

Educate, Empower, Inspire

Teaching Girls Computer Science

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Experience

Getting girls excited.

Keeping girls motivated.

Leaving girls empowered.

Getting girls excited!

A chance to be creative.

Keeping girls motivated!

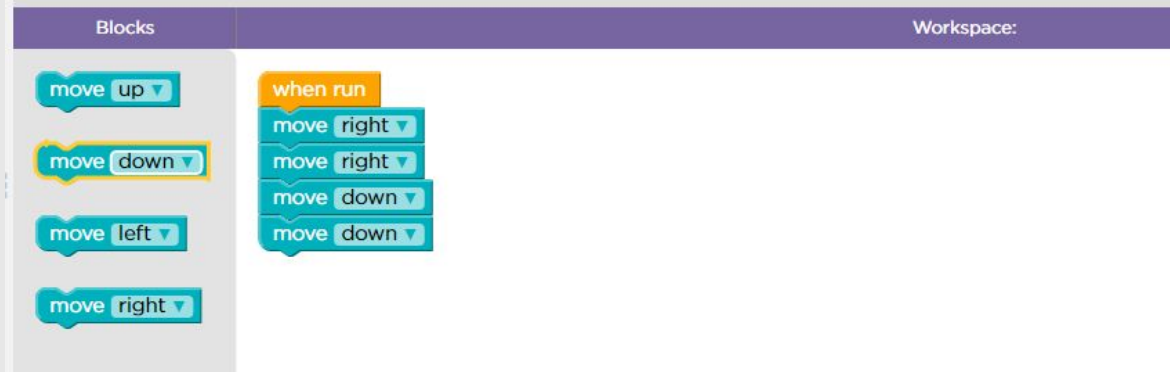
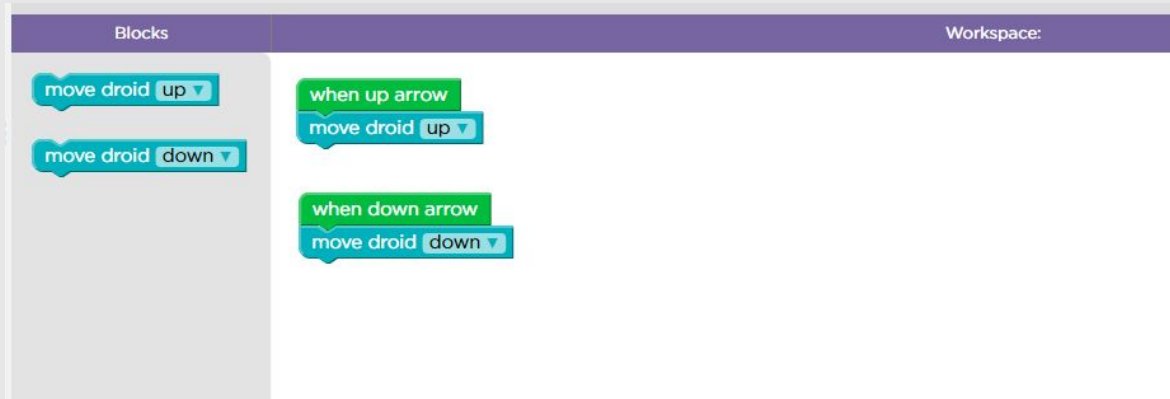
Software is not just coding.

Leaving girls empowered!

