(Earth-616)#)
 ## 144 [http://marvel.wikia.com/Otto_Octavius_\(Earth-616\)#](http://marvel.wikia.com/Otto_Octavius_(Earth-616)#)
 ## 145 [http://marvel.wikia.com/Alexander_Summers_\(Earth-616\)#](http://marvel.wikia.com/Alexander_Summers_(Earth-616)#)
 ## 146 [http://marvel.wikia.com/Samuel_Guthrie_\(Earth-616\)#](http://marvel.wikia.com/Samuel_Guthrie_(Earth-616)#)
 ## 147 [http://marvel.wikia.com/Roberto_da_Costa_\(Earth-616\)#](http://marvel.wikia.com/Roberto_da_Costa_(Earth-616)#)
 ## 148 [http://marvel.wikia.com/Eden_Fesi_\(Earth-616\)#](http://marvel.wikia.com/Eden_Fesi_(Earth-616)#)
 ## 149 [http://marvel.wikia.com/Captain_Universe_\(Earth-616\)#](http://marvel.wikia.com/Captain_Universe_(Earth-616)#)
 ## 150 [http://marvel.wikia.com/Isabel_Kane_\(Earth-616\)#](http://marvel.wikia.com/Isabel_Kane_(Earth-616)#)
 ## 151 [http://marvel.wikia.com/Marcus_Milton_\(Earth-13034\)#](http://marvel.wikia.com/Marcus_Milton_(Earth-13034)#)

