



# Akademia

Team #52:

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# Mission Statement

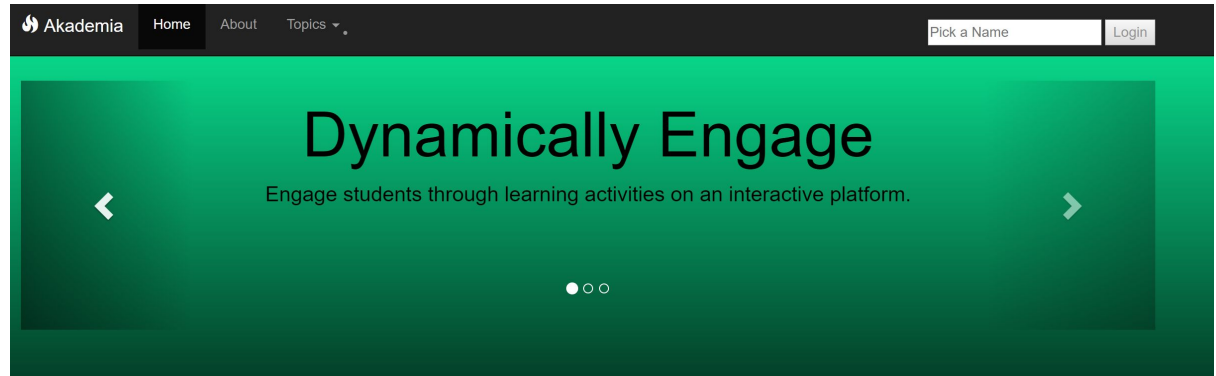
*Veni Vidi Didici*  
*I came, I saw, I learned*

Goal: to provide a fun, interactive way  
for young scholars to learn material



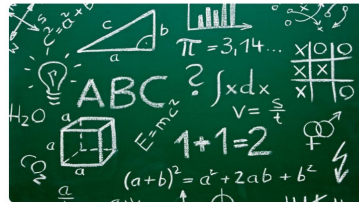
# Overview

Akademia is a website to help young students learn different topics through interactive activities



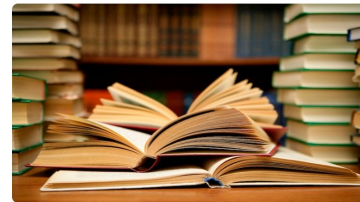
Veni, Vidi, Didici | I Came, I Saw, I Learned

Akademia provides students with the content and techniques to learn and understand topics quickly and affectively.



Explore Mathematics

Explore mathematics through lessons and activities on [github.io/index.html](https://github.io/index.html)



Explore Reading

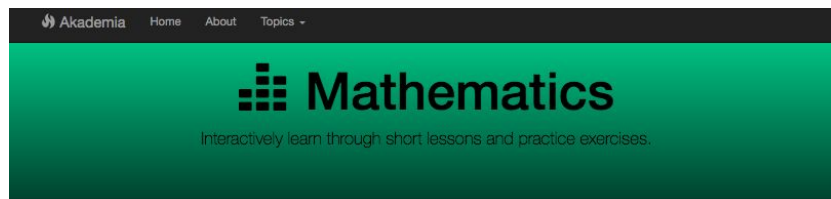
Explore the best practices of identifying main ideas, plots, and author choices through our interactive reading



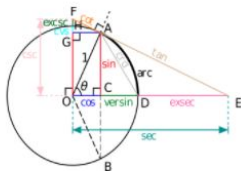
Explore Science

Explore scientific ideas and concepts through learning activities and lessons. Learn the basics of chemistry and

# Topic Page Layout



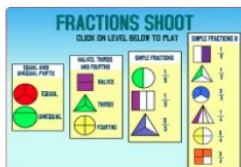
## Learning Topics For the intermediate math student



### Introduction to Trigonometry

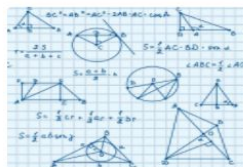
[Coming Soon]

Learn the basics of trigonometry through interactive lessons and exercises. Learn concepts such as SOHCAHTOA, The Unit Circle, Degrees and Radians, and solving triangles.



