

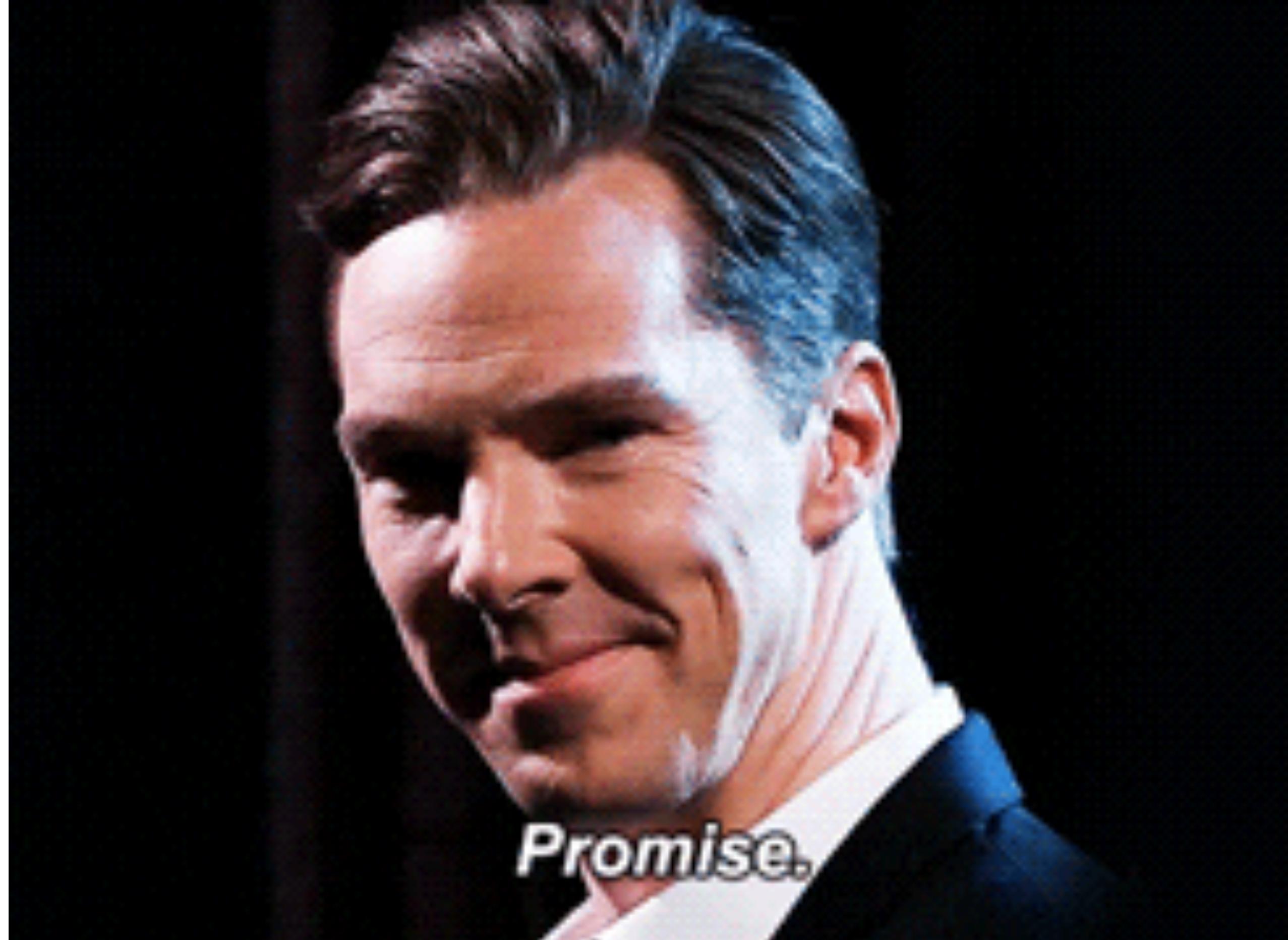
# Alexa! Bake me a new Java repository

An introduction to voice bots productivity

# In 40 minutes

## You will know

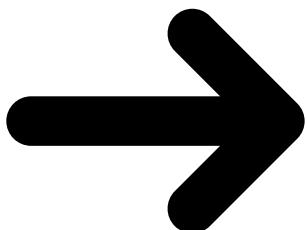
- What template repositories are
- The jargon used to build conversational apps
- How to create your own basic skills / apps



