

# Making sense of the Marvel Universe

```
> characters %>% pull(Allies) %>% head
```

```
[[1]]
```

```
[1] "Rafael_Scarfe" "Claire_Temple" "Colleen_Wing" "Karen_Page" "Luke_Cage" "Jessica_Jones" "Daredevil" "Iron_Fist"
```

```
[[2]]
```

```
[1] "Iron_Man" "Black_Widow" "War_Machine" "Vision" "Black_Panther" "Happy_Hogan"
```

```
[[3]]
```

```
[1] "Heimdall" "Volstagg" "Fandral" "Hogun" "Thor" "Valkyrie" "Loki" "Hulk" "Korg" "Miek"
```

```
[[4]]
```

```
[1] "Captain_America" "Scarlet_Witch" "Hawkeye" "Iron_Man" "Black_Widow" "Vision" "War_Machine"
```

```
[8] "Nick_Fury" "Maria_Hill" "Ant-Man" "Winter_Soldier" "Sharon_Carter"
```

```
[[5]]
```

```
[1] "Nick_Fury" "Maria_Hill" "Victoria_Hand" "Jasper_Sitwell" "Phil_Coulson" "Melinda_May" "Leo_Fitz"
```

```
[8] "Jemma_Simmons" "Grant_Ward" "John_Garrett" "Antoine_Triplett" "Watchdog_Alpha" "Giyera"
```

```
[[6]]
```

```
[1] "Punisher"
```

# Making sense of the Marvel Universe

```
> characters %>%  
+   pull(Allies) %>%  
+   set_names(characters$id) %>%  
+   as_tbl_graph()  
# A tbl_graph: 475 nodes and 1287 edges  
#  
# A directed multigraph with 149 components  
#  
# Node Data: 475 x 1 (active)  
#   name  
#   <chr>  
1 A.I.M._President  
2   Abilisk  
3   Abomination  
4   Absorbing_Man  
5   Abu_Bakaar  
6   Adolf_Hitler  
# ... with 469 more rows  
#  
# Edge Data: 1,287 x 2  
#   from    to  
#   <int> <int>  
1     4    350  
2     4    298  
3     4     78  
# ... with 1,284 more rows
```