Assessing Coding Projects

Jared O'Leary BootUp PD

What's the plan?

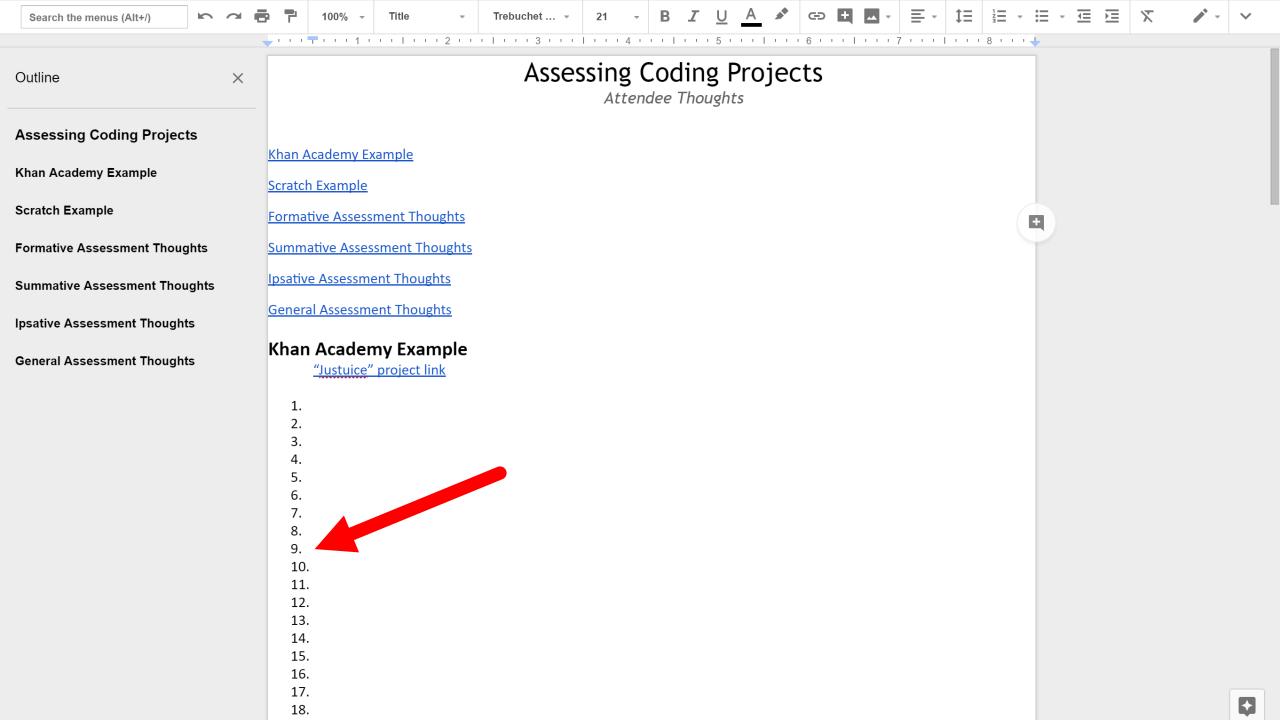
- Assess an example project
- Assessment considerations and types
 - Summative
 - Formative
 - Ipsative
- Revisit our initial assessment
- Q&A

How to reach the resources

- www.JaredOLeary.com
 - Presentations
 - Assessing Coding Projects

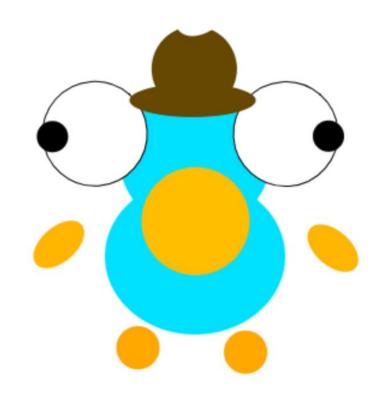






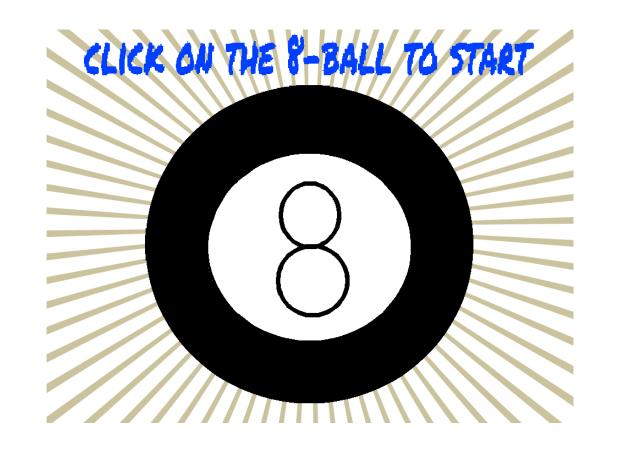
goo.gl/Q9UrZR (case sensitive)





