

Meet the Team



Sharon Cheng

CS '24

Taiwan



Richard Cheung

CS '24

Hong Kong



German Enik

CS + Linguistics '22

Russia / USA



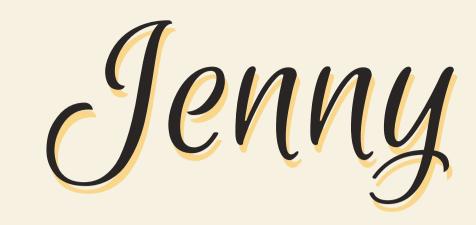
Jessica Zhang

SYMSYS '24

USA









KOREAN-CHINESE AMERICAN STUDENT

Grew up speaking only Korean

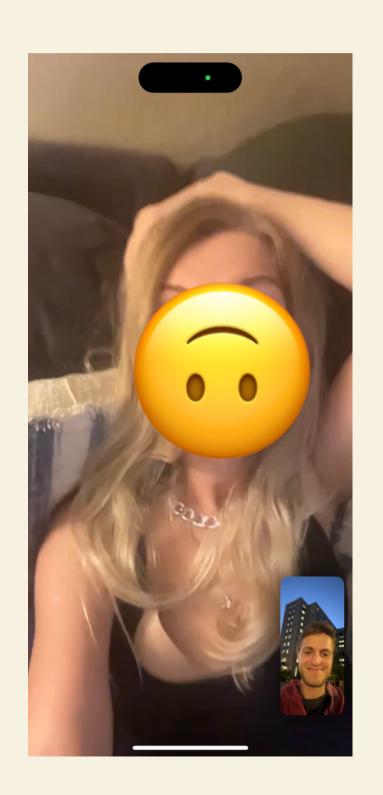
Mom always spoke Korean but Jenny spoke

English back

Learnings:

Learnt more Korean through **K-drama** than Korean school Distant from dad because of language





RUSSIAN MONOLINGUAL MOM

Grew up in Soviet Union Very good at Russian; studied English throughout Education, but can't speak

Learnings:

Annoyed with features like autocorrection

Turns them all off





MID-20S, EVGR MARKETPLACE CASHIER

First-gen Latina

Main connection to Spanish through Grandma

Learnings:

One's connection is a key driving force for language Familial connections are strong with language

Total interviews

4 week 2 interviews3 week 3 interviews

7 total interviews

Initial POV - Conor





WE MET

We met a firstgeneration
American father
with Cantonese
roots with his
Filipina wife and
toddler.



WERE SURPRISED

to notice the father act a bit
defensive and overconfident
when explaining to us that he
doesn't know Han
characters because he
doesn't want to and doesn't
consider them a hindrance.



WE WONDER

if when the man realized he should've taken Chinese school more seriously, he felt like it was too late.



WOULD BE GAME-CHANGING

if continuous
investments into one's
native language could
be a part of a 'trend' in
American pop-culture

3 revised POVs





Jenny Povi

POV1: Jenny



We met a college student - mom Korean, dad Chinese

We were surprised to learn that she felt like she learned more Korean from **K-dramas than Korean school**.



We wonder if this suggests that learning in **non-traditional forms** is more effective than in traditional settings.

It would be game-changing if she could learn language from **entertainment**.

information to entertainment pieces language learning leisure who only understand and speak a language learn to read and write it

Give adults the

confidence and

learning tools to

become familiar

with culture

Find good
entertainment
content for
learning
languages

Help parents teach their kids multiple languages in parallel

Encourage Jenny and other kids with multicultural backgrounds to connect with their cultures how might we make language learning a trend?

Use entertainment to help people practice language Help second-gens overcome their American accent in a foreign language

HMW: Jenny

Make kids want to speak their foreign language to their parents/friends

How might we incorporate language learning into our daily lives

Merge entertainment into language learning (ex: shows, movies) to watch entertainment in their native language together

Make cultural entertainment a class in school (communications or social sciences) Find good entertainment content for learning languages

Evaluate the teaching effectiveness

How might we...

