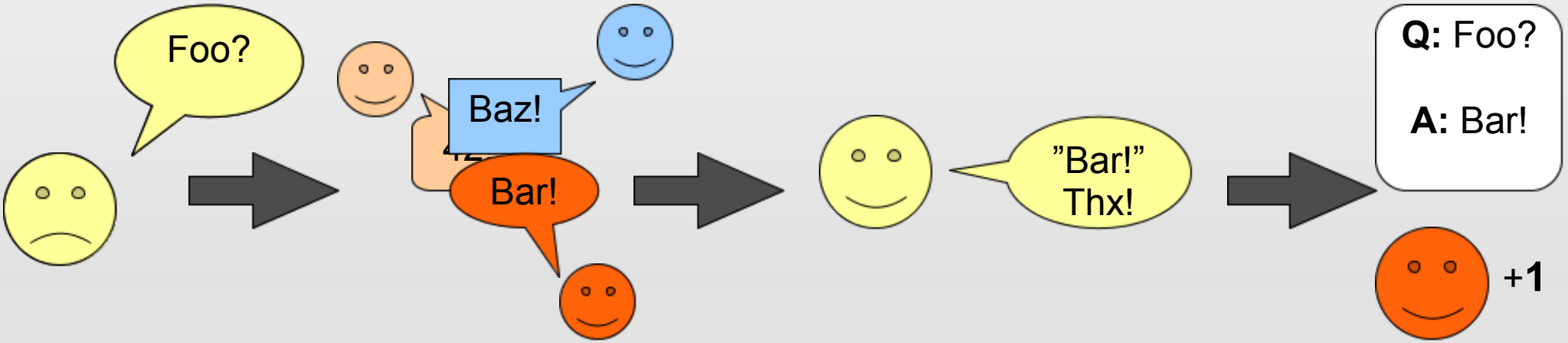
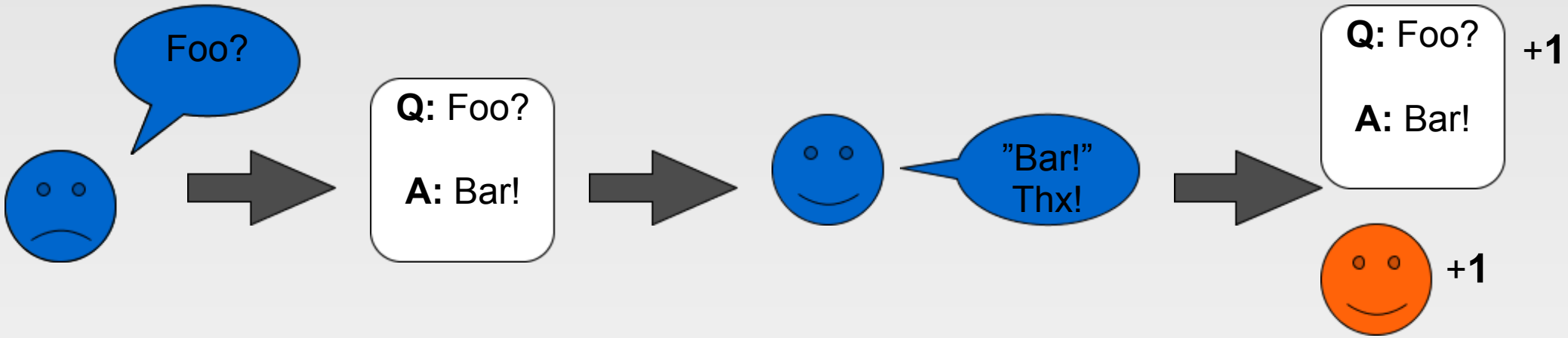
tjTalk School Question Forum

Project Proposal

Filip Sufitchi

”School Question Forum”?





Objectives

- Free and open-source school question forum
- Extremely easy to use and intuitive
- Will implement AI for:
  - Searching the Question DB
  - Finding the right place in the DB for new questions
  - Recommending answerers for questions (maybe)
- Written in Zope 3 open source application platform
  - Composed of Python, XML, ZPT

Techniques

- eXtreme Programming (XP)
  - Do what users ask for – user stories
  - Always test substantial materials
  - Use tests to eliminate bugs
- Testing
  - Zope functional and unit testing

Resources

- SchoolTool
  - Free and open-source school information system
  - Written in Zope 3
  - tjTalk depends on and is a module of SchoolTool
- Launchpad (www.launchpad.net)
  - Online project management
  - www.launchpad.net/tjtalk
  - Used for: Bazaar source repository, bug tracking, blueprints (user stories)

User Stories (so far)

- By Me – Trunk Project
  - Question forum functionality **Complete!**
  - Artificial Intelligence via upward tree propagation of word count **In Progress**
- By Jeffrey Elkner (www.launchpad.net/~jelkner)
  - Integrate tjTalk into SchoolTool **Done!**
  - Feature to turn a student's ”helpfulness” in a specific subject/topic into a grade recorded in the SchoolTool Gradebook **Pushed to ST team dev**

Searching the Forum

1. Word counts for questions and answers
2. Weights generated for individual questions
3. Weights propagated through the question containers up to the root of the question tree
4. The root then knows which directions are most likely to satisfy user queries based on the word counts it has - propagating relevancy ratings for all the sections back up the tree, then ranking all the questions based on their relevance

Final Objective

Deployment At

TJHSST

Arlington Career Center

General Use on the Internet?