### Learn Fractions

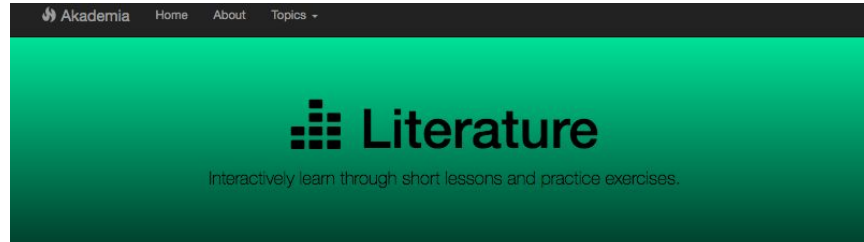
A fraction (from Latin fractus, "broken") represents a part of a whole or, more generally, any number of equal parts. When spoken in everyday English, a fraction describes how many parts of a certain size there are, for example, one-half, eight-fifths, three-quarters.



### Geometry Basics

[Coming Soon]

Grasp the basics of Geometry through visual readings, activities, and lessons. Learn about points, lines, rays, angles, planes, and vertices.

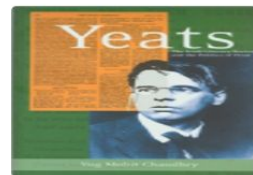


## Learning Topics For the intermediate reader



### Introduction to Eastern Literature

Learn Modern Eastern Culture through Readings of Selective Works



### Analyzing Literary Poems

Learn how to analyze poems by practicing identifying poem structure.



### Fun with Short Stories

[Coming Soon]

Learn how to analyze short stories and identify author choices.

### Productively Practice

At Akademia, we pride ourselves in providing students with an environment

### Creatively Think

By encouraging our students to think creatively through our interactive assignments and games, we open the door to greater opportunities.

### Effectively Learn

Through our various lessons and learning activities, students are able to effectively learn and master concepts.

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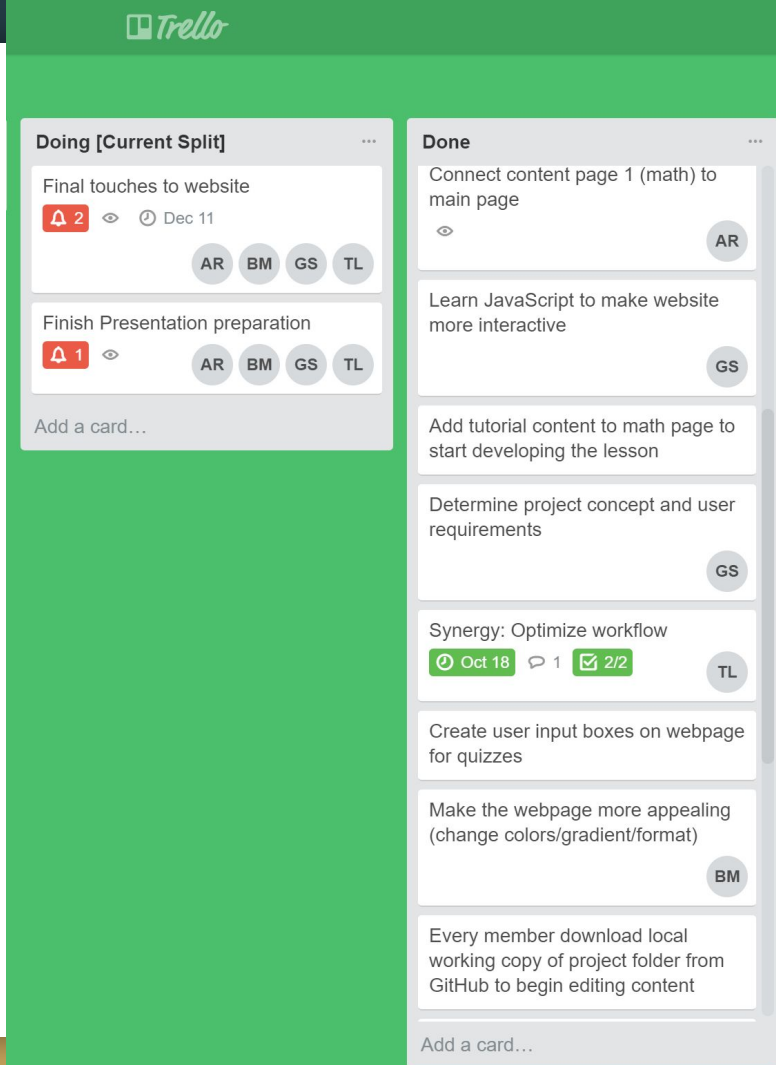