Merge entertainment into language learning (ex: shows, movies)

Solution

A global news app for language learners adjustable based on language proficiency

Assumption

Reading stories in a language one is studying is encouraging if it's the right difficulty



Experience Prototype

США очень большая страна. На севере США холодно, а на юге жарко. В штате Калифорния всегда лето и сияет №1 солнце. Совсем изредка идёт дождь.

SSHA ochen' bol'shaya strana. Na severe SSHA kholodno, a na yuge zharko. V shtate Kaliforniya vsegda leto i siyayet solntse. Sovsem izredka idot dozhd'.

По пути в театр, две молодые девушки х обнаружили, что их преследует незнакомец. Когда он догнал их, одна из девушек брызнула ему газовым баллончиком в лицо, и обе бросились бежать №2

Po puti v teatr, dve molodyye devushki obnaruzhili, chto ikh presleduyet neznakomets. Kogda on dognal ikh, odna iz devushek bryznula yemu gazovym ballonchikom v litso, i obe brosilis' bezhat'

… Уже давно заслужив всеобщее признание и достигнув огроменных высот, исследовательница-химик, проживающая в золотом штате на западном побережье нового мира, была названа лауреатом нобелевской премии … №3

... Uzhe davno zasluzhiv vseobshcheye priznaniye i dostignuv ogromennykh vysot, issledovatel'nitsa-khimik, prozhivayushchaya v zolotom shtate na zapadnom poberezh'ye novogo mira, byla nazvana laureatom nobelevskoy premii ...

Easy

Medium





- 1. Rank them in order of difficulty based on % of words you knew.
- 2. Which one would help u the most with studying Russian?
- 3. How did reading each one make u feel?



Results

About the most difficult text...

"I felt good about understanding the first 2.5 sentences and then I didn't know what was happening"

What worked

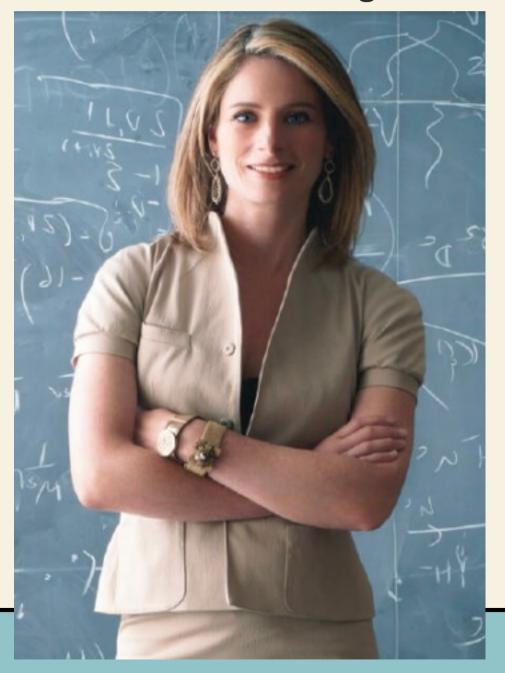
Learnt most from the easiest paragraph Looked scared at the difficult ones

What didn't worked

Easy is best because happened to be "short sentences" and less "complex conjugations"



Note: Stock Image



Hallie

POV 2

POV2; Hallie



We met a mom who studied **Classics** and is American with **Italian** roots with a four year old son.

We were surprised that even though she studied Latin and Greek, she totally **rejected Italian** just because her **father told her to take it**.



We wonder if this means she might have some **repulsion towards her family's native language** and is more inclined to learn "new" languages, which she thinks is cooler

It would be game-changing to make family language seem interesting and cool for **kids from a young age**.

Make family language seem interesting and cool for kids Support parents in educating their language/culture to their kids Create environment for kids to practice their family's native language

Motivate parents to communicate with their kids using their native language

Motivate parents to pass on their native language

Make language learning exciting

Hallie

Illuminate the importance of language to young children

Encourage kids to intrinsically want to learn more about their language/culture

Support kids to learn languages from a young age Find a way for parents to support their kids in learning their language

How might we apply the academic lang learning approach to self-guided learning

How might we...

