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Continue your learning journey



Daily Streak

Keep learning to maintain your streak!

3



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In Progress

Mathematics

65% complete

Calculus 101



Computer Science

30% complete

Python Programming



Humanities

15% complete

Art History



Continue Learning



Introduction to Calculus

Calculus 101

⌚ 15 min



Python Data Structures

Python Programming

⌚ 12 min



Renaissance Art Overview

Art History

⌚ 20 min



Home



Courses



Rankings



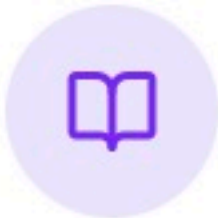
Profile

Profile



Jamie Doe

jamie.doe@example.com



8

Courses In Progress



12

Completed Courses



48

Hours Studied



15

Achievements

Account



Settings



Help & Support



Logout



Home



Courses



Rankings



Profile

Settings

Profile Settings

Display Name

Alex Johnson

Bio

Computer Science student at State University

Save Profile

Notification Settings

Push Notifications

Receive notifications about your learning progress



Daily Reminders

Get daily reminders to maintain your learning streak



App Settings

Language

English

Spanish

French

Theme

Light

Dark

System



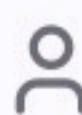
Home



Courses




Rankings



Profile

Explore Courses

 Search courses...

Categories

- All Courses
- Mathematics
- Computer Science
- Hi

Mathematics

Calculus 101

12 lessons

Computer Science

Python Programming

8 lessons

Humanities

Art History

10 lessons

Science

Chemistry Fundamentals

14 lessons

Business

Introduction to Economics

9 lessons

Mathematics

Linear Algebra

11 lessons



Course Details

Mathematics

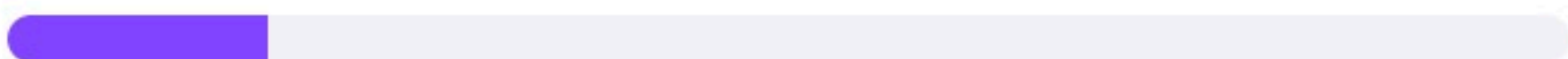
Calculus 101

 Prof. Jane Smith

Learn the fundamentals of calculus, from limits and derivatives to integrals and applications. This comprehensive course covers all the essential topics needed to build a strong foundation in calculus.

Course Progress

2 of 12 lessons completed



Resume Course 

Course Content



Introduction to Limits

 15 min



Continuity and Differentiability

 20 min



3

Introduction to Calculus

 25 min



4

Derivatives and Rules

 30 min



5

Applications of Derivatives

 35 min



6

Introduction to Integration

 25 min



7

Techniques of Integration

 30 min



8

Applications of Integration

 35 min



9

Improper Integrals

 20 min



10

Differential Equations

 25 min



11

Sequences and Series

 30 min



12

Final Review

 40 min



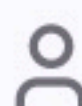
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Courses



Rankings



Profile



Calculus 101

Lesson 3 of 12



2 completed

10 remaining

Introduction to Calculus

📖 15 min read

This introductory lesson covers the basic concepts of calculus including limits, derivatives, and integrals.

Calculus is a branch of mathematics that focuses on studying rates of change and accumulation. It provides a framework for modeling systems where there is change, and for predicting future behavior based on current conditions.

There are two main branches of calculus: differential calculus and integral calculus.

Differential calculus is concerned with rates of change and slopes of curves, while integral calculus focuses on accumulation of quantities and areas under or between curves.

One of the fundamental concepts in calculus is the limit. A limit is the value that a function approaches as the input approaches some value. Limits are essential for defining derivatives and integrals.

The derivative of a function represents the rate at which the function is changing at a given point. Geometrically, it can be interpreted as the slope of the tangent line to the function's graph at that point.

The integral of a function, on the other hand, represents the accumulation of quantities. It can be interpreted geometrically as the area under the curve of the function.



Test Your Knowledge



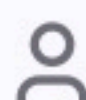
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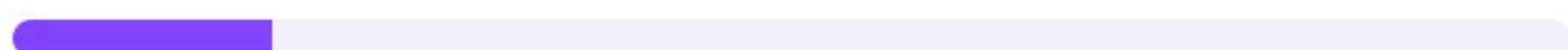


Knowledge Check



Calculus 101

Lesson 3 of 12

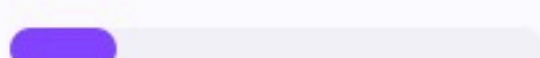


2 completed

10 remaining

Back to Lesson

Question 1 of 5



What is the derivative of $f(x) = x^2$?

