

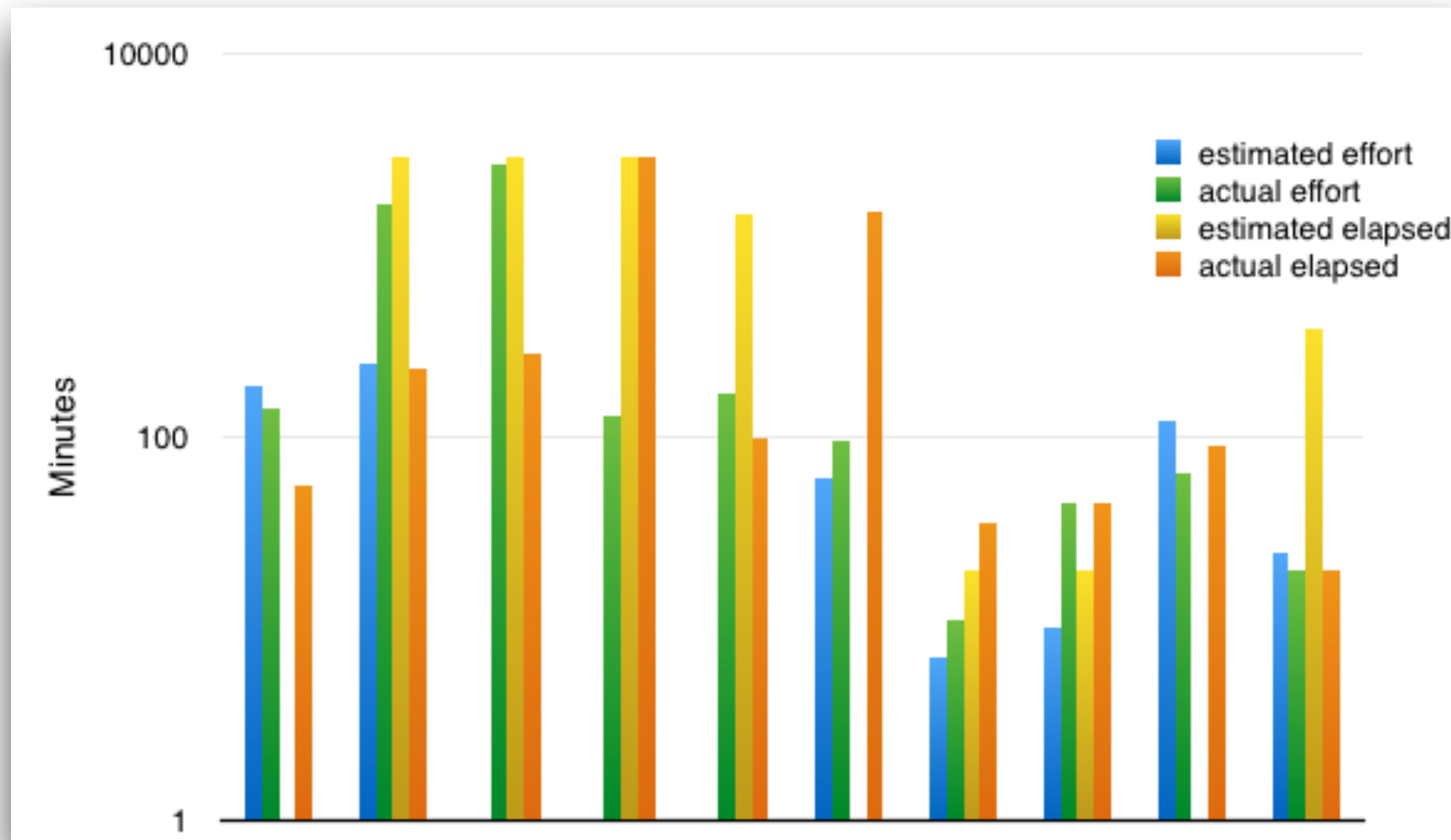
Software Project Management Tools

Software Engineering

CS 130

Donald J. Patterson

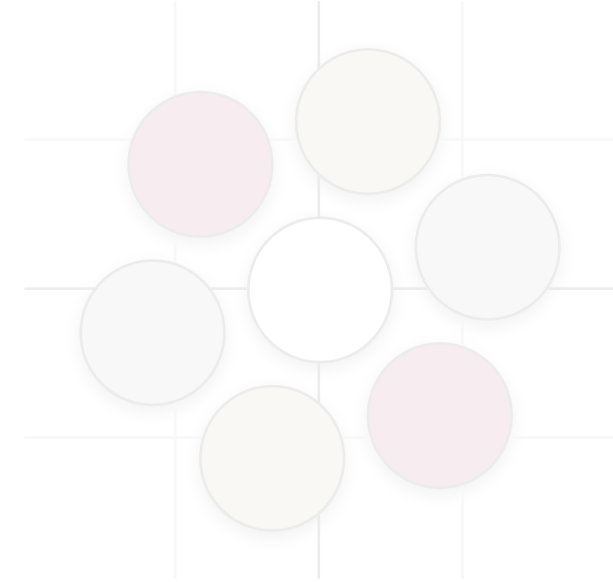
Content adapted from Essentials of Software
Engineering 3rd edition by Tsui, Karam, Bernal
Jones and Bartlett Learning



- **effort estimate:**
 - 220 minutes low
(on average)
- **elapsed estimate:**
 - 986 minutes high
(on

- **ideal time or effort:** straight through with no interruptions
 - units: e.g., person-hours, person-days, etc.
- **elapsed time or duration:** actual calendar time including everything
 - units: e.g., days, weeks, etc.

- Friend stopped by interrupted me.
- Had to go to the ER
- Distracted by thing near me
- Lot of problems converting strings to text
- Test files changed, set me back
- sleep
- needed to clarify assignment
- chatting with roommate
- bug fix
- getting help
- sleep
- other homework
- I needed to work on other hw



