

COEN 60 Final Project

By: Jason Vu, Ryan Wong,
Michelle Yavorskiy, Yujing Yang



01 Our Team

Jason Vu

I'm really interested in research regarding data analytics and social media sentiment analysis.

I love to casually indulge in games, hang out in chat forums, contribute to open source projects, go outdoor sightseeing, listen to music, and dabble with instruments.

Fun fact: I was 11 years old when I first learned how to type on the keyboard effectively. ●



Major(s): Web Design and Engineering double
minoring in Computer Engineering and Sociology '24

Ryan Wong



Interested in concept design, specifically when it comes to games.



For career aspirations, he would like a blend of front-end and back-end design.



Hobbies are anime, gaming, martial arts, running, and volleyball.



Fun fact: I like to make minigames on PowerPoint



Major(s): Web Design and Engineering '23

Michelle Yavorskiy



Interested in user interface and website design



Hobbies include any kind of arts and crafts, especially knitting and crochet



Fun Fact: I love cats



Major(s): Web Design and Engineering '24

Yujing Yang



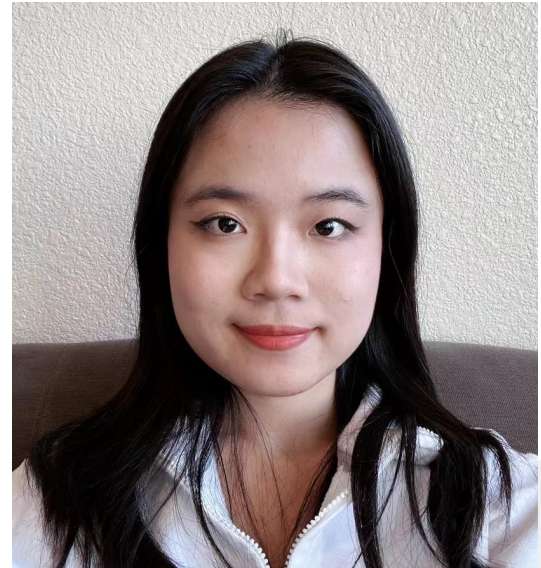
Love design and drawing, especially graphic design, illustration and interaction design.



Hobbies are piano, arts, music, swimming and working out, skateboarding, anime and outdoor activities.



Fun fact: Really love the sound of the hairdryer.