☐ A $f'(x) = x$

☐ B $f'(x) = 2x$

☐ C $f'(x) = 2$

☐ D $f'(x) = x^2$

Previous

Check Answer



Home



Courses



Rankings



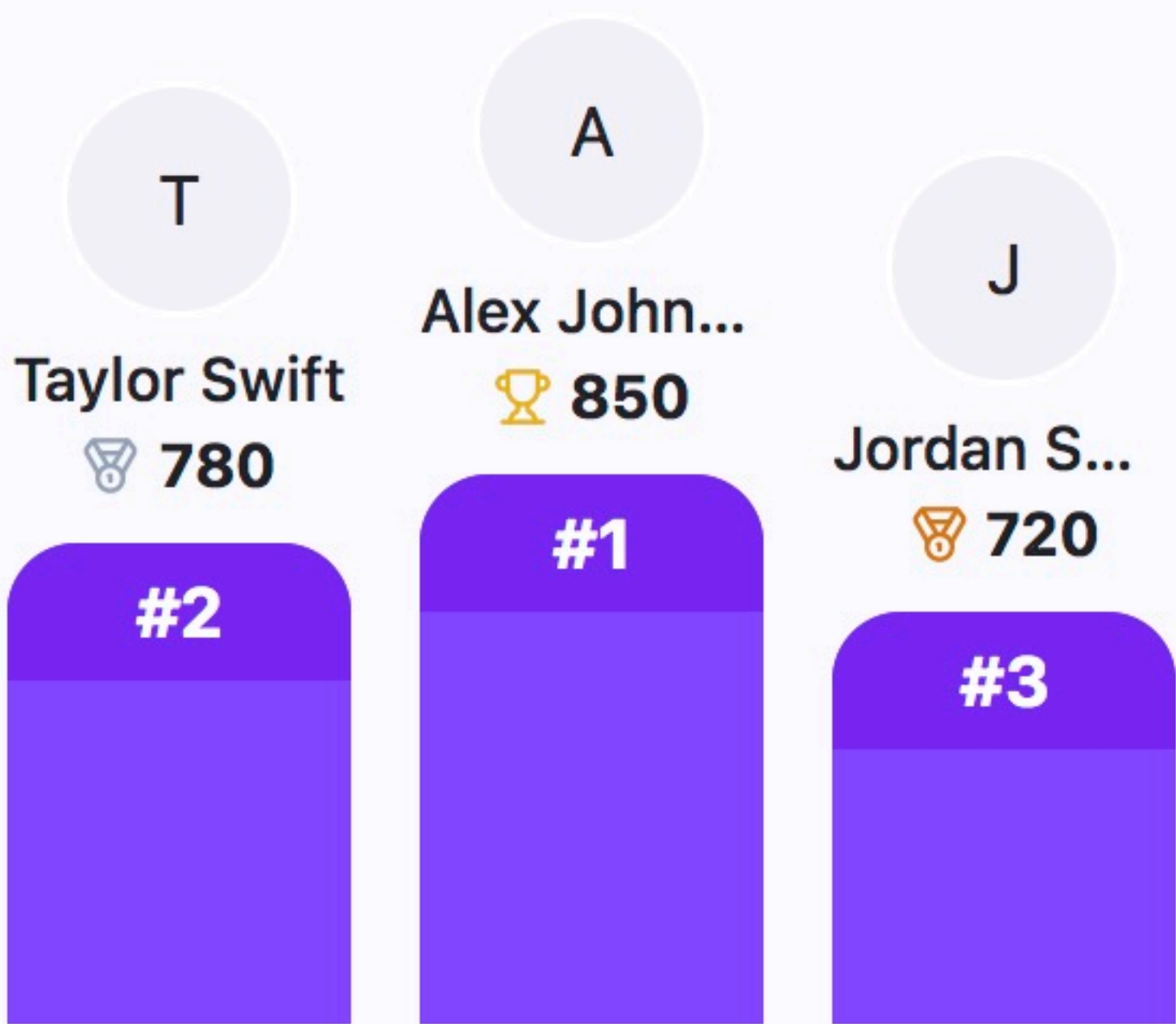
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Leaderboard