Tools



# Tools Used: Trello

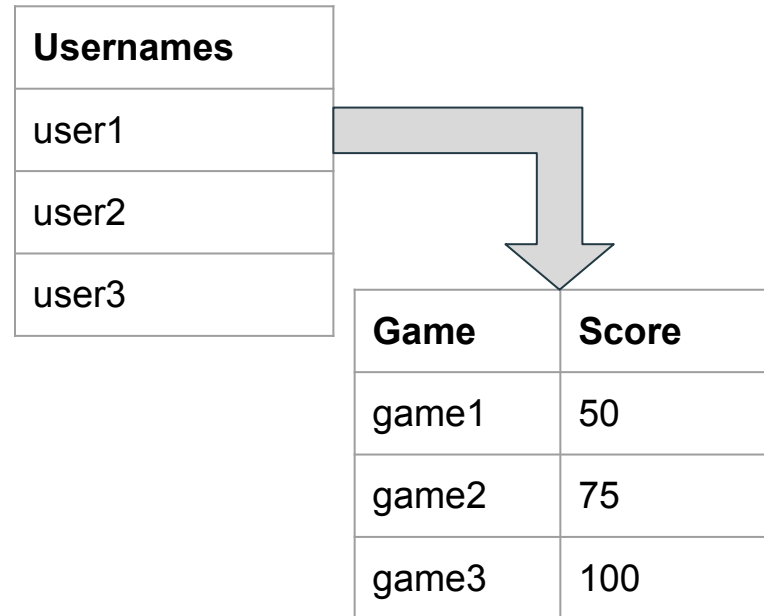
- Purpose: Create and assign tasks to be completed in sprints
- Group Rating: 3/5
  - Good concept but hard to keep up with moving tasks between the backlog, do, doing, and done
  - Hard to get in the habit of checking the product backlog
  - Good tool overall
    - Helpful for organization in a lengthy project with several moving parts



