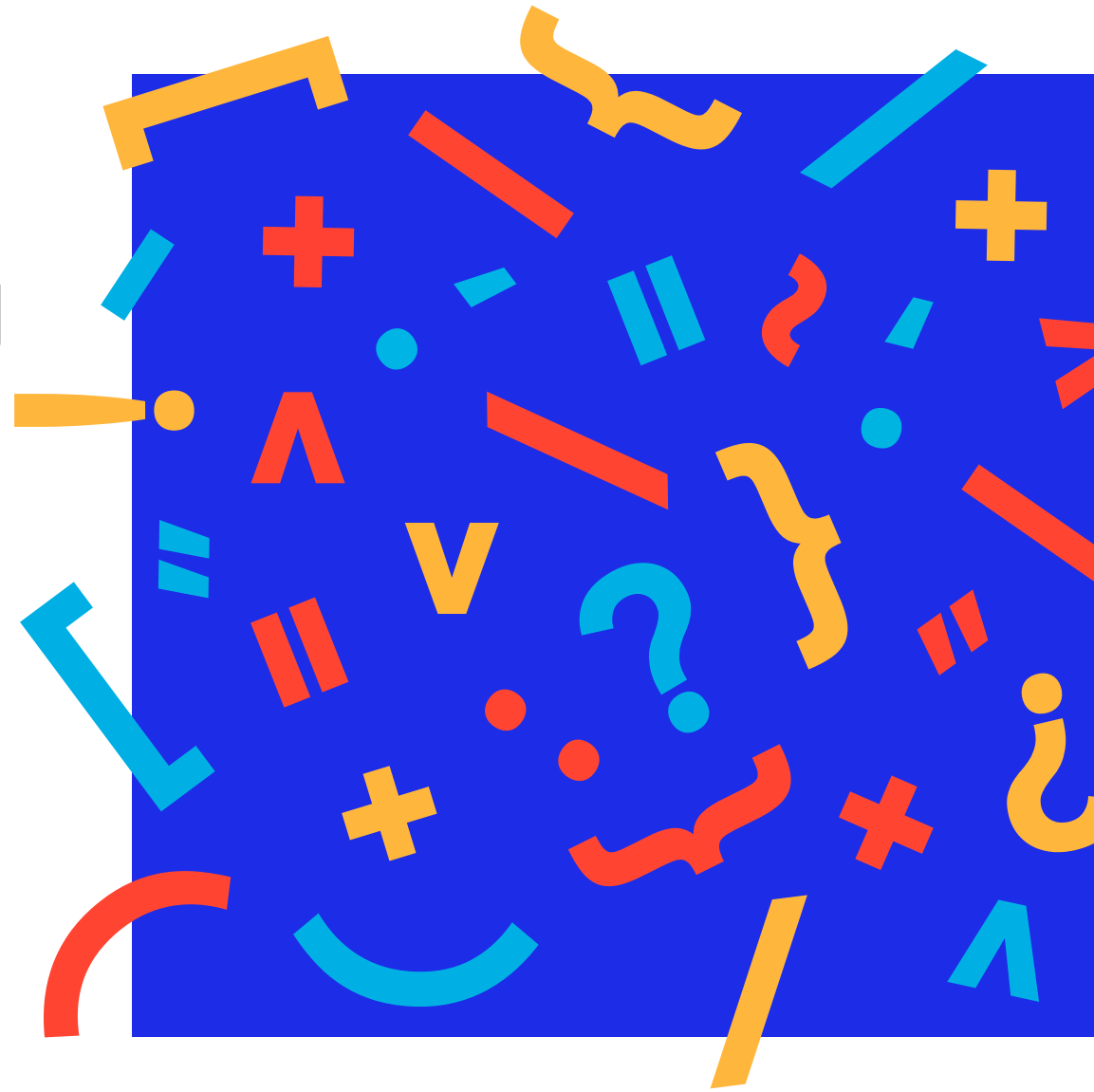


Debugging and Testing

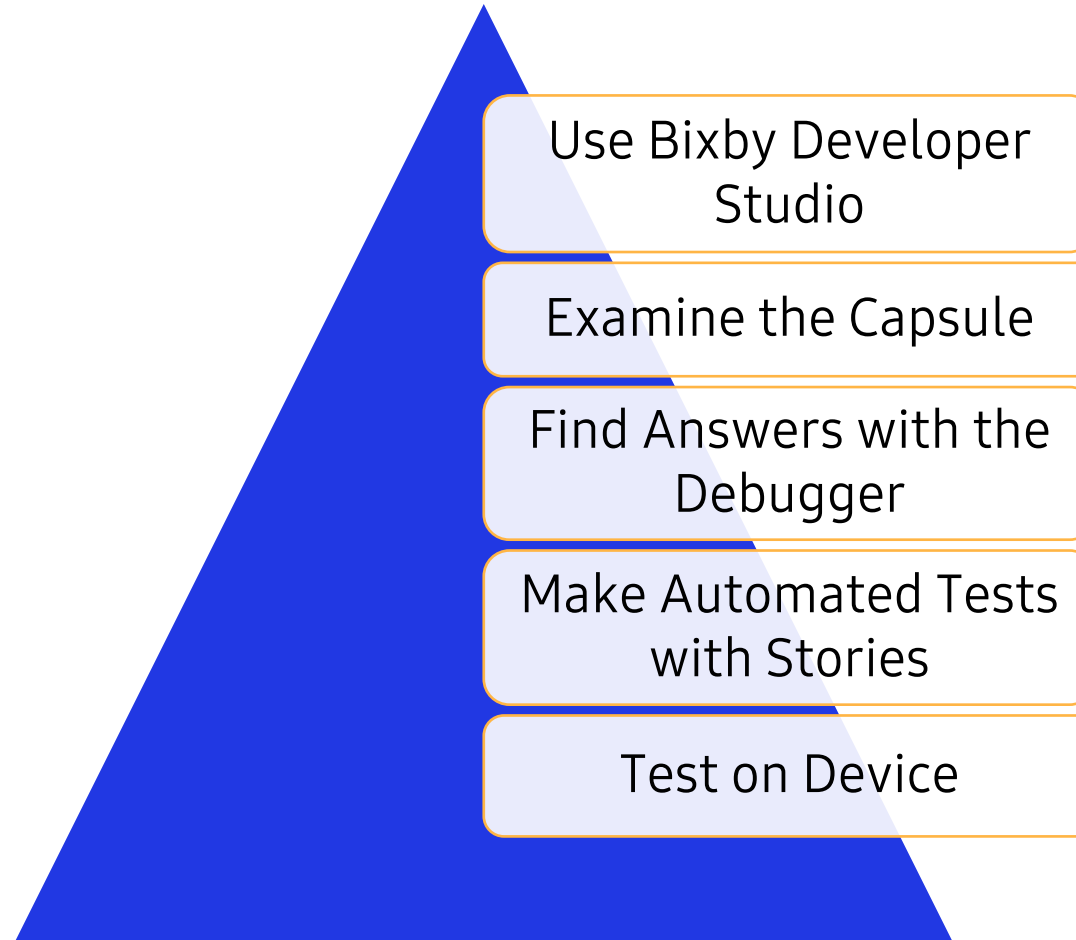
Capsules in Bixby Developer Studio

Van Boughner

Senior Staff Research Engineer, Viv Labs



Debug and Test a Capsule





Use Bixby Developer Studio

#SDC19

Use Bixby Developer Studio

- run this desktop application to create voice assistant applications, or “capsules”
- edit local files, and sync them with Bixby on the cloud
- define concepts and actions
- train to recognize natural language