See how you rank among other learners

This Week

All Time



4	M	Morgan Stanley	650
5	J	Jamie Rodriguez	610
6	C	Casey Williams	590
7	R	Riley Thompson	560
8	Q	Quinn Martinez	530

Total Users



1,247

+12% from last month

Active Courses



24

+3 new this month

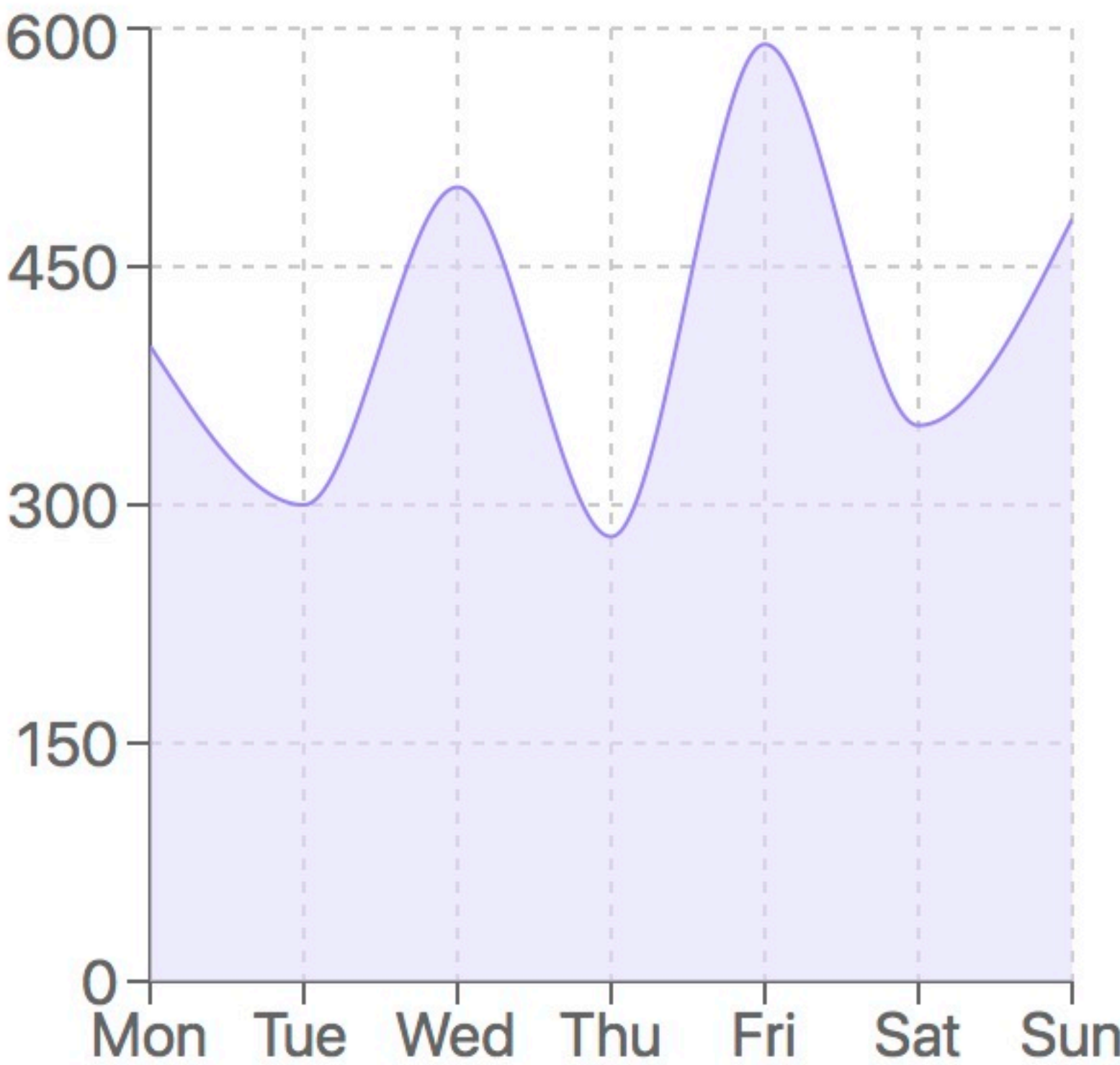
Quiz Completion



68%

+5% from last month

User Activity (Last 7 Days)



Manage Courses

Recent Users

Course Overview

+ Add Course

Featured	Course Name	Enrolled	C
<input type="radio"/>	Introduction to Computer Science	247 students	<div></div>
<input type="radio"/>	Data Structures and Algorithms	183 students	<div></div>
<input type="radio"/>	Web Development Fundamentals	315 students	<div></div>
<input type="radio"/>	Machine Learning Basics	156 students	<div></div>

