SAGE Scratch: Parson's Puzzles

COMS 6901 | Sanil Shah | ss4924

Outline

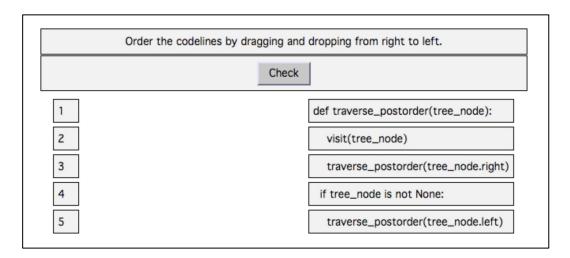
- Motivation
- Related Work
- Initial State
- Create Parson's Puzzles
- Update Parson's Puzzles
- Play Parson's Puzzles
- Parson's Play Palette
- Limitations and Issues
- Future Work
- Demo

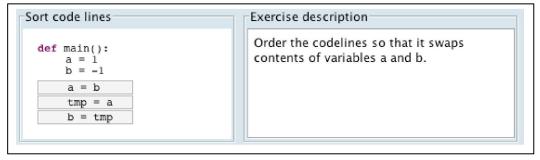
Motivation

- Allow instructors to easily create and edit Parson's Puzzles
- Provide an easy to use interface for students to solve puzzles
- Detect Parson's Puzzles within Scratch
- Detect students and instructors within Scratch
- Remove distracting palettes for students in Parson's mode
- Remove ability to edit puzzles for students in Parson's mode

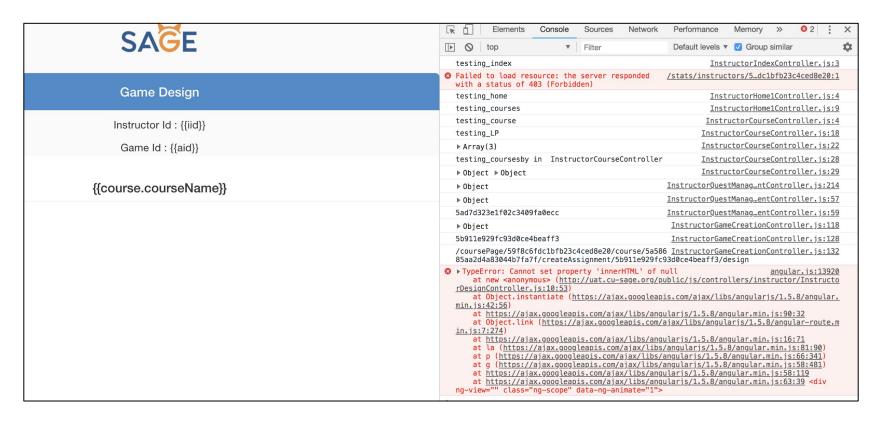
Related Work

- Hot Potatoes
- <u>Ville</u>
- CORT
- <u>js-parsons</u>
- Fall 2016 Parson's Puzzles

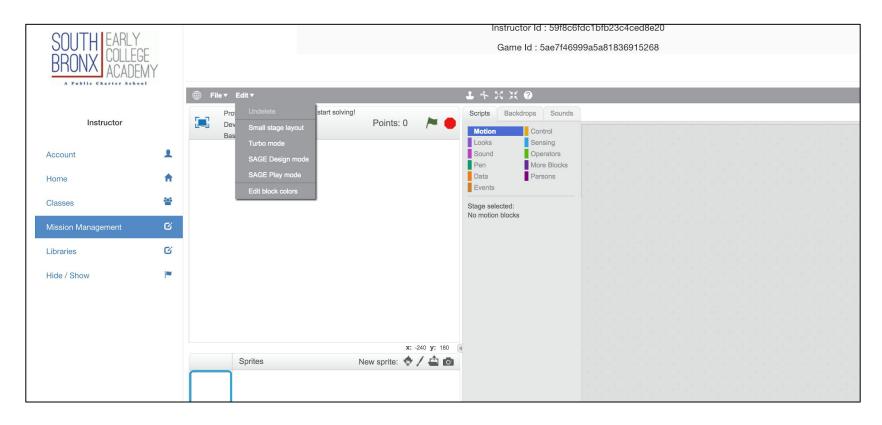




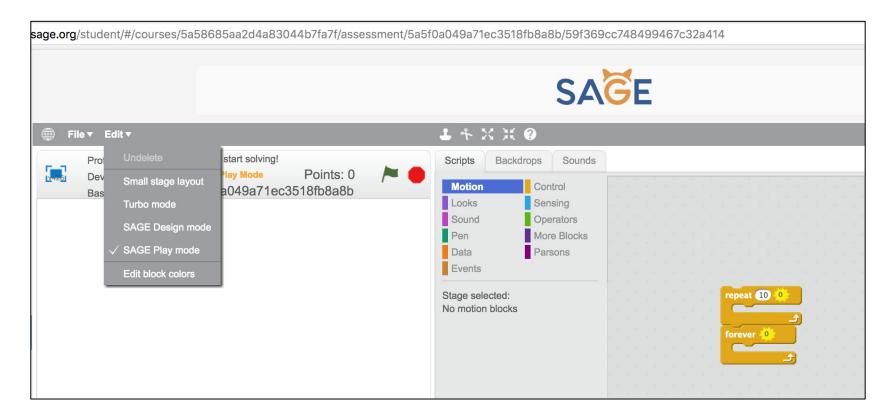
Initial State (Create Game)