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## 152      http://marvel.wikia.com/Rogue_(Anna_Marie)_(Earth-616)#
## 153      http://marvel.wikia.com/Shiro_Yoshida_(Earth-616)#
## 154      http://marvel.wikia.com/Ex_Nihilo_(Earth-616)#
## 155      http://marvel.wikia.com/Abyss_(Ex_Nihilo%27s)_(Earth-616)#
## 156      http://marvel.wikia.com/Nightmask_(Earth-616)#
## 157      http://marvel.wikia.com/Kevin_Connor_(Earth-616)#
## 158      http://marvel.wikia.com/Sam_Alexander_(Earth-616)#
## 159      http://marvel.wikia.com/America_Chavez_(Earth-616)#
## 160      http://marvel.wikia.com/Loki_Laufeyson_(Ikol)_(Earth-616)#
## 161      http://marvel.wikia.com/David_Alleyne_(Earth-616)#
## 162      http://marvel.wikia.com/Nicholas_Fury,_Jr._(Earth-616)#
## 163      http://marvel.wikia.com/Phillip_Coulson_(Earth-616)#
## 164      http://marvel.wikia.com/Tony_Masters_(Earth-616)#
## 165      http://marvel.wikia.com/Victor_Mancha_(Earth-616)#
## 166      http://marvel.wikia.com/Monica_Chang_(Earth-616)#
## 167      http://marvel.wikia.com/Doombot_(Avenger)_(Earth-616)#
## 168      http://marvel.wikia.com/Alexis_(Earth-616)#
## 169      http://marvel.wikia.com/Eric_Brooks_(Earth-616)#
## 170      http://marvel.wikia.com/Adam_Brashear_(Earth-616)#
## 171      http://marvel.wikia.com/Victor_Alvarez_(Earth-616)#
## 172      http://marvel.wikia.com/Ava_Ayala_(Earth-616)#
## 173      http://marvel.wikia.com/Kaluu_(Earth-616)#
##          Name.Alias Appearances Current. Gender
## 1      Henry Jonathan "Hank" Pym          1269      YES   MALE
## 2              Janet van Dyne          1165      YES FEMALE
## 3      Anthony Edward "Tony" Stark          3068      YES   MALE
## 4              Robert Bruce Banner          2089      YES   MALE
## 5              Thor Odinson          2402      YES   MALE
## 6      Richard Milhouse Jones           612      YES   MALE
## 7              Steven Rogers          3458      YES   MALE
## 8      Clinton Francis Barton          1456      YES   MALE
## 9              Pietro Maximoff           769      YES   MALE
## 10             Wanda Maximoff          1214      YES FEMALE
## 11             Jacques Duquesne          115       NO   MALE
## 12             Heracles           741      YES   MALE
## 13             T'Challa           780       NO   MALE
## 14      Victor Shade (alias)          1036      YES   MALE
## 15             Dane Whitman           482       NO   MALE
## 16      Natalia Alianovna Romanova          1112      YES FEMALE
## 17             Brandt           160       NO FEMALE
## 18             Henry P. McCoy          1886       NO   MALE
## 19             Heather Douglas          332       NO FEMALE
## 20             Patsy Walker           557       NO FEMALE
## 21      Matthew Liebowitz (birth name)          197       NO   MALE
## 22             Robert L. Frank Sr.          106       NO   MALE
## 23             Simon Williams          692      YES   MALE
## 24             Yondu Udonta           109       NO   MALE
## 25             Martinex T'Naga          100       NO   MALE
## 26             Charlie-27           132       NO   MALE
## 27             Nicholette Gold          108       NO FEMALE
## 28             Stakar           100       NO   MALE
## 29             Vance Astrovik          156       NO   MALE
## 30             Mar-Vell           254       NO   MALE
## 31      Carol Susan Jane Danvers          935      YES FEMALE

```

## 32	Samuel Thomas Wilson	576	YES	MALE
## 33	Jocasta	141	YES	FEMALE
## 34	Greer Grant Nelson	355	YES	FEMALE
## 35	Jennifer Walters	933	YES	FEMALE
## 36	Monica Rambeau	348	YES	FEMALE
## 37	Eros	206	NO	MALE
## 38	James R. Rhodes	533	NO	MALE
## 39	Barbara Barton (nee Morse)	374	NO	FEMALE
## 40	Moiria Brandon	2	NO	FEMALE
## 41	Benjamin Jacob Grimm	2305	NO	MALE
## 42	Bonita Juarez	83	NO	FEMALE
## 43	Marc Spector	402	NO	MALE
## 44	John F. Walker	352	NO	MALE
## 45	Jim Hammond (alias)	565	NO	MALE
## 46	Miguel Santos	112	NO	MALE
## 47	Julia Carpenter	218	NO	FEMALE
## 48	X-51	149	NO	MALE
## 49	Christopher Powell	168	NO	MALE
## 50	Namor McKenzie	1561	NO	MALE
## 51	Scott Edward Harris Lang	217	NO	MALE
## 52	Anthony Ludgate Druid	158	NO	MALE
## 53	Marrina Smallwood	86	NO	FEMALE
## 54	Ravonna Lexus Renslayer	41	NO	FEMALE
## 55	Rita DeMara	68	NO	FEMALE
## 56	Dennis Dunphy	70	NO	MALE
## 57		61	NO	MALE
## 58	Reed Richards	2125	YES	MALE
## 59	Susan Richards (nee Storm)	1761	NO	MALE
## 60	Wendell Elvis Vaughn	293	NO	MALE
## 61	Ashley Crawford	36	YES	FEMALE
## 62		22	NO	FEMALE
## 63	DeMarr Davis	31	YES	MALE
## 64	Val Ventura	34	YES	MALE
## 65	Craig Hollis	33	YES	MALE
## 66	Gene Lorrene	4	NO	MALE
## 67	Dorreen Green	47	NO	FEMALE
## 68		7	NO	MALE
## 69	Doug Taggart	3	NO	MALE
## 70		16	NO	FEMALE
## 71	Wade Wilson	575	NO	MALE
## 72	Greg Willis	58	NO	MALE
## 73	Circe	237	NO	FEMALE
## 74	Peter Benjamin Parker	4333	YES	MALE
## 75	Walter Newell	126	NO	MALE
## 76	Elvin Haliday	158	NO	MALE
## 77	William Baker	355	NO	MALE
## 78	Crystal Amaquelin Maximoff	517	NO	FEMALE
## 79	Eric Kevin Masterson	202	NO	MALE
## 80	Phillip Javert	31	NO	MALE
## 81		28	NO	FEMALE
## 82		50	NO	FEMALE
## 83	Anthony Edward Stark	27	NO	MALE
## 84	"Giulietta Nefaria"	18	NO	FEMALE
## 85	Vance Astrovik	302	NO	MALE

## 86	Angelica Jones	330	NO FEMALE
## 87	Delroy Garrett Jr.	101	NO MALE
## 88	Maria de Guadalupe Santiago	43	NO FEMALE
## 89	Jonathan Hart	126	NO MALE
## 90	Kelsey Leigh Shorr	24	NO FEMALE
## 91	Carl Lucas	886	YES MALE
## 92	Veranke	159	NO FEMALE
## 93	James "Logan" Howlett	3130	YES MALE
## 94	Robert Reynolds	241	NO MALE
## 95	Maya Lopez	67	NO FEMALE
## 96	Nathaniel Richards	23	NO MALE
## 97	Elijah Bradley	103	NO MALE
## 98	William "Billy" Kaplan	123	YES MALE
## 99	Dorrek VIII/Theodore "Teddy" Altman	110	YES MALE
## 100	Cassie Lang	160	NO FEMALE
## 101	Katherine "Kate" Bishop	132	YES FEMALE
## 102	Alias: Jonas	121	NO MALE
## 103	Thomas "Tommy" Shepherd	59	YES MALE
## 104	Daniel Thomas Rand K'ai	629	NO MALE
## 105	Doctor Stephen Vincent Strange	1324	NO MALE
## 106	Ares	236	NO MALE
## 107	James Buchanan Barnes	663	NO MALE
## 108	Jessica Miriam Drew	525	YES FEMALE
## 109	Jessica Jones	205	YES FEMALE
## 110	Amadeus Cho	108	NO MALE
## 111	Maria Hill	359	YES FEMALE
## 112	Robbie Baldwin	299	NO MALE
## 113	Sharon Carter	333	NO FEMALE
## 114	Eric O'Grady	88	NO MALE
## 115	Brunnhilde	369	NO FEMALE
## 116	Richard Rider	380	NO MALE
## 117	Brian Braddock	545	NO MALE
## 118	Dennis Sykes	6	NO MALE
## 119	Noh-Varr	126	YES MALE
## 120	Thaddeus Ross	417	NO MALE
## 121	John Aman	31	YES MALE
## 122	Shang-Chi	310	YES MALE
## 123	James Santini	40	YES MALE
## 124	Emery Schaub	26	YES MALE
## 125	Jeanne Foucault	63	YES FEMALE
## 126	Fiona	2	YES FEMALE
## 127	Jennifer Takeda	73	YES FEMALE
## 128	Yvette	22	YES FEMALE
## 129	Julie Power	153	YES FEMALE
## 130	Alani Ryan	73	YES FEMALE
## 131	Ken Mack	59	NO MALE
## 132	Humberto Lopez	66	YES MALE
## 133	Johnny Gallo	43	YES MALE
## 134	Lyra	55	YES FEMALE
## 135	Anyia Corazon	108	YES FEMALE
## 136	Brandon Sharpe	64	YES MALE
## 137	Kevin Masterson	62	YES MALE
## 138	Michiko Musashi	94	YES FEMALE
## 139	Taki Matsuya	18	YES MALE

## 140	Daisy Johnson	81	NO	FEMALE
## 141	Ororo Munroe	1598	NO	FEMALE
## 142	Matt Murdock	1375	NO	MALE
## 143	Flash Thompson	746	YES	MALE
## 144	Otto Octavius	561	NO	MALE
## 145	Alex Summers	592	YES	MALE
## 146	Samuel Guthrie	679	YES	MALE
## 147	Roberto da Costa	491	YES	MALE
## 148	Eden Fesi	65	YES	MALE
## 149		55	YES	MALE
## 150	Izzy Kane	44	YES	FEMALE
## 151	Marcus Milton	65	YES	MALE
## 152	Anna Marie	877	YES	FEMALE
## 153	Shiro Yoshida	176	YES	MALE
## 154		24	YES	MALE
## 155		25	YES	FEMALE
## 156	Adam	35	YES	MALE
## 157	Kevin Kale Connor	44	YES	MALE
## 158	Sam Alexander	78	YES	MALE
## 159	America Chavez	22	YES	FEMALE
## 160	Loki Laufeyson	77	NO	MALE
## 161	David Alleyne	115	YES	MALE
## 162	Nicholas Fury, Jr., Marcus Johnson	77	YES	MALE
## 163	Phillip Coulson	69	YES	MALE
## 164	Tony Masters	173	NO	MALE
## 165	Victor Mancha	75	YES	MALE
## 166	Monica Chang	12	YES	FEMALE
## 167		14	YES	MALE
## 168	Alexis	13	YES	FEMALE
## 169	Eric Brooks	198	YES	MALE
## 170	Adam Brashear	29	YES	MALE
## 171	Victor Alvarez	45	YES	MALE
## 172	Ava Ayala	49	YES	FEMALE
## 173	Kaluu	35	YES	MALE
##	Probationary.Introl Full.Reserve.Avengers.Intro	Year		
## 1		Sep-63	1963	
## 2		Sep-63	1963	
## 3		Sep-63	1963	
## 4		Sep-63	1963	
## 5		Sep-63	1963	
## 6		Sep-63	1963	
## 7		Mar-64	1964	
## 8		May-65	1965	
## 9		May-65	1965	
## 10		May-65	1965	
## 11		Sep-65	1965	
## 12		Oct-67	1967	
## 13		May-68	1968	
## 14		Nov-68	1968	
## 15		Dec-69	1969	
## 16		May-73	1973	
## 17		Aug-73	1973	
## 18	Jul-75	Sep-76	1976	
## 19	Jul-75	Sep-76	1976	

## 20	Nov-75	Sep-76 1976
## 21		Aug-75 1975
## 22	Apr-77	Jul-78 1978
## 23	Apr-77	Mar-79 1979
## 24		Feb-78 1978
## 25		Feb-78 1978
## 26		Feb-78 1978
## 27		Feb-78 1978
## 28		Feb-78 1978
## 29		Feb-78 1978
## 30		Jul-78 1978
## 31		Apr-79 1979
## 32		Jun-79 1979
## 33	Jul-80	Nov-88 1988
## 34		Sep-81 1981
## 35		Jul-82 1982
## 36	Jan-83	May-83 1983
## 37	Jun-83	May-84 1984
## 38	May-84	Sep-84 1984
## 39	Jun-84	Sep-84 1984
## 40		Nov-93 1993
## 41		Jun-86 1986
## 42		Sep-87 1987
## 43	Sep-87	Jun-88 1988
## 44		May-89 1989
## 45		Nov-89 1989
## 46		Apr-91 1991
## 47		Sep-92 1992
## 48		Jun-92 1992
## 49		May-93 1993
## 50		Dec-85 1985
## 51	Jan-87	3-Feb 2003
## 52		Apr-87 1987
## 53		Dec-87 1987
## 54		May-88 1988
## 55		Nov-88 1988
## 56		Jan-88 1988
## 57		Feb-89 1989
## 58		Feb-89 1989
## 59		Feb-89 1989
## 60		Oct-89 1989
## 61		Jul-89 1989
## 62		Jul-89 1989
## 63		Jul-89 1989
## 64		Jul-89 1989
## 65		Jul-89 1989
## 66		5-Apr 2005
## 67		5-May 2005
## 68		5-May 2005
## 69		5-May 2005
## 70		5-Jul 2005
## 71		7-Sep 2007
## 72		9-Aug 2009
## 73		Feb-90 1990

## 74		Apr-90 1990
## 75		Jul-90 1990
## 76	Feb-91	1900
## 77	Feb-91	1900
## 78	Aug-91	Jan-92 1992
## 79		Jan-92 1992
## 80		Dec-92 1992
## 81		Jun-93 1993
## 82		Jul-93 1993
## 83		Feb-96 1996
## 84		Apr-96 1996
## 85		May-98 1998
## 86		May-98 1998
## 87		Apr-00 2000
## 88		Jul-00 2000
## 89		1-Aug 2001
## 90		4-Jun 2004
## 91		5-Mar 2005
## 92		5-Mar 2005
## 93		5-Jun 2005
## 94		5-Oct 2005
## 95		5-Nov 2005
## 96		5-Apr 2005
## 97		5-Apr 2005
## 98		5-Apr 2005
## 99		5-Apr 2005
## 100		5-Jun 2005
## 101		5-Jun 2005
## 102		6-Feb 2006
## 103		6-Jun 2006
## 104		7-Feb 2007
## 105		7-Feb 2007
## 106		7-Mar 2007
## 107		8-Dec 2008
## 108		8-Dec 2008
## 109		10-Aug 2010
## 110		9-Dec 2009
## 111		10-May 2010
## 112		10-Jun 2010
## 113		10-May 2010
## 114		10-May 2010
## 115		10-May 2010
## 116		10-May 2010
## 117		10-May 2010
## 118		10-Sep 2010
## 119		10-Jun 2010
## 120		11-Jun 2011
## 121		10-Dec 2010
## 122		11-Apr 2011
## 123		1900
## 124		1900
## 125		10-Aug 2010
## 126		1900
## 127		10-Aug 2010

## 128	1900
## 129	1900
## 130	1900
## 131	10-Aug 2010
## 132	10-Aug 2010
## 133	1900
## 134	1900
## 135	1900
## 136	10-Aug 2010
## 137	1900
## 138	1900
## 139	1900
## 140	12-Jan 2012
## 141	12-Jan 2012
## 142	11-Nov 2011
## 143	12-Apr 2012
## 144	13-Jan 2013
## 145	12-Dec 2012
## 146	13-Feb 2013
## 147	13-Feb 2013
## 148	13-Feb 2013
## 149	13-Feb 2013
## 150	13-Feb 2013
## 151	13-Feb 2013
## 152	13-Apr 2013
## 153	13-May 2013
## 154	13-Oct 2013
## 155	13-Oct 2013
## 156	13-Oct 2013
## 157	13-Oct 2013
## 158	15-Feb 2015
## 159	13-Jul 2013
## 160	13-Jul 2013
## 161	13-Sep 2013
## 162	13-Apr 2013
## 163	13-Apr 2013
## 164	13-May 2013
## 165	13-Sep 2013
## 166	13-Sep 2013
## 167	13-Sep 2013
## 168	13-Nov 2013
## 169	13-Nov 2013
## 170	14-Jan 2014
## 171	14-Jan 2014
## 172	14-Jan 2014
## 173	15-Jan 2015

##	Years.since.joining	Honorary
## 1	52	Full
## 2	52	Full
## 3	52	Full
## 4	52	Full
## 5	52	Full
## 6	52	Honorary
## 7	51	Full

## 8	50	Full
## 9	50	Full
## 10	50	Full
## 11	50	Full
## 12	48	Full
## 13	47	Full
## 14	47	Full
## 15	46	Full
## 16	42	Full
## 17	42	Full
## 18	39	Full
## 19	39	Full
## 20	39	Full
## 21	40	Full
## 22	37	Full
## 23	36	Full
## 24	37	Honorary
## 25	37	Honorary
## 26	37	Honorary
## 27	37	Honorary
## 28	37	Honorary
## 29	37	Honorary
## 30	37	Full
## 31	36	Full
## 32	36	Full
## 33	27	Full
## 34	34	Full
## 35	33	Full
## 36	32	Full
## 37	31	Full
## 38	31	Full
## 39	31	Full
## 40	22	Honorary
## 41	29	Full
## 42	28	Full
## 43	27	Full
## 44	26	Full
## 45	26	Full
## 46	24	Full
## 47	23	Full
## 48	23	Full
## 49	22	Full
## 50	30	Full
## 51	12	Full
## 52	28	Honorary
## 53	28	Full
## 54	27	Full
## 55	27	Honorary
## 56	27	Full
## 57	26	Full
## 58	26	Full
## 59	26	Full
## 60	26	Full
## 61	26	Full

## 62	26	Full
## 63	26	Full
## 64	26	Full
## 65	26	Full
## 66	10	Full
## 67	10	Full
## 68	10	Full
## 69	10	Full
## 70	10	Full
## 71	8	Full
## 72	6	Full
## 73	25	Full
## 74	25	Full
## 75	25	Full
## 76	115	Probationary
## 77	115	Probationary
## 78	23	Full
## 79	23	Full
## 80	23	Honorary
## 81	22	Honorary
## 82	22	Honorary
## 83	19	Full
## 84	19	Honorary
## 85	17	Full
## 86	17	Full
## 87	15	Full
## 88	15	Full
## 89	14	Full
## 90	11	Full
## 91	10	Full
## 92	10	Full
## 93	10	Full
## 94	10	Full
## 95	10	Full
## 96	10	Full
## 97	10	Full
## 98	10	Full
## 99	10	Full
## 100	10	Full
## 101	10	Full
## 102	9	Full
## 103	9	Full
## 104	8	Full
## 105	8	Full
## 106	8	Full
## 107	7	Full
## 108	7	Full
## 109	5	Full
## 110	6	Full
## 111	5	Full
## 112	5	Full
## 113	5	Full
## 114	5	Full
## 115	5	Full

## 116	5	Full
## 117	5	Full
## 118	5	Full
## 119	5	Full
## 120	4	Full
## 121	5	Full
## 122	4	Full
## 123	115	Academy
## 124	115	Academy
## 125	5	Academy
## 126	115	Academy
## 127	5	Academy
## 128	115	Academy
## 129	115	Academy
## 130	115	Academy
## 131	5	Academy
## 132	5	Academy
## 133	115	Academy
## 134	115	Academy
## 135	115	Academy
## 136	5	Academy
## 137	115	Academy
## 138	115	Academy
## 139	115	Academy
## 140	3	Full
## 141	3	Full
## 142	4	Full
## 143	3	Honorary
## 144	2	Full
## 145	3	Full
## 146	2	Full
## 147	2	Full
## 148	2	Full
## 149	2	Full
## 150	2	Full
## 151	2	Full
## 152	2	Full
## 153	2	Full
## 154	2	Full
## 155	2	Full
## 156	2	Full
## 157	2	Full
## 158	0	Honorary
## 159	2	Full
## 160	2	Full
## 161	2	Full
## 162	2	Full
## 163	2	Full
## 164	2	Full
## 165	2	Full
## 166	2	Full
## 167	2	Full
## 168	2	Full
## 169	2	Full

## 170	1	Full	
## 171	1	Full	
## 172	1	Full	
## 173	0	Full	
##			
## 1			
## 2			
## 3			Death: "Later w
## 4			
## 5			
## 6			
## 7			
## 8			
## 9			
## 10			
## 11			
## 12			
## 13			
## 14			
## 15			
## 16			
## 17			
## 18			
## 19			Dies in Def
## 20			
## 21			
## 22			
## 23			
## 24			
## 25			
## 26			
## 27			
## 28			
## 29			
## 30			The bad penny of the Marvel universe. First killed in Secret invasion. Revived during the Chaos v
## 31			
## 32			
## 33			From her article: Death1: "Defeated Ultron and reversed the process leaving Jocasta a mindless
## 34			
## 35			
## 36			
## 37			
## 38			
## 39			
## 40			
## 41			
## 42			
## 43			
## 44			
## 45			
## 46			
## 47			
## 48			
## 49			

## 50	
## 51	Died in Avengers
## 52	Shot with a Breathing gun and corpse
## 53	Killed by Namor with
## 54	
## 55	
## 56	
## 57	
## 58	
## 59	
## 60	
## 61	
## 62	
## 63	
## 64	
## 65	Christ; where to
## 66	
## 67	
## 68	
## 69	
## 70	
## 71	
## 72	
## 73	
## 74	Since joining the New Avengers: First death Kill
## 75	
## 76	
## 77	
## 78	
## 79	Became possessed o
## 80	
## 81	
## 82	
## 83	
## 84	
## 85	
## 86	
## 87	
## 88	
## 89	First died in a zero energy exp
## 90	
## 91	
## 92	
## 93	
## 94	
## 95	First death 'l
## 96	
## 97	
## 98	
## 99	
## 100	
## 101	
## 102	
## 103	

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```

## 158
## 159
## 160
## 161
## 162
## 163
## 164
## 165
## 166
## 167
## 168
## 169
## 170
## 171
## 172
## 173
##      Total.Deaths Total.Return
## 1           1           0
## 2           1           1
## 3           1           1
## 4           1           1
## 5           2           1
## 6           0           0
## 7           1           1
## 8           2           2
## 9           1           1
## 10          1           1
## 11          1           1
## 12          0           0
## 13          0           0
## 14          1           1
## 15          0           0
## 16          1           1
## 17          1           1
## 18          0           0
## 19          2           2
## 20          1           1
## 21          2           1
## 22          1           0
## 23          1           1
## 24          0           0
## 25          0           0
## 26          0           0
## 27          0           0
## 28          0           0
## 29          0           0
## 30          3           2
## 31          0           0
## 32          0           0
## 33          5           5
## 34          0           0
## 35          1           1
## 36          0           0
## 37          0           0

