

OK, you can see that this is a lot more sophisticated than what we've been doing. I have some emoji on the right, thank goodness. I can tap to add more. That's a big B. OK, now I can also fling them around because this is physics emoji they create a nice little reaction. But you also notice they're all just falling down to the bottom, and that's because right now gravity is fixed.

So I'm going to go ahead and play around with gravity a little bit, because who doesn't like to do that. I'm going to double tap to bring up the keyboard. We've built a completely new coding keyboard and it is awesome. The keyboard has the numbers and symbols we use in Swift programming and they're right at my fingertips.

I'm going to quickly set the world's angle - world.angle equal to the gyroscope's angle; looks good. OK, now look at the bottom of the keyboard, there is a B key, it also has an asterisk on it. Watch what happens when I press and drag down. I get an asterisk for multiplication. You're going to get to see that again. I bet you knew that.

All right. Look at the W key, I am going to press and drag down for a number two. OK, let's see what kind of impact this had. Let's take this full screen and write my code. Of course, because my playground now has access to the iPad hardware, as I pick up the iPad and I tilt it all my emoji reacted. And that's how they like it I have to tell you.

OK, so I've shown you just a taste of what you can create on your own and a small sample of amazing lessons. That is Swift Playgrounds - a fun and powerful new way for kids to learn to code.

Back to you, Tim.

Tim Cook - CEO, Apple Inc.

Thank you, Cheryl. Looks absolutely incredible. And because we're combining basic coding skills with real life code, Swift Playgrounds can profoundly impact the way kids learn to code. So we're releasing it with a developer preview today. It will be in the public beta next month. And it will be in the App Store when iOS 10 ships in the fall.

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Now we believe coding should be a required language in all schools. So to help make this the case, we're going to make Swift Playgrounds free. And we hope that this gift to kids in schools around the world will help make coding a part of the school day. That is Swift Playgrounds. Powerful tools like these enable developers to create great apps. They also help the next generation of developers who seek out on their journey to change the world. To motivate this new generation of developers, we created a video about what first inspired some great Apple developers to start coding. And I'd love to show it to you now.

[Video Clip]

It's really incredible to see the inspirations of so many amazing developers. And I can't wait to see what this next generation of developers are going to create to make the world a better place.

So I told you it was going to be jam packed. What a great morning! Great updates from — to all of the platforms.

Starting with watchOS, faster performance, better navigation, all new fitness and health features to help you live a better life.

tvOS, the future of TV is apps and it now just got a whole lot better with

expanded Siri Search and Single Sign-on.

macOS Sierra, bringing Siri and Apple Pay to the Mac along with some other incredibly powerful features.

And a gigantic release of iOS — the mother of all releases, incredible new features for Messages, all new designs for Photos, Apple News and Apple Music and incredible new opportunities for developers to integrate their apps with Siri, Maps and Messages.

At Apple, we believe that technology should lift humanity and should enrich people's lives in all the ways they want to experience it, whether it's on their wrist, in their living room, on their desk, in the palm of their hand, in the car, or even automating their home. This is a huge moment for us - four great platforms that become even more capable with working with all of you.

ALSO READ: [Richard Stallman on Free Software, Free Society \(Full Transcript\)](#)

I'd like to thank all of the developers here today and all of those watching us that have partnered with us in our quest to change the world for the better. And of course, I'd like to thank everyone at Apple, all the teams that worked so hard to make this day happen. Thank you very much and have a fantastic week.

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