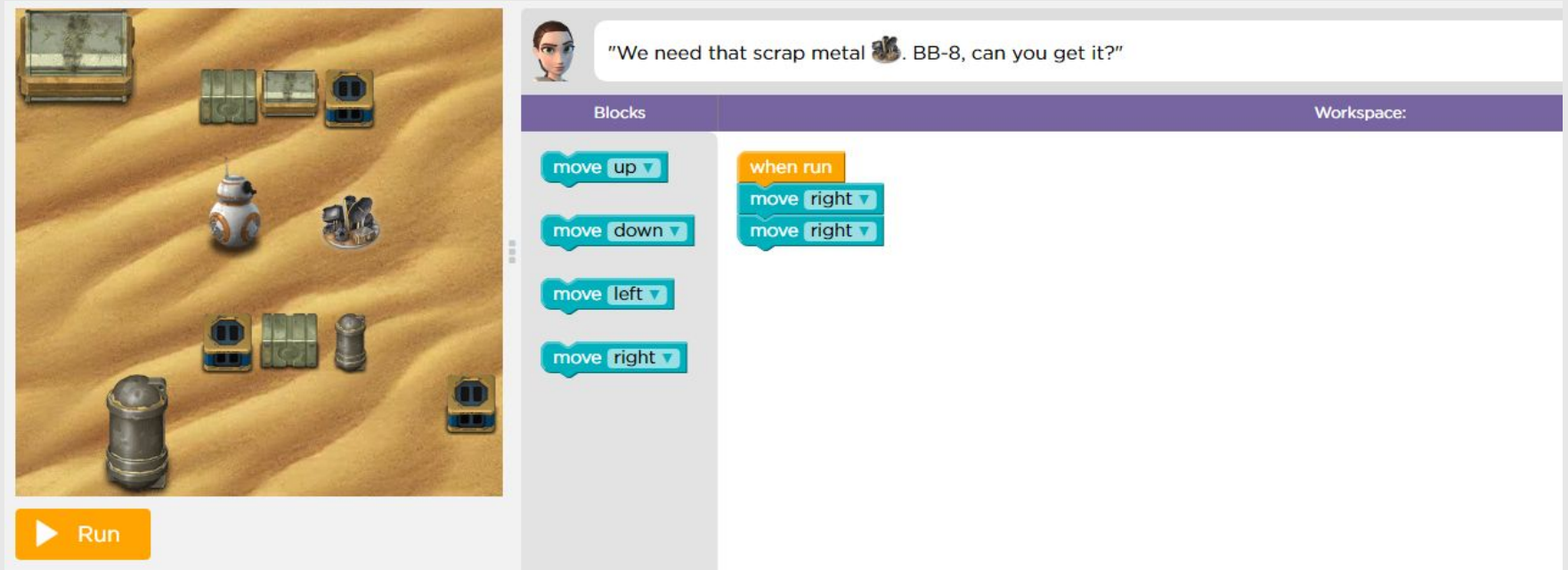
Quashing
coding stereotypes.

Coding is tough.

Tools :



Scratch



Run

"We need that scrap metal 🗑️. BB-8, can you get it?"

Blocks

Workspace:

move up

move down

move left

move right


when run

move right

move right

For beginners : Code.org
code.org

MINECRAFT



Run

The path to your sheep is blocked by a stone wall. Luckily there is a Creeper here. Creepers explode after you touch them. Get the Creeper to explode the wall so you can reach your sheep!

