



#### We Gotta A Score to Settle! The Intersection of Technology and Score Study Skills

#### **MUSICIANS**

I have 20 + years in the performing arts and 10 years in education. learned the components of score study individually as and undergraduate but never had a focused curriculum on the concept as a whole.

For this project, I upheld one driving question to keep the research honest.



... music history, music theory, applied studio study, and keyboard skills... checkpoints to be a comprehensive musician.

Kevin O'Carroll

How do I create mobile engaging content for score studying skills?



How do we involve teachers

in the design?



How should we engage students?

# Practice. Cry. Practice. Eat. Practice, Study, Practice. Cry some more. Practice. Repeat.



#### User Interviews

Results were organized in these categories

- Top features
- Teacher's technological use and guidance
- Desired features
- Technological impact on learning
- Voice desires for "easy" to navigate interface



## Goals



Which features do students desire?



How can engagement be individualized?



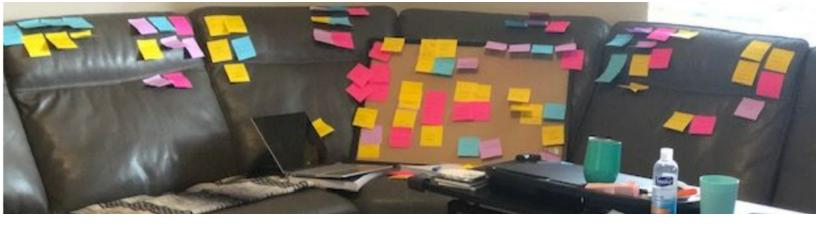
How do teachers support technology inside & outside of class?

# Affinity Mapping

I went through this process twice. Why?

I didn't have immediate access to my target demographic of music majors. The first interviews focused specifically on "study guide" features. With my music major users, I got more insight into the specific skill-building activities musicians desired.



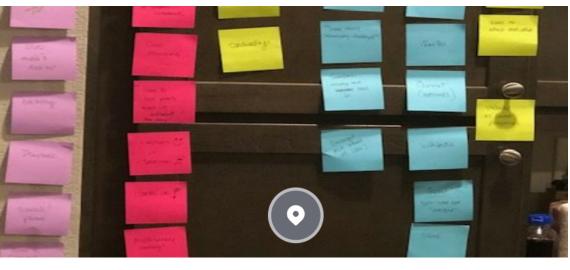


## These questions remained constant for both interview rounds.





What impact did technology have on your learning?



## **Research Insights**

patterns that emerged. These focused around a "simple" design and that students desire engagement from technology. More support, scaffolding, and modeling from instructors is neeeded to accomplish this.



**Key Takeaway** 

Students see value, but need

more guidance to implement it.

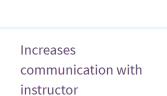
**Benefits** 

These are the benefits student's stated.



Easier to access

coursework





Improved quality of

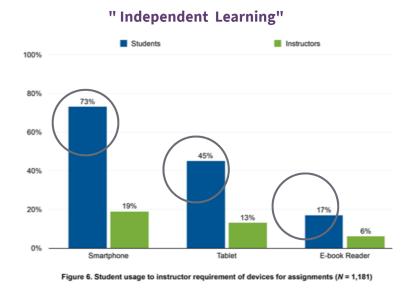
Increases knowledge in

field of stuy

work

Increases motivation to complete course work.

**Student Mobile Learning Practices in Higher Education** 



#### Student usage to the instructor's requirement of devices for assignments



Owning a device has **NO** correlation with proficiency.

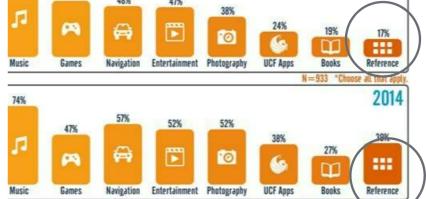




...50% report using smartphones and tablets for school work vs 86% that own them. -Student Mobile Learning Practices 2015 Advanced Distributed Learning Initiative



#### App usage for education is steadily increasing.





**Key Takeaway** 

Pedagogical support is critical!

### **Competitive Analysis**

There were no educational apps that combined skill assessments and curriculum with study tools. (study guides, note taking, flashcards) all in one. So, I looked at other educational apps.



Quizlet was the most used and desired platform for its easy access to information and flashcard features. I examined Evernote on my own as no users mentioned it in the survey.

# **Opportunities of E-learning**

The biggest opportunity of e-learning is its flexibility.





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...leverage mobile teaching to adopt knowledge and skills through education while learner's mobility is independent of time and locale.

-Student Mobile Learning Practices 2015 Advanced Distributed Learning Initiative



**Diverse content** supports learning

style and individual experiences



Real-time updates and platform integration of information



Study guide & note taking features organize knowledge

#### Engagement



Instructor and system feedback on performance via analytics

# **Challenges of E-learning**

As mentioned above, teachers need support just like students. They too need to take on a collaborative mindset with their peers to provide effective resources for students inside and outside the classroom.





Instructional designers and specialists can offer instructors pedagogical support by walking beside them as they outline their learning goals and teaching strategies.

-Student Mobile Learning Practices 2015 Advanced Distributed Learning Initiative







and training

#### Prototype, Wire Frame, User

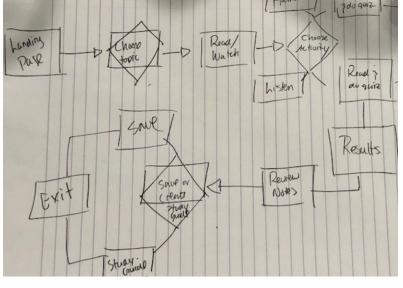
The motto here was "simplicity, simplicity, simplicity". I wanted the app to be accessible in terms of finding and synthesizing information in a way that builds upon features for any future designs.



# Music majors need a comprehensive resource to build their fundamental skills as a musician in an accessible and engaging way.

-Rahny Day





#### The Future ScoriT The curriculum for music majors is incredibly demanding and always changing. Digitizing content is changing the landscape of technology, but it must be done with the utmost consideration for learning, design, and behavioral theories to do students justice. Below are some future features to be reevaluated and explored. More music majors Teacher survey: Garage Band, music concepts all years. Sibileus and Integration, Naxos implementation Anthology Aural Skills/ **IPA/**Diction database Keyboard German, Fren Italian



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