```

## 38	0	0
## 39	1	1
## 40	1	0
## 41	1	1
## 42	0	0
## 43	0	0
## 44	0	0
## 45	1	1
## 46	0	0
## 47	0	0
## 48	1	1
## 49	0	0
## 50	1	1
## 51	1	1
## 52	2	2
## 53	2	2
## 54	2	1
## 55	1	1
## 56	2	1
## 57	1	1
## 58	0	0
## 59	0	0
## 60	1	1
## 61	0	0
## 62	1	0
## 63	1	1
## 64	0	0
## 65	0	0
## 66	0	0
## 67	0	0
## 68	1	0
## 69	1	0
## 70	0	0
## 71	1	0
## 72	0	0
## 73	0	0
## 74	2	2
## 75	0	0
## 76	0	0
## 77	1	1
## 78	0	0
## 79	2	1
## 80	0	0
## 81	0	0
## 82	2	1
## 83	1	0
## 84	1	0
## 85	0	0
## 86	0	0
## 87	0	0
## 88	0	0
## 89	2	2
## 90	0	0
## 91	0	0

## 92	1	0
## 93	1	0
## 94	1	1
## 95	2	1
## 96	0	0
## 97	0	0
## 98	0	0
## 99	0	0
## 100	1	1
## 101	0	0
## 102	1	0
## 103	0	0
## 104	0	0
## 105	0	0
## 106	2	1
## 107	0	0
## 108	0	0
## 109	0	0
## 110	0	0
## 111	0	0
## 112	0	0
## 113	1	1
## 114	1	0
## 115	0	0
## 116	1	0
## 117	0	0
## 118	1	0
## 119	0	0
## 120	1	1
## 121	0	0
## 122	0	0
## 123	0	0
## 124	0	0
## 125	0	0
## 126	0	0
## 127	0	0
## 128	0	0
## 129	0	0
## 130	0	0
## 131	1	0
## 132	1	0
## 133	0	0
## 134	0	0
## 135	0	0
## 136	0	0
## 137	0	0
## 138	0	0
## 139	0	0
## 140	0	0
## 141	0	0
## 142	0	0
## 143	0	0
## 144	1	0
## 145	0	0

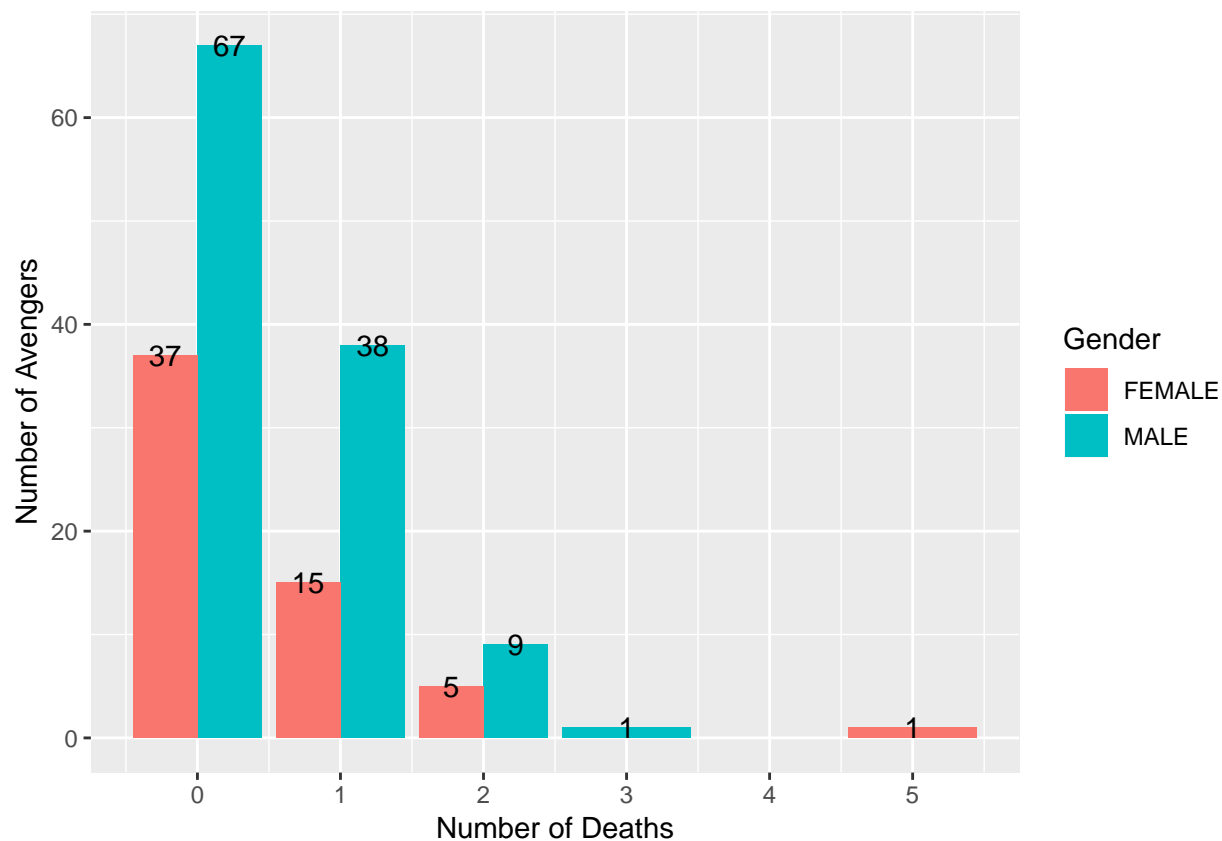
```
## 146      0      0
## 147      0      0
## 148      0      0
## 149      0      0
## 150      0      0
## 151      1      0
## 152      0      0
## 153      1      1
## 154      1      0
## 155      1      0
## 156      1      0
## 157      1      0
## 158      0      0
## 159      0      0
## 160      0      0
## 161      0      0
## 162      0      0
## 163      0      0
## 164      0      0
## 165      1      1
## 166      0      0
## 167      0      0
## 168      0      0
## 169      0      0
## 170      0      0
## 171      0      0
## 172      0      0
## 173      0      0
```

#Question 1: Is there some characteristic that makes an Avenger more likely to have died?

