

Enter the Matrix

How you can transition into development

TechEd 2019 - Ronnie André Bjørvik Sletta



The better the question. The better the answer.
The better the world works.



MANDATORY BIO



- SAP UX developer @ EY Skye
- Worked 15 years in the Norwegian Army
- Working with SAP tech since 2015



RESOURCES

<http://bit.ly/teched2019-etm>

ONCE UPON A TIME...



FIRST SOME GROUND RULES



- Why do you want this?
- Be open minded
- Always look for opportunities

SO NOW WHAT?



- Think like a programmer
- Learn a programming language
- Find new friends

THINK LIKE A PROGRAMMER



EXIT

This is CS50.

what ultimately matters in this course is not so much
where you end up relative to your classmates but where
you, in **Week 12**, end up relative to yourself in **Week 0**

Learn Computer Science

23,420,394,289 lines of code written by 41 million students.

Create an account to save your progress and projects. Or just start coding - no account needed. All courses are available at no cost.

[Create an account](#)

Full course catalog

[View my recent courses](#) ➞

Browse our catalog of courses from Code Studio and 3rd party partners.

Grades K-5

Learn to make your own game, app, or computer drawing.

[Learn more](#)

Grades 6-12

Build real working apps, games and websites using blocks, JavaScript, CSS, HTML and more.

[Learn more](#)

Beyond K-12

Go beyond Code.org and continue your path in computer science. Browse online schools and courses.

[Learn more](#)

Hour of Code

[View more Hour of Code tutorials](#) ➞

If you don't have time for a full length course, try a one-hour tutorial designed for all ages. Join millions of students and teachers in over 180 countries by starting with an Hour of Code.



Scratch

File Edit Untitled-1 Share See Community Give Feedback scratch-cat

Blocks Costumes Sounds

Motion

- move (10 steps)
- go to x: (-21) y: (88)
- go to [random position]
- glide (1 secs to x: (-21) y: (88))
- glide (1 secs to [random position])
- turn (15 degrees)
- turn (15 degrees)
- point in direction (90)
- point towards [mouse-pointer]
- change x by (10)
- set x to (-21)
- change y by (10)

when green flag clicked

forever

- move (4 steps)
- if [x position > (260)] then
- set x to (-180)

Cat1 Flying

Stage

Backdrops

The Scratch script consists of a yellow 'when green flag clicked' hat block followed by an orange 'forever' loop block. Inside the loop, there is a blue 'move (4 steps)' block and an orange 'if [x position > (260)] then' control block. Inside this conditional block is a blue 'set x to (-180)' block. The stage features a green landscape with hills, a blue river, and a yellow volcano. A cat sprite is positioned in the sky above the volcano.



LEARN A PROGRAMMING LANGUAGE



LEARN A LANGUAGE



➤ Learn JavaScript

JavaScript = Opportunities

Learn to code for free.



Join a supportive community of millions of coders.



Build projects and earn free certifications.



Get experience by coding for nonprofits.

[Start coding \(it's free\)](#)

As featured in:

WIRED

BUSINESS
INSIDER

Inc.

lifehacker

TIME

QUARTZ

**USA
TODAY**

The New York Times

BBC

Launch your developer career

#JAVASCRIPT30

30 DAY VANILLA JS CODING CHALLENGE

BUILD 30 THINGS IN 30 DAYS WITH 30 TUTORIALS

NO FRAMEWORKS × NO COMPILERS × NO LIBRARIES × NO BOILERPLATE

\$ 0⁰⁰
FREE

START THE CHALLENGE TODAY!

