KKEOX: Let's Analyze!



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Project Background

MAJOR TECHNOLOGIES USED:

- SQL (Postgres)
- Python (Pandas, StatsModel)
- Tableau

DATA/INFORMATION FROM:

- Kaggle.com
- KKBOX (<u>Company</u>)

More detailed information can be found at:

https://github.com/Carlene/KKBox_Analysis



KKBOX

A short history of the company



Over 10,000,000 users Since 2005

50,000,000+ tracks

Largest database of Chinese Music

5 different countries

Taiwan, Hong Kong, Japan, Singapore and Malaysia



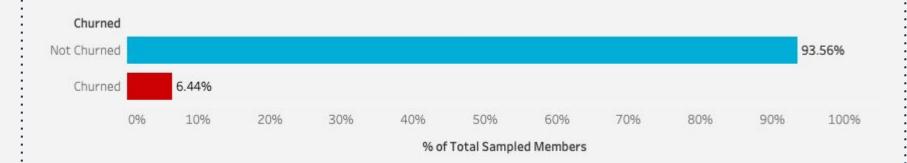


Who are KKBOX's customers?

Study of demographics

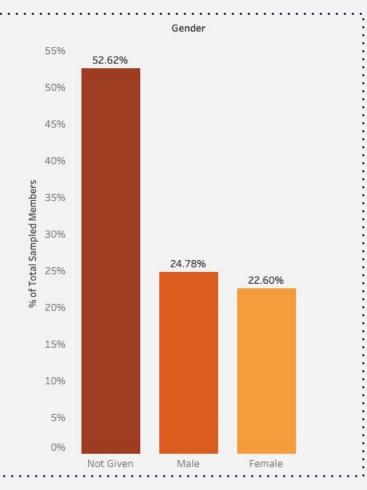
Customer Churn

Sample of 665k subscribers in March 2017



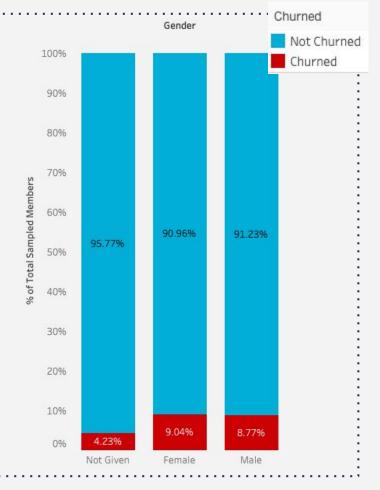
Gender

 2% difference male and female subscribers



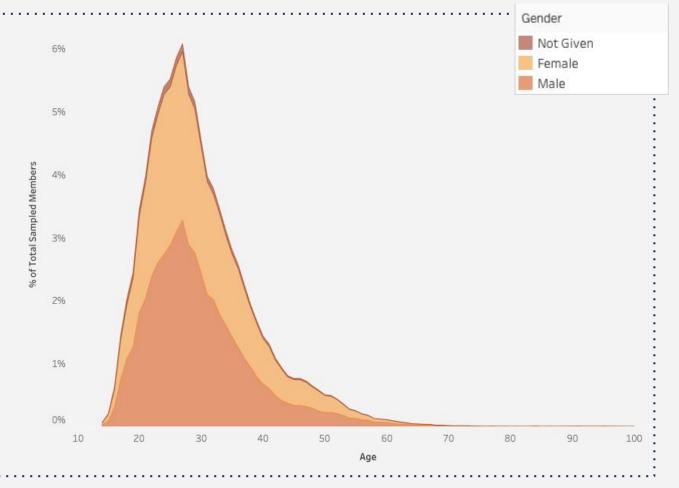
Gender

- Women churn slightly more
- Male and female subscribers churn more than those who declined to self-identify



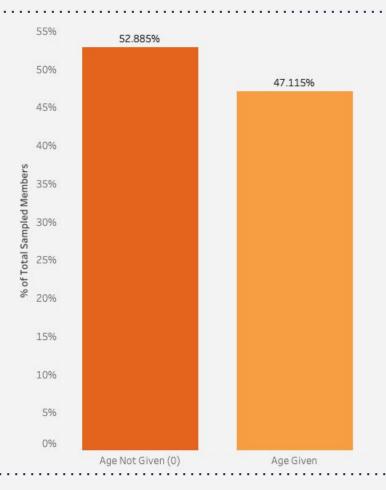


 Only 1% of users give an age with no gender



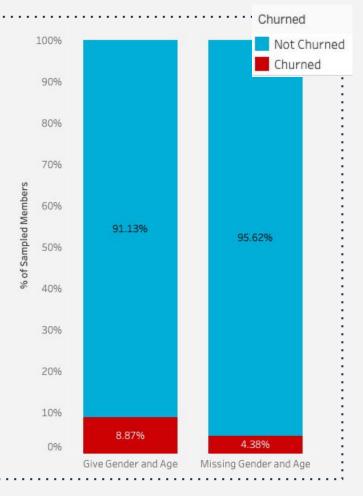


• 5% more subscribers who choose not to give their age



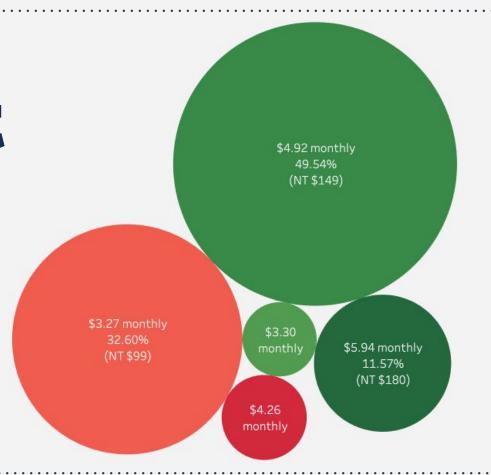
Age

- 5% more subscribers who choose not to give their age
- Users who self-identify both gender and age tend to churn more often



