

Making sense of the Marvel Universe

```
> Reduce(graph_join, list(affinity_graph, appearance_graph, allies_graph, enemies_graph, family_graph))
Joining, by = "id"
Joining, by = "id"
Joining, by = "id"
Joining, by = "id"
# A tbl_graph: 475 nodes and 25813 edges
#
# A directed multigraph with 6 components
#
# Edge Data: 25,813 x 4 (active)
  from    to weight    class
  <int> <int> <dbl>    <chr>
1     1     1      1 Affiliation
2     1    157      1 Affiliation
3     1    187      1 Affiliation
4     1    314      1 Affiliation
5     1    341      1 Affiliation
6     1    438      1 Affiliation
# ... with 2.581e+04 more rows
#
# Node Data: 475 x 1
      id
    <chr>
1 Misty_Knight
2  Spider-Man
3 Executioner
# ... with 472 more rows
```

The activate() verb

```
marvel_graph %>%
  activate(edges) %>%
  mutate(weight = weight %|% 1) %>%
  activate(nodes) %>%
  left_join(characters)
# A tbl_graph: 475 nodes and 25813 edges
#
# A bipartite multigraph with 6 components
#
# Node Data: 475 x 23 (active)
      id      characters      `characters-href`  type      `Real Name` `Alias(es)`
  <chr>    <chr>          <chr> <chr>      <chr>      <list>
1 Misty_Knight Misty Knight http://marvelcinematicuniverse.wikia.com/wiki/Misty_Knight Hero Mercedes Kelly Knight <chr [8]>
2 Spider-Man   Spider-Man   http://marvelcinematicuniverse.wikia.com/wiki/Spider-Man   Hero Peter Benjamin Parker <chr [25]>
3 Executioner  Executioner  http://marvelcinematicuniverse.wikia.com/wiki/Executioner  Both          Skurge    <chr [3]>
4 Falcon      Falcon      http://marvelcinematicuniverse.wikia.com/wiki/Falcon      Hero Samuel Thomas Wilson <chr [2]>
5 Felix_Blake  Felix Blake  http://marvelcinematicuniverse.wikia.com/wiki/Felix_Blake  Both          Felix Blake <chr [1]>
6 Micro       Micro       http://marvelcinematicuniverse.wikia.com/wiki/Micro       Hero David Linus Lieberman <chr [2]>
# ... with 469 more rows, and 17 more variables: Species <chr>, Citizenship <list>, Gender <chr>, `Title(s)` <list>, Affiliation <list>,
# Status <chr>, `TV series` <list>, `Portrayed by` <list>, Age <chr>, `Date of Birth` <chr>, Movie <list>, `Web series` <list>, `Date of
# Death` <chr>, Family <list>, Allies <list>, Enemies <list>, Appearance <list>
#
# Edge Data: 25,813 x 4
      from    to weight      class
  <int> <int> <dbl>    <chr>
1     1     1     1 Affiliation
2     1    157     1 Affiliation
3     1    187     1 Affiliation
# ... with 2.581e+04 more rows
```