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# 'Chive

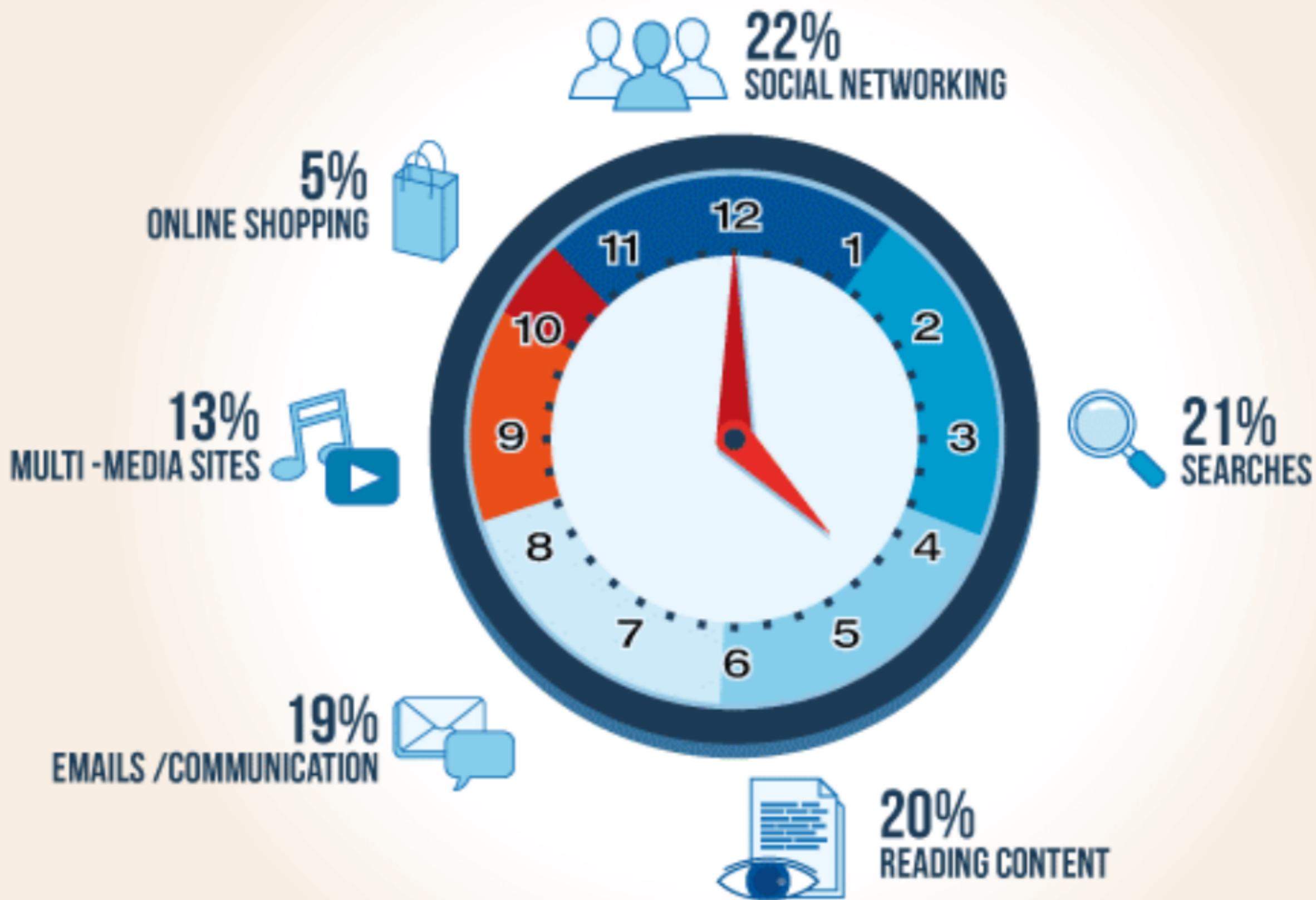
***Scroll Less. Read More***  
Collin Stedman, Erik Portillo,  
Jennie Werner, Jeffery Yan, Glenna Yu

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Great minds **discuss** ideas, average minds **discuss** events,  
small minds **discuss** people.