Software Project Management Tools



We are going to compare two tools

Pivotal Tracker
Wrike

SAY HELLO TO THE NEW
PIVOTAL TRACKER

SEE FEATURES



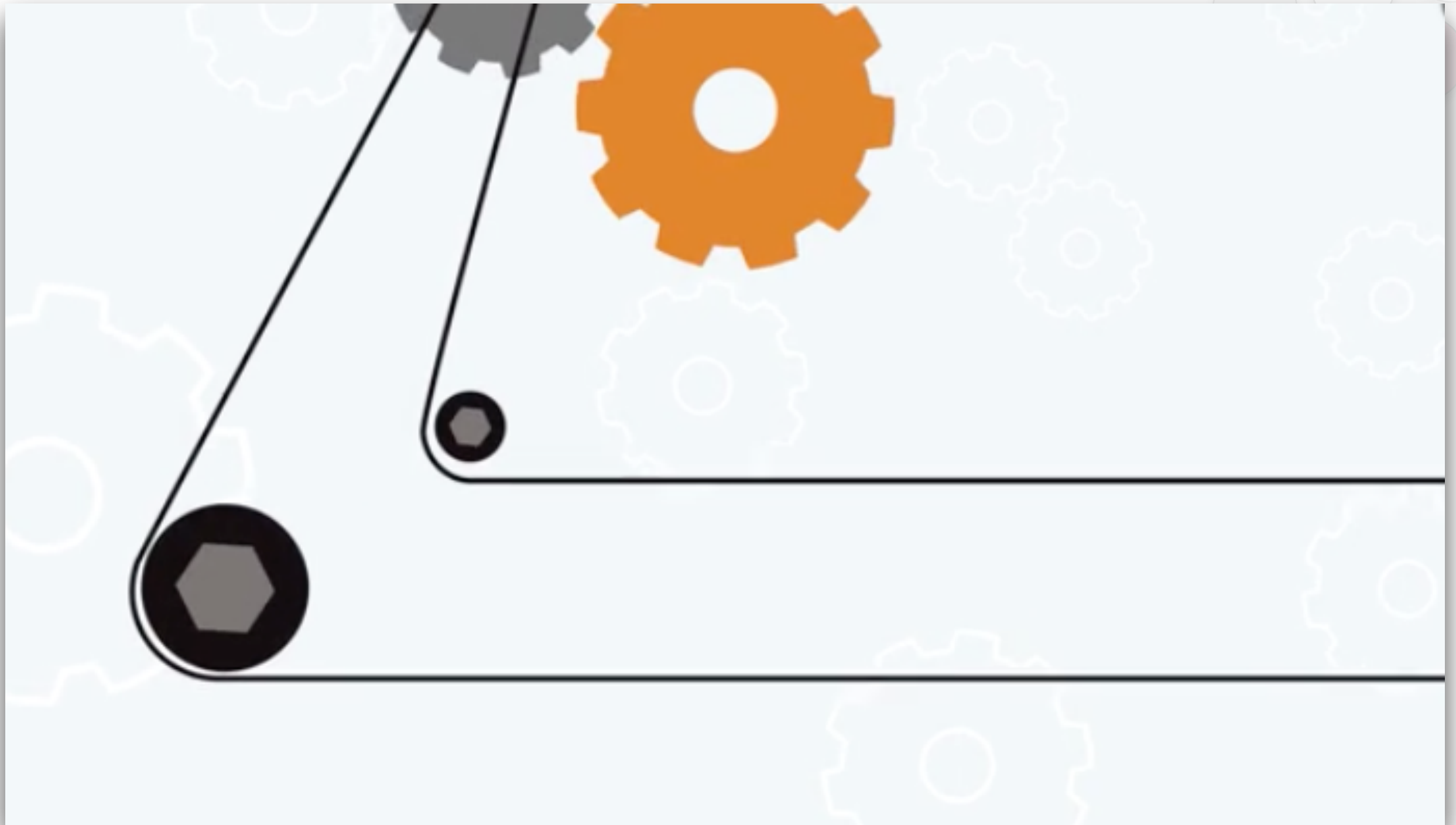
BUILD
BETTER
SOFTWARE
FASTER

- Faster, more flexible UI
- Side-by-side backlogs
- Cross-project collaboration

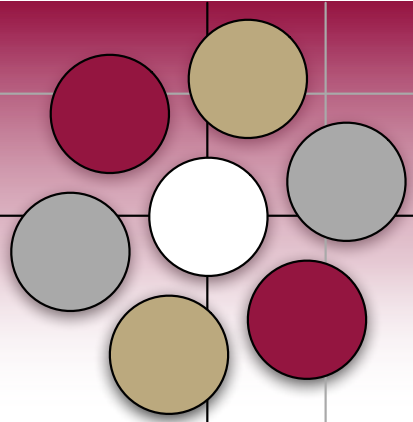
30-Day Free Trial

GET TRACKING →

Motivation



Software Project Management Tools



Set up an account

UI/Concept overview

The screenshot displays the Pivotal Tracker web application for the project "Burrito Finder iOS Alpha". The interface is organized into several sections:

- Header:** Includes the project name "Burrito Finder iOS Alpha", a search bar, and links for "HELP & UPDATES" and "BURRITOLIFEPM".
- Sidebar:** Contains navigation options such as "Add Story", "Provide Feedback On The Beta", "My Work", "Current/Backlog", "Icebox", "Done", "Epics", "Labels", "Charts", and "Project History".
- Main Content Area:** Divided into two columns:
