Analysis of Social and Information Networks

Chapter 1 and 2

Reddit.com: the frontpage of the Internet

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- **Reddit is a website where users can share links to images, blogs, videos, GIFs, etc. and comment on these links**

- **Every signed user can vote on content:**
  - The more upvotes a link/comment has, the higher up it is displayed
  - Downvoted content is pushed further down on the webpage

- **A user-moderated hub for news, hobbies, communities, questions,...**

  https://www.youtube.com/watch?v=tlI022aUWQQ

Subreddits

- **Subreddits are a smaller community contained in the reddit website**

- **Usually oriented towards one specific topic of interest**
  - r/asoiaf
  - r/TodayILearned
  - r/gaming
  - r/DungeonsAndDragons
  - r/DataIsBeautiful
  - r/Gephi

The Reddit Comment Database

dataset | I have every publicly available Reddit comment for research. ~ 1.7 billion comments @ 250 GB compressed. Any interest in this? self.datasets

Submitted 2 years ago * by Stuck_In_the_Matrix - pushshift.io ⭐x2

- **Complete dataset of reddit comments, divided by month, since October 2007**
  - Author name
  - Body of comment
  - Score
  - Thread
  - Subreddit
  - Timestamp
  - …

The Subreddit Graph

- **Nodes represent a subreddit, with attributes:**
    - Number of comments
    - Number of unique comment authors
- **Edges connect subreddits:**
    - Undirected connection
    - Edge weight corresponds to the number of shared authors between the communities

Comment processing was done with Python

Graph analysis was done with Gephy
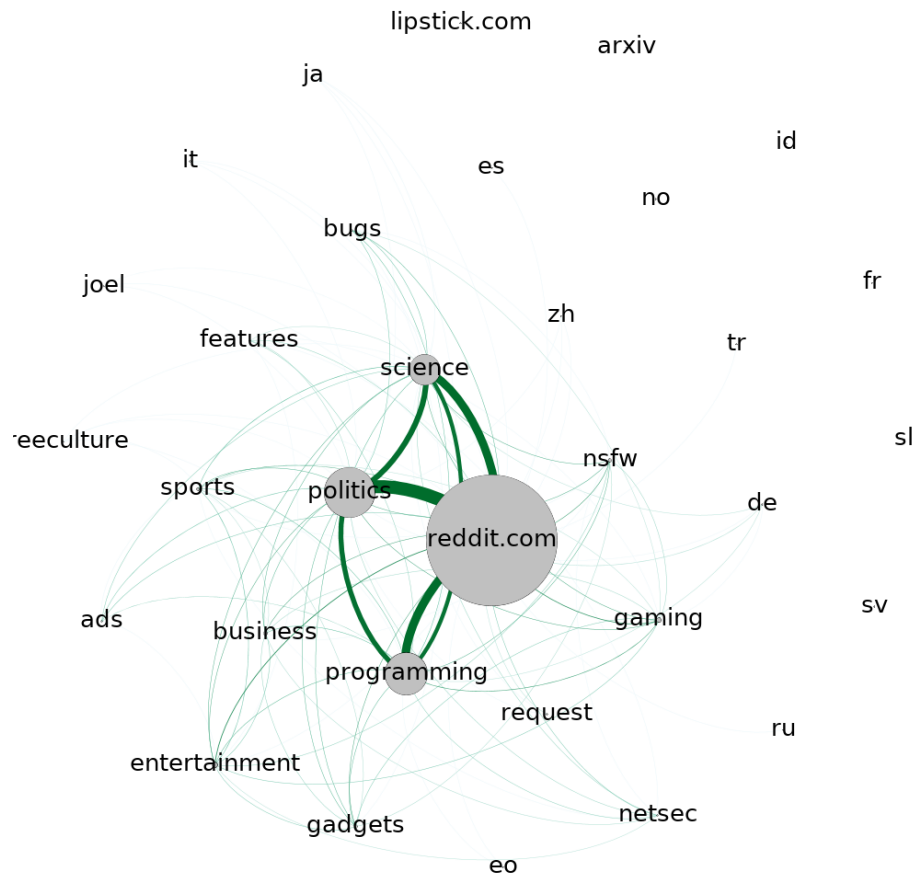
- **32 subreddits**
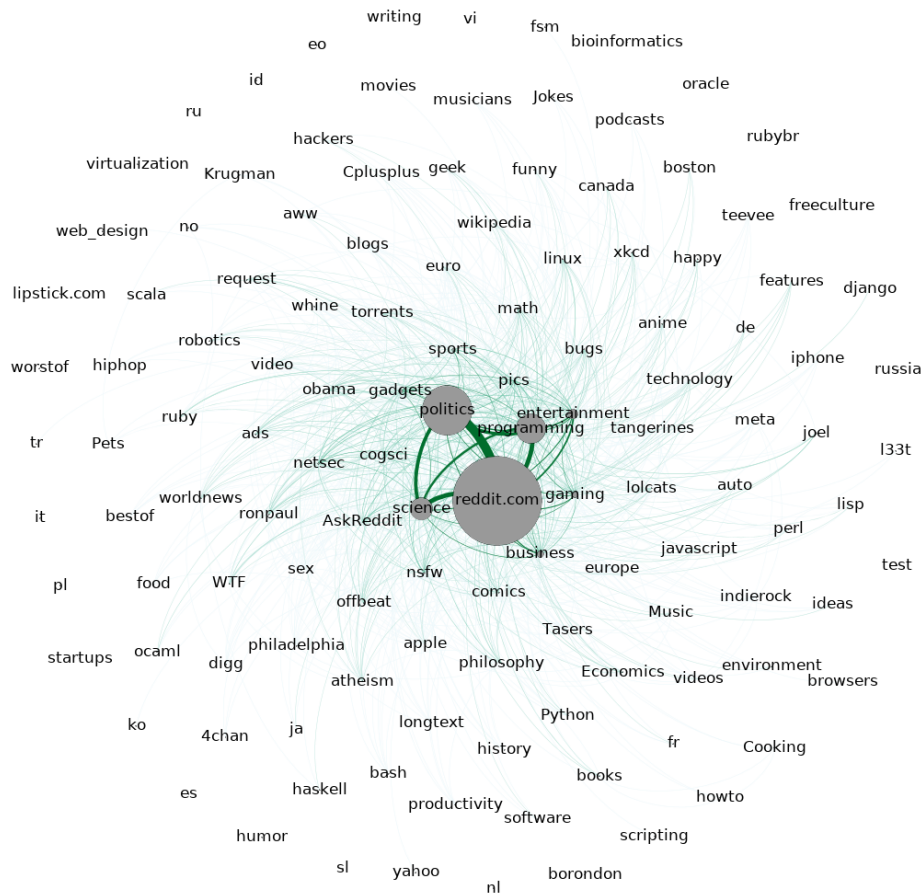- **104 connections**

- **The main page of reddit was a separate subreddit back then. Today it's a collection of links from all subreddits.**

Subreddit Graph for January 2008

- **126 subreddits**
- **856 connections**

- **Boom of subreddits, but still 4 central:**
  - Reddit.com
  - Politics
  - Science
  - Programming

Subreddit Graph for July 2009

- **1686 subreddits**
- **60733 connections**

- **A dozen subreddits start to gain more popularity**