*—Eleanor Roosevelt*

# HOW PEOPLE SPEND THEIR TIME



*What makes us better than all those other sites*

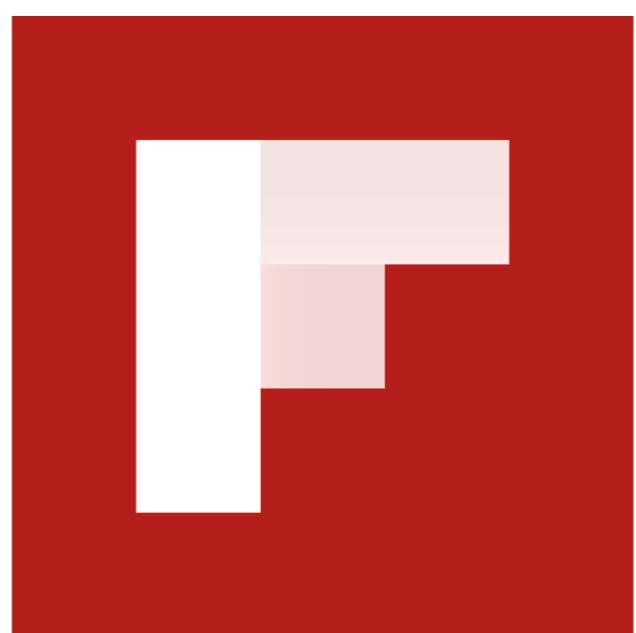
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## Motivation