Use Bixby Developer Studio

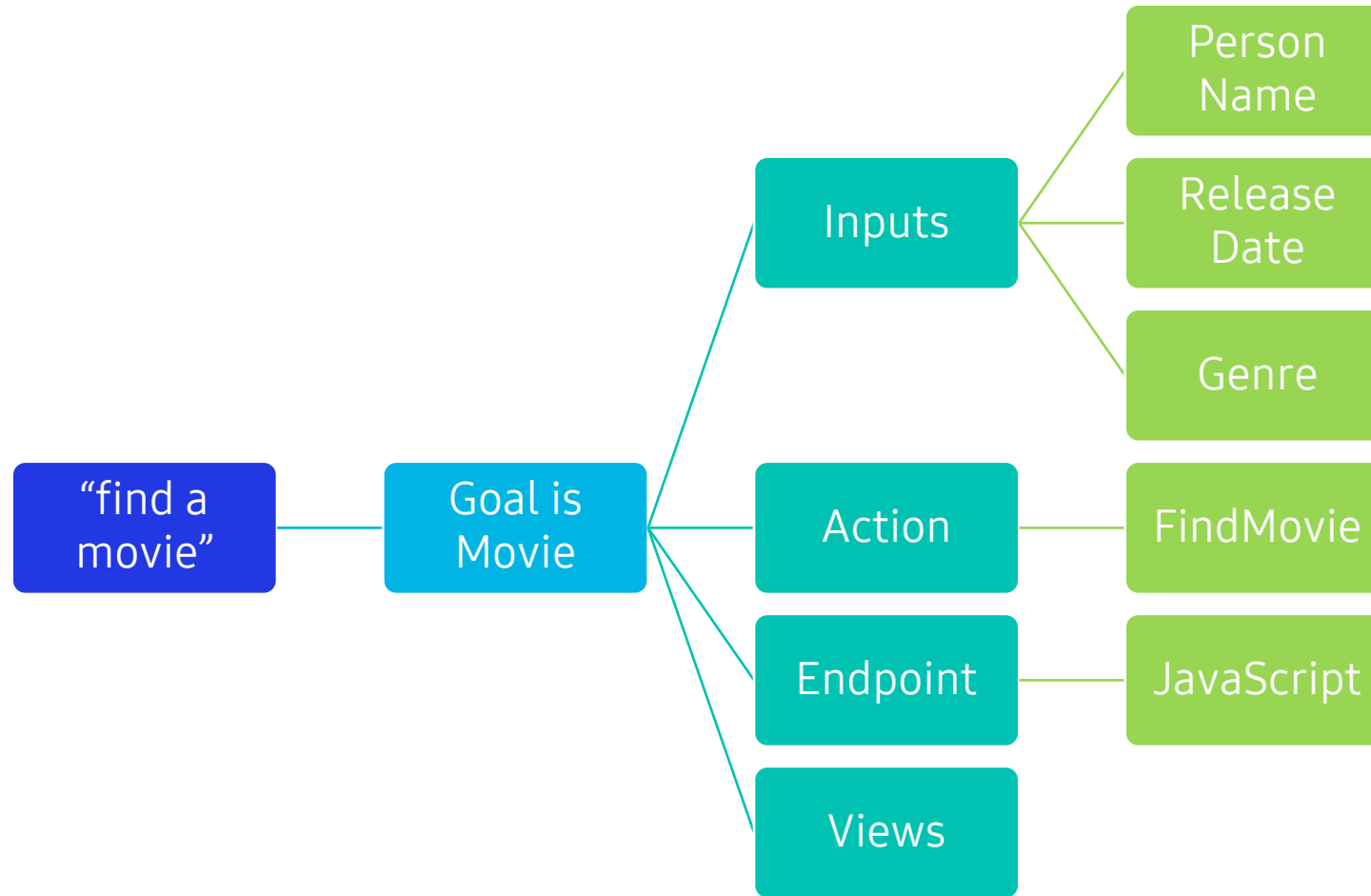
- simulate capsule behavior
- debug errors and get hints
- create automated tests
- submit capsules for on-device testing and the marketplace

Examine the Capsule

Examine Movie Agent Capsule

- helps people choose a movie
- searches by genre, actor name or release date
- connects to a real REST API
- let's dig in and look the code!

