Making sense of the Marvel Universe

```
> 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
```

www.data-imaginist.com/slides/rstudioconf2018/

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"
```