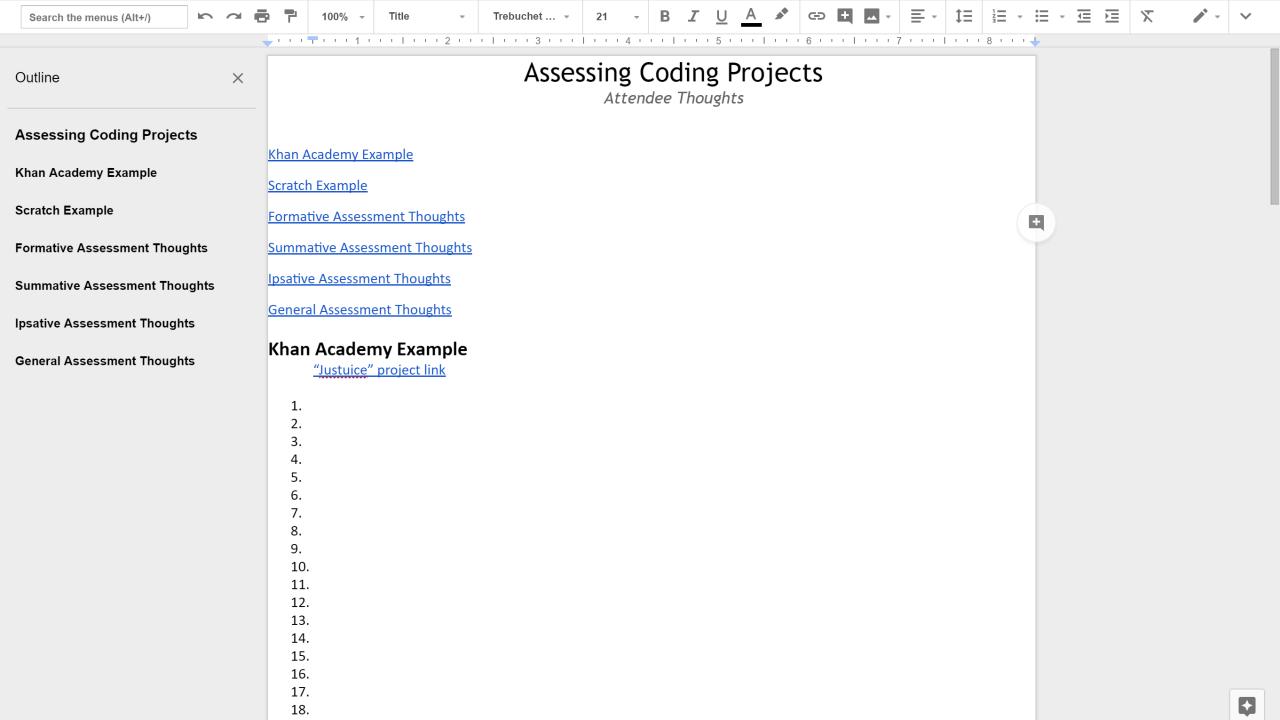
Khan Academy (JavaScript)

goo.gl/wnNUUm



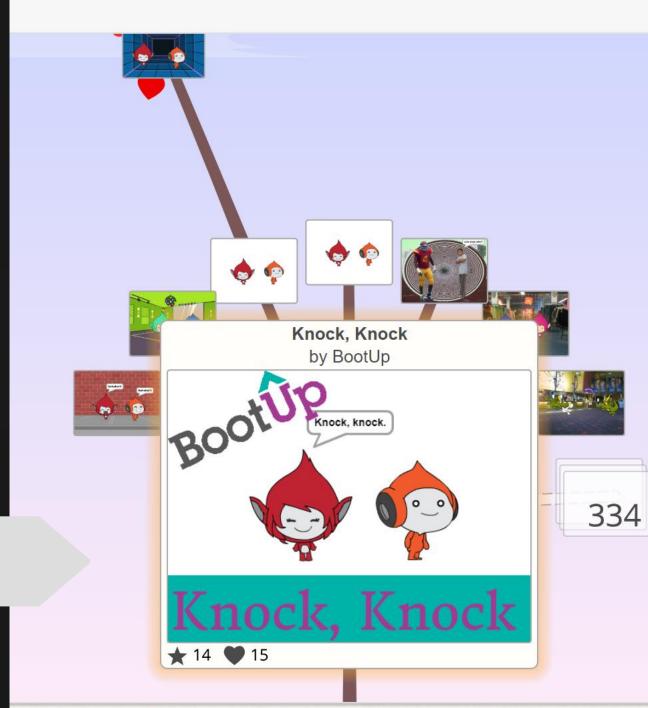
Scratch (Block-based)