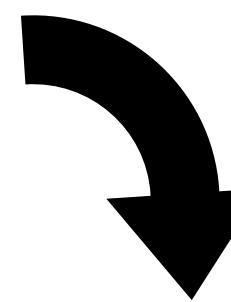
# Idea sparks



Email myself



Create GitHub  
project

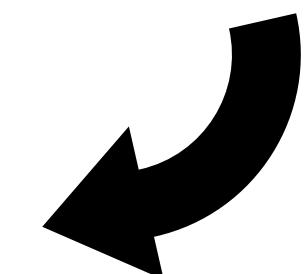


Start  
cranking



Scaffolding

Clone the  
project



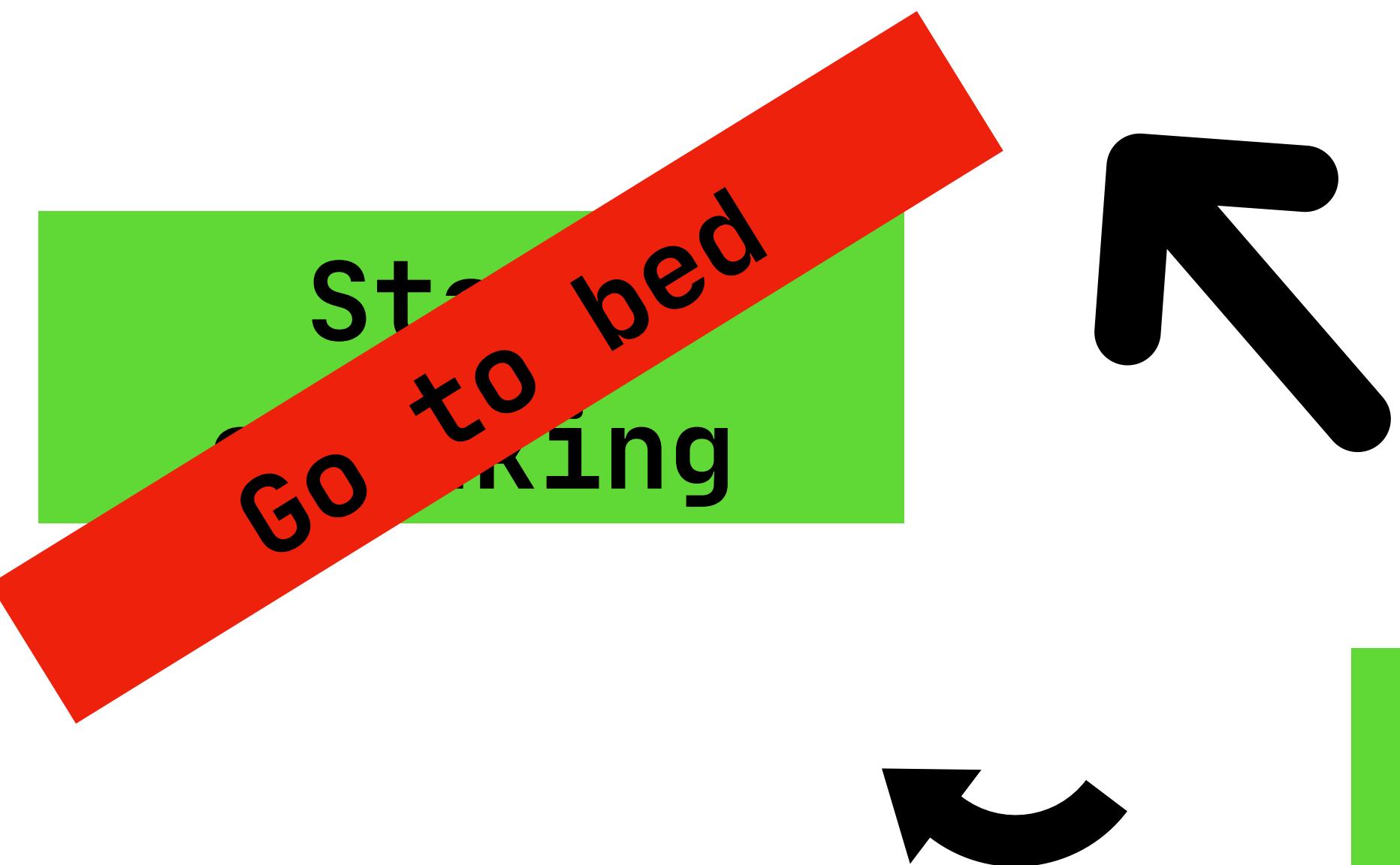
Email myself

Create GitHub  
project

Stop working  
Go to bed

Clone the  
project

Scaffolding



# Github template repos to the rescue!

June 6, 2019 — Features, Product

## Generate new repositories with repository templates



Bryn Jackson

Sharing boilerplate code across codebases is a constant pattern in software development. Bootstrapping a new project with our favorite tools and directory structures helps programmers go from idea to “Hello world!” more efficiently and with less manual configuration.

Today, we’re excited to introduce repository templates to make boilerplate code management and distribution a first-class citizen on GitHub. To get started, all you need to do is mark a repository as a template, and you’ll immediately be able to use it to generate new repositories with all of the template repository’s files and folders.

Share

Twitter

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# This is what a template looks like

Spring-Boot-Framework / Spring-Boot-Application-Template **Template**

Watch 7 ⭐ Star 40 Fork 142

Code Issues 1 Pull requests 1 Discussions Actions Projects 1 Wiki Security Insights

master 3 branches 6 tags Go to file Add file Code Use this template

File / Commit	Description	Date
AnanthaRajuC MODIFIED CHANGELOG.md	a4980a3 4 days ago	363 commits
.circleci	Add .circleci/config.yml	7 months ago
.github/ISSUE_TEMPLATE	Update issue templates	6 months ago
.mvn/wrapper	initial commit	3 years ago
bin	actuator properties, css added	3 years ago

About

Spring Boot Web App, Flyway, MySQL, H2DB, Bootstrap, Thymeleaf, JWT, Swagger, API Rate Limiting, Docker, RBAC, i18n

[anantharajuc.github.io/spring\\_boot...](#)

