# Field Studies - Final Presentation

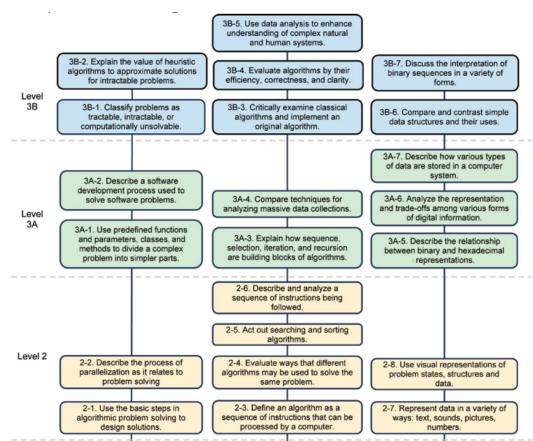
Adiza Awwal, Mahzabin Hasnath, Lalitha Madduri COMS W 3998

## Introduction

- Bring SAGE into the classroom
- Assess pre-existing curricula
- Integrate Parson's Puzzles
- Analyze and implement suggestions

## **Curricula Analysis**

- Compilation of CT standards
- Examination of similar websites
  - Gameful
    - Codecademy
    - Code.org
    - CodeAvengers
  - Interactive
    - Udacity
    - KhanAcademy
    - Code School





## Human Subjects Research

334.844.5966



### **RASCAL Human Subjects**

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Human Subjects I Animal Care I Proposal Tracking I Consent Forms I HIPAA Forms I Haz Mats I Administration I Training Center I Conflict of Interest I My Rascal

#### IRB-AAAR7711 Status: Approved

#### Attachments

**HIPAA Forms** 

#### **Protocol Actions**

Copy Protocol

File New Protocol-Specific COI

#### **Protocol View**

Print Menu

View Datasheet

View History

Add Correspondence

View Correspondence

#### **Human Subjects**

Protocol Overview

Abbreviated t	tle SAGE I Feasibility Study	Protocol Number	Number AAAR7711	
Originating Departm	nt ENG Computer Science (521300X)	Protocol Initiator	Jeffrey Bender (jrb2211)	
Protocol Y	ar 1 Modification 00	Date Created 02/11/2018 10:12:17		
Principal Investiga	or Gail Kaiser (gek1)	You are	Lalitha Madduri (Im3302)	