# Tools used: MySQL Database with PHP



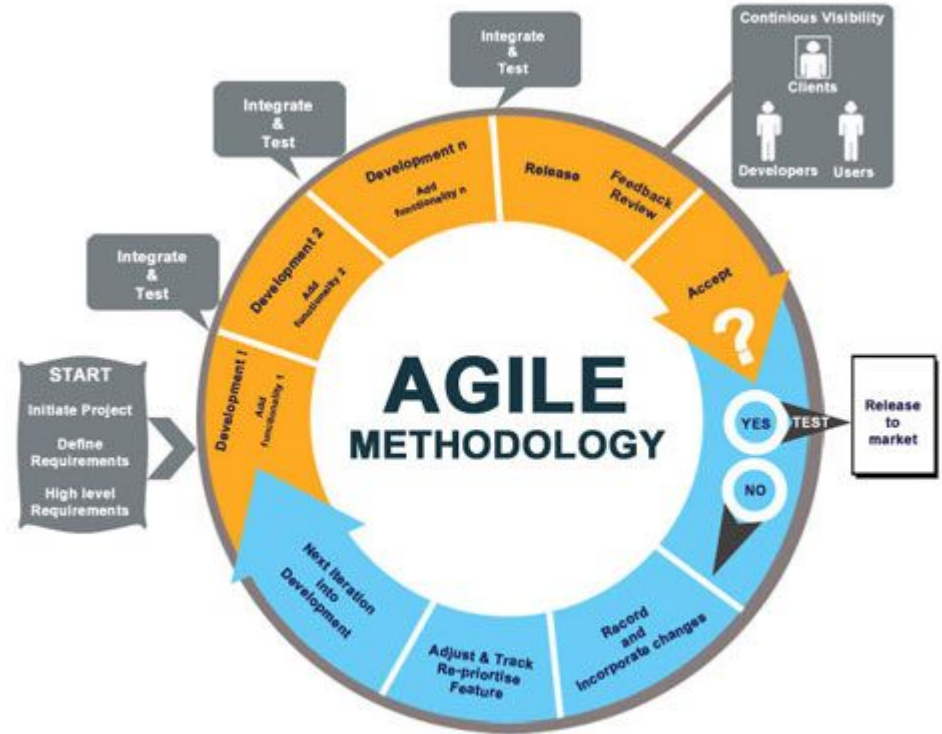
- Purpose: To get user info from website (PHP) and store in database (MySQL)
- Group Rating: 5
  - Php allowed us to easily take user inputs and enter it in our database
  - MySQL was simple to use and had plenty of documentation on how to use it





# Methodology Used: Agile/SCRUM

- Purpose: Development process that encouraged collaboration and quick turnarounds for each step of the process
- Group Rating: 4
  - Encouraged teamwork
  - Weekly scrum meetings led to our optimization of workflow (easy to assign tasks and talk through problems)
  - Increased quality of our sprint deliverables





## VCS Repository:



- Purpose: To keep track of the versions of our code and handle merge conflicts
- Group Rating: 5/5
  - Useful way to keep track of versions
  - Helpful to see different commits and keep track of progress
  - Allows concurrent development

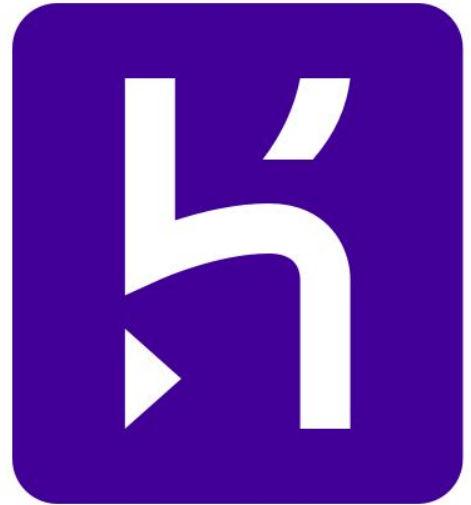
# Testing Tool: Selenium



- Purpose: Selenium is a record/playback tool for creating custom tests without learning a test scripting language.
- Group Rating: 5/5
  - Provided helpful testing environment for our purposes
  - User friendly and plenty of documentation

# Deployment Environment: Heroku

- Purpose: Cloud platform (PaaS) used in our project to deploy our site
- Group Rating: 5/5
  - User friendly
  - Plenty of documentation on how to use it



# Challenges

- Meeting projected sprint deadlines (not anticipating the challenge of a certain task)
- Aiming too high - overestimating our abilities
  - Not much web or database experience, it was difficult to meet all of the goals we set out on
- Combining our individual work
  - Mainly worked separately - sometimes difficult to combine all the moving parts



# Overcoming Challenges



- When tasks were too difficult to meet sprint deadline:
  - Extended deadlines and/or scheduled meetings to work through together
- When we overestimated our abilities:
  - Dialed back our project to be more attainable based on our skills and available time
- When we needed to combine all of the moving parts:
  - Communication - discuss what has been updated and how to implement it



Live Demo