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Augmenting Anki: Gamification of Software to Promote Retrieval Practice with Spaced Repetition

CIMED Research Day 2021

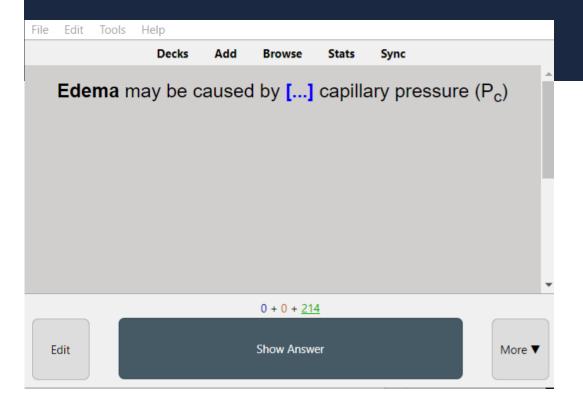
Joseph Policarpio, Bailey MacInnis, Robert C. Wallon PhD



Motivation for Innovation



Motivation for Innovation



Motivation for Innovation



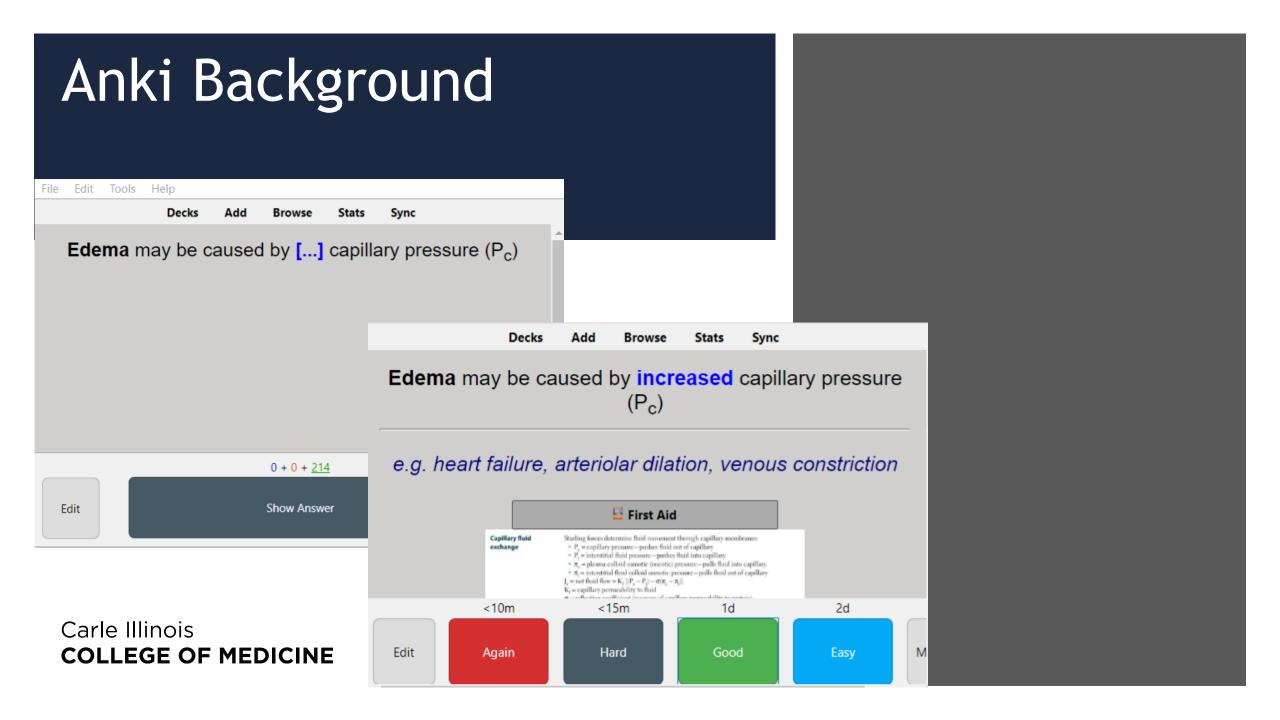




1. Background

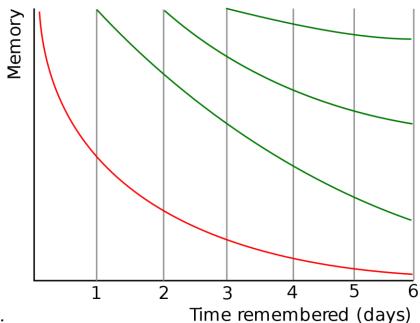
2. Our add-on to Anki

3. Future directions



Anki Background

The Forgetting Curve



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• Spaced repetition

 Correct answers advance to longer interval

> Easy Older Less frequent

 Incorrect answers return to shortest interval

Difficult
Newer

More frequent

Gamification



Examples

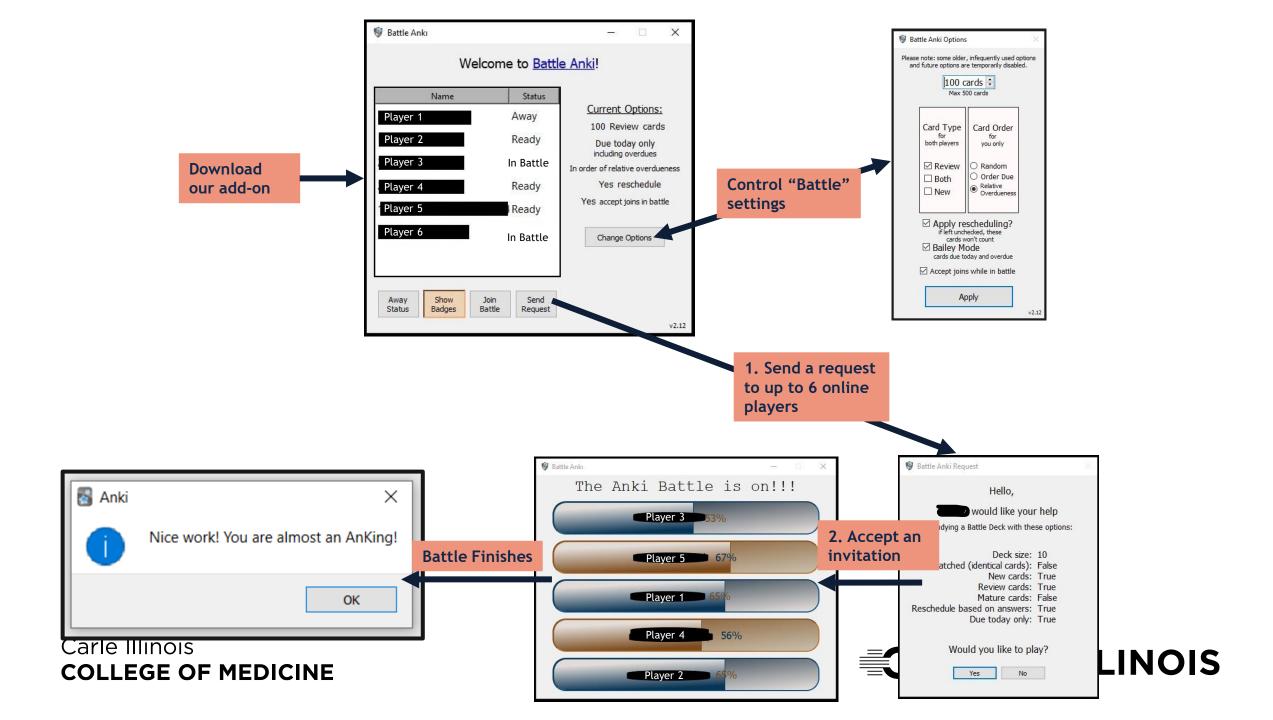
- Points
- Badges