Create an environment for kids to practice their family's native language

Solution

An interactive experience for kids to talk to a virtual avatar in specified language

Assumption

Kids will open up and be engaged by an avatar enough to keep speaking language



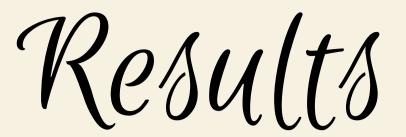


Experience Prototype

Pig filter on Facetime

Talk to kids in Chinese

10 year old learning Chinese



Assumption valid!

What worked

Spoke back in Chinese

Didn't really care about messing up - willing to try

What didn't work

Kept laughing at the avatar

Conversation shallow



Note: Stock Image



Brie

POV 3

POV 3: Brie



We met a young **Latina cashier** from East Palo Alto at EVGR Marketplace, whose **Spanish-speaking grandma** passed away.

We were surprised to learn that while she **lost** all her Spanish after the passing, she **loves singing the songs** that her grandma sang her.



We wonder if this means that these **songs** act as an eternal connection to her grandma and language.

It would be game-changing if her grandma recorded her songs in Spanish more and left them as **memories** for her granddaughter.

make staying in touch with one's language less painful

Use music & media to pass on endangered dialects

Help her preserve these songs

how might we make grandma memories live on thru their shared language

Connect with people with similar dialects/backgrounds. Niche languages

Illicit good memories through remembering the songs

HMW:

Brie

how might
we make
heritage
songs eternal

how might we make a reminder of her grandma's music and language in an app

Bring her grandma's singing back

Connect with relatives from her hometown / people who know her grandma how might we nourish a connection with the dead through music

Preserve cultural stories to pass on to children

Make dialect story telling a part of children's learning Support/Help families to record their cultural music and language

How might we...

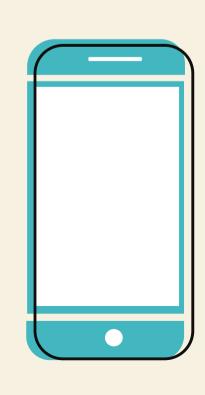
Support/Help families to record their culture and language