goo.gl/TGn9gs





100+ project variations a week



100+ unique projects a week

O Search Join Scratch Sign in Explore About

Desert Thunder

Projects (100+)

Comments (2)

Curators

Activity



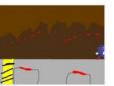
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om peers

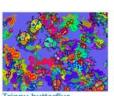
Random Story- Randall... by prmoss01



The Epic (Never-ending..



by ivcast01



(6 Followers)

by tatafo01



Fail Army by resapp01



Trippy Stoof by JUNGUY01





Beauty And The Beast by pahenn01



SUMMER TIME by SASEEL01



Pokemon battle water I... by owsmor01



Stay Hydrated! by shlamp01



by DAROBE01



guess the candy by ancarl02



Guess That Breed!!!!!! by brdele01



Music for you by shpale01



by argonz01



by cafost01



The Epic (Never-Endin... by taevan01



by klhaas01



NO MORE MONKEYS J ... by adkeec01



At The Theaters by prmoss01







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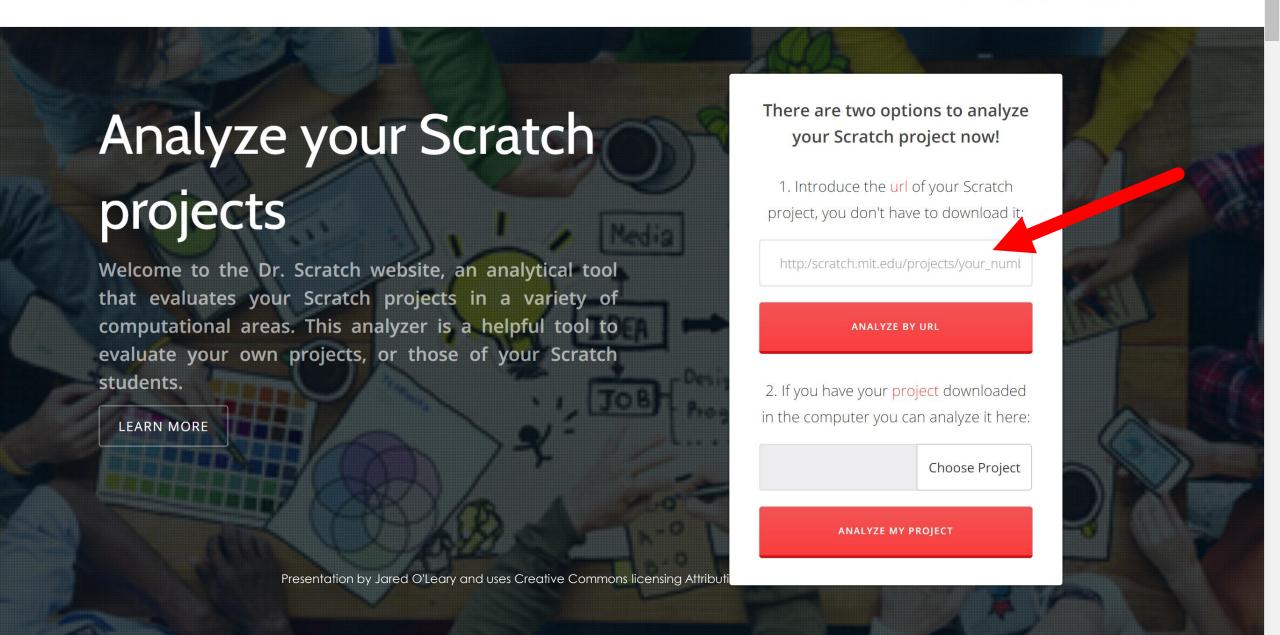
Criteria	0	1	2	3
Sprites	Used no sprites	Used 1 sprite	Used 2 sprites	Used 3+ sprites
Repeats	Used no repeats	Used 1 repeat	Used 2 repeats	Used 3+ repeats
Creativity	No creativity	Very little creativity	Somewhat creative	Very creative
Originality	All ideas taken from	Most ideas taken from	Some ideas taken	Completely
	another project	another project	from another project	original idea

Rubrics



SIGN UP

SIGN IN -





Score: 8/21 Tweet



The level of your project is...

