Software with Purpose
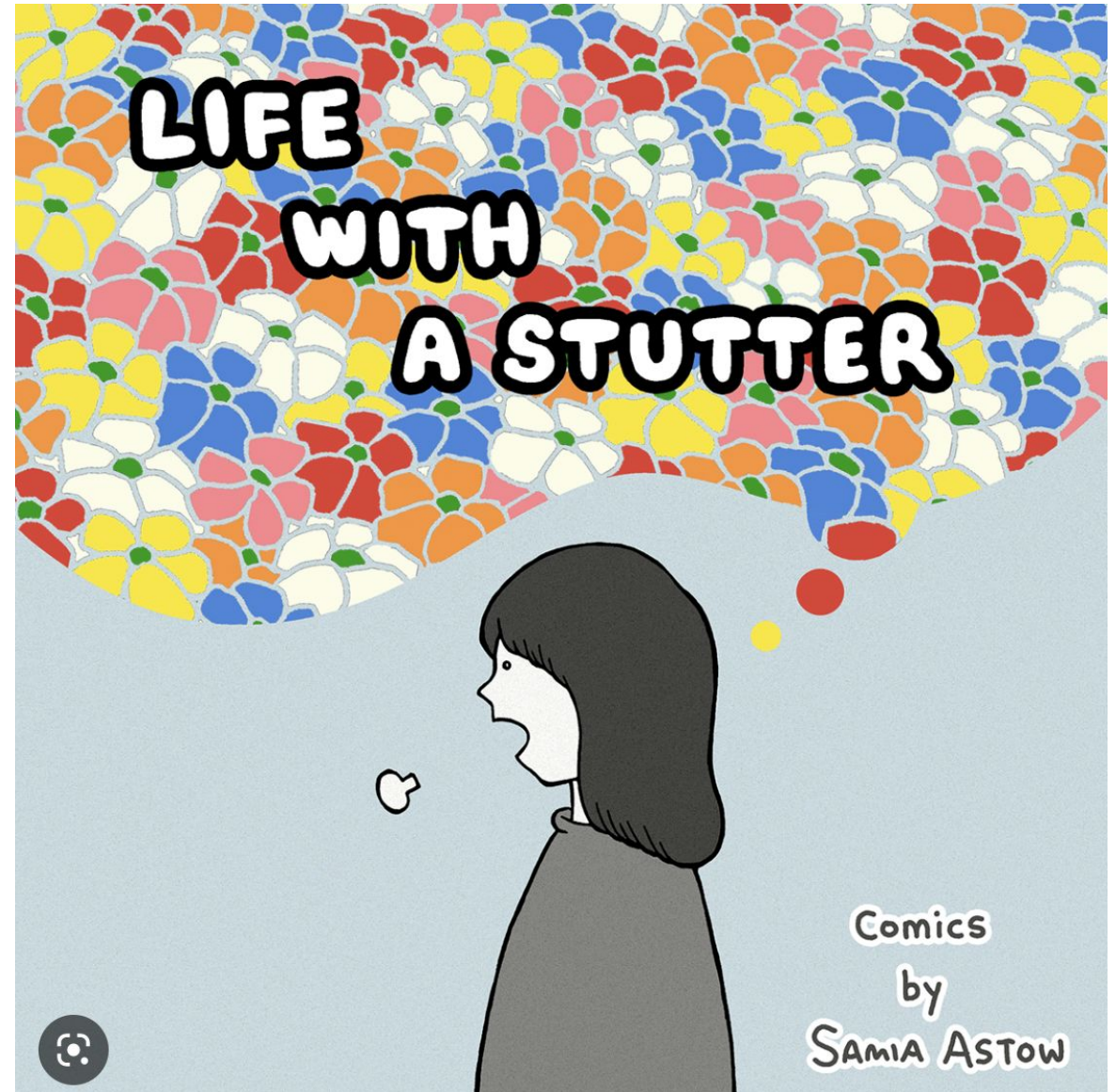
simplicity. expertise. inspiration.

