



Duolingo vs. Classroom

IMT 570- Final Presentation

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Recommendation



Flexibility



Time



Proficiency



Interaction



Prestige

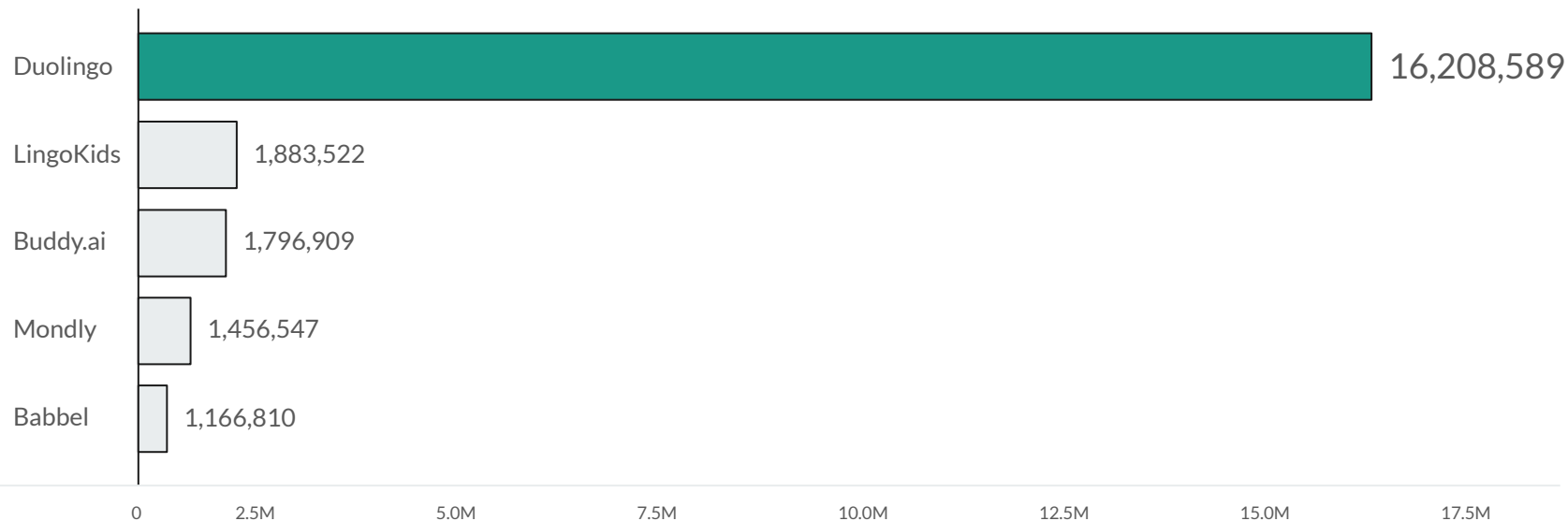


Entertainment

Our Motivation.

Why Duolingo?

Leading Language Learning Apps Worldwide in January 2024, by downloads



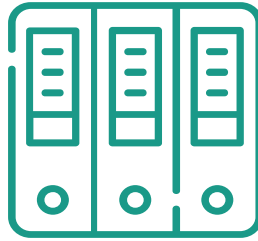
(Statista, 2024)



Why Classroom-Setting?



Prevalence



Resource-Abundant



Structured & Professional

Our Methods.



Survey



Case Study

- Learned Korean using Duolingo for 30 days
- Gained first-hand experience exploring its features and functionality
- Able to memorise all vowels and consonants taught without other people's help.

VOWELS 元音		CONSONANTS 辅音	
ㅏ (ㅏ) 아 · a	ㅓ (ㅓ) 애 ae	ㄱ (ㄱ) 개 ge	ㅋ (ㅋ) 까 ka
나 · na	ㅕ (ㅕ) 나 na	ㅋ (ㅋ) 까 ka	ㅋ (ㅋ) 까 ka
가 · ga	ㅗ (ㅗ) 과 ga	ㅋ (ㅋ) 까 ka	ㅋ (ㅋ) 까 ka
라 · ra		ㅋ (ㅋ) 까 ka	ㅋ (ㅋ) 까 ka

Let's learn Hangeul!
Get to know the main writing system in Korean.