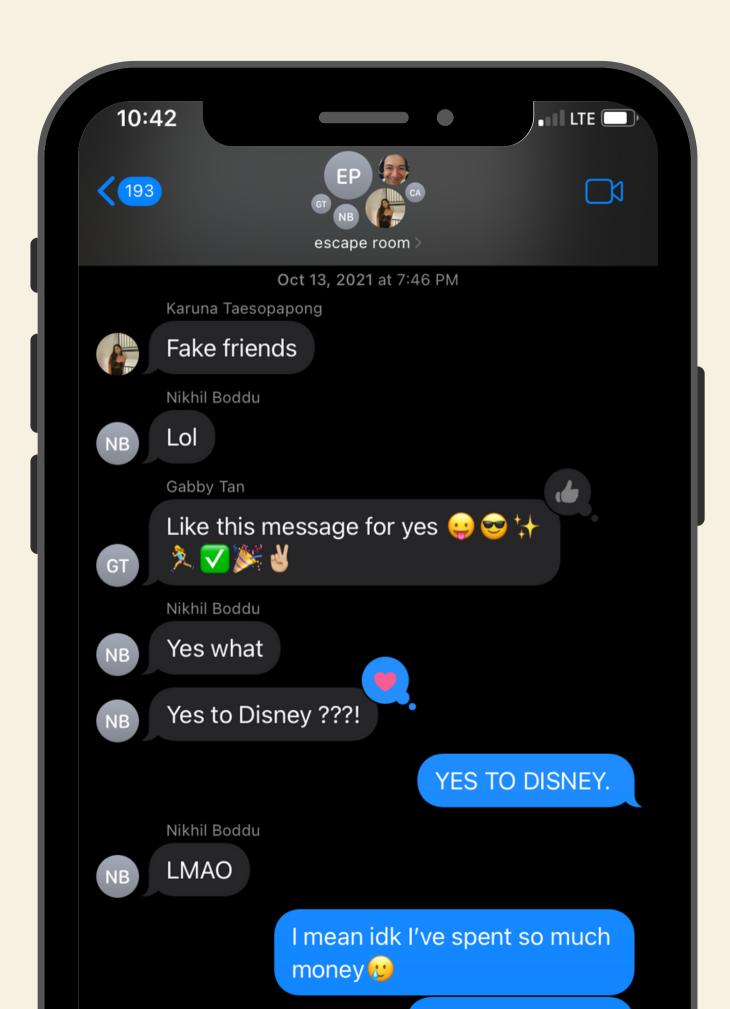
Solution

A platform that builds a footprint of your texts/calls with loved ones and replays highlights

Assumption

Bringing back textual or verbal memories will evoke emotions

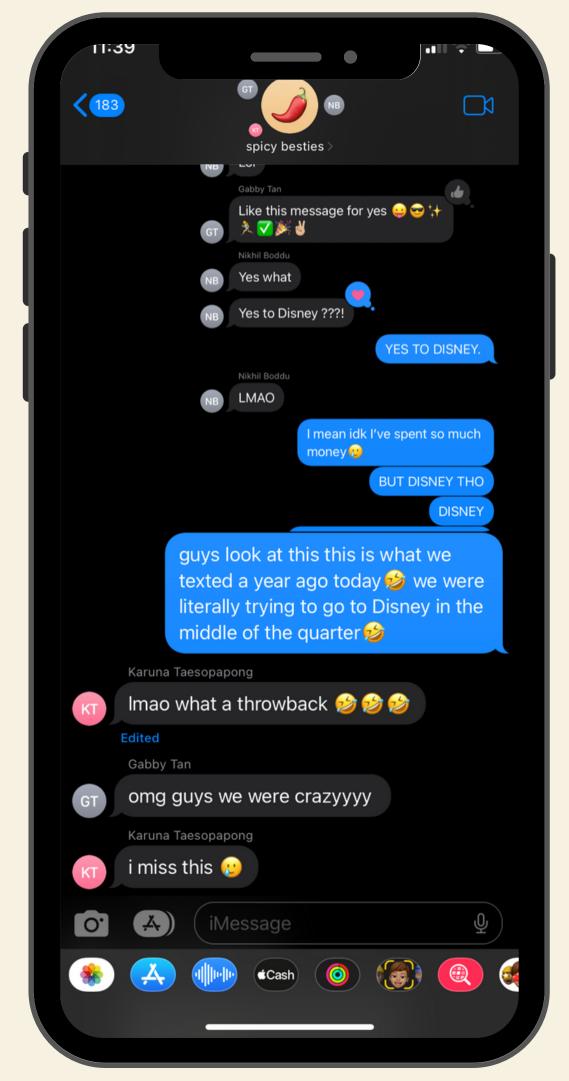




Prototype

Sharon looked through texts from

Oct 13, 2021



Prototype

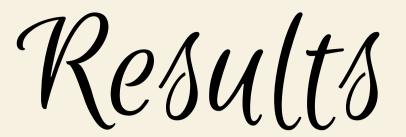
Screenshotted and sent to friends

Prototype





Emotional responses recounting previous experiences



Assumption valid!

What worked

Great reactions from people!

Senses of nostalgia

What didn't work

Texts were somewhat shallow and short

Our 3 Solutions



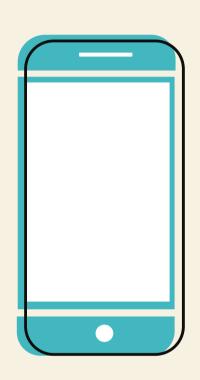


Doesn't inspire deeper learning



Virtual Avatar Conversations for Children

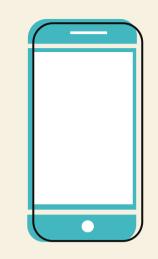
Conversational value limited



Language Memories

Visceral positive emotions

Our chosen solution Language Memories



Ethical implications:

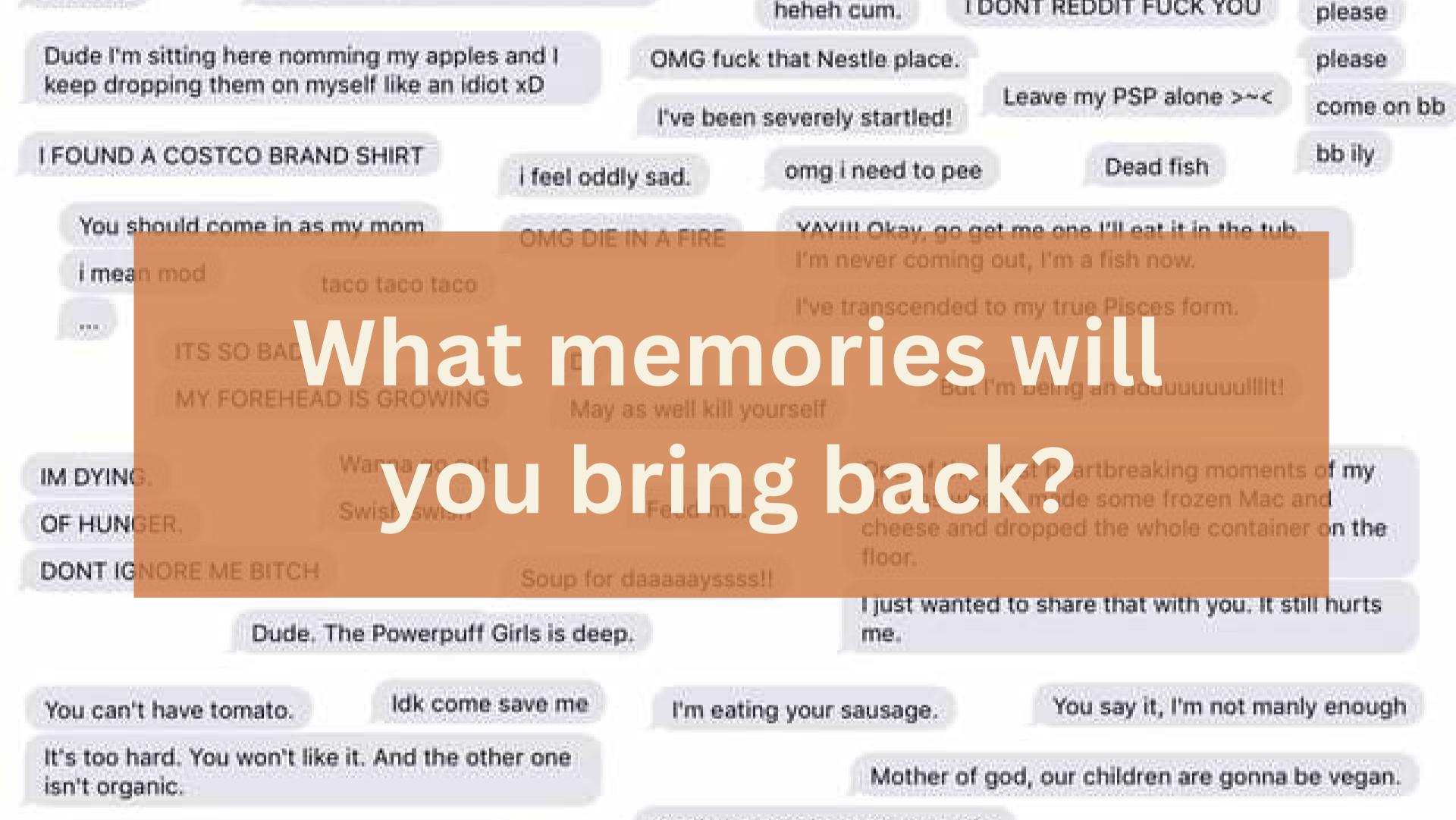
Privacy - on device? safe?
Unhappy memories

Serves:

Anyone who has texts/calls with close friends

Leaves out:

People who aren't text-centric (older people)



Appendix

Brainstorm for HMWs and Solutions:

https://miro.com/app/board/uXjVPNxaQRE=/