

Social Network: Reddit Hyperlink Network (<https://snap.stanford.edu/data/soc-RedditHyperlinks.html>)

The hyperlink network represents the directed connections between two subreddits (a subreddit is a community on [Reddit](#)). We also provide subreddit embeddings. The network is extracted from publicly available Reddit data of 2.5 years from Jan 2014 to April 2017.

Subreddit Hyperlink Network: the subreddit-to-subreddit hyperlink network is extracted from the posts that create hyperlinks from one subreddit to another. We say a hyperlink originates from a post in the source community and links to a post in the target community. Each hyperlink is annotated with three properties: the timestamp, the sentiment of the source community post towards the target community post, and the text property vector of the source post. **The network is directed, signed, temporal, and attributed.**

This particular graph is a subset of the data, all transactions with a timestamp during the year 2015.

Using soc-redditHyperlinks-body-2015.star, answer the following questions using the selection tools found on the top toolbar or via the Selection Menu:

1. What is a singleton?
2. How many singletons are on the graph?
3. What is a pendant?
4. How many pendants are on the graph?
5. What is a source?
6. How many sources are on the graph?
7. Which source has the highest neighbour count?
8. What is a sink?
9. How many sinks are on the graph?
10. What is a loop?
11. Are there any loops in this graph?
12. How many nodes are in the backbone of the graph?
13. What is a shortest path?
14. Identify three ways to search for and select specific nodes on the graph?
15. Find the subreddits homeseecurity and smarthome. Use blazes to highlight them. What nodes fall on the shortest path between the two blazed nodes?