##Gender

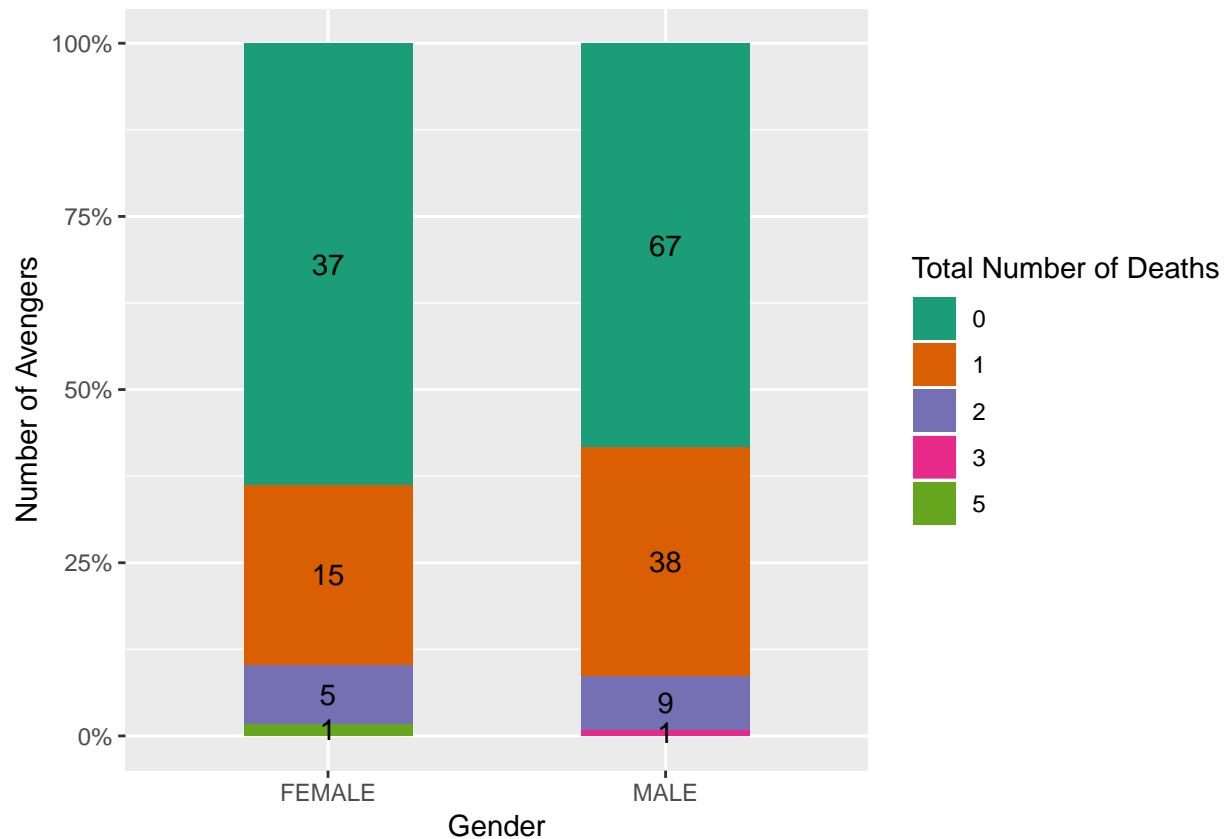
Let's start with Gender:

```
avengers_tidydf %>%
  select(Gender, Total.Deaths) %>%
  group_by(Gender, Total.Deaths) %>%
  summarize(NumberOfAvengers = n()) %>%
  ggplot(aes(x=Total.Deaths, y = NumberOfAvengers, fill = Gender)) +
  geom_col(position = "dodge") +
  geom_text(aes(label= NumberOfAvengers), position = position_dodge(width = 0.9)) +
  scale_x_continuous("Number of Deaths", breaks = c(0,1,2,3,4,5)) +
  ylab("Number of Avengers")
```



From the graph, we can see that, while there are more male Avengers in general, women are more likely to not die than men (column 0) compared to dying exactly one time (column 1). This may be more clearly seen in the next plot:

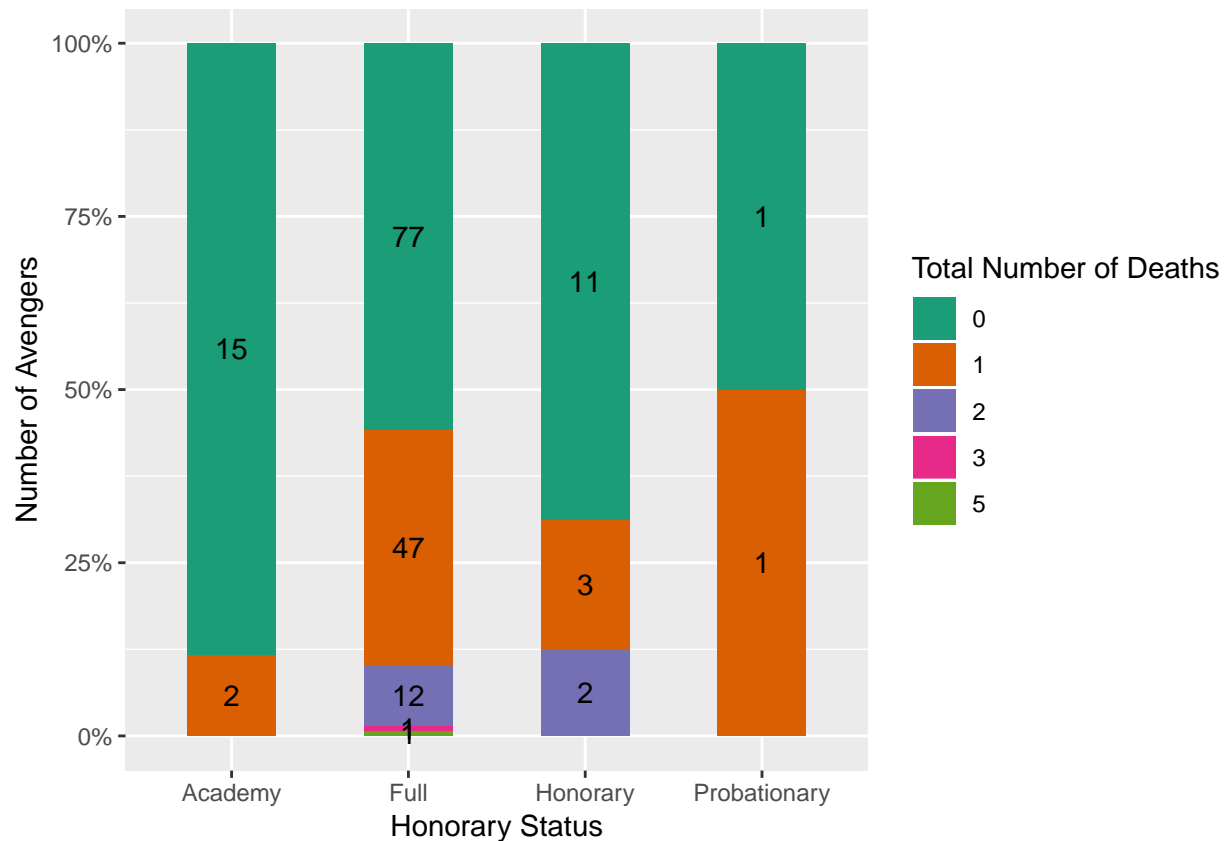
```
avengers_tidydf %>%
  select(Gender, Total.Deaths) %>%
  group_by(Gender, Total.Deaths) %>%
  summarize(NumberOfAvengers = n()) %>%
  ggplot(aes(x= Gender, y = NumberOfAvengers, fill = as.factor(Total.Deaths))) +
  geom_col(position = "fill", width = .5) +
  scale_fill_brewer(name = "Total Number of Deaths", palette = "Dark2") +
  geom_text(aes(label= NumberOfAvengers), position = position_fill(vjust=.5)) +
  xlab("Gender") +
  scale_y_continuous(name = "Number of Avengers", labels = scales::percent) #+
```



##Honorary Status

Let's try honorary status. As seen in the graph, Academic and Honorary Avengers are more likely to not have died compared to Full-time Avengers.