Fluent Force
Tech & Life Improvement

- Paul Ireifej pi733j

LIFE WITH A STUTTER

Comics by SAMIA ASTOW

AT&T

Fluent Force Dashboard

Bring awareness to and promote early intervention in children's stammers by profiling their speech patterns and apply metrics with thresholding to best characterize their impediment and provide the best treatment.
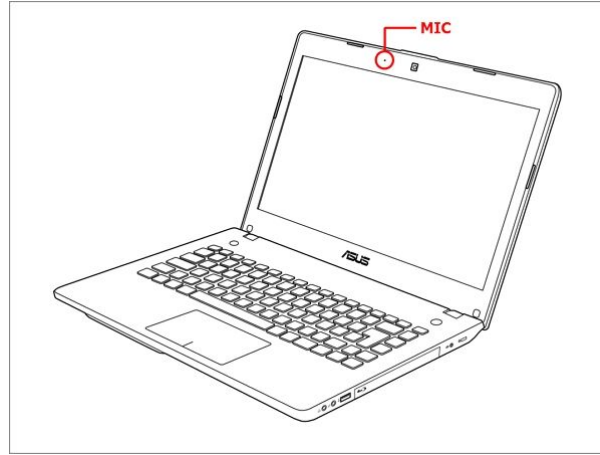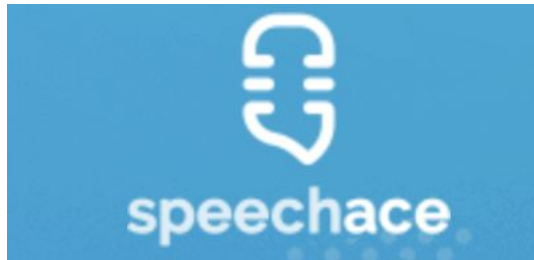
AT&T

Benefits

- At-home diagnostic for early detection

For when:

- Speech therapist isn't available or too expensive

- Child might be intimidated by speech therapy

AT&T

Technologies

DEMO

In Summation

We Did
- Processed many audio files to get optimal thresholding
- Able to profile children's speech and characterize impediments

Because
- Help build EQ with children who stammer
- Bring awareness to stuttering and promote early intervention

We Learned
- Speechace API, D3 graphics, Speech disfluencies characterizations
- How to upload audio from microphone and save as mp3!

More Time
- Use ChatGPT to generate precise and action-able recommendations
- Test with more audio files to get more precise thresholding

Fun Facts
- I grew up with a severe speech impediment and have been in speech therapy
- I had my kids record their own speech morning of the demo

AT&T

Backup

Screenshots from the demo dashboard

AT&T

MAIN

Dashboard

Components

Widgets

Metrics

VIEW

Tables

Time Line

Custom Views
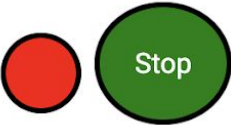
FROM

Forms

EXTENSIONS

Editors

Pickers

Dashboard

Fluent Force □ Dashboard □ Default

Record

Stop

"And I have one sister. She likes being a doctor and finding out things. And I like doing football. And I want to be a football player when I'm older."
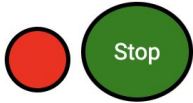
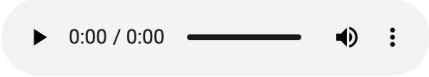### Total Insight Score
--

□ REFRESH

Speechace Scoring

Today

Category	Score	Status	
IELTS Score 1	--	--	□
PTE Score 1	--	--	□
Speechace Score 1	--	--	□
TOEIC Score 1	--	--	□
CEFR Score 1	--	--	□
Articulation Length	--	--	□
Speech Rate	--	--	□
Articulation Rate	--	--	□
Syllable Correct per Min	--	--	□

Record

🔴 **Stop**

"And I have one sister. She likes being a doctor and finding out things. And I like doing football. And I want to be a football player when I'm older."

▶ 0:00 / 0:00 ──────── 🔊 ⋮

93.75%

calculated just now

☐ REFRESH

Speechace Scoring

Category	Score	Status
IELTS Score 1	6	FINE
PTE Score 1	52	FINE
Speechace Score 1	68	FINE
TOEIC Score 1	120	FINE
CEFR Score 1	B1	FINE
Articulation Length	1.95	LOW
Speech Rate	2.8	FINE
Articulation Rate	2.8	FINE
Syllable Correct per Min	111.89	FINE
All Pause Count	1	HIGH
All Pause Duration	0.195	HIGH
IELTS Score 2	6	FINE
PTE Score 2	50	FINE
Speechace Score 2	67	FINE
TOEIC Score 2	120	FINE
CEFR Score 2	B1	FINE

Record

"And I have one sister. She likes being a doctor and finding out things. And I like doing football. And I want to be a football player when I'm older."
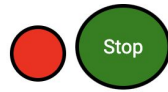
▶ 0:01 / 0:01 ━━━━━━━━━ 🔊 ⋮

43.75%

calculated just now

▢ REFRESH

Speechace Scoring

Category	Score	Status
IELTS Score 1	5.5	LOW
PTE Score 1	42	LOW
Speechace Score 1	61	LOW
TOEIC Score 1	110	LOW
CEFR Score 1	A2+	LOW
Articulation Length	3.54	FINE
Speech Rate	1.48	FINE
Articulation Rate	1.48	FINE
Syllable Correct per Min	29.63	FINE
All Pause Count	3	HIGH
All Pause Duration	0.51	HIGH
IELTS Score 2	4	LOW
PTE Score 2	49	LOW
Speechace Score 2	66	LOW
TOEIC Score 2	115	LOW
CEFR Score 2	B1	FINE