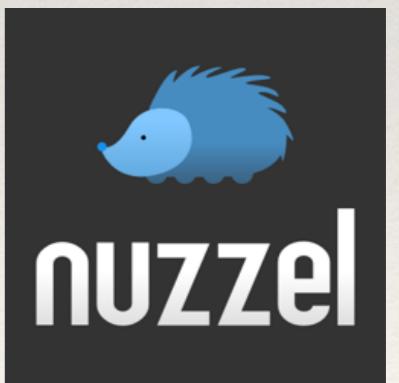
Social media sites: overloading content

Content sites: lack social component

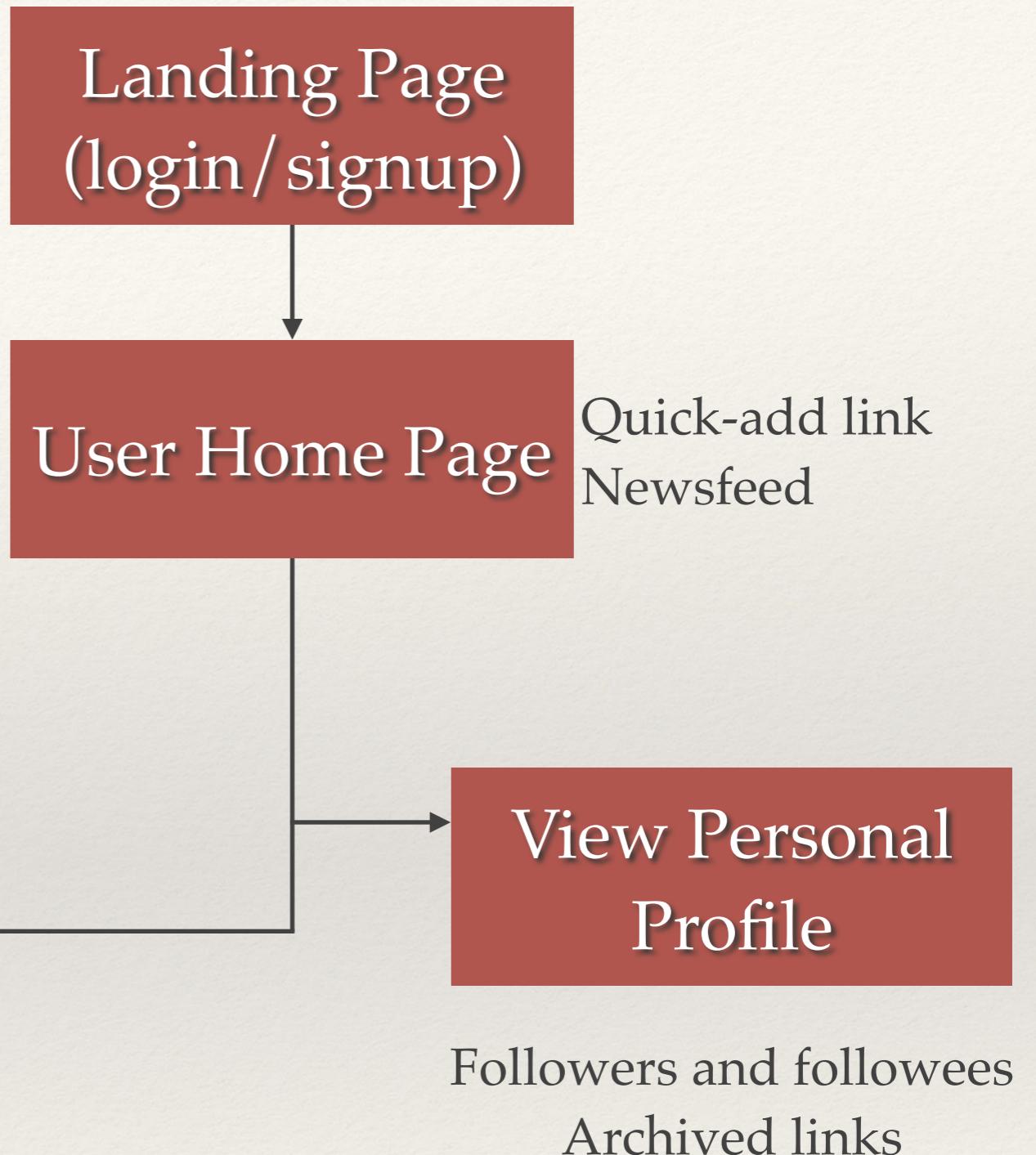