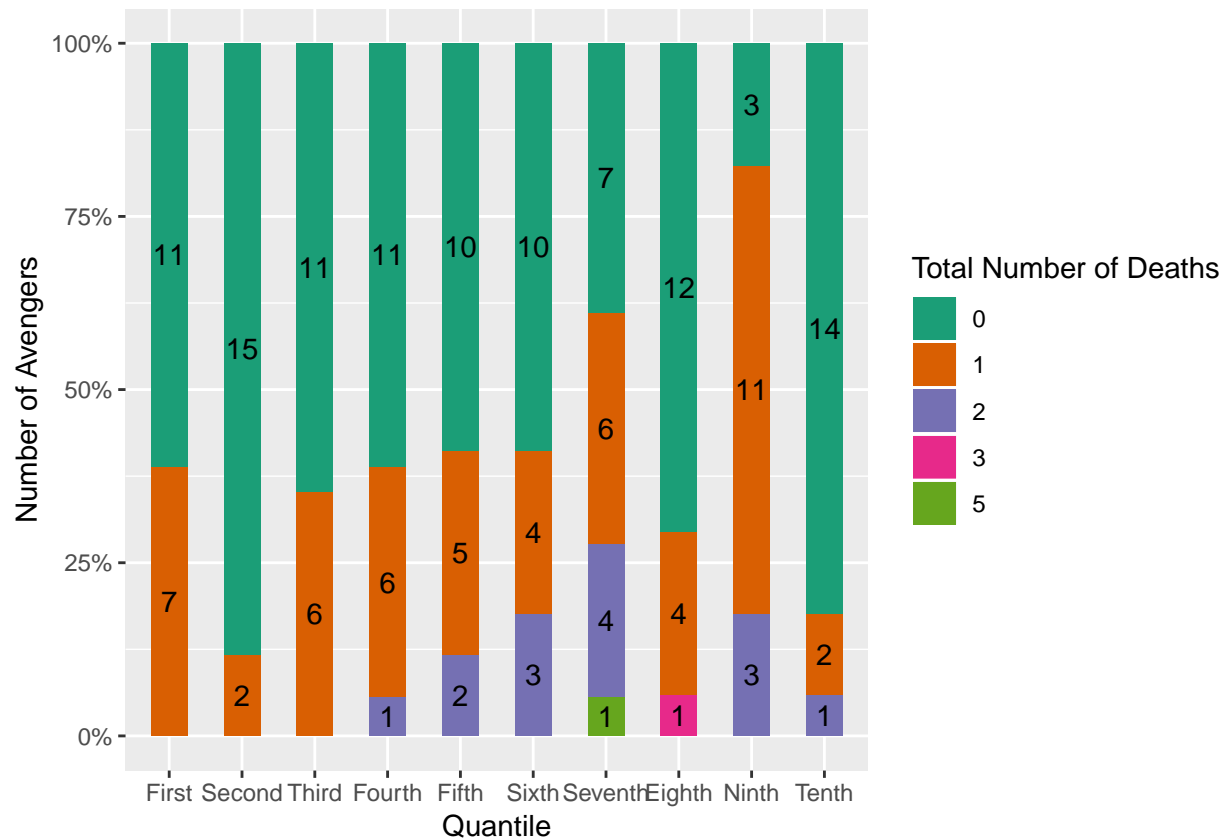
```
avengers_tidydf %>%
  select(Honorary, Total.Deaths) %>%
  group_by(Honorary, Total.Deaths) %>%
  summarize(NumberOfAvengers = n()) %>%
  ggplot(aes(x= Honorary, y = NumberOfAvengers, fill = as.factor(Total.Deaths))) +
  geom_col(position = "fill", width = .5) +
  scale_fill_brewer(name = "Total Number of Deaths", palette = "Dark2") +
  geom_text(aes(label= NumberOfAvengers), position = position_fill(vjust=.5)) +
  xlab("Honorary Status") +
  scale_y_continuous(name = "Number of Avengers", labels = scales::percent) #+
```



##Number of Years since joining the Avengers

Let's analyze Years.since.joining. Since Years.since.joining is an integer variable, I grouped the rows by its 10 quantiles. Its subtle, but the longer an Avenger has been part of the team, the more likely it is for him to have died. Curiously, though, once you've been an Avenger for long enough, your likelihood of not dying increases.

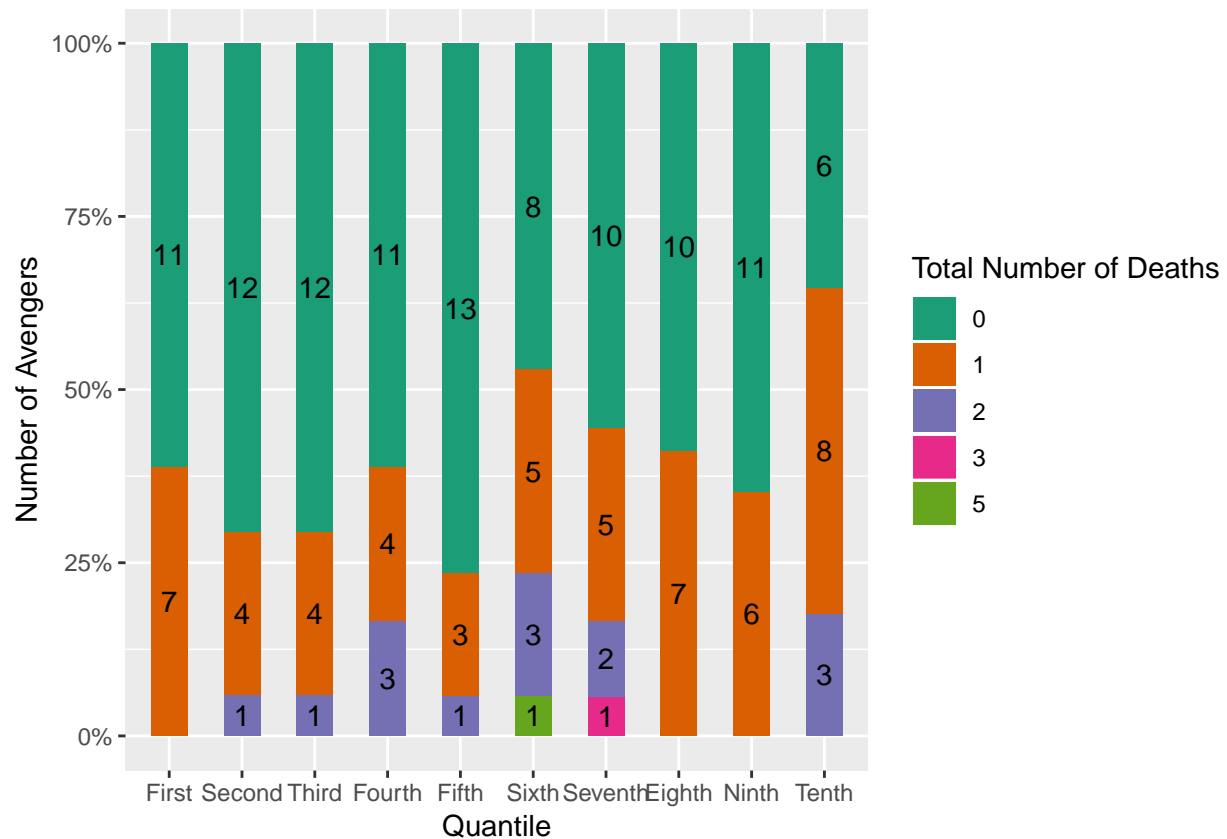
```
avengers_tidydf %>%
  select(Years.since.joining, Total.Deaths) %>%
  arrange(Years.since.joining) %>%
  mutate(quartile = as.factor(ntile(Years.since.joining, 10))) %>%
  group_by(quartile, Total.Deaths) %>%
  summarize(NumberOfAvengers = n()) %>%
  ggplot(aes(x= quartile, y = NumberOfAvengers, fill = as.factor(Total.Deaths))) +
  geom_col(position = "fill", width = .5) +
  scale_fill_brewer(name = "Total Number of Deaths", palette = "Dark2") +
  geom_text(aes(label= NumberOfAvengers), position = position_fill(vjust=.5)) +
  scale_x_discrete(name= "Quantile" ,labels = c("First", "Second", "Third", "Fourth", "Fifth", "Sixth",
  scale_y_continuous(name = "Number of Avengers", labels = scales::percent)#+
```



##Number of Appereances in comic books

We will repeat the previous process for the number of appereances.

```
avengers_tidydf %>%
  select(Appeareances, Total.Deaths) %>%
  arrange(Appeareances) %>%
  mutate(quantile = as.factor(ntile(Appeareances, 10))) %>%
  group_by(quantile, Total.Deaths) %>%
  summarize(NumberOfAvengers = n()) %>%
  ggplot(aes(x= quantile, y = NumberOfAvengers, fill = as.factor(Total.Deaths))) +
  geom_col(position = "fill", width = .5) +
  scale_fill_brewer(name = "Total Number of Deaths", palette = "Dark2") +
  geom_text(aes(label= NumberOfAvengers), position = position_fill(vjust=.5)) +
  scale_x_discrete(name= "Quantile" ,labels = c("First", "Second", "Third", "Fourth", "Fifth", "Sixth",
  scale_y_continuous(name = "Number of Avengers", labels = scales::percent)#+
```



#Question 2: Is there some characteristic that makes an Avenger more likely to have revived?