Blocks

forever

do

move forward

move a step toward sheep

turn left

attack

explode

flash

drop gunpowder

play sound creeper hiss

wait very short

Workspace

Start Over

creeper

when spawned

when touched

flash

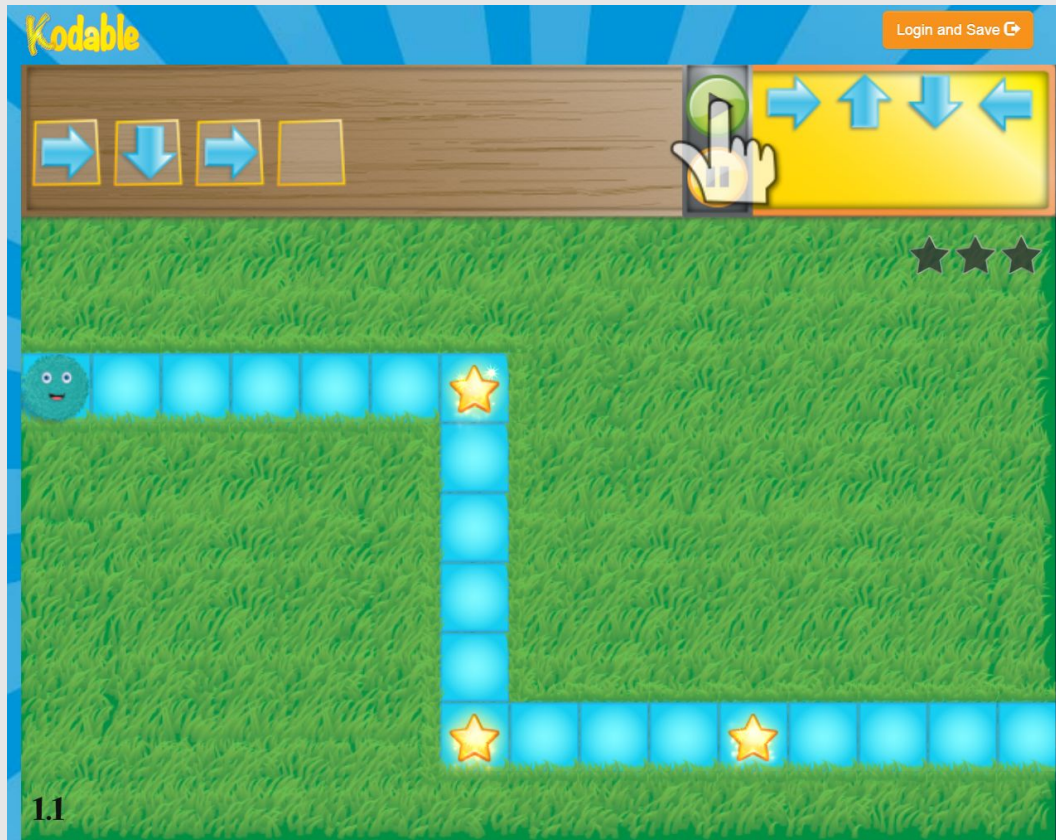
flash

wait short

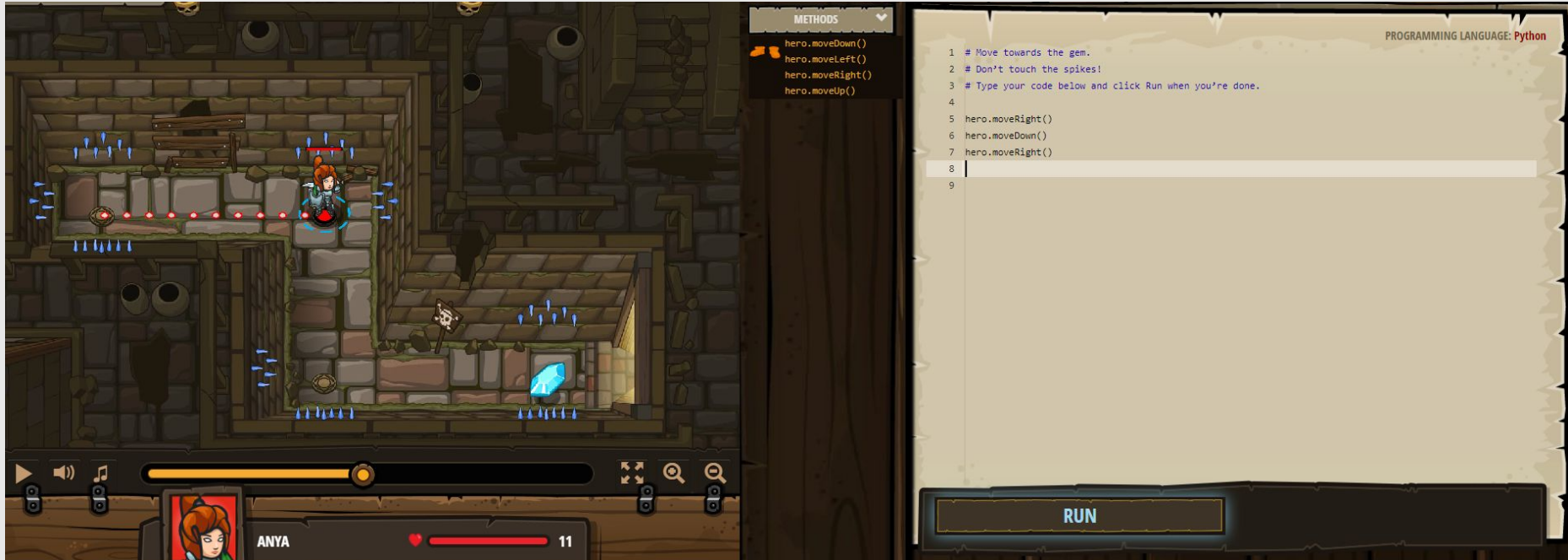
explode

when used

For beginners : Code.org
code.org



For pre-readers : Kodable
game.kodable.com



For confident new coders : Code Combat
codecombat.com

CODE COMBAT

KITHGARD DUNGEON
0/39

FOR TEACHERS

0 LEVEL 1 ANONYMOUS PLAYER LOG IN SIGN UP



CODESTERS

BUILDING YOUR FIRST PROGRAM

LOG INSIGN UP

Lesson: Building your First Program

Activity: 1 Preview

TOOLKIT

Search

GRAPHICSLOGICSUBJECT

STAGE

SPRITES

SHAPES

ACTIONS

PHYSICS

EVENTS

Browse Image Library

BACKGROUND IMAGES

Summer

School Hallway

Winter

School Entrance

Haunted House

Spring

Haunted House Interior

PREVIEW: Before we get started making our very first program, let's look at an example.

- Click **Run** to see an example of the program you will create today.
- This program has a **background image** and a **sprite** or character that moves and is clickable.
- Watch the fox move, then click on the fox once it stops moving to see what it does.
- Click **Submit** and **Next** to continue.

```
1 stage.set_background("winter")
2 sprite = codesters.Sprite("fox")
3 sprite.set_speed(2)
4 sprite.move_down(150)
5 stage.wait(1)
6 sprite.move_right(50)
7 sprite.say("Click on me!")
8
9
10
11 def click():
12     sprite.say("Hey there Codester!")
13     sprite.move_up(100)
14     sprite.turn_right(360)
15     sprite.move_down(100)
16     sprite.say("Great job.")
17     sprite.wait(2)
18     sprite.say("Click submit and next to continue!")
19     sprite.event_click(click)
```



Great Job! Be sure to click on your sprite!

-3 / -244

Click on me!

Intermediate coders : Codesters
codesters.com