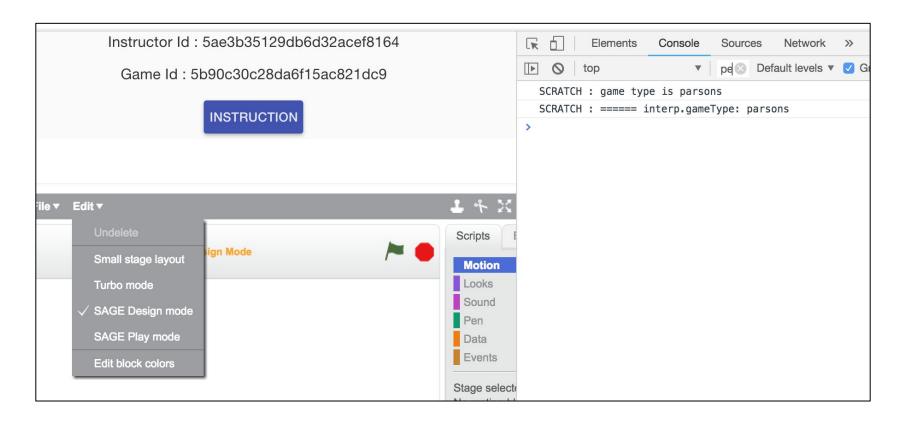
Initial State (Update Game)



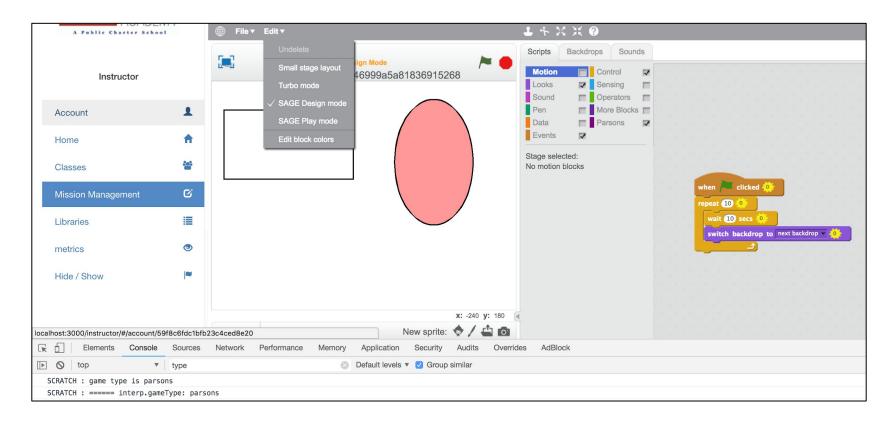
Initial State (Student Play)



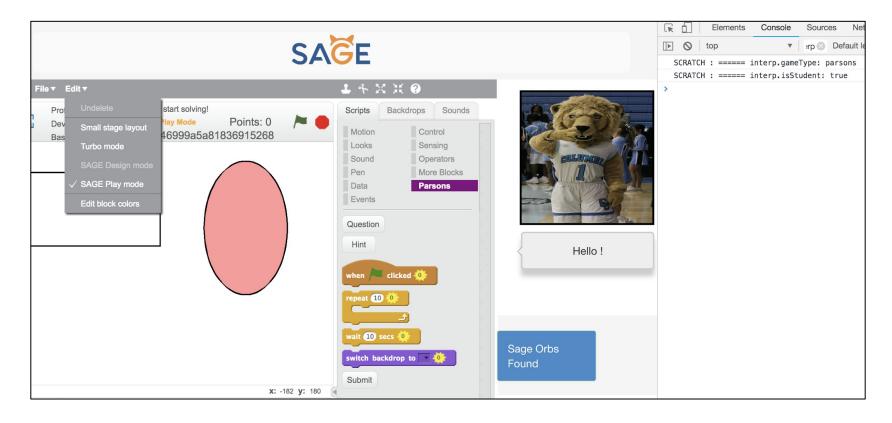
Create Parson's Puzzle



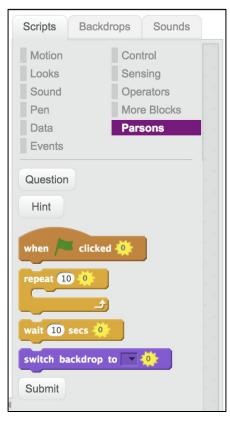
Update Parson's Puzzle



Play Parson's Puzzle



Parson's Play Palette



Limitations and Issues

- Struggles with workflow setup
- Flash debug environment issues
- Parson's scoring still broken
- Inability to access while developing locally

Future Work

- Better scoring metrics (instructor assigned)
- Fix Parson's Puzzles scoring
- Easier reordering of Parson's Puzzle blocks for instructors

Demo