mysql i18n bootstrap fragments  
docker spring-boot thymeleaf

# And this is how to create one

## Settings

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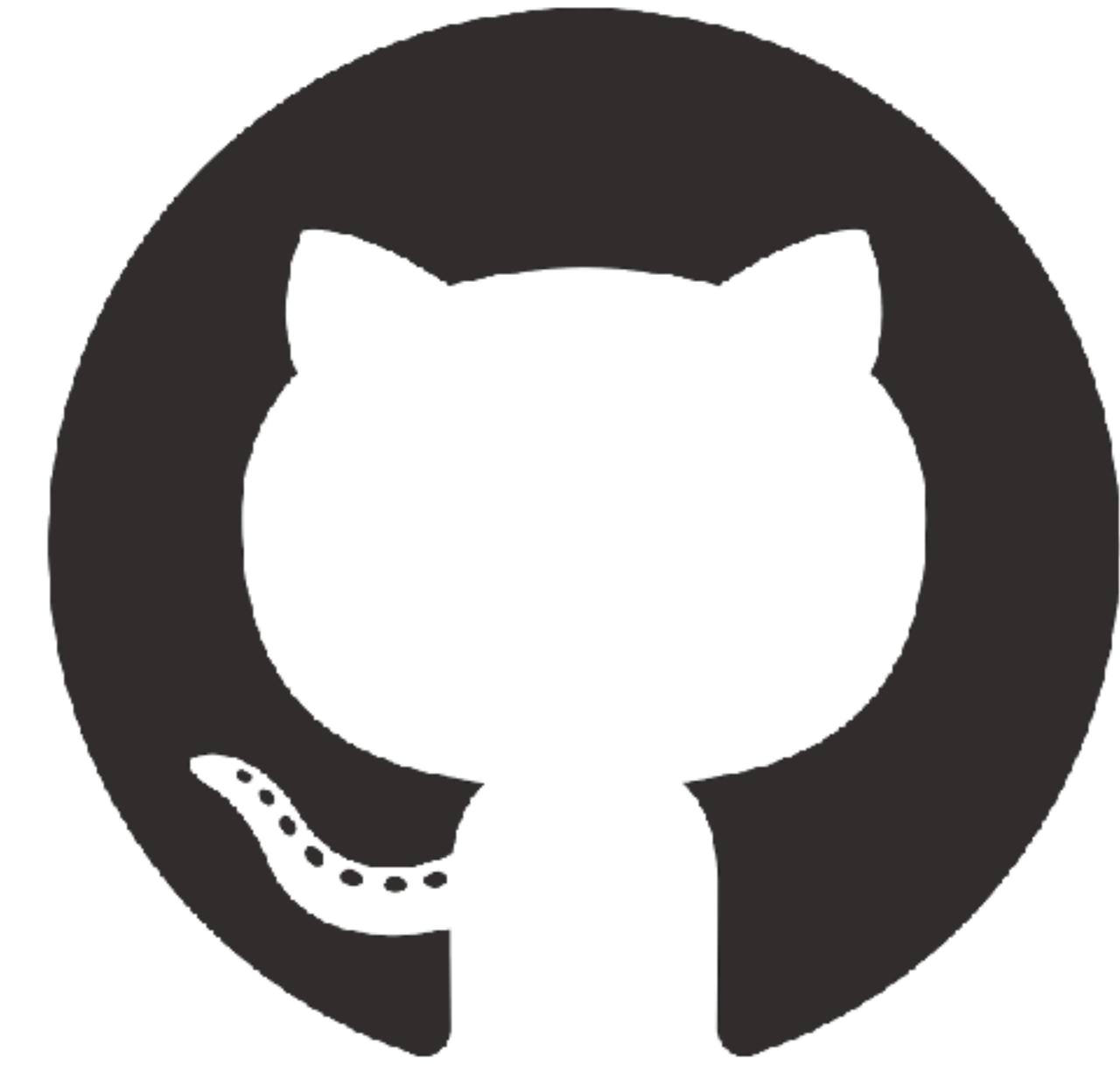
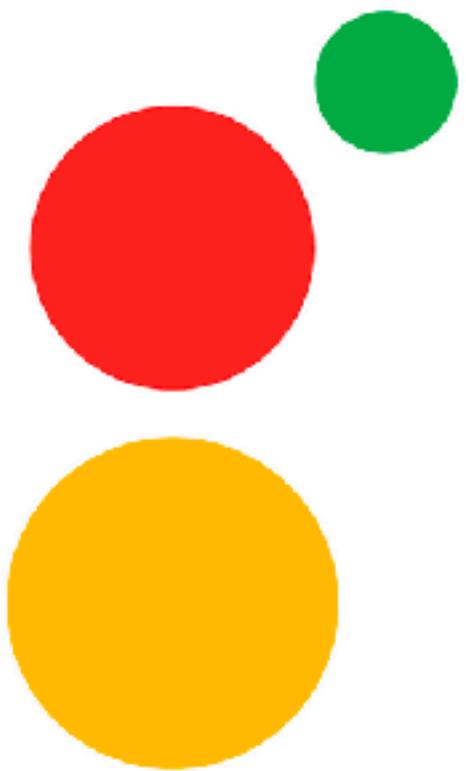
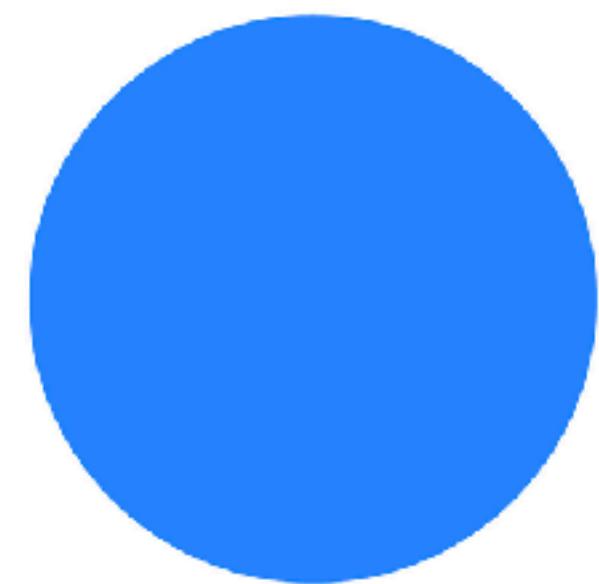
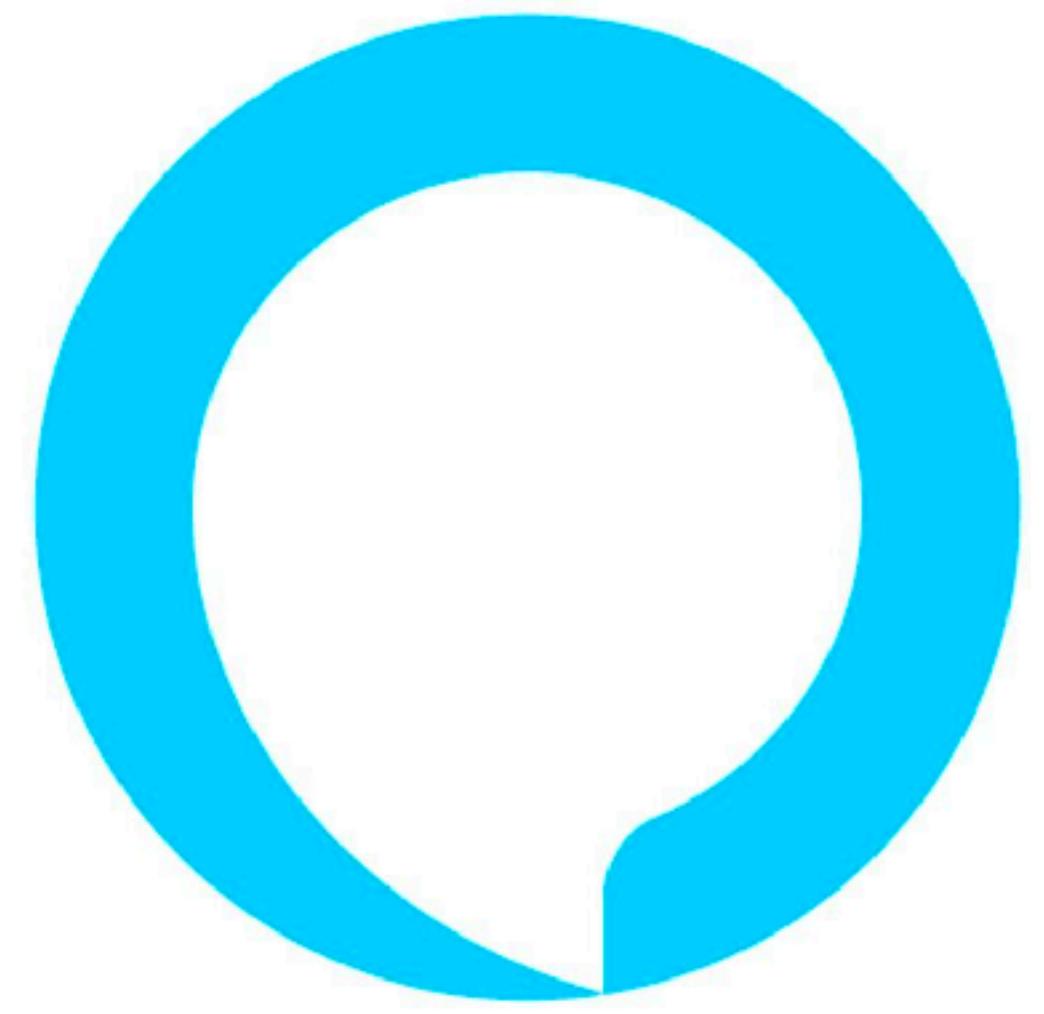
**Repository name**