DEVELOPING!

You're doing a great job. Keep it up!!!

ICCome back to your Scratch project.

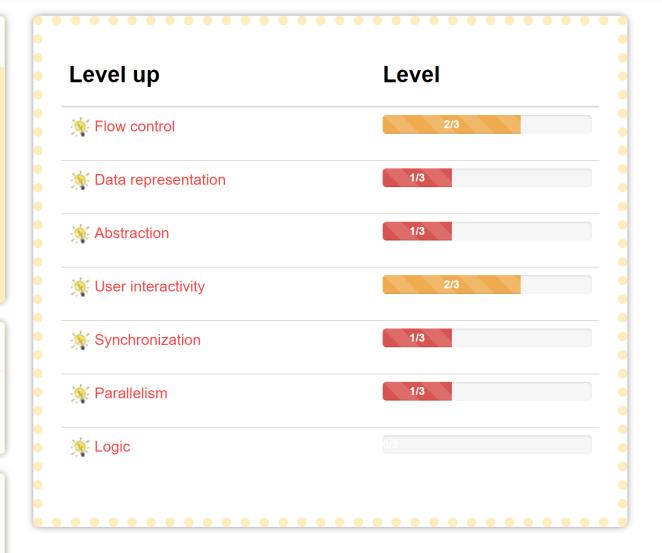
Best practice

- 1 sprite attributes.
- 2 sprite naming.

Project certificate

https://scratch.mit.edu/projects/128534260/#editor

Download



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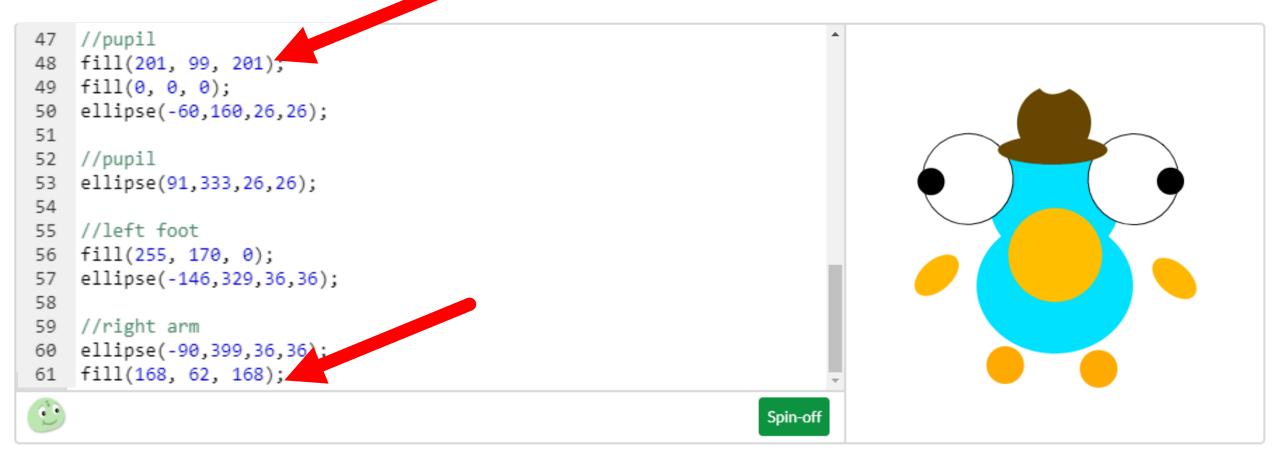
Rubrics

Assessment Ws

- → Why? → When?

```
when this sprite clicked
repeat (2)
  glide 0.2 secs to x: 76 y: -18
  wait 0.2 secs
  glide 0.2 secs to x: -100 y: -18
  wait (0.2) secs
  glide 0.2 secs to x: -12 y: -18
wait (0.5) secs
switch costume to pick random 2 to 21
play sound crash cymbal ▼
wait (0.1) secs
play sound cheer ▼
wait (3) secs
switch costume to costume1 >
```