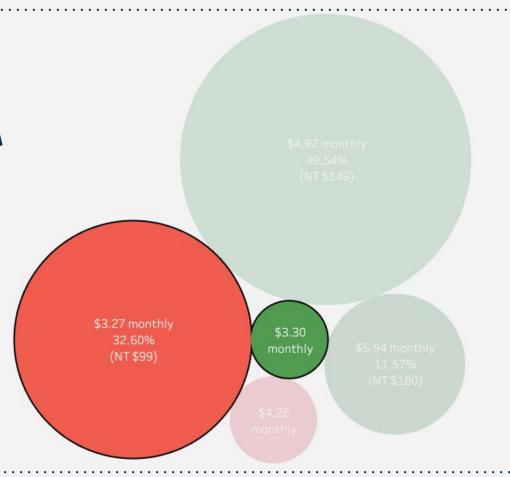
Payment Plans

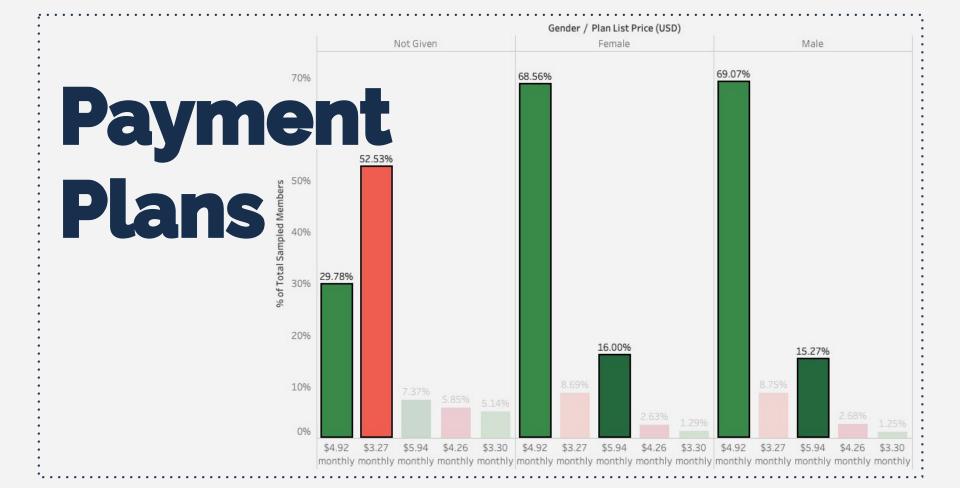
- 42 Different Plans
- Top 5 plans by popularity (~98% of Subscribers)



Payment Plans

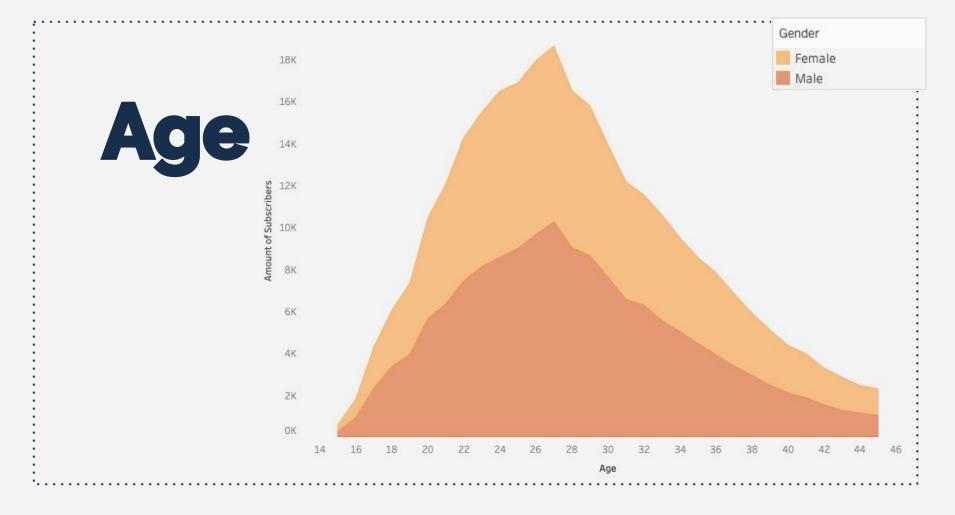
- 42 Different Plans
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Hypothesis Testing

Questions/Answers





20-26 vs. 27-33

- Do not tend to pay the for the same plans
- The 20-26 tends to pay for **more** expensive plans



20-26 vs. 27-33

- Do not tend to churn at the same rate
- The 20-26 group tends to churn more often

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Conclusions

Questions/Answers



Results

- Over 50% of subscribers do not self-identify
- Self-identified users pay more than those who don't
- They also churn slightly more than those who don't

Next Steps

- Finding less anonymized data for more detailed customer study
- Figure out which payment plan will keep the most users while allowing for maximum revenue
- A/B testing for plan pricing



Any questions?