Review Movie Agent



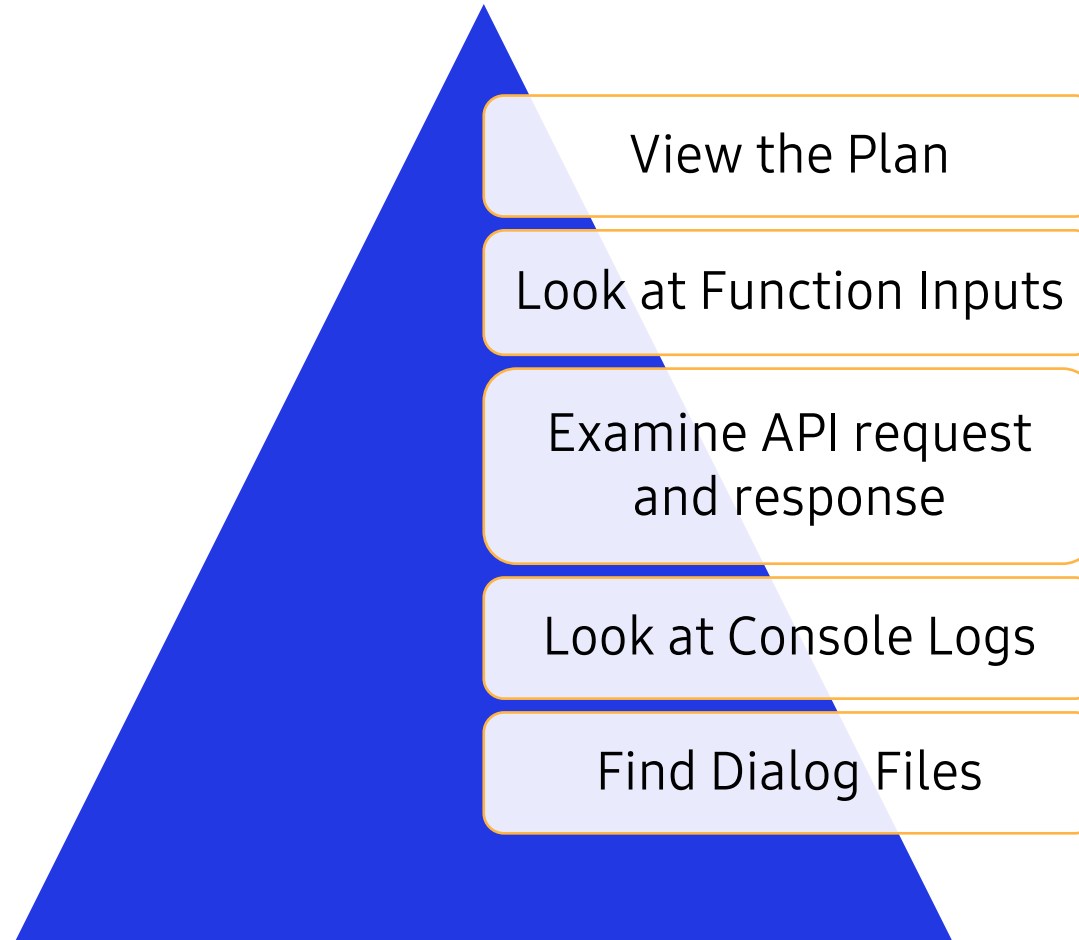


Find Answers with the Debugger

Find Answers with the Debugger

- comes up in a separate window
- you may run it after the Simulator
- use it to analyze what happened on the Bixby platform
- we'll ask ourselves a few questions and use it to find answers
- let's dive in!

Review Debugger



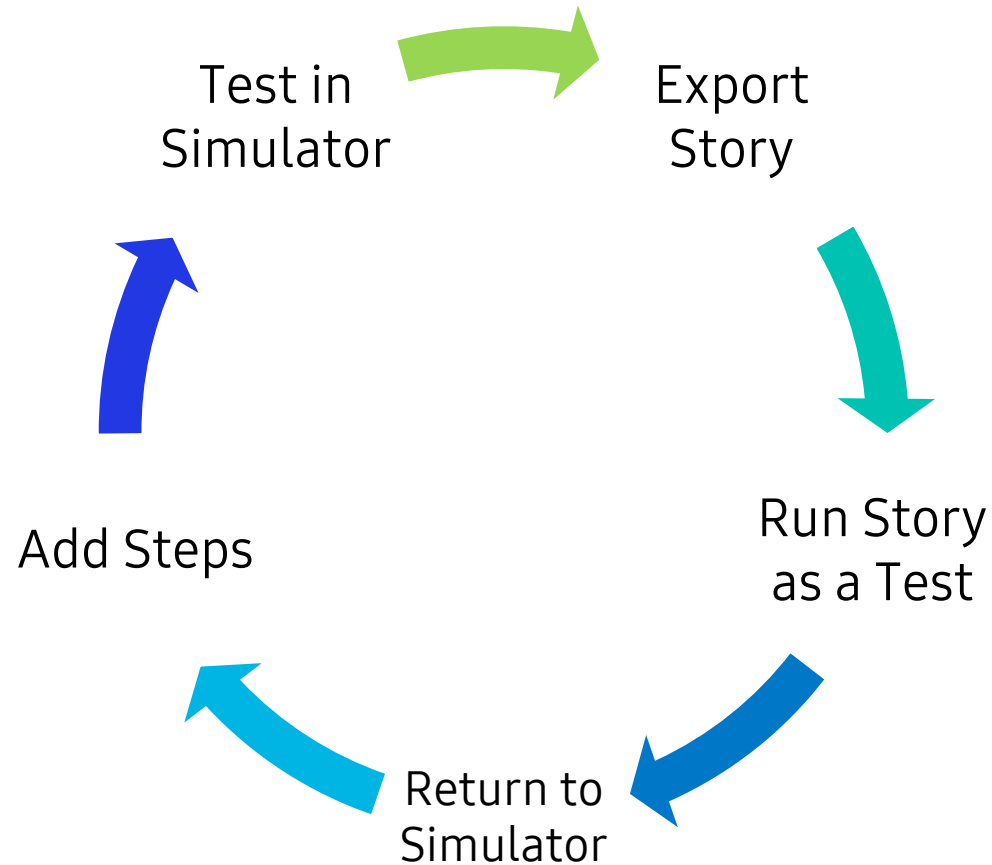
Make Automated Tests with Stories



Make Automated Tests

- automated tests are called “stories”
- write stories to prove that capsule “hints” are working
- use these stories as regression tests
- we’ll fix a problem by adding more training
- let’s dive in!