LEARN THE LETTERS

ㅏ a	ㅓ ya	ㅗ eo	ㅜ yeo
ㅑ o	ㅕ yo	ㅛ u	ㅠ yu
ㅓ eu	ㅣ i	ㅗ ae	ㅛ yae
ㅓ e	ㅓ ye		

Double Vowels

ㅑ wa	ㅓ wo	ㅓ wae	ㅓ we
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SECTION 1, UNIT 1
Learn Korean vowels

1249 4118 3

SECTION 1, UNIT 2
Learn Korean consonants

1249 4118 3

Learn more consonants



Interview Method



Initial Coding



Generating Themes



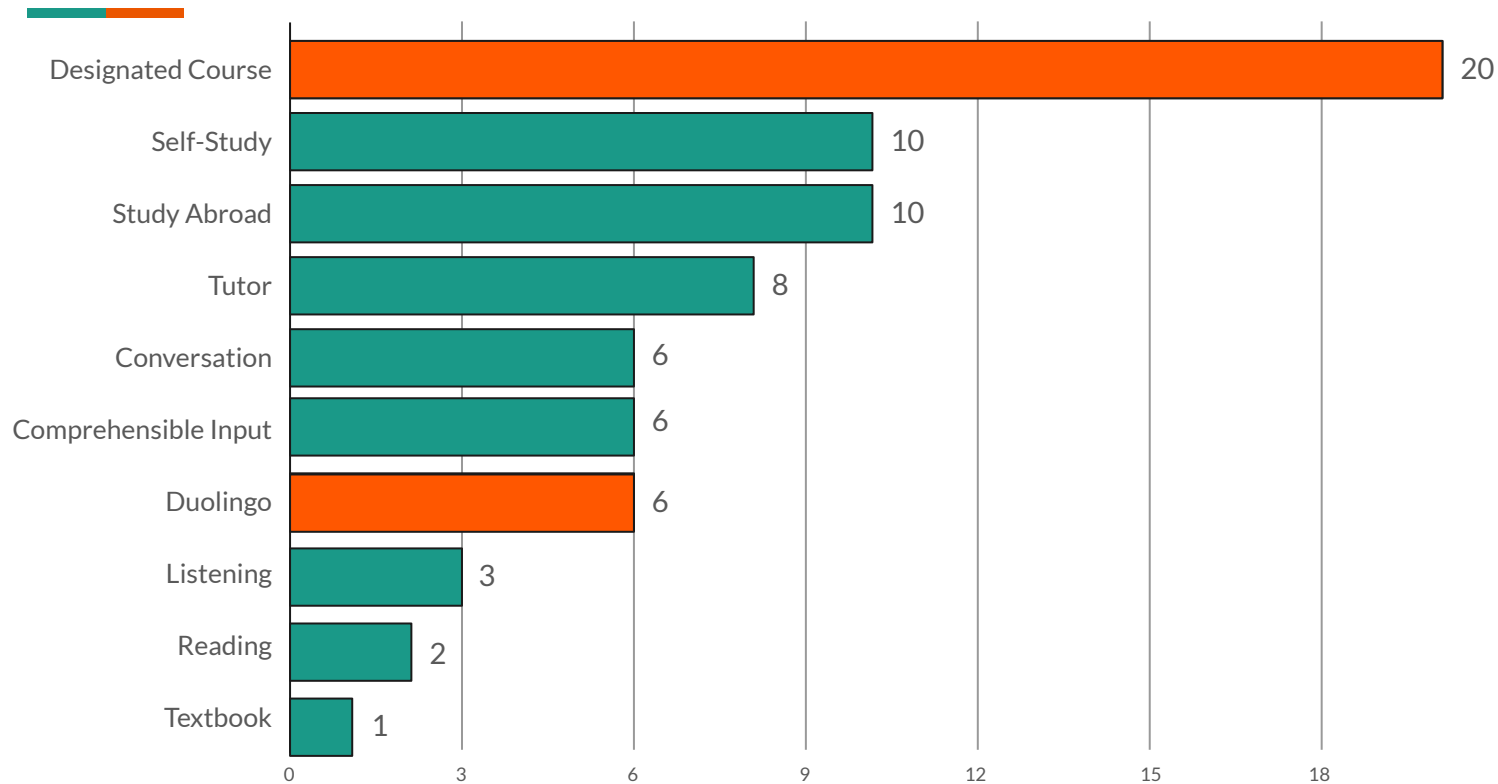
Reviewing Themes



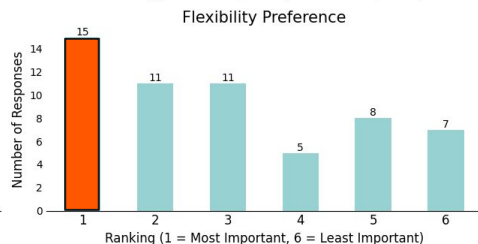
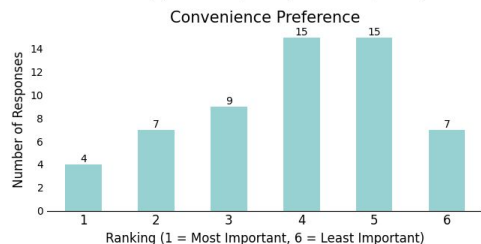
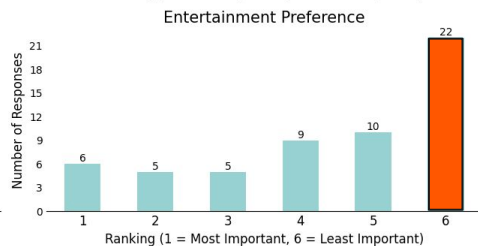
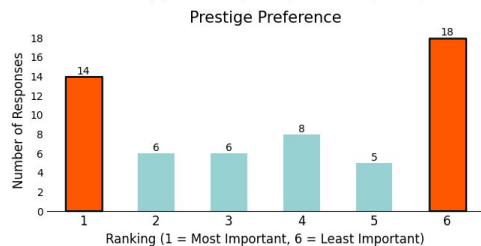
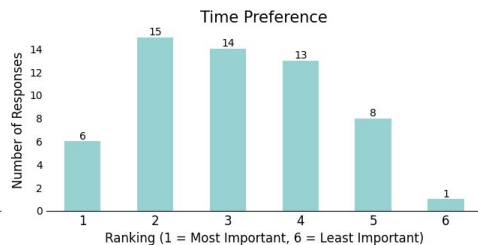
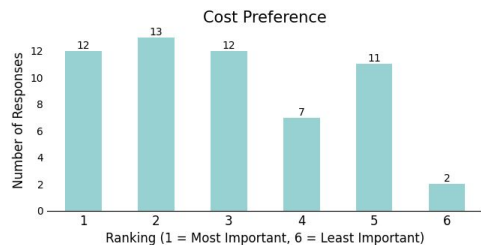
Defining and Naming Themes

Our Findings and Recommendations.

Most Effective Learning Methods



What did our respondents rank preferences?



Highlights:

Entertainment

Flexibility

Prestige



Case Study Findings

- **Entertainment** - Many interactive features to keep learner interested and motivated.
- **Flexibility & Time** - Able to learn anytime anywhere, no need to invest a lot of time.
- **Require strong self-control** - remember to PRACTICE EVERYDAY!



13 May, Day 15, Time: 22:04, Location: IMA soccer field

- Daily lesson** - practicing the characters learned from lesson 3.1.
- Lesson detail:** Section1 Unit 1 : Learn Korean Vowels - lesson 3.1. Did 1 exercise and took notes while learning - around 10 min
- Challenges:** Some letters are challenging to pronounce
- Daily Reflection:** I started to identify the characters faster based on their common letters. With the letter cards feature on Duolingo, I was able to memorize the characters faster and easier without asking anyone's help.

At the end of the journal, share what you found over the 30 days about Duolingo's learning experience.

After completing the case study, I found out that in order to have a good learning outcome only using Duolingo and only studying by myself, I have to have very strong self-control. I have to be consistent to take lessons everyday. Sometimes I was busy the whole day, and I didn't have time or just felt lazy; I missed a Duolingo practice at the end.

If this happens more than once, I will potentially lose interest in learning using Duolingo daily and forget about the language at the end. Self-control is essential in this learning method; if a person has weak self-control, then there is a good chance that he/she won't learn the language successfully.

←

SUPER

Review your recent mistakes

START +16 XP

8 mistakes

♥ Select the correct character for "hye"

♥ Select the correct character for "yo"

♥ Select the correct character for "ye"

♥ What sound does this make?
유

♥ What do you hear?

♥ Select the correct character for "meu"


♥ What sound does this make?

