

```

# create subgraphs for each community
subgraph <- induced_subgraph(friends_graph, v =
which(friends_graph$community == i))

# for larger communities
if (igraph::gorder(subgraph) < 20) {
  # get degree
  degree <- igraph::degree(subgraph)

  # get top ten degrees
  top <- names(sort(degree, decreasing = TRUE))

  result <- data.frame(community = i, rank = 1:length(top),
character = top)
} else {
  result <- data.frame(community = NULL, rank = NULL, character =
NULL)
}

small_communities <- small_communities %>%
  dplyr::bind_rows(result)
}

knitr::kable(
  small_communities %>%
    tidyr::pivot_wider(names_from = rank, values_from = character)
)

```

community	1	2	3	4	5	6	7	8
5	Intercom	Mr Heckles	Luisa	Woman No. 1	Woman No. 2	Amber	Dr Horton	Dr Remore
2	Bandleader	Dennis Phillips	Ashley	Fat Girl	Gert	Little Girl	Second Girl	Funny

Interestingly our algorithm appears to have picked up on a couple of specific episodes and regarded scenes inside them as disconnected networks of their own.

- The first of these communities appears to be from *The One Where Dr Remore Dies*
- The second appears to be from *The One After I Do*

*Originally I was a Pure Mathematician, then I became a Psychometrician and a Data Scientist. I am passionate about applying the rigor of all those disciplines to complex people questions. I'm also a coding geek and a massive fan of Japanese RPGs. Find me on [LinkedIn](#) or on [Twitter](#). Also check out my blog on [drkeithmcnulty.com](https://drkeithmcnulty.com).*