



SWIFT PLAYGROUNDS

COST: Free

Category: Education

Rating: 4+

Web Version: No

Accounts: Not Needed

**No Ads and Inappropriate
Content**

Notes: Best to start with Hour of
Code Beginner, and then move up to
more challenging levels

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Composing a New Behavior

Goal: Use composition to turn to the right.

Have you noticed there's no `turnRight()` command available to you? If your character needs to turn right to reach a gem, how can you make that happen?

You sometimes have to solve **coding** problems by combining existing commands to create a new behavior. This process is called **composition**.

- 1 Figure out how to turn to the right using only the commands you've used before.
- 2 Use composition to turn your character to the right when needed.
- 3 Enter the commands to collect the gem.

```
moveForward()  
moveForward()  
moveForward()
```



SUMMARY:

Swift Playgrounds is a revolutionary new app for iPad that makes learning Swift interactive and fun. Solve puzzles to master the basics using Swift — a powerful programming language created by Apple and used by the pros to build many of today's most popular apps. Swift Playgrounds requires no coding knowledge, so it's perfect for students just starting out.

The app comes with a complete set of Apple-designed lessons. Play your way through the basics in “Fundamentals of Swift” using real code to guide a character through a 3D world. Then move on to more advanced concepts.

ADDITIONAL SUPPORT RESOURCES:

- [Download the iBook](#) to read, watch & learn!
- [Link](#) to Apple Swift Playgrounds website

**Geared for 4th Grade and Up, but it is
also a fabulous app for adults wanting to
learn how to code!**