

Bixby 101

How to Make Al Magic

www.bixbydevelopers.com

- IDE Download
- Samsung Account signup
- Getting Started Use the Dice Capsule
- Developer Guides
- Support
 - Developer Forum Stack Overflow
 - Features/Support Tickets

GITHUB www.github.com/bixbydevelopers

- Review projects
 - Dice: Most basic
 - Shoe and Bank: Intermediate
 - Shirt and Space Resort: More advanced
- Samples Collection
 - Input Forms Basic UI form for input
 - Bixby Views Basic output

DEVELOPING FOR BIXBY - WHAT'S DIFFERENT?

- Declarative, model based approach
 - Heavy modeling
 - Model concepts, actions, dialogs, views and endpoints using BXB modelling language
 - Auto Program Generation
 - Al Writes the logic. Model → Code
 - Light traditional coding (Javascript)
 - External API call
 - Complex logic
 - Very different than other voice assistants

SAMPLE SIMPLE CAPSULE: STATE CAPITALS

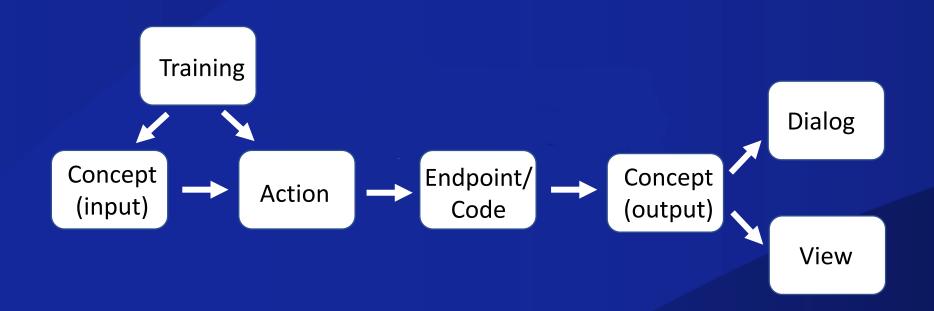
Question:
What is the capital of California?

Answer:
The capital of California is Sacramento



Code on Github: https://github.com/bixbydevelopers/capsule-sample-states-and-capitals

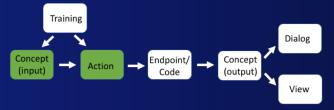
CONCEPTUAL FLOW OF A BIXBY CAPSULE (SIMPLIFIED)



INPUT: CONCEPTS AND ACTIONS What is the capital of California?

Action:
Find Capital
The verb or
the method

Concept:
The State e.g. California
The noun or the
variable



OUTPUT: CONCEPTS

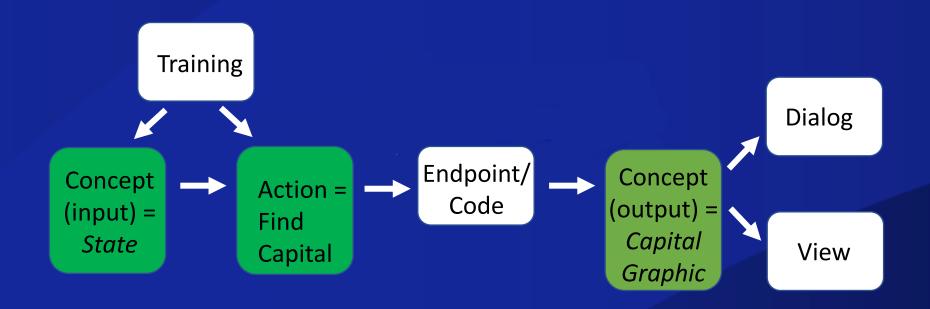
Sacramento



Concepts:
Capital
State Graphic

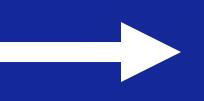
Structured Concept:
Object with both Capital and
State Graphic___