Email Address

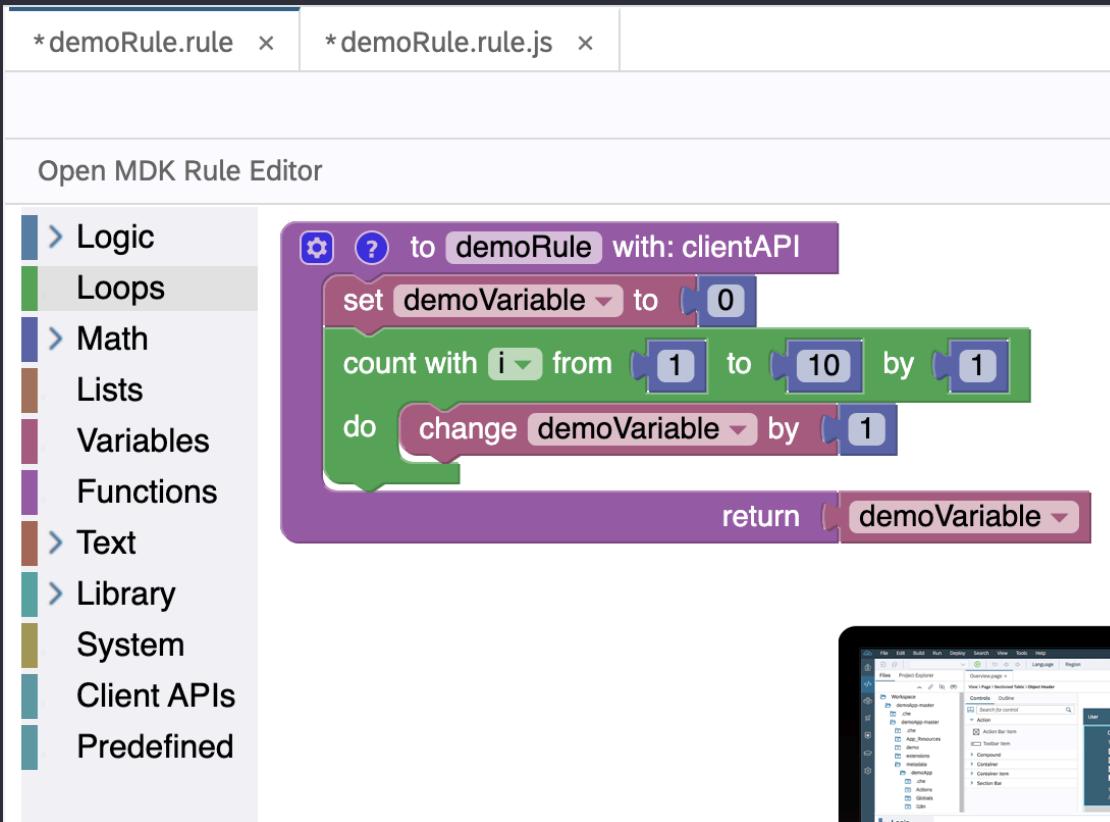
Join 286,003 Others

SIGN UP TO GET IMMEDIATE ACCESS TO THE COURSE DASHBOARD
YOU'LL GET ALL 30 DAYS AT ONCE SO YOU CAN BINGE WATCH NETFLIX STYLE.

What You'll Get

- Instant Access to all 30 videos
- 30 days of Starter Files
- Completed HTML, CSS and JS Solutions for each day

MOBILE DEVELOPMENT KIT



The screenshot shows the MDK interface. At the top, there are two tabs: *demoRule.rule* and *demoRule.rule.js*. The code editor displays the following JavaScript code:

```
1 var demoVariable, i, clientAPI;\n\n/**\n * Describe this function...\n */\n7 export default function demoRule(clientAPI) {\n8     demoVariable = 0;\n9     for (i = 1; i <= 10; i++) {\n10         demoVariable = (typeof demoVariable == 'number' ? demoVariable : 0) + 1;\n11     }\n12     return demoVariable;\n13 }
```

Below the code editor, the project overview shows various components and resources. In the foreground, a smartphone and a tablet are displaying a mobile application interface with a map and service requests.

FIND NEW FRIENDS



- Twitter/Facebook
- YouTube
- Online communities
- Podcasts

ALWAYS REMEMBER

YOU CAN DO THIS!