##Filtering all Avengers that have not died We can repeat the plots from question 1 here, with one alteration. We need to filter all avengers that have not died from the dataframe. So:

```
avengersThatDied_tidydf <- avengers_tidydf %>%
  filter(Total.Deaths!=0)
avengersThatDied_tidydf
```

```
## URL
## 1 http://marvel.wikia.com/Henry_Pym_(Earth-616)
## 2 http://marvel.wikia.com/Janet_van_Dyne_(Earth-616)
## 3 http://marvel.wikia.com/Anthony_Stark_(Earth-616)
## 4 http://marvel.wikia.com/Robert_Bruce_Banner_(Earth-616)
## 5 http://marvel.wikia.com/Thor_Odinson_(Earth-616)
## 6 http://marvel.wikia.com/Steven_Rogers_(Earth-616)
## 7 http://marvel.wikia.com/Clint_Barton_(Earth-616)
## 8 http://marvel.wikia.com/Pietro_Maximoff_(Earth-616)
## 9 http://marvel.wikia.com/Wanda_Maximoff_(Earth-616)
## 10 http://marvel.wikia.com/Jacques_Duquesne_(Earth-616)
## 11 http://marvel.wikia.com/Vision_(Earth-616)
## 12 http://marvel.wikia.com/Natalia_Romanova_(Earth-616)#
## 13 http://marvel.wikia.com/Mantis_(Earth-616)#
## 14 http://marvel.wikia.com/Heather_Douglas_(Earth-616)#
## 15 http://marvel.wikia.com/Patricia_Walker_(Earth-616)#
## 16 http://marvel.wikia.com/Matthew_Hawk_(Earth-616)#
## 17 http://marvel.wikia.com/Robert_Frank_(Earth-616)#
```

```

## 18      http://marvel.wikia.com/Simon_Williams_(Earth-616)#
## 19      http://marvel.wikia.com/Mar-Vell_(Earth-616)#
## 20      http://marvel.wikia.com/Jocasta_(Earth-616)#
## 21      http://marvel.wikia.com/Jennifer_Walters_(Earth-616)#
## 22      http://marvel.wikia.com/Barbara_Morse_(Earth-616)#
## 23      http://marvel.wikia.com/Moira_Brandon_(Earth-616)#
## 24      http://marvel.wikia.com/Benjamin_Grimm_(Earth-616)#
## 25      http://marvel.wikia.com/Human_Torch_(Android)_(Earth-616)#
## 26      http://marvel.wikia.com/2ZP45-9-X-51_(Earth-616)#
## 27      http://marvel.wikia.com/Namor_McKenzie_(Earth-616)#
## 28      http://marvel.wikia.com/Scott_Lang_(Earth-616)#
## 29      http://marvel.wikia.com/Anthony_Druid_(Earth-616)#
## 30      http://marvel.wikia.com/Marrina_Smallwood_(Earth-616)#
## 31      http://marvel.wikia.com/Ravonna_Renslayer_(Earth-6311)#
## 32      http://marvel.wikia.com/Rita_DeMara_(Earth-616)#
## 33      http://marvel.wikia.com/Dennis_Dunphy_(Earth-616)#
## 34      http://marvel.wikia.com/Gilgamesh_(Earth-616)#
## 35      http://marvel.wikia.com/Wendell_Vaughn_(Earth-616)#
## 36      http://marvel.wikia.com/Dinah_Soar_(Earth-616)#
## 37      http://marvel.wikia.com/DeMarr_Davis_(Earth-616)#
## 38      http://marvel.wikia.com/Monkey_Joe_(Earth-616)#
## 39      http://marvel.wikia.com/Doug_Taggart_(Earth-616)#
## 40      http://marvel.wikia.com/Wade_Wilson_(Earth-616)#
## 41      http://marvel.wikia.com/Peter_Parker_(Earth-616)#
## 42      http://marvel.wikia.com/William_Baker_(Earth-616)#
## 43      http://marvel.wikia.com/Eric_Masterson_(Earth-616)#
## 44      http://marvel.wikia.com/Deathcry_(Earth-616)#
## 45      http://marvel.wikia.com/Anthony_Stark_(Earth-96020)#
## 46      http://marvel.wikia.com/Giuletta_Nefaria_(Masque)_(Earth-616)#
## 47      http://marvel.wikia.com/Jonathan_Hart_(Earth-616)#
## 48      http://marvel.wikia.com/Veranke_(Earth-616)#
## 49      http://marvel.wikia.com/James_Howlett_(Earth-616)#
## 50      http://marvel.wikia.com/Robert_Reynolds_(Earth-616)#
## 51      http://marvel.wikia.com/Maya_Lopez_(Earth-616)#
## 52      http://marvel.wikia.com/Cassandra_Lang_(Earth-616)#
## 53      http://marvel.wikia.com/Vision_(Jonas)_(Earth-616)#
## 54      http://marvel.wikia.com/Ares_(Earth-616)#
## 55      http://marvel.wikia.com/Sharon_Carter_(Earth-616)#
## 56      http://marvel.wikia.com/Eric_0%27Grady_(Earth-616)#
## 57      http://marvel.wikia.com/Richard_Rider_(Earth-616)#
## 58      http://marvel.wikia.com/Dennis_Sykes_(Earth-616)#
## 59      http://marvel.wikia.com/Thaddeus_Ross_(Earth-616)#
## 60      http://marvel.wikia.com/Ken_Mack_(Earth-616)#
## 61      http://marvel.wikia.com/Humberto_Lopez_(Earth-616)#
## 62      http://marvel.wikia.com/Otto_Octavius_(Earth-616)#
## 63      http://marvel.wikia.com/Marcus_Milton_(Earth-13034)#
## 64      http://marvel.wikia.com/Shiro_Yoshida_(Earth-616)#
## 65      http://marvel.wikia.com/Ex_Nihilo_(Earth-616)#
## 66      http://marvel.wikia.com/Abyss_(Ex_Nihilo%27s)_(Earth-616)#
## 67      http://marvel.wikia.com/Nightmask_(Earth-616)#
## 68      http://marvel.wikia.com/Kevin_Connor_(Earth-616)#
## 69      http://marvel.wikia.com/Victor_Mancha_(Earth-616)#
##
##      Name.Alias Appearances Current. Gender
## 1      Henry Jonathan "Hank" Pym      1269      YES      MALE

```


## 2	Janet van Dyne	1165	YES	FEMALE
## 3	Anthony Edward "Tony" Stark	3068	YES	MALE
## 4	Robert Bruce Banner	2089	YES	MALE
## 5	Thor Odinson	2402	YES	MALE
## 6	Steven Rogers	3458	YES	MALE
## 7	Clinton Francis Barton	1456	YES	MALE
## 8	Pietro Maximoff	769	YES	MALE
## 9	Wanda Maximoff	1214	YES	FEMALE
## 10	Jacques Duquesne	115	NO	MALE
## 11	Victor Shade (alias)	1036	YES	MALE
## 12	Natalia Alianovna Romanova	1112	YES	FEMALE
## 13	Brandt	160	NO	FEMALE
## 14	Heather Douglas	332	NO	FEMALE
## 15	Patsy Walker	557	NO	FEMALE
## 16	Matthew Liebowitz (birth name)	197	NO	MALE
## 17	Robert L. Frank Sr.	106	NO	MALE
## 18	Simon Williams	692	YES	MALE
## 19	Mar-Vell	254	NO	MALE
## 20	Jocasta	141	YES	FEMALE
## 21	Jennifer Walters	933	YES	FEMALE
## 22	Barbara Barton (nee Morse)	374	NO	FEMALE
## 23	Moirra Brandon	2	NO	FEMALE
## 24	Benjamin Jacob Grimm	2305	NO	MALE
## 25	Jim Hammond (alias)	565	NO	MALE
## 26	X-51	149	NO	MALE
## 27	Namor McKenzie	1561	NO	MALE
## 28	Scott Edward Harris Lang	217	NO	MALE
## 29	Anthony Ludgate Druid	158	NO	MALE
## 30	Marrina Smallwood	86	NO	FEMALE
## 31	Ravonna Lexus Renslayer	41	NO	FEMALE
## 32	Rita DeMara	68	NO	FEMALE
## 33	Dennis Dunphy	70	NO	MALE
## 34		61	NO	MALE
## 35	Wendell Elvis Vaughn	293	NO	MALE
## 36		22	NO	FEMALE
## 37	DeMarr Davis	31	YES	MALE
## 38		7	NO	MALE
## 39	Doug Taggert	3	NO	MALE
## 40	Wade Wilson	575	NO	MALE
## 41	Peter Benjamin Parker	4333	YES	MALE
## 42	William Baker	355	NO	MALE
## 43	Eric Kevin Masterson	202	NO	MALE
## 44		50	NO	FEMALE
## 45	Anthony Edward Stark	27	NO	MALE
## 46	"Giulietta Nefaria"	18	NO	FEMALE
## 47	Jonathan Hart	126	NO	MALE
## 48	Veranke	159	NO	FEMALE
## 49	James "Logan" Howlett	3130	YES	MALE
## 50	Robert Reynolds	241	NO	MALE
## 51	Maya Lopez	67	NO	FEMALE
## 52	Cassie Lang	160	NO	FEMALE
## 53	Alias: Jonas	121	NO	MALE
## 54	Ares	236	NO	MALE
## 55	Sharon Carter	333	NO	FEMALE

## 56	Eric O'Grady	88	NO	MALE
## 57	Richard Rider	380	NO	MALE
## 58	Dennis Sykes	6	NO	MALE
## 59	Thaddeus Ross	417	NO	MALE
## 60	Ken Mack	59	NO	MALE
## 61	Humberto Lopez	66	YES	MALE
## 62	Otto Octavius	561	NO	MALE
## 63	Marcus Milton	65	YES	MALE
## 64	Shiro Yoshida	176	YES	MALE
## 65		24	YES	MALE
## 66		25	YES	FEMALE
## 67	Adam	35	YES	MALE
## 68	Kevin Kale Connor	44	YES	MALE
## 69	Victor Mancha	75	YES	MALE
##	Probationary.Introl Full.Reserve.Avengers.Intro	Year		
## 1		Sep-63	1963	
## 2		Sep-63	1963	
## 3		Sep-63	1963	
## 4		Sep-63	1963	
## 5		Sep-63	1963	
## 6		Mar-64	1964	
## 7		May-65	1965	
## 8		May-65	1965	
## 9		May-65	1965	
## 10		Sep-65	1965	
## 11		Nov-68	1968	
## 12		May-73	1973	
## 13		Aug-73	1973	
## 14	Jul-75	Sep-76	1976	
## 15	Nov-75	Sep-76	1976	
## 16		Aug-75	1975	
## 17	Apr-77	Jul-78	1978	
## 18	Apr-77	Mar-79	1979	
## 19		Jul-78	1978	
## 20	Jul-80	Nov-88	1988	
## 21		Jul-82	1982	
## 22	Jun-84	Sep-84	1984	
## 23		Nov-93	1993	
## 24		Jun-86	1986	
## 25		Nov-89	1989	
## 26		Jun-92	1992	
## 27		Dec-85	1985	
## 28	Jan-87	3-Feb	2003	
## 29		Apr-87	1987	
## 30		Dec-87	1987	
## 31		May-88	1988	
## 32		Nov-88	1988	
## 33		Jan-88	1988	
## 34		Feb-89	1989	
## 35		Oct-89	1989	
## 36		Jul-89	1989	
## 37		Jul-89	1989	
## 38		5-May	2005	
## 39		5-May	2005	

## 40		7-Sep 2007
## 41		Apr-90 1990
## 42	Feb-91	1900
## 43		Jan-92 1992
## 44		Jul-93 1993
## 45		Feb-96 1996
## 46		Apr-96 1996
## 47		1-Aug 2001
## 48		5-Mar 2005
## 49		5-Jun 2005
## 50		5-Oct 2005
## 51		5-Nov 2005
## 52		5-Jun 2005
## 53		6-Feb 2006
## 54		7-Mar 2007
## 55		10-May 2010
## 56		10-May 2010
## 57		10-May 2010
## 58		10-Sep 2010
## 59		11-Jun 2011
## 60		10-Aug 2010
## 61		10-Aug 2010
## 62		13-Jan 2013
## 63		13-Feb 2013
## 64		13-May 2013
## 65		13-Oct 2013
## 66		13-Oct 2013
## 67		13-Oct 2013
## 68		13-Oct 2013
## 69		13-Sep 2013

##	Years.since.joining	Honorary
## 1	52	Full
## 2	52	Full
## 3	52	Full
## 4	52	Full
## 5	52	Full
## 6	51	Full
## 7	50	Full
## 8	50	Full
## 9	50	Full
## 10	50	Full
## 11	47	Full
## 12	42	Full
## 13	42	Full
## 14	39	Full
## 15	39	Full
## 16	40	Full
## 17	37	Full
## 18	36	Full
## 19	37	Full
## 20	27	Full
## 21	33	Full
## 22	31	Full
## 23	22	Honorary