epaper-dashboard

Rename

**Template repository**

Template repositories let users generate new repositories with the same directory structure and files. [Learn more.](#)





**Well actually**

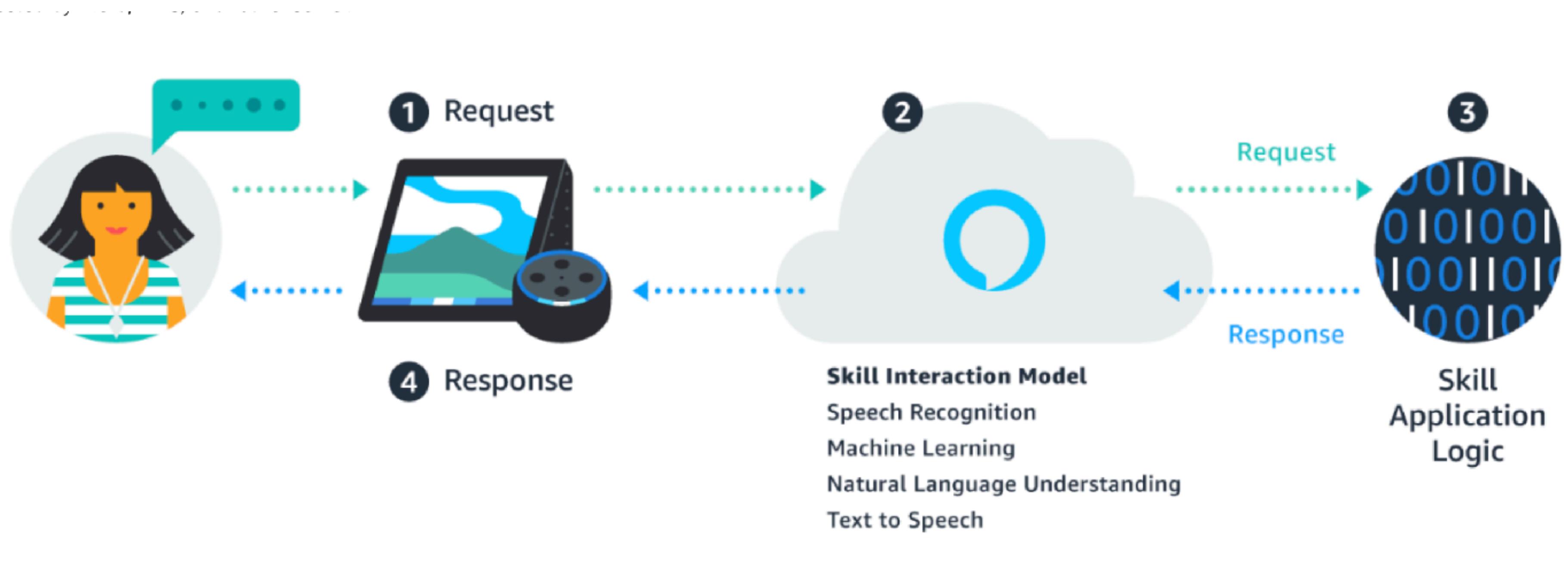