Major(s): Studio Art '23

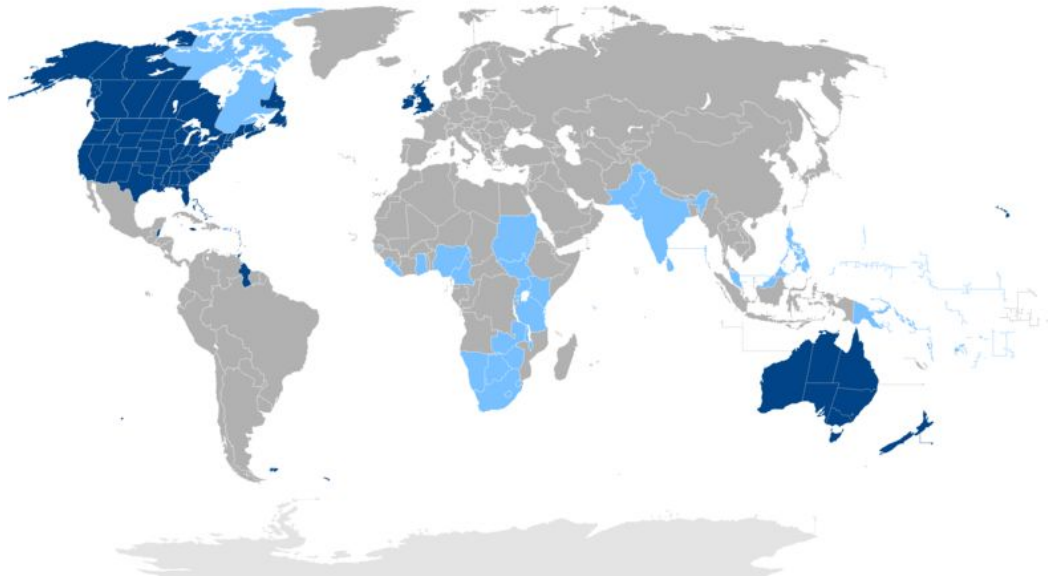


02 The Problem

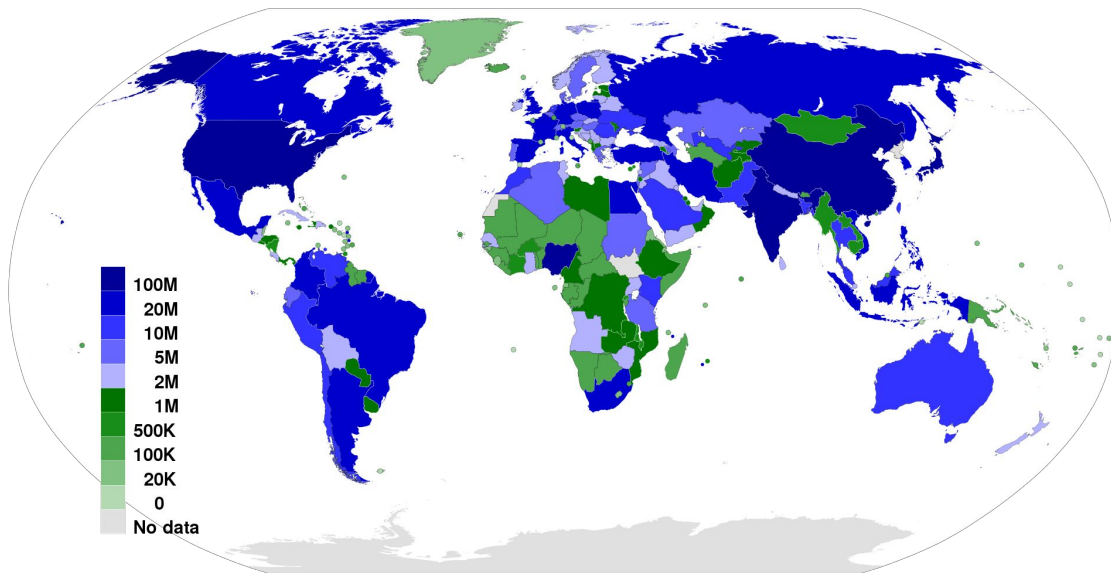


Coding Languages and Language Barriers

Countries with English as Primary Language



Countries by Internet Usage

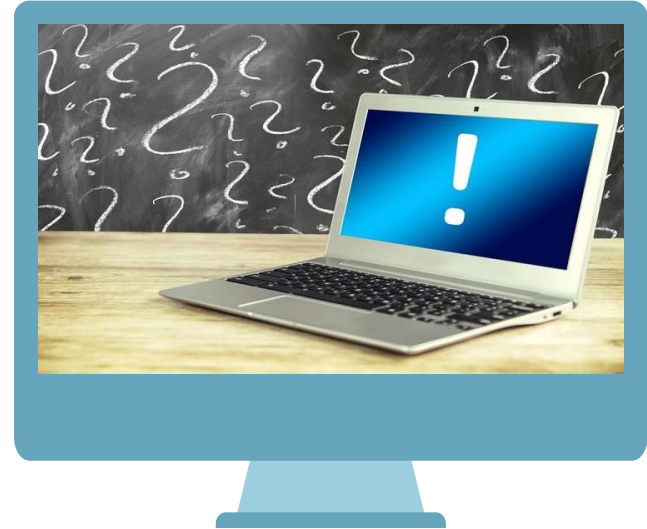




03 Solutions

What technology will be used?