## 24	29	Full
## 25	26	Full
## 26	23	Full
## 27	30	Full
## 28	12	Full
## 29	28	Honorary
## 30	28	Full
## 31	27	Full
## 32	27	Honorary
## 33	27	Full
## 34	26	Full
## 35	26	Full
## 36	26	Full
## 37	26	Full
## 38	10	Full
## 39	10	Full
## 40	8	Full
## 41	25	Full
## 42	115	Probationary
## 43	23	Full
## 44	22	Honorary
## 45	19	Full
## 46	19	Honorary
## 47	14	Full
## 48	10	Full
## 49	10	Full
## 50	10	Full
## 51	10	Full
## 52	10	Full
## 53	9	Full
## 54	8	Full
## 55	5	Full
## 56	5	Full
## 57	5	Full
## 58	5	Full
## 59	4	Full
## 60	5	Academy
## 61	5	Academy
## 62	2	Full
## 63	2	Full
## 64	2	Full
## 65	2	Full
## 66	2	Full
## 67	2	Full
## 68	2	Full
## 69	2	Full
##		
## 1		
## 2		
## 3		
## 4		
## 5		
## 6		
## 7		

Death: "Later wh

8
 ## 9
 ## 10
 ## 11
 ## 12
 ## 13
 ## 14 Dies in Defen
 ## 15
 ## 16
 ## 17
 ## 18
 ## 19 The bad penny of the Marvel universe. First killed in Secret invasion. Revived during the Chaos w
 ## 20 From her article: Death1: "Defeated Ultron and reversed the process leaving Jocasta a mindless l
 ## 21
 ## 22
 ## 23
 ## 24
 ## 25
 ## 26
 ## 27
 ## 28 Died in Avenger
 ## 29 Shot with a Breathing gun and corpse
 ## 30 Killed by Namor with
 ## 31
 ## 32
 ## 33
 ## 34
 ## 35
 ## 36
 ## 37
 ## 38
 ## 39
 ## 40
 ## 41 Since joining the New Avengers: First death Killed
 ## 42
 ## 43 Became possessed d
 ## 44
 ## 45
 ## 46
 ## 47 First died in a zero energy expl
 ## 48
 ## 49
 ## 50
 ## 51 First death 'ha
 ## 52
 ## 53
 ## 54
 ## 55
 ## 56
 ## 57
 ## 58
 ## 59
 ## 60
 ## 61

```

## 62
## 63
## 64
## 65
## 66
## 67
## 68
## 69
##      Total.Deaths Total.Return
## 1             1           0
## 2             1           1
## 3             1           1
## 4             1           1
## 5             2           1
## 6             1           1
## 7             2           2
## 8             1           1
## 9             1           1
## 10            1           1
## 11            1           1
## 12            1           1
## 13            1           1
## 14            2           2
## 15            1           1
## 16            2           1
## 17            1           0
## 18            1           1
## 19            3           2
## 20            5           5
## 21            1           1
## 22            1           1
## 23            1           0
## 24            1           1
## 25            1           1
## 26            1           1
## 27            1           1
## 28            1           1
## 29            2           2
## 30            2           2
## 31            2           1
## 32            1           1
## 33            2           1
## 34            1           1
## 35            1           1
## 36            1           0
## 37            1           1
## 38            1           0
## 39            1           0
## 40            1           0
## 41            2           2
## 42            1           1
## 43            2           1
## 44            2           1
## 45            1           0

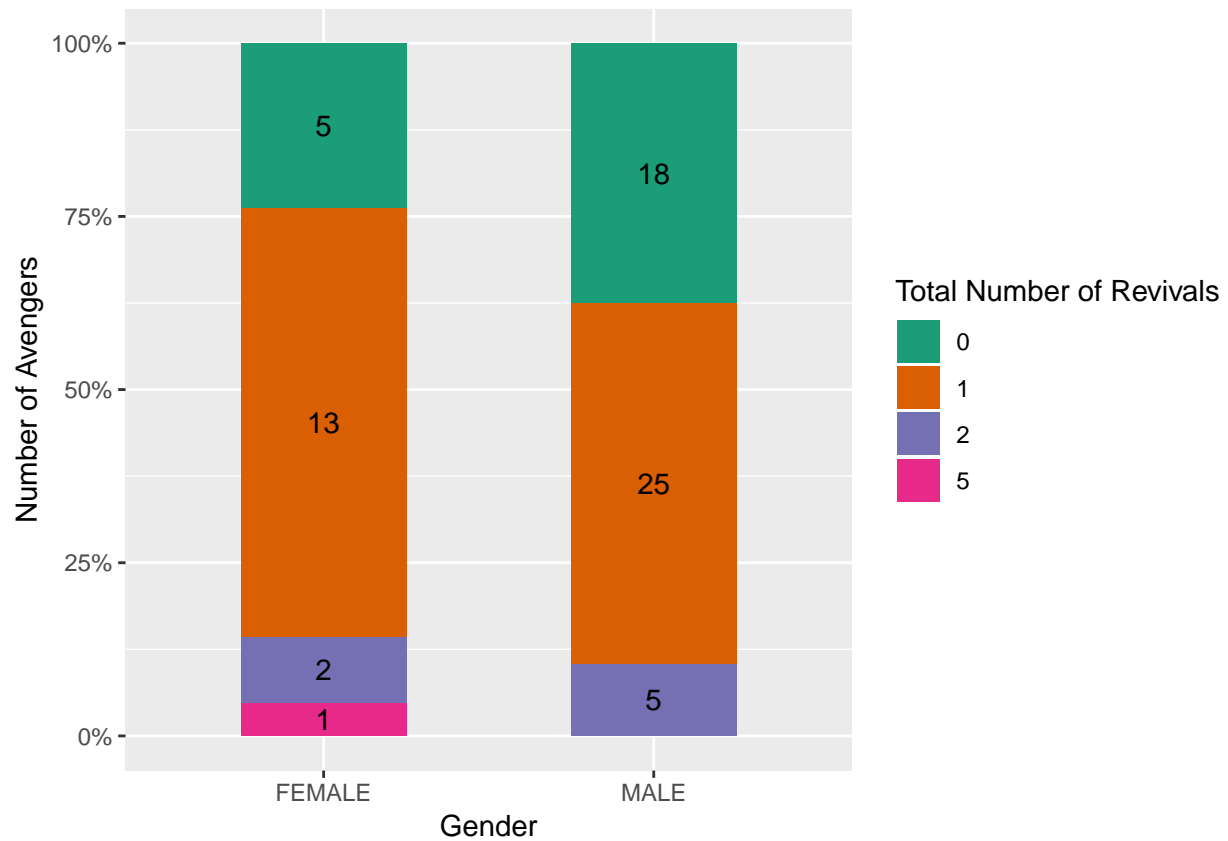
```

```
## 46      1      0
## 47      2      2
## 48      1      0
## 49      1      0
## 50      1      1
## 51      2      1
## 52      1      1
## 53      1      0
## 54      2      1
## 55      1      1
## 56      1      0
## 57      1      0
## 58      1      0
## 59      1      1
## 60      1      0
## 61      1      0
## 62      1      0
## 63      1      0
## 64      1      1
## 65      1      0
## 66      1      0
## 67      1      0
## 68      1      0
## 69      1      1
```

##Gender

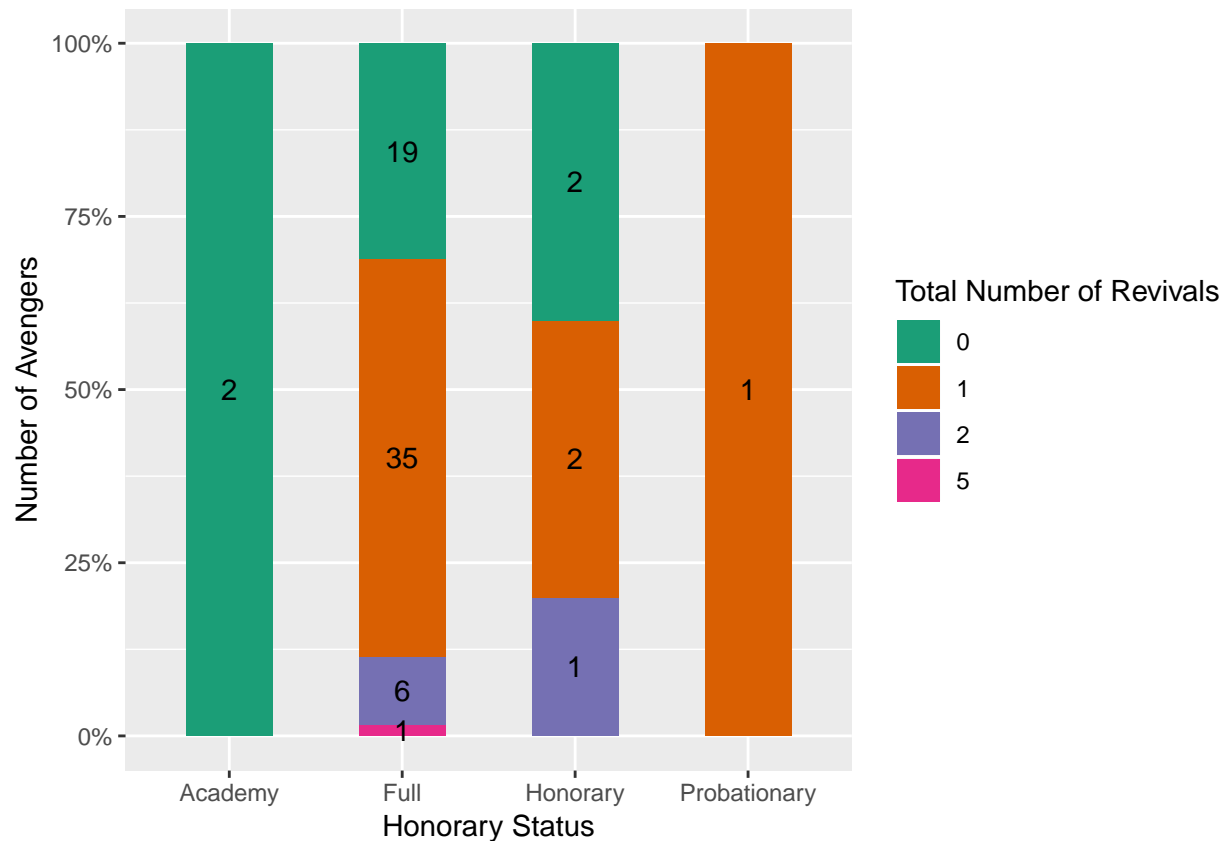
Let's start with Gender:

```
avengersThatDied_tidydf %>%
  select(Gender, Total.Return) %>%
  group_by(Gender, Total.Return) %>%
  summarize(NumberOfAvengers = n()) %>%
  ggplot(aes(x= Gender, y = NumberOfAvengers, fill = as.factor(Total.Return))) +
  geom_col(position = "fill", width = .5) +
  scale_fill_brewer(name = "Total Number of Revivals", palette = "Dark2") +
  geom_text(aes(label= NumberOfAvengers), position = position_fill(vjust=.5)) +
  xlab("Gender") +
  scale_y_continuous(name = "Number of Avengers", labels = scales::percent)##
```



