Modeling community resources
Motivation

- People meet in (virtual) communities
  - Often these communities evolved around certain topics

- People often exchange knowledge in these communities
  - Forums
  - Question/Answer sites
  - ...
Motivation

- Some of these sites are very big or popular
  - They have lots of users
  - They store a lot of knowledge
  - Knowledge often under a Creative Commons License

- It would be great if we could use these knowledge shelters
Motivation

- In order to use them, we need to understand them
  - Best way to understand them: Create a model
- Let’s take a look at StackOverflow and Github
StackOverflow
StackOverflow

- Deals with a wide range of computer programming topics
- Uses a Question/Answer format
  - Users posts Questions
  - Other Users post Answers
  - Both can have Comments
- Normally a site has one question and multiple answers
- Special sites have multiple questions
Questions can relate to other questions

The Questioner can select one answer as the best one

Users can vote for good posts
  - Authors of good posts receive Reputation points by that
StackOverflow
StackOverflow uses „Gamification“ to motivate Users

Users can earn Badges

StackOverflow uses Tags for Sites to categorize them
StackOverflow
Github
Web based hosting service for Git revision control system

Slogan: „Social Coding (for all)“

„Social Network“ is created through distributed revision control
- Projects are forked and merged
Repositories store Files

Special kinds of repositories are Braches, Forks and Gists

Users can own a repo and belong to organizations

They can also follow other Users, observe an repository
Github
Github

- When Users want to reintegrate their forks, they issue Pull requests
- Pull requests can be commented on
- Certain Events are associated with Pull requests
Repositories also have an Issue System

- Issues have a due date and relate to each other
- They are assigned to a User
- Certain Events are associated with an Issue

Repositories also have an associated Wiki
Github