# But don't worry!

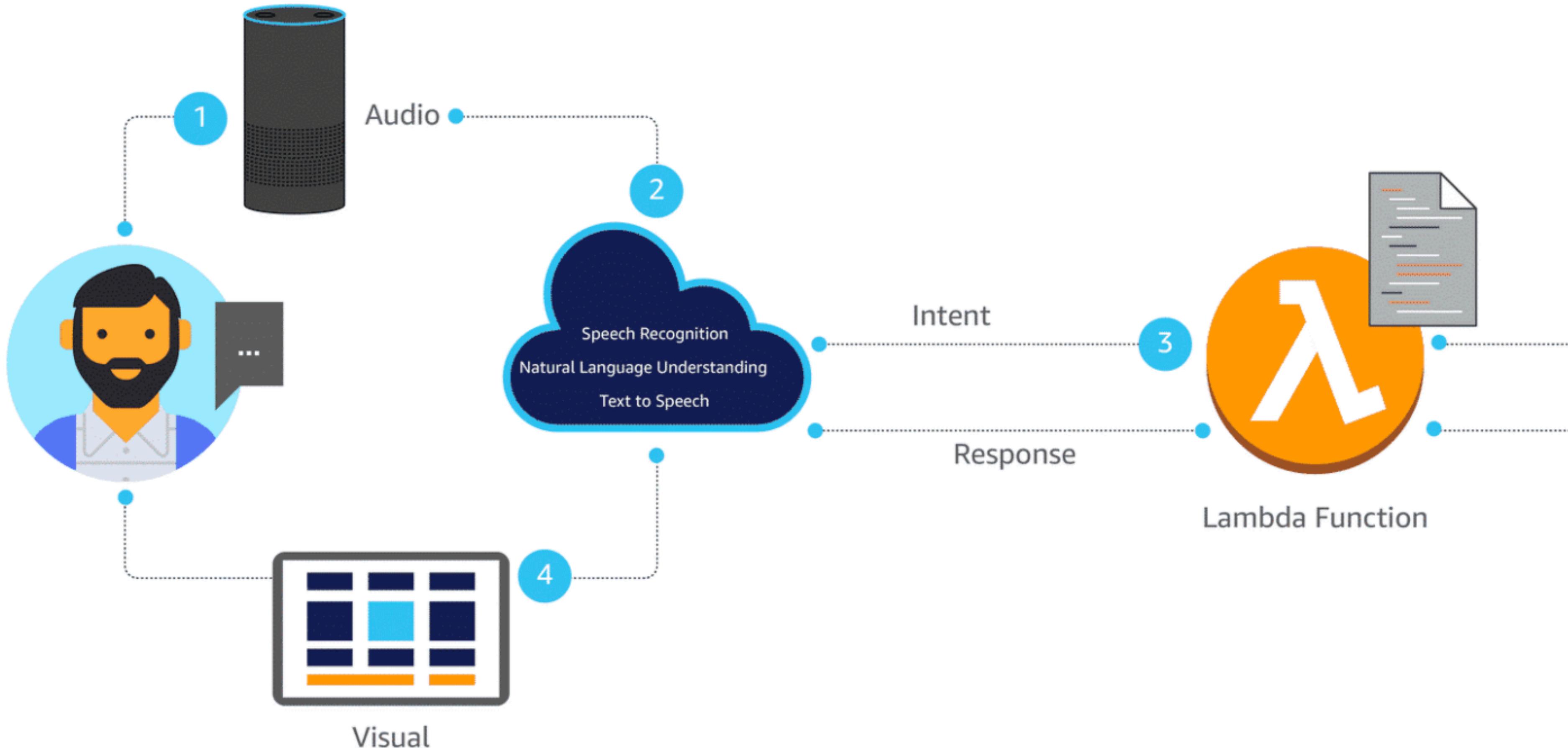
- Jargon, interfaces are just about interchangeable!
- The main difference for me is that Alexa allows for 'private' skills.