Review Automated Tests



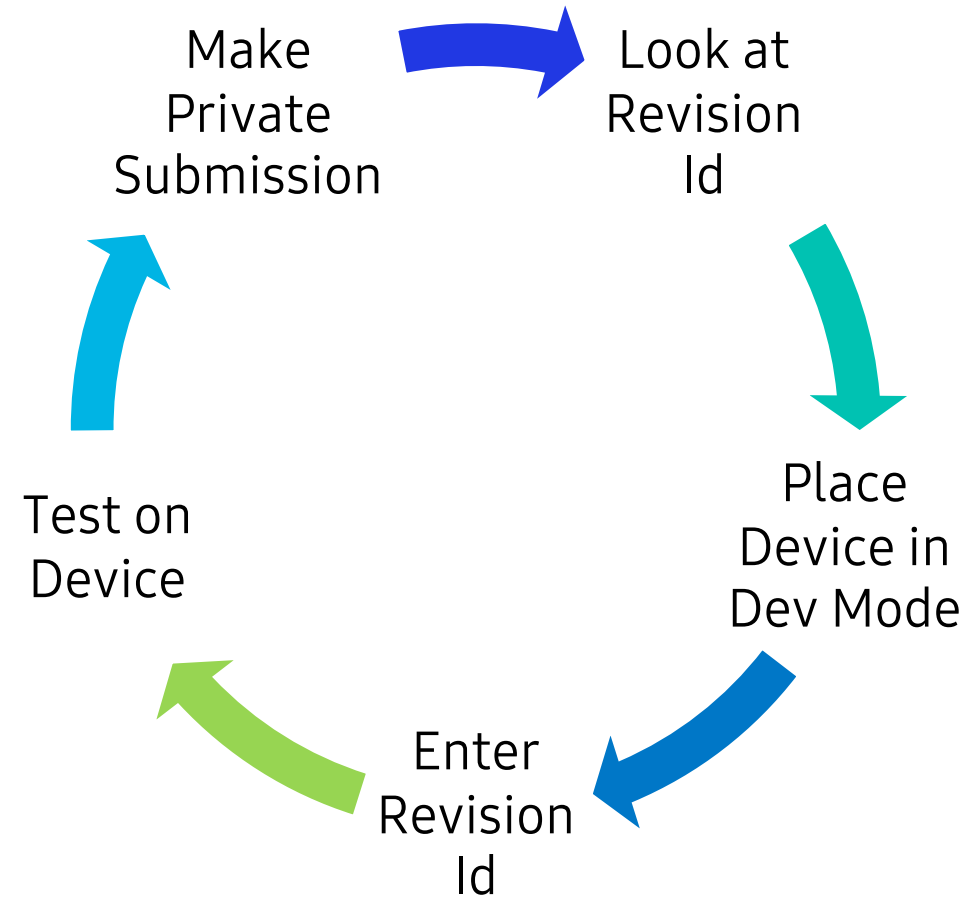
A decorative graphic in the top-left corner of the slide, featuring a collection of various symbols and characters in a light blue color. These include mathematical symbols like plus (+), minus (-), equals (=), and less than (<); punctuation like question marks (?), exclamation marks (!), and curly braces {}; and other symbols like arrows, a percent sign, and a hash symbol. The symbols are scattered and overlap, creating a dynamic, abstract pattern.

Test on Device

Test on Device

- shows you the user experience
- hands-free behavior is easier to test on a device
- documentation at <https://bixbydevelopers.com/dev/docs/dev-guide/developers/testing.on-device>
- we'll try the movie agent capsule on a phone, let's dive in!

Review On-Device Testing



What We Learned

What We Learned

Bixby Developer Studio

- used to develop, debug, and test capsules

Debugger

- helps you understand capsule problems

Stories

- automates testing and helps identify regressions

On-Device Testing

- helps you understand the user experience

SIDC19

Where Now Meets Next