**'Chive: best of both worlds**



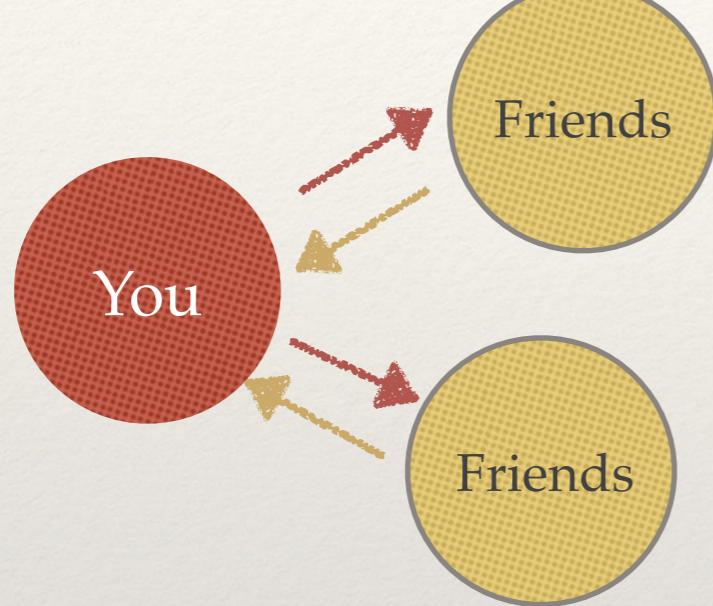
**Flipboard**



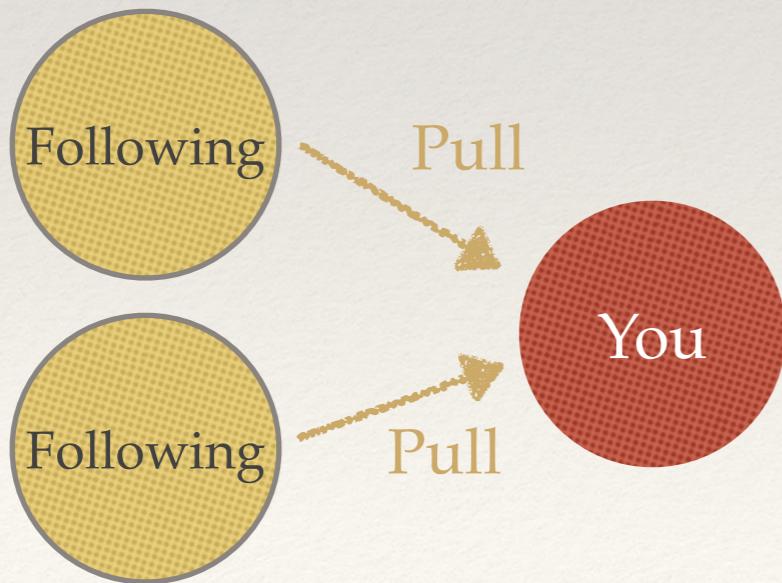
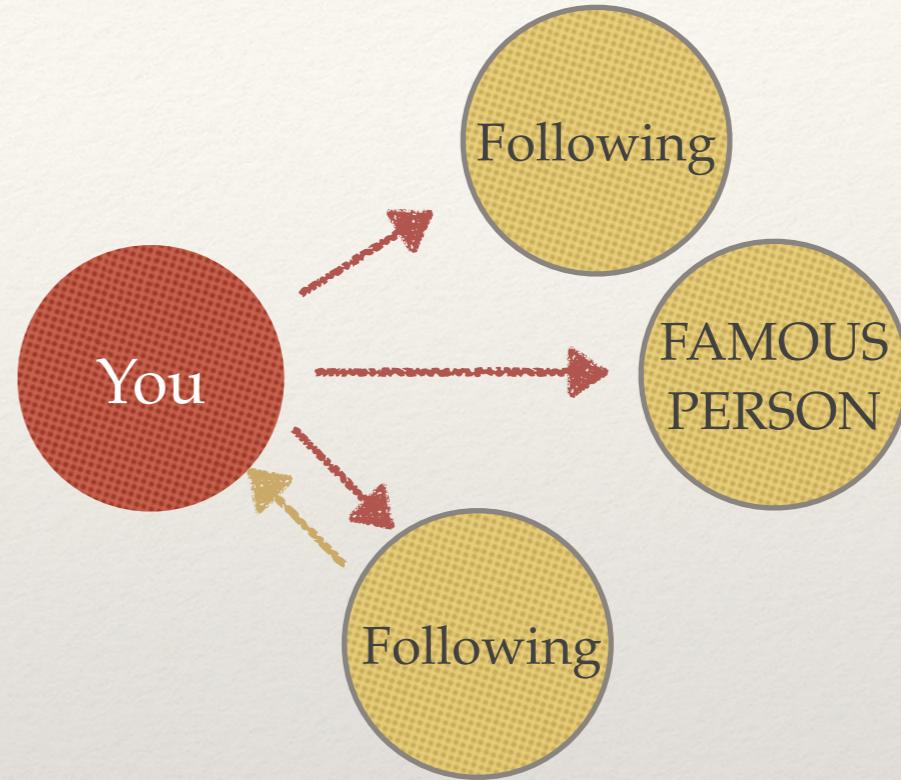
# System Overview