 - Current/Backlog:** Displays a list of user stories and tasks. The first section is for "28 Sep - Current" (0 points) and includes stories like "When a burrito in my favorite list offers me a special, user gets a push notification" and "Set up Travis-CI build". The second section is for "5 Oct" (5 points) and includes stories like "When user receives a certain number of ironic/helpful/boring votes, they get a badge added to My Profile" and "Nothing works on iOS8".
 - Icebox:** Displays two items: "When more than 3 salsas, layout of profile view is broken" and "Chips and salsa style dropdown broken".

A video player overlay is visible at the bottom of the screen, showing a progress bar and a timestamp of 0:09.

Writing Stories



Writing Stories

See where and how to add concrete, verifiable stories to start your project off right.

Software Project Management Tools



Make a story

Estimate Complexity



Prioritizing and Estimating Complexity

Which is the most important story, and how complex is it? Learn tips for estimating your stories.

Software Project Management Tools



Everyone estimate how many points the stories
are

Developing Stories



Delivering Stories

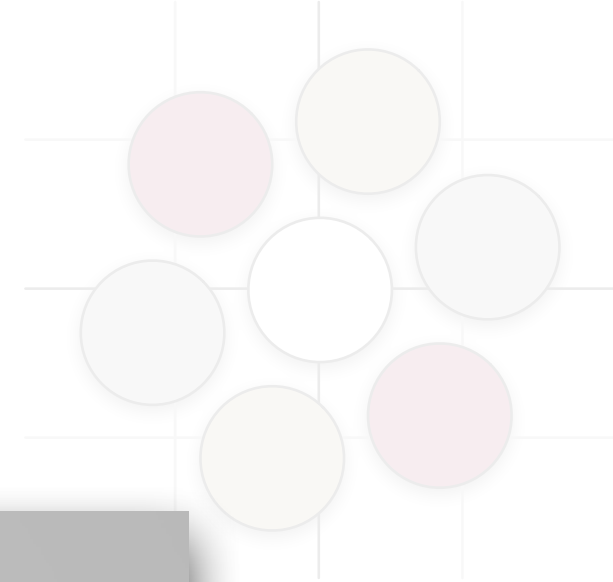
See how stories go through a collaborative process, as they move towards completion.

