



computing for everyone

# Background

- Learned programming at a young age
- Saw a huge step back in university where I had to write code on paper and hours spent setting up machines for coding
- Started dreaming up an environment to learn, practice, share, and collaborate on programs on the go

# Web Coding Tech

- Built the first open source web coding tech
- Featured in conferences, talks, and news
- Used by many startups for online coding:



# My work at Codecademy

- Joined the company as the first engineer
- Lead product engineering
- Built code execution and front-end infrastructure

The new product is based on work done by Codecademy's first new hire, Amjad Masad, a Jordanian whose open source work was already powering a big part of Codecademy. The aim is to get people writing and sharing programs without the hurdles of downloading software and learning to work in an IDE.

source: [Observer](#)

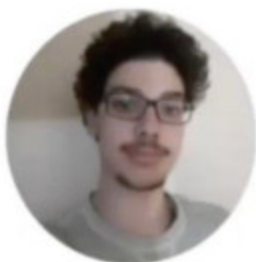
# My work at Facebook

- Same problem different angle
- Lead JavaScript Infrastructure
- Worked on projects like React Native and Babel



*BABEL*

# Team



Faris Masad

He's been building software and collaborating with Amjad since childhood. He's also an early React.js adopter and on the bleeding edge of frontend engineering.



Haya Odeh

Full-stack designer. Previously, lead internationalization projects at Organic and the Clinton Foundation. Recently, she's been focusing on product design. Consulted at early stage startups and working on repl.it.



Amjad Masad

Was the first engineer at Codecademy, and then moved to Facebook where he lead the JavaScript Infrastructure team and helped build projects like React Native and Babel.js

# Mission

- Democratize CS education and help make it a fundamental subject
- Blur the distinction between learning and building
- Make building and shipping basic software as easy as blogging is today

# Thesis

- Computing and computational thinking is a fundamental skill in this century
- Developers and learners often start from the same place
- There is currently no incremental path from user to programmer
- Contrived learning environments are not helping anyone learn
- The capacity of modern computers is much bigger than the expressivity of our tools
- Despite all the excitement in CS education, teachers are largely underserved



# Master Plan

- Growth by building tools for and signing up teachers and students
- Build a simple, network and AI assisted interface that blurs the distinction between learning and building
- Evolve into a platform where people come to learn, build, explore, and host applications

# Product & Traction

- repl.it the best way to run, save, and share code on the web
- 100K+ monthly active users (all organic, 60% returning, 13 minutes on site)
- 70% students, 5% Teachers
- 7 million programs ran our servers last month

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### ▼ Popular

**Python3:** A dynamic language emphasizing readability.

↑

**Ruby:** A natural dynamic object-oriented language.

**JavaScript:** The de facto language of the Web.

**Scheme:** An elegant dynamic dialect of Lisp.

**C#:** A Microsoft .NET programming language

**Java:** A concurrent, class-based, statically typed object-oriented language.

**Nodejs:** evented I/O for v8 javascript



share

save

run

```
1 def factorial(n):  
2     if n == 0:  
3         return 1  
4     else:  
5         return n * factorial(n - 1)  
6 print(factorial(5))  
7
```

input

clear

```
Python 3.5.1 (default, Dec 2015, 13:05:11)  
[GCC 4.8.2] on linux
```

&gt;

=&gt; None

&gt;

# Users & Testimonials

- Teachers love us for the freedom, simplicity and reliability (they call learn-to-code websites "too canned")
- Majority of the top bootcamps use us daily
- Users from high schools, community colleges, and universities all over the country and world.

# Social Media Love



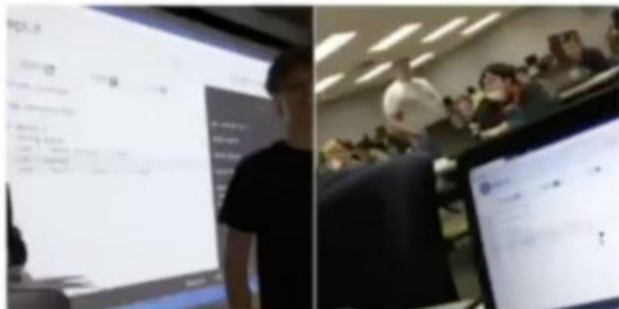
Steve Keinath

@skeinath



Follow

2nd year students teaching potential students  
intro to C++ using [@replit](#)



Melanie Wiscount EdD

@mwiscount



Follow

My @MTHSTrainer #MTHS\_CS are nailing the  
#Python #CSS & #HTML questions by the  
#develop team at #ECMCLab. #STEM



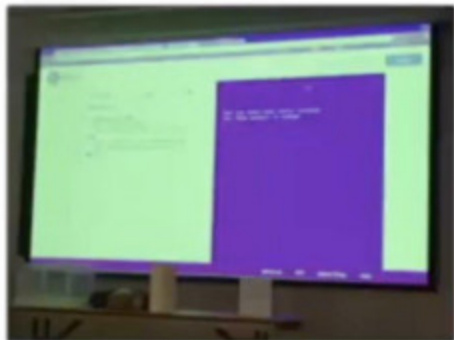
GirlDevelopItHouston

@githouston



Follow

Using [repl.it](#) online code editor to learn  
if/then/else statements



Destiny Jenkins

@Destinyyyy524



Follow

Check out my Python Project I coded &  
debugged which has prepared me 4 a job in the  
real world. [repl.it/Byz2/37](#) @mwiscount  
#MTHS\_CS

3:00 PM - 9 Apr 2018

# Hour of Code at the Mountain View High School Using repl.it





# Top Bootcamp Users



# Classroom product status

- Iterating closely with teachers (meetings, emails, trello board)
- In the beta currently: GA, MVHS, Perse, a few others
- Moving really fast

# Quick demo

# Technology

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- Flexible, scalable and secure cloud sandbox infrastructure
- Currently building AI-assisted tools (starting with error correction)

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