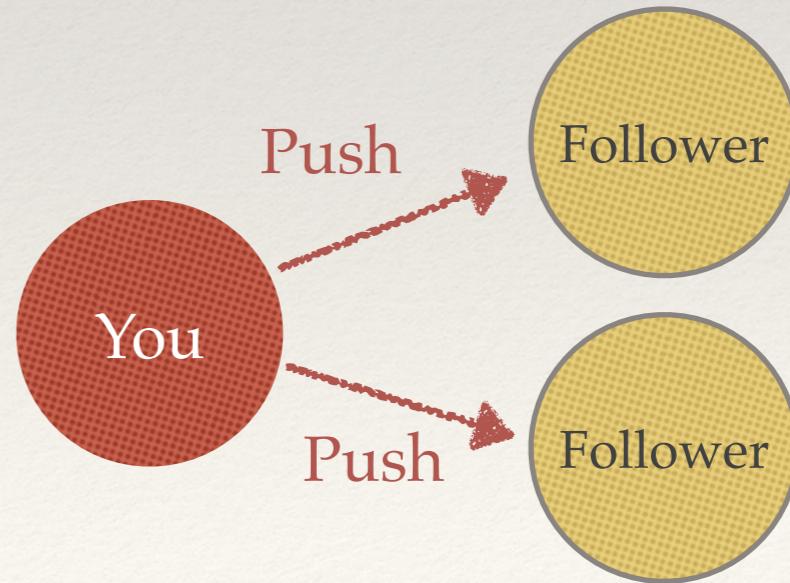
# Design Decisions



vs.



vs.



## Frontend

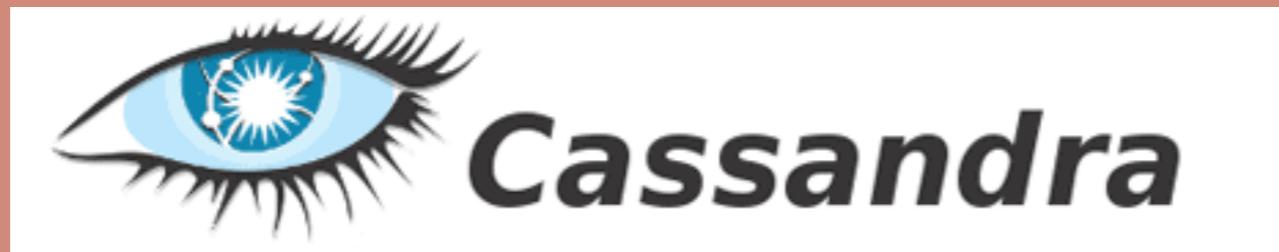


## Backend



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- Express** | Web application framework
  - Passport** | Authentication (and Facebook!)
  - Busboy & Knox** | Amazon s3 (profile images)
  - Express-Mailer** | E-mail verification
  - Cheerio** | Web scraper
  - React** | Real-time commenting

## Database



- High scalability
- NoSQL (not just relational)
- Linear read and write throughput
- Decentralized

# Database Schema

- ❖ Different Database Tables:
  - ❖ Comments
  - ❖ Followees / Followers
  - ❖ Global Links
  - ❖ Timeline
  - ❖ URL to Links
  - ❖ User Link ID to User
  - ❖ User Links
  - ❖ Users



- ❖ Problems We Encountered:
  - ❖ Users Table: problems with iteration
  - ❖ Organization
  - ❖ Clustering

# Bells. Whistles. Other Cool Features.

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- ❖ **HTTPS security**
- ❖ **Scraper**
- ❖ Passport authentication
- ❖ Email verification
- ❖ Amazon s3
- ❖ Facebook login
- ❖ Comments
- ❖ Flash messages



*Somewhere over the rainbow...*

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## For the Future

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- Ranking  $\frac{1}{\mu}$   $\mu = \text{time since last share}$
- Recommendations
- Searchable tags