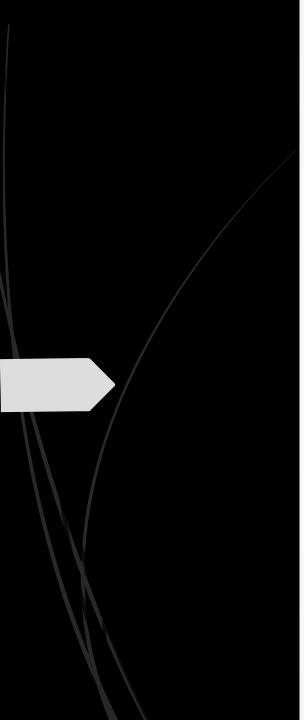
```
when this sprite clicked
glide 0.2 secs to x: 76 y: -18
wait 0.2 secs
glide 0.2 secs to x: -100 y: -18
wait 0.2 secs
glide 0.2 secs to x: -12 y: -18
glide 0.2 secs to x: 76 y: -18
wait 0.2 secs
glide 0.2 secs to x: -100 y: -18
wait (0.2) secs
glide 0.2 secs to x: -12 y: -18
wait 0.5 secs
switch costume to pick random 2 to 21
play sound crash cymbal ▼
wait 0.1 secs
play sound cheer -
wait 3 secs
switch costume to costume1 v
```



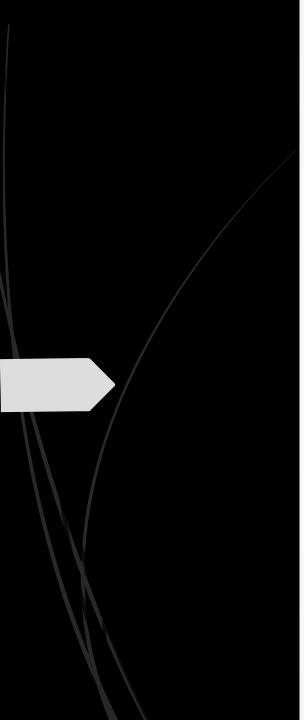
Assessment Ws

- Mhh5
- What?
- When?
- Where?
- Mho
- Hows

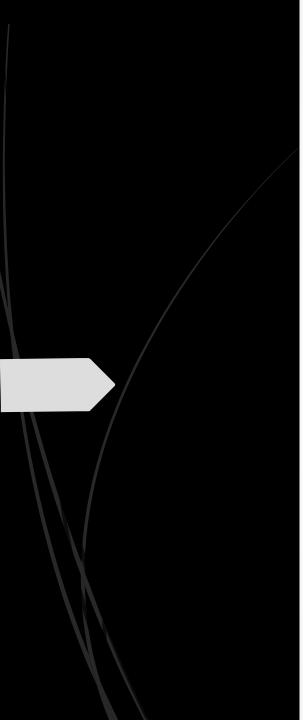
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Summative Assessments: Assessment of Learning



Formative Assessments: Assessment for Learning



Ipsative Assessments: Assessment **as** Learning

Summative Assessment <i>of</i> Learning	Formative Assessment <i>for</i> Learning	Ipsative Assessment <i>as</i> Learning	
"Done to" the coder	"Done for" the coder	"Done by" the coder	
Traditional	Constructivist/constructionist	Self-reflective	
Centered on a facilitator	Centered on the coding	Centered on the coder	
Coders are passive learners	Coders are active learners	Coders are active learners	
Occurs after instruction	Integrated with instruction	Integrated with instruction	
Competitive	Collaborative	Personal	
Helps facilitators assess perceived understanding of coding	Helps coders learn through feedback from others	Helps coders learn through self reflection	
Limits communication between facilitator, coders, and peers	Increases communication between facilitator, coders, and peers	Increases communication between facilitator, coders, and peers	
May create extrinsic rewards and does not accurately represent a coder's understanding	May interrupt a coder's active experiences with coding	Can lack focus without guidance (e.g., prompts) and feedback from a facilitator or peers	
An example summative assessment might include a test or synthesis project that is graded by "correctness" or criteria	An example formative assessment might include questions asked by a facilitator during process or a synthesis project with reflection; possibly includes minimum criteria	An example ipsative assessment might include a reflection journal or reflective questions regarding understanding of coding concepts and practices in relation to prior projects, which may also be discussed with a peer or facilitator	

Follow-up with more questions

- Can you walk me through each step of the algorithm?
- What happens if you change this (point) number to a larger or smaller number?
- When might you use code like this in another project?
- What happens if we change the order of the algorithm?
- What could you add or change to this algorithm and what do you think would happen?
- How might you use code like this in everyday life?

goo.gl/Q9UrZR (case sensitive)



Upcoming session I'm presenting

- Today
 - Moving Beyond Puzzles:Project-based Coding
 - 10:40-11:00 am in room 212

Q&A

- www.JaredOLeary.com
 - Presentations
 - Assessing Coding Projects



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