

Making sense of the Marvel Universe

```
> characters %>% pull(Appearance) %>% head
[[1]]
[1] "Luke Cage"      "Iron Fist"      "The Defenders"

[[2]]
[1] "Iron Fist"      "Iron Man 2"      "Ant-Man"      "Captain America: Civil War"
[5] "Spider-Man: Homecoming" "Avengers: Infinity War" "Avengers 4"      "Spider-Man 2"
[9] "Watch the Game"

[[3]]
[1] "Thor: Ragnarok"

[[4]]
[1] "Captain America: The Winter Soldier" "Avengers: Age of Ultron"      "Ant-Man"
[4] "Captain America: Civil War"      "Avengers: Infinity War"      "WHiH Newsfront"

[[5]]
[1] "Agents of S.H.I.E.L.D."

[[6]]
[1] "Agents of S.H.I.E.L.D." "Daredevil"      "The Punisher"
```

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```
> characters %>%
+   transmute(Appearance = map(Appearance, function(x) {
+     x <- unique(x)
+     if (length(x) == 1 && is.na(x)) return(tibble(Thor = NA))
+     do.call(tibble, structure(as.list(rep(1, length(x)))), names = x))
+   })) %>%
+   unnest() %>%
+   mutate_all(~ . %| % 0) %>%
+   as_tbl_graph()
# A tbl_graph: 475 nodes and 17654 edges
#
# An undirected multigraph with 61 components
#
# Node Data: 475 x 0 (active)
#
# Edge Data: 17,654 x 3
  from   to weight
  <int> <int> <dbl>
1     1     1     3
2     1     2     1
3     1     8     1
# ... with 1.765e+04 more rows
```