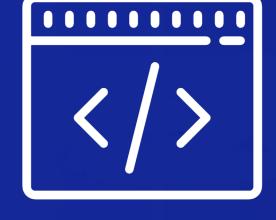
REVIEW - WHERE WE ARE

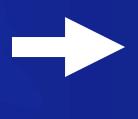


TIE IT TOGETHER ENDPOINT AND CODE

Action: Find Capitals



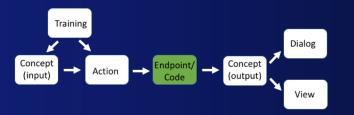




Output Concepts
Capital
State Graphic

Endpoint:
Ties Action
to Code

Code:
Business logic
CapitalLookup.js

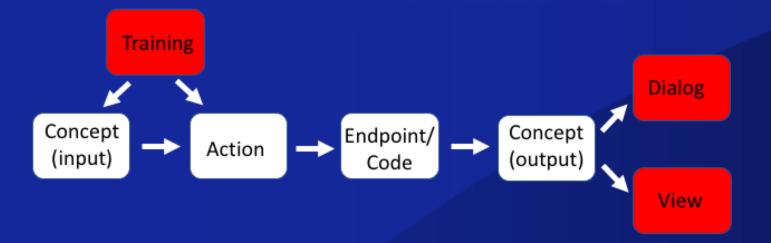


RUN IT!

RUN IT RESULTS

Information is there but there is no:

- Output UI and Speech (Dialog and View)
- Natural Language input (Training)

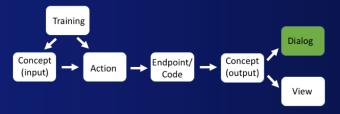


OUTPUT: DIALOG

The capital of California is Sacramento

Dialog:
The answer on
screen and
spoken

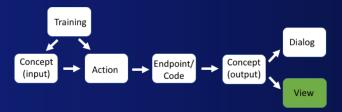
Concepts



UI: VIEWS



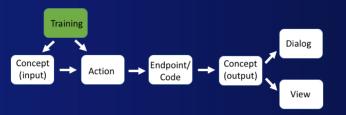
*View:*State Graphic



Understanding: Training

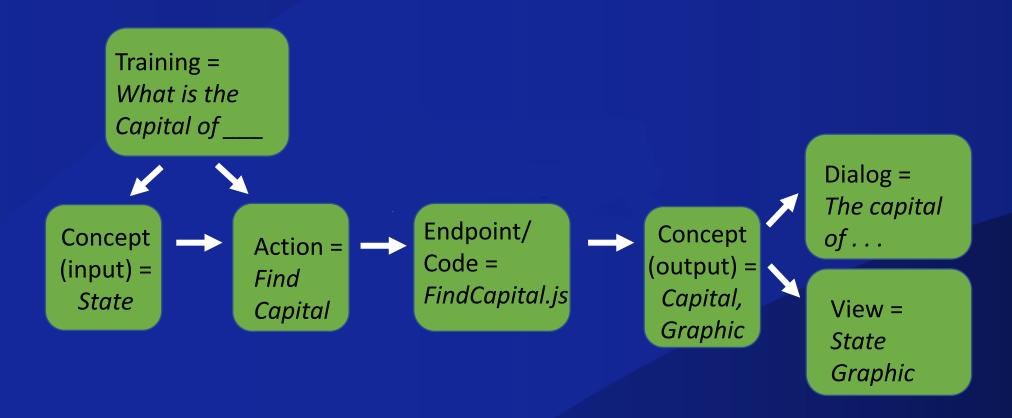
"What is the capital of _____ =

Training:
NLU (Natural
Language
understanding)



RUN IT!

REVIEW - WHAT WE CREATED



NEXT STEPS

Go to www.bixbydevelopers.com

- Download and install Bixby Studio
- Sign up for a Samsung Account
- Download and run the States and Capitals Capsule https://github.com/bixbydevelopers/capsulesample-states-and-capitals
- Read the docs
- Experiment, try more example capsules
- Create you own Capsule! Have Fun!

THANKS!

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