- ☐ Substitution
- ☐ Translation
- ☐ Simplification

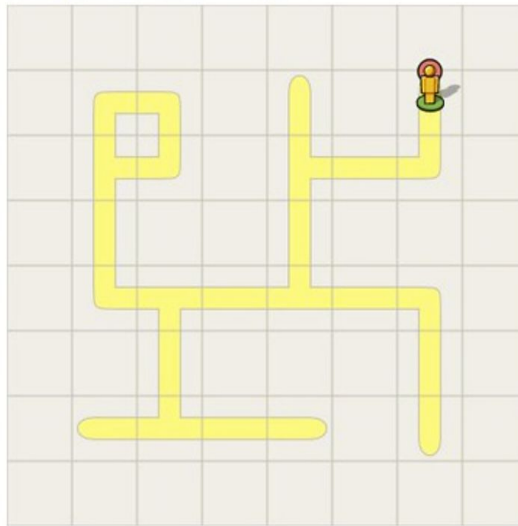


Substitution

pi pi pi pi pi pi pi pi pi pi pika pipi pi pi pi pi pi pi pi pipi pi pi
pi pi pi pi pi pi pi pi pi pipi pi pi pi pipi pi pichu pichu pichu pichu ka
chu pipi pi pi pikachu pipi pi pikachu pi pi pi pi pi pi pi pikachu
pikachu pi pi pi pikachu pipi pi pi pikachu pichu pichu pi pi pi pi pi
pi pi pi pi pi pi pi pi pi pi pi pikachu pipi pikachu pi pi pi pikachu ka
ka ka ka ka ka pikachu ka ka ka ka ka ka ka ka pikachu pipi pi pikachu
pipi pikachu

Scratch

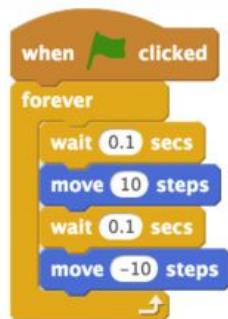
[Blockly](#) > [Demos](#) > Maze



Commands
Logic

```
move forward
turn left
move forward
move forward
turn right
move forward
move forward
turn left
move forward
move forward
turn right
move forward
move forward
turn left
move forward
```

Blockly



(a) English



(b) Italian



(c) Norwegian Bokmål

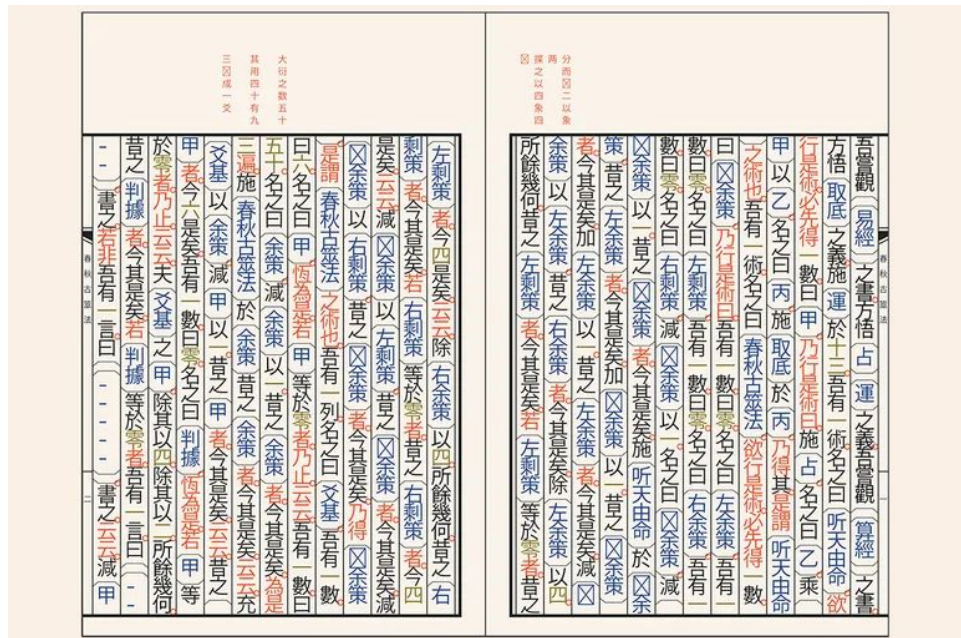


(d) German



Translation

divination.wy



BunnaScript

BunnaScript

```
1 ክፍል ሰው {  
2   ስም: ሀረግ;  
3   መሰረት(መልእክት: ሀረግ){  
4     ይህ.ስም = መልእክት;  
5   }  
6  
7   ስላምታ() {  
8     መልስ ይህ.ስም + " እንዴት ነዎት!";  
9   }  
10 }  
11  
12 ስልት ቀዳሚ() {  
13  
14   ንበል ንውጤ = አዲስ ሰው("ንውጤ");  
15   ስሊዳ.ዘግብ(ንውጤ.ስላምታ());  
16 }  
17 ቀዳሚ();
```