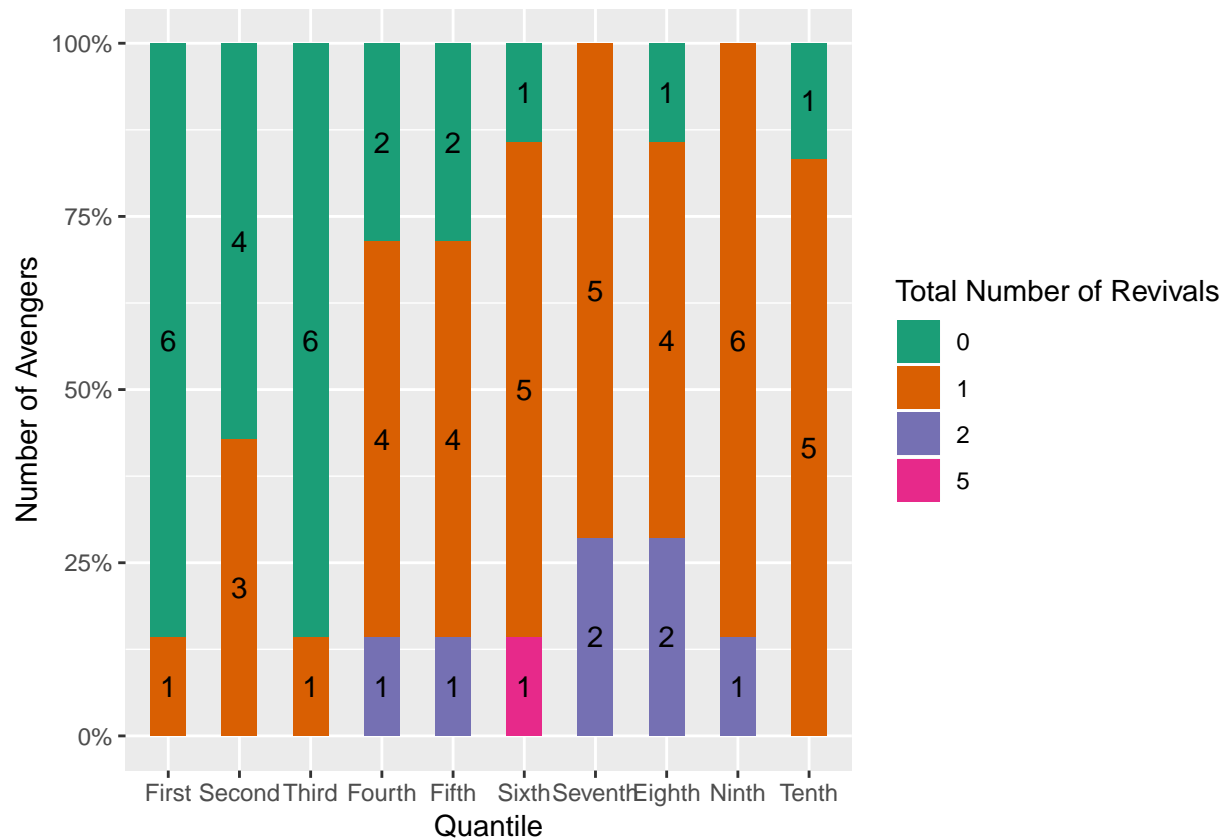
##Honorary Status

```
avengersThatDied_tidydf %>%
  select(Honorary, Total.Return) %>%
  group_by(Honorary, Total.Return) %>%
  summarize(NumberOfAvengers = n()) %>%
  ggplot(aes(x= Honorary, y = NumberOfAvengers, fill = as.factor(Total.Return))) +
  geom_col(position = "fill", width = .5) +
  scale_fill_brewer(name = "Total Number of Revivals", palette = "Dark2") +
  geom_text(aes(label= NumberOfAvengers), position = position_fill(vjust=.5)) +
  xlab("Honorary Status") +
  scale_y_continuous(name = "Number of Avengers", labels = scales::percent)#+
```

##Number of Years since joining the Avengers

```
avengersThatDied_tidydf %>%
  select(Years.since.joining, Total.Return) %>%
  arrange(Years.since.joining) %>%
  mutate(quartile = as.factor(ntile(Years.since.joining, 10))) %>%
  group_by(quartile, Total.Return) %>%
  summarize(NumberOfAvengers = n()) %>%
  ggplot(aes(x= quartile, y = NumberOfAvengers, fill = as.factor(Total.Return))) +
  geom_col(position = "fill", width = .5) +
  scale_fill_brewer(name = "Total Number of Revivals", palette = "Dark2") +
  geom_text(aes(label= NumberOfAvengers), position = position_fill(vjust=.5)) +
  scale_x_discrete(name= "Quantile" ,labels = c("First", "Second", "Third", "Fourth", "Fifth", "Sixth",
  scale_y_continuous(name = "Number of Avengers", labels = scales::percent)#+
```

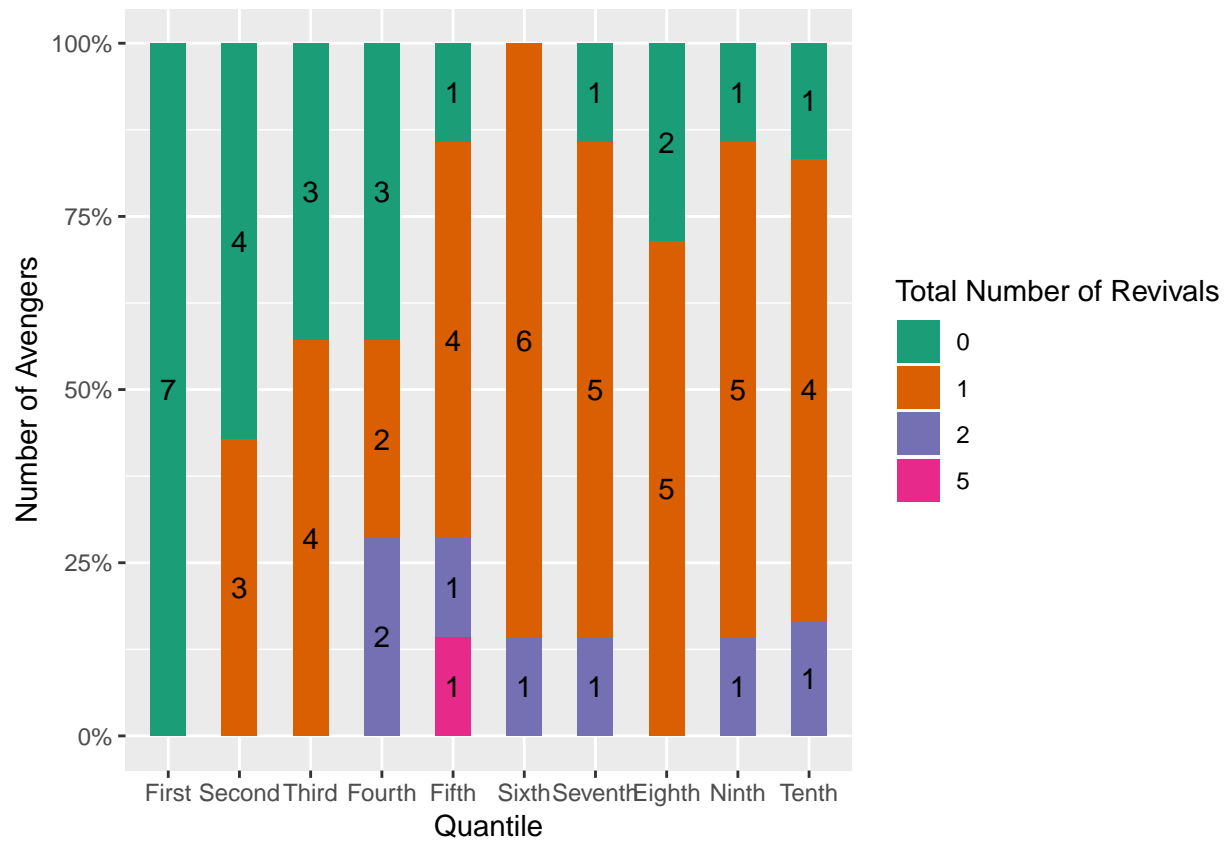


##Number of Appereances in comic books

```

avengersThatDied_tidydf %>%
select(Appearances,Total.Return) %>%
arrange(Appearances) %>%
mutate(quantile = as.factor(ntile(Appearances, 10))) %>%
group_by(quantile,Total.Return) %>%
summarize(NumberOfAvengers = n()) %>%
ggplot(aes(x= quantile, y = NumberOfAvengers, fill = as.factor(Total.Return))) +
geom_col(position = "fill", width = .5) +
scale_fill_brewer(name = "Total Number of Revivals", palette = "Dark2") +
geom_text(aes(label= NumberOfAvengers), position = position_fill(vjust=.5)) +
scale_x_discrete(name= "Quantile" ,labels = c("First", "Second", "Third", "Fourth", "Fifth", "Sixth",
scale_y_continuous(name = "Number of Avengers", labels = scales::percent)#+

```



#Question 3: Is the number of comic book appearances of a superhero correlated to the number of years since he joined the team?