FILES




images

scripts


styles


customize.css


 index.html

EDITOR index.html

Undo












```
1 <!doctype html>
2 <html>
3   <head>
4     <title>Privacy Fill-in-the-Blanks Story</title>
5     <link rel="icon" type="image/png" sizes="128x128" href="images/favicon.png?
      1">
6     <link rel="stylesheet" href="styles/style.css" type="text/css">
7     <link rel="stylesheet" href="customize.css" type="text/css">
8   </head>
9
10  <body>
11    <h1>Privacy Fill-in-the-Blanks Story</h1>
12    <h2>
13      The lighter side of online safety.
14      Fill in the blanks and then hit the button below to see your story!
15    </h2>
16
17    <!--
18    To add a new word to the story, copy and paste one of the <label> and
19    <input> pairs. Set "name" attribute of the <input> to a unique number.
20
21    Next, add a <span> to the story below with a "class" attribute
22    that matches the "name" attribute of the input.
23    -->
24    <div class="form">
25      <form>
26        <label>A number</label>
27        <input name="word-1" type="text" placeholder="Like '5' or '832'">
28
29        <label>An animal</label>
30        <input name="word-2" type="text" placeholder="Like 'dog' or 'cat'">
31
32        <label>An adjective, or describing word</label>
33        <input name="word-3" type="text" placeholder="Like 'fast' or 'funny'">
34
```

PREVIEW

 AUTO



Privacy Fill-in-the-Blanks Story

The lighter side of online safety. Fill in the blanks and then hit the button below to see your story!

A number

Like '5' or '832'

An animal

Like 'dog' or 'cat'

An adjective, or describing word

Like 'fast' or 'funny'

A plural noun

Like 'automobiles' or 'trees'

An adjective, or describing word

Like 'complicated' or 'rusty'

An adjective, or describing word

Like 'tidy' or 'gross'

For web development: Thimble
thimble.mozilla.org

Organizations :



hourofcode.com



girlswhocode.com

Questions?