The Underlying JavaScript

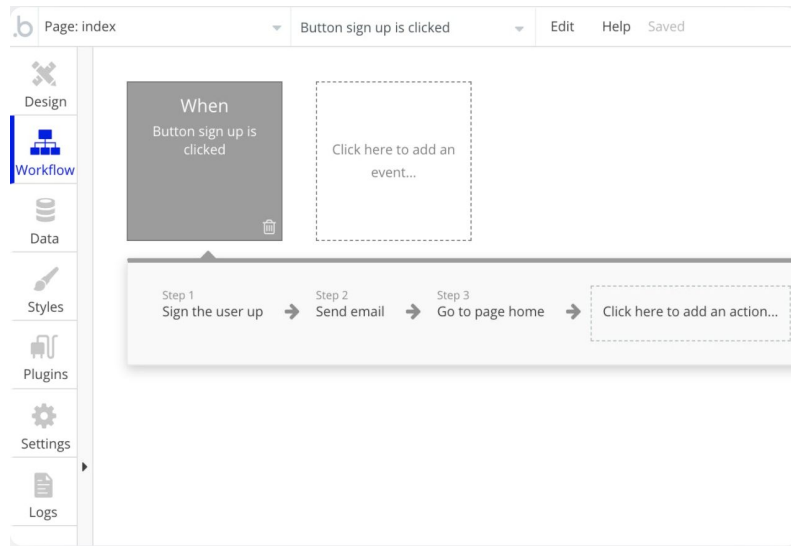
```
1 var ሰው = /** @class */ (function () {  
2   function ሰው(መልእክት) {  
3     this.ስም = መልእክት;  
4   }  
5   ሰው.prototype.ስላምታ = function () {  
6     return this.ስም + " እንዴት ነዎት!";  
7   };  
8   return ሰው;  
9 }());  
10 function ቀዳሚ() {  
11   var ንውጤ = new ሰው("ንውጤ");  
12   console.log(ንውጤ.ስላምታ());  
13 }  
14 ቀዳሚ();  
15
```



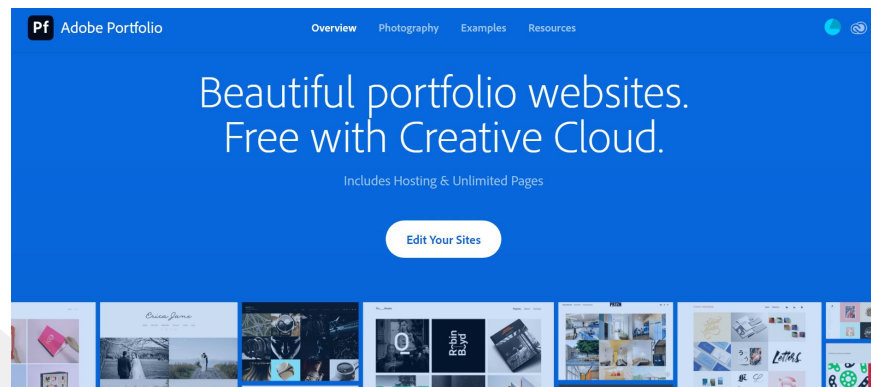
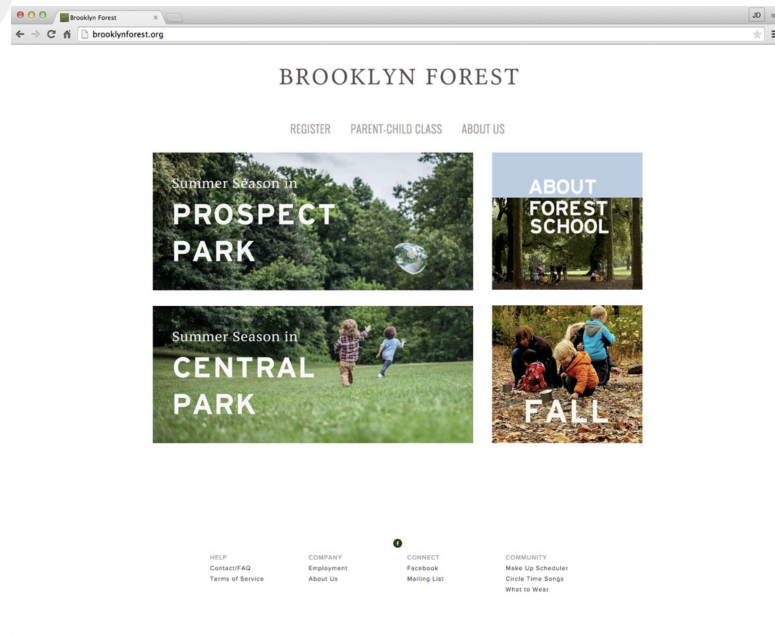