Software Project Management Tools



- Accept a story
- Create some dialog around it
 - Notify each other in comments
 - add tags
 - attachments

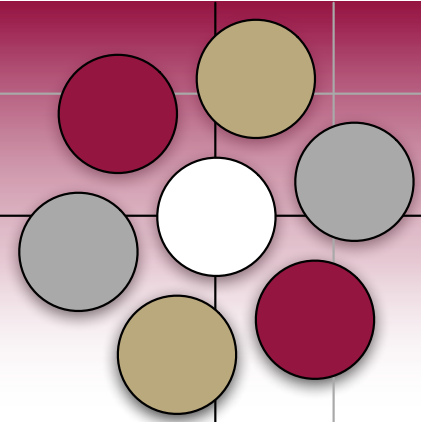
Story Acceptance



STORY ACCEPTANCE



Software Project Management Tools



- Deliver one of your stories
- Read
 - Story workflow
 - <https://www.pivotaltracker.com/help/gettingstarted>

Wrike

The screenshot displays a Wrike project interface. On the left, a vertical timeline lists dates: Dec 23, Dec 16, Dec 16, Dec 17, Dec 08, and Dec 10. A task titled 'rough sketch of the...' is associated with Dec 17. The main activity feed on the right shows a task named 'New Drone...lew.pptx' with an 'Expand' button. Below this, a section labeled 'today' contains a reply from 'Colby' with a list of actions: 'scheduled task for Dec 01 – Dec 09 (7d)', 'included task into Amazing Toys', 'assigned task to Colby Masterson', 'shared task with Zachary Burroughs', and 'updated description'. A file icon for 'New Dro...lew.pptx' is shown below the actions. At the bottom, a text box contains the text: '66 We need a strong proposal. Proposal for Amazing Toys @Zachary Burroughs Real'. The video player controls at the bottom show a progress bar at 0:27 / 1:04, along with icons for CC, settings, and YouTube.

Dec 23

3

Dec 16

Dec 16

rough sketch of the ...

Dec 17

2

Dec 08

Dec 10

New Drone...lew.pptx

Expand ▶

today

Colby Reply

- scheduled task for Dec 01 – Dec 09 (7d)
- included task into Amazing Toys
- assigned task to Colby Masterson
- shared task with Zachary Burroughs
- updated description

just now

New Dro...lew.pptx

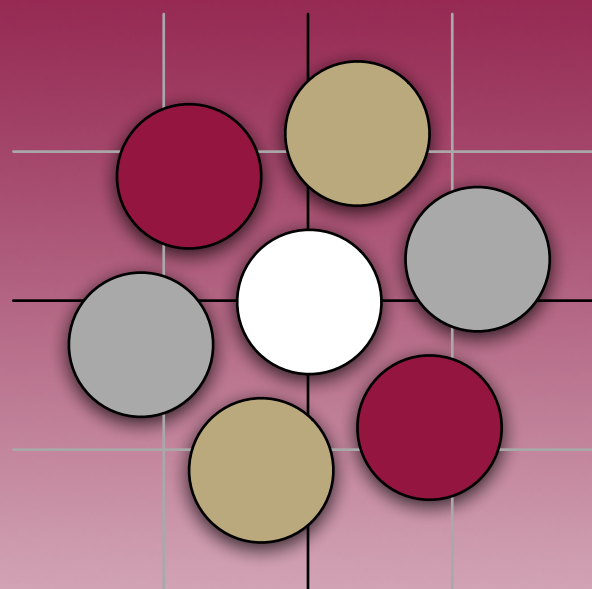
just now

66 We need a strong proposal.
Proposal for Amazing Toys
@Zachary Burroughs Real

0:27 / 1:04

CC

YouTube



WESTMONT COMPUTER SCIENCE