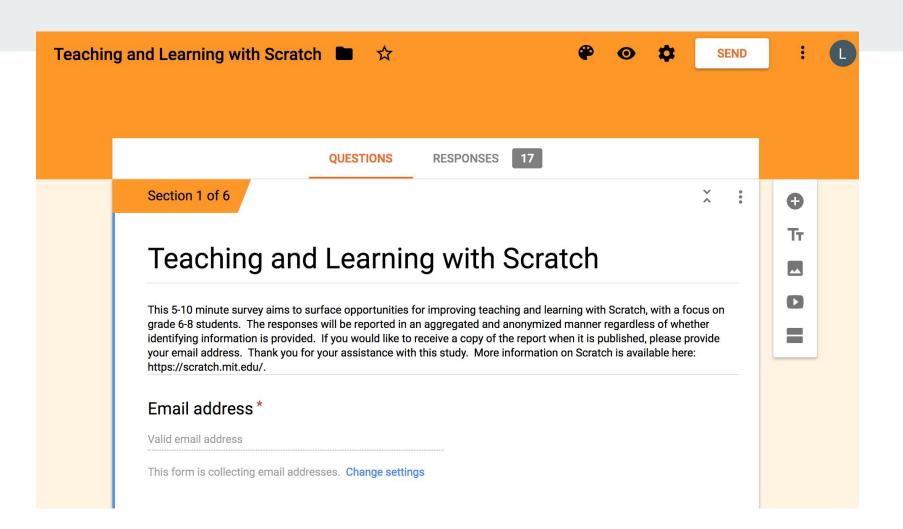
#### **Attach Documents**

Help @

▶ Click here to add attachment

View Document	File Name	Document Type	Date Attached	Attached I
Email Content	feasibility_recruitment_email.pdf	Recruitment Material	04/14/2018	Jeffrey Bender
SAGE Primer for Recruitment (revised)	sageprimer.pdf	Recruitment Material	04/14/2018	Jeffrey Bender
SAGE Primer for Recruitment	sage_primer.pdf	Recruitment Material	04/07/2018	Jeffrey Bender
Semi-structured Interview Protocol Questions	Semi-structured Interview Protocol Questions.pdf	Study Material/Instrument	03/22/2018	Lalitha Madduri
Teacher Survey	Teaching and Learning with Scratch - Google Forms.pdf	Study Material/Instrument	03/14/2018	Jeffrey Bender

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#### UCD and Semi-Structured Interview Protocol







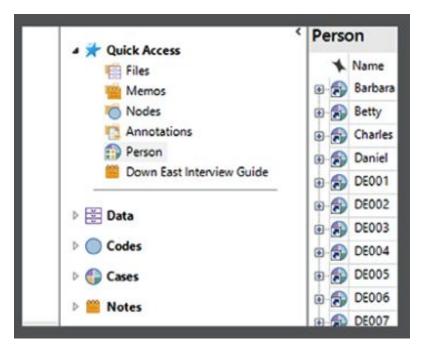


# Parson's Puzzle Library

https://scratch.mit.edu/studios/4945809/

## Interview & UCD Analysis

- Tools and Systems for interview transcription:
  - NVivo
  - o CMU Sphinx
- Some results:
  - Identify qualities and themes to investigate for analysis
  - Coding interview responses





Watson

**Stories** 

**About** 

Developers ∨

Prod

Products and Services



# Speech to Text

Easily convert audio and voice into written tex understanding of content.



Qualitatively Assessed and categorized Semi Structured Interview Responses & Tangential

Feedback

#### Files\\guy 1 reference coded, 0.24% coverage

Reference 1: 0.24% coverage

: Six to eight at night Johns Hopkins position.

#### Files\\lalitha

1 reference coded, 2.57% coverage

Reference 1: 2.57% coverage

I teach through code her and take it all and we teach a different venues taken out how standards in terms of the curriculum that we want to follow so the Baltimore city school curriculum that we want to make sure the students are learning.

#### Files\\saniya

3 references coded, 2.72% coverage

Reference 1: 0.03% coverage

Yes

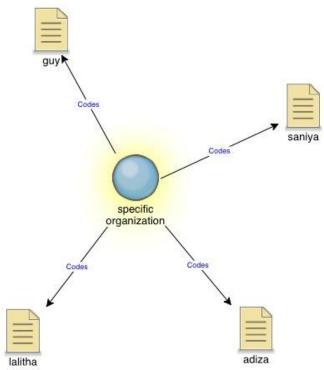
Reference 2: 1.27% coverage

Is on that all schools I go start with block based programming and then the transition into type based.

Speaker 2: All schools have to cover web development in one way or another.

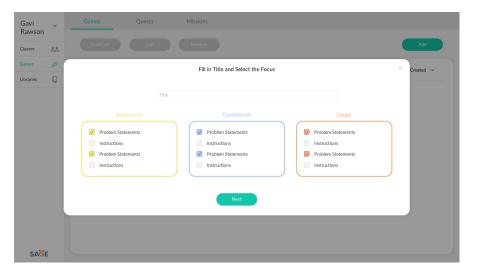
Reference 3: 1.42% coverage

The programming languages that they teach to the students entrance and strings so whatever up in the final product or whatever they end up teaching has to be directly linked to what the kids want to do



## **Curricula UI Implementation**

Adapting Gavi's wireframes to code





## **Future Work**

- Incorporating feedback from Interview sessions
- Integration of curriculum tree with new selection layout
- Feature for teachers to add own curricular items
  - o save new curricular item into tree data
- Video Instruction Library
- Creation of "Add New Focus"
  - o Option to let instructors to add their own curricular focus
  - Would save new curricular item into tree data