Simplification

Bubble



- # Squarespace and Adobe Portfolio



AgentCubes



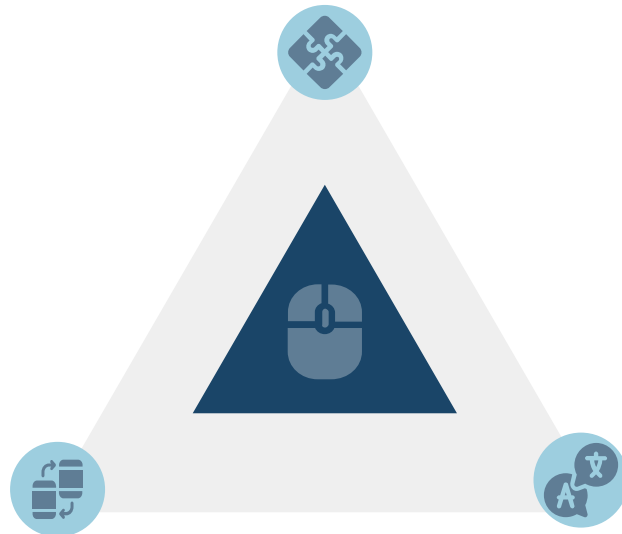


04 Facilitation

How can the tech be used?

Simplification

SquareSpace | AgentCubes



Substitution

Pikalang
Blockly

Translation

divination.wy
bunnaScript

The top left corner of the slide features a decorative graphic consisting of several overlapping organic shapes in shades of dark blue, light blue, and light grey. Three small solid circles are also present: a dark blue one, a light blue one, and a dark blue one, scattered within the grey shapes.

The Visualization

Sources

- <https://towardsdatascience.com/should-we-code-in-english-d59bd7ed87c9>
- <https://www.wired.com/story/coding-is-for-everyone-as-long-as-you-speak-english/>
- <https://spectrum.ieee.org/classical-chinese>
- <https://mako.cc/copyrighteous/wp-content/uploads/2017/06/scratch-blocks-translated-1024x288.png>
- https://en.wikipedia.org/wiki/Category:English-speaking_countries_and_territories
- https://en.wikipedia.org/wiki/List_of_countries_by_number_of_Internet_users#/media/File:InternetUsersWorldMap.svg
- <https://www.ethiocloud.com/bunnascript.aspx>
- <https://bubble.io/>
- https://en.wikipedia.org/wiki/Non-English-based_programming_languages
- <https://portfolio.adobe.com/>
- <https://en.wikipedia.org/wiki/AgentCubes>
- <https://github.com/MartinIngesen/Pikalang>
- <https://esolangs.org/wiki/Pikalang>
- <https://github.com/kysaeed/brainfreak-js>

Thanks

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