- Leaderboard
- Time Constraint
- Narrative

Benefits

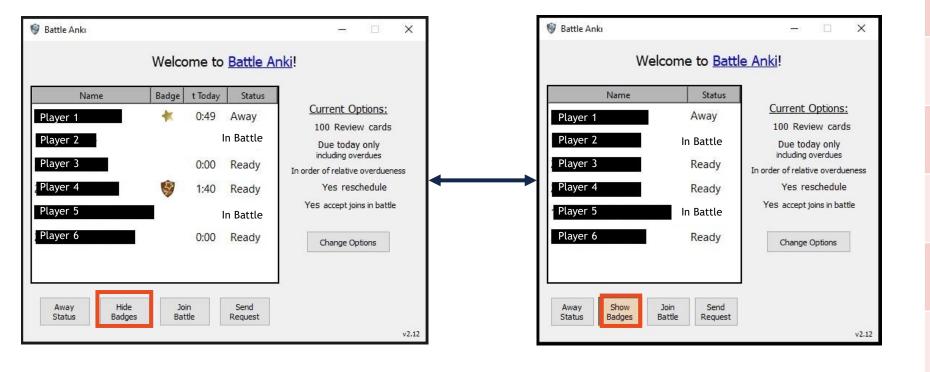
- Feelings of relatedness
- Autonomy
- Competence







Customization of Gamification



| Badges | # of cards |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| | >0 |
| | 250 |
| | 500 |
| | 750 |
| | 1000 |
| The state of the s | 2500 |
| | 5000 |



Summary

- 500th download from Ankiweb TODAY!
- At least 7 GitHub repository clones
- May increase
 - Intrinsic motivation
 - Autonomy
 - Relatedness to colleagues



Scan for Ankiweb add-on page:

ankiweb.net/shared/info/613520216







Future Directions

Research Study

- Crossover design
 - Control period
 - Intervention period
- Subjective survey of each period
- Objective usage metrics



Scan for Anki website:

apps.ankiweb.net

Scan for Ankiweb add-on page:

ankiweb.net/shared/info/613520216







