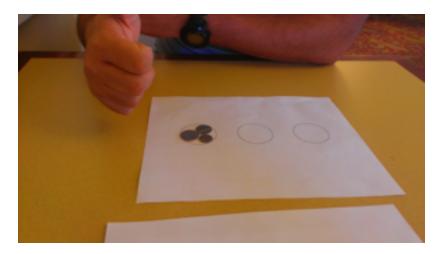
Online Experiment Platform

for Representations in Distributed Cognitive Tasks

By Haoyu Chen 04-29-2015

Review: Replicate Zhang & Norman Experiment(s)

Three coins version -All three are internal rules (Already Deployed)



Tower of Hanoi Version -Two internal rules and one external rules

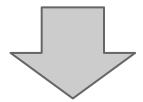


Review: Replicate Zhang & Norman Experiment(s)





Replicate Zhang & Norman Experiment(s)



Scale and Revise Zhang & Norman Experiment(s)

How?

- Implement web application
 - Free Server On Google
 - Free Storage On Google
- Question to be answered
 - O Which one is easier to learn?

Specifically, how external and internal representation influence the speed of learning?

Technical details

- 1. **Timer** -- Record how long user spend to finish task
- 2. Add a ranking system -- Ranking will motivate users to play as more as possible.
- 3. **User Account System** -- Gmail or other account login (Create user identification)
- 4. **Server** -- Google App Engine offer free service for limit usage of resources
- 5. **Database System** -- Store and organize well-structure data for our experiment

Others:

- 1. Pre-quiz to make sure that most of users understand the rules
- 2. Two Kinds of experiments could be randomly assigned a user
- 3. It could be played as many time as they want.

Demo and Simple Testing

Step -1: https://newpriceline.appspot.com/

Step 0: saying "Current Version is still not perfect

Step 1: Login Testing (Incognito Window)

Step 2: Rule Reviews and Prequiz Testing

Step 3: Game Rules and Timer Testing

Step 4: DataBase Testing

Details about User Interface

- Gif Vs Static Image
- Font A Vs Font B
- Position A Vs
 Position B
- What you are going to display?

Always feel like there is better one!

Font Selection

Coin Adventure

Your objective is to move your three coins into another circle. During the process, you have to follow the three rules below

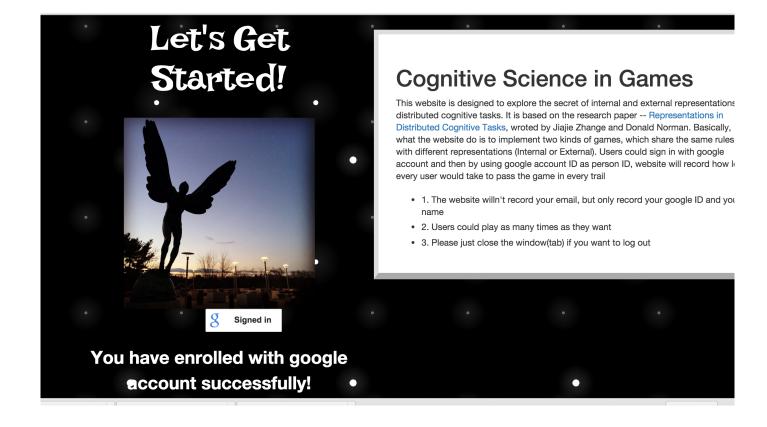
• Rule 1: Player can only move a coin in one time

Coin Adventure

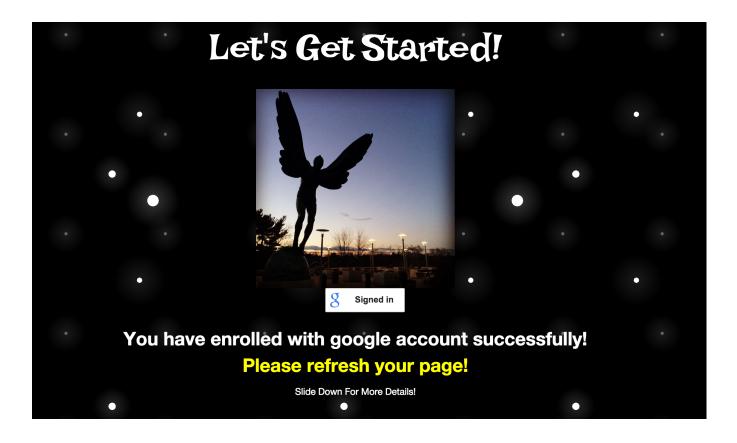
Your objective is to move your three coins into another circle. During the process, you have to follow the three rules below

Rule 1: Player can only move a coin in one time

Position



Position



User's Feedback Matters

- 1. Font Change
- 2. No Hint
- 3. What's your goal

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Difficulties

- First time to design a website from scratch
- DataBase and Google APP Engine
 Official Docs has examplations but few simple examples
- Practice design mind in details
- Time.....