🏠한📅👥🛡️⋮

←

Achievements


Personal Records



1249

ongest Streak


May 29, 2024



5

Perfect Lessons

May 28, 2024




129

Most XP

May 28, 2024


Awards



25

Mistake Mechanic


2 of 10



200

Quest Explorer


6 of 10



1500

Word Collector


9 of 10



20000

XP Olympian


9 of 10



200

Sleepwalker

10 of 10



100

Flawless Finisher

5 of 5

QUESTS

BADGES

MAY

Falstaff's Freewheeling Ride

🕒 2 DAYS

Complete 30 quests

22 / 30

Friends Quest

🕒 3 DAYS

Follow your first friend

0 / 1






FIND A FRIEND

Daily Quests

🕒 6 HOURS

Earn 30 XP

🏠한📅👥🛡️⋮



Emerald League


TIME LEFT

🕒 4 days

TODAY

📍 0 places


1



Engrine

265 XP


2



Chloe K

1+ year224 XP


3



Kelvin

3+ years182 XP


4



Kevin

2+ years105 XP


5



Bella

1+ year103 XP


6



Lupylu

93 XP

7



Kael Kristof

89 XP

🏠한📅👥🛡️⋮

Interview Findings



- Flexibility and Engagement



- Interactive Learning and Participation

- Application and cultural comprehension
- Oversimplification and Practical Usage
- Pronunciation and Learning Outcomes

Theme	Observation	Insight	Representative Quotes
Flexibility and Engagement	All participants acknowledged Duolingo's flexibility and appreciated its interesting interaction, which increased their engagement levels after class.	This theme was consistently noted, highlighting Duolingo's ability to maintain user interest through flexible learning.	"I love how flexible Duolingo is. I can fit in a lesson whenever I have a few minutes, which makes it so much easier to keep up with my language practice." – interviewee 3
Interaction Learning and Participation	Participants emphasized the significance of structured, in-person classes that foster active learning through professor and teaching assistant engagement. They valued the opportunity to ask questions, especially about nuanced aspects like pronunciation.	The theme of <u>interactive learning</u> was strongly emphasized, indicating the benefits of in-person engagement over solitary app-based learning.	"The structured, in-person classes are crucial for my learning. The interaction with professors and teaching assistants helps me grasp complex concepts more effectively." – interviewee 6

Interview Findings

- Flexibility and Engagement
- Interactive Learning and Participation
- Application and cultural comprehension
- Oversimplification and Practical Usage
- Pronunciation and Learning Outcomes

Application and Cultural Comprehension	Participants pointed out the lack of cultural comprehension in Duolingo, which led to difficulties in applying the language in real scenarios. In contrast, traditional classes integrated cultural elements that enhanced their learning experiences.	The absence of cultural context in Duolingo was a common concern, highlighting a significant gap in the app's curriculum.	"Duolingo is great for basic language practice, but it lacks cultural context, which makes it hard to apply what I've learned in real-life situations." — interviewee 4
Oversimplification and Practical Usage	Participants noted Duolingo's tendency to oversimplify words and focus on translation rather than practical usage, often repeating questions to reinforce patterns instead of promoting real-life application.	This recurring theme highlighted a limitation in Duolingo's approach to language teaching.	"I noticed that Duolingo often repeats questions to reinforce patterns, but this doesn't always translate to practical language use in everyday situations." — interviewee 6
Pronunciation and Learning Outcomes	Interviewees 2 and 3 emphasized that traditional language classes focus more on sentence structure and grammar, leading to positive learning outcomes. However, only interviewee 1 felt that Duolingo excelled in helping with her Chinese pronunciation.	The mixed feedback on pronunciation and learning outcomes reflected varied perceptions of Duolingo's effectiveness	"For me, traditional language classes are invaluable because they provide a comprehensive understanding of grammar and sentence structure, which Duolingo doesn't cover as thoroughly." — interviewee 8

Limitations, Future Work.



Impact, Strengths, Limitations/Ethical Consideration



Lesson Learned

Data collection and analysis of various language learning approaches is crucial.



Implication

Three methods of data collection helps recommend the best language learning methods for students' career goals.



Strengths

Research provides strong recommendations in six categories. Choosing the top three ensures the best learning experience.



Weaknesses Future Work

Add more categories for a tailored approach, such as switching from Duolingo to classroom learning at certain levels.



Ethical Consideration

Interview recordings, survey anonymity, and case study disclaimers.

Our Product.



What factors are most important to you when selecting a language learning method ? Please select three.



Q & A