# Lots of magic are packed in Skills



- You basically interact with it as a JSON API

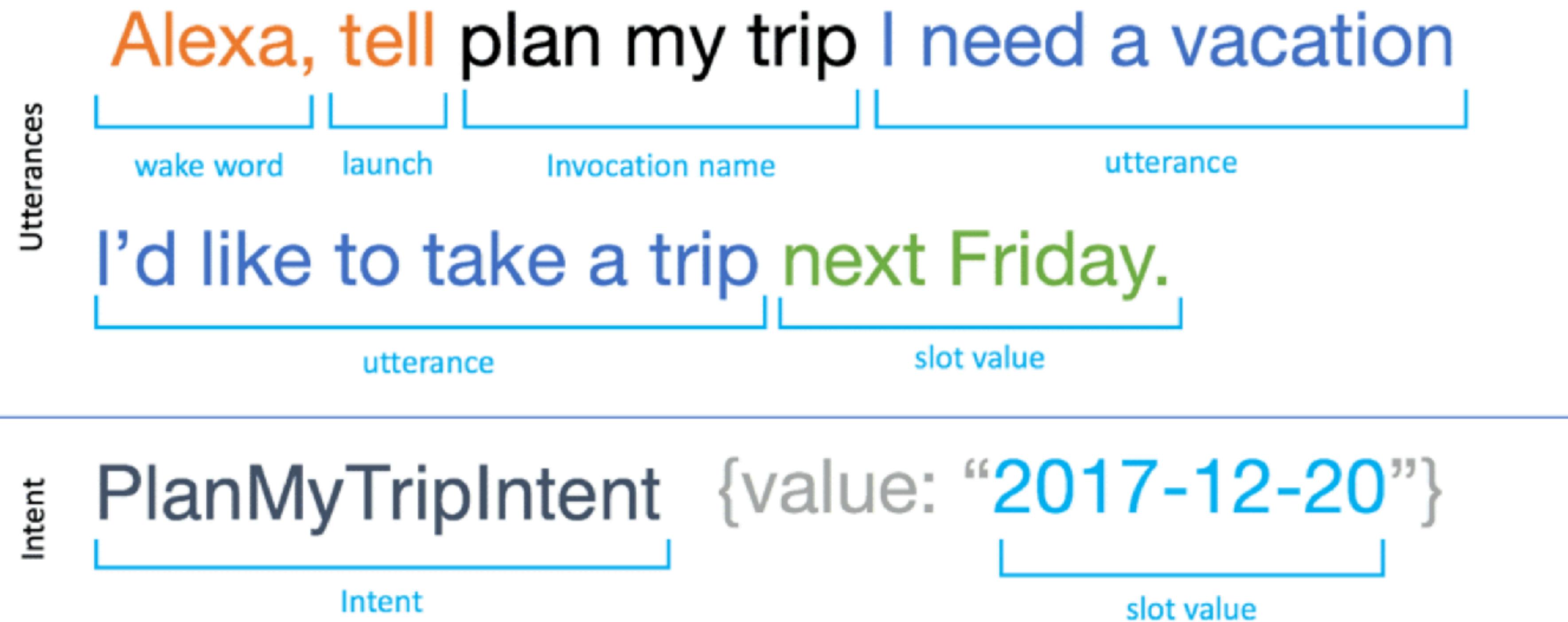
# Skills have a ‘front’ and a backend



# The basics of conversational apps

- A *skill* : A complete app, essentially.
- *Invocation name* : How the user will activate your specific app.
- An *invocation* : When a user asks something to your skill
- An *intent* : The action that a user wants to perform.
- An *utterance* : In what way may the user express its intent.
- A *slot* : A bunch or arguments needed to perform the intent.
- A slot type : The type of data of the given slot

# An illustrated example



# And Amazon is usually quite smart

## Utterance

## Maps to

"I am going on a trip Friday."

TRAVEL\_DATE

"I want to visit Portland."

TO\_CITY

"I want to travel from Seattle to Portland next Friday."

FROM\_CITY, TO\_CITY, and TRAVEL\_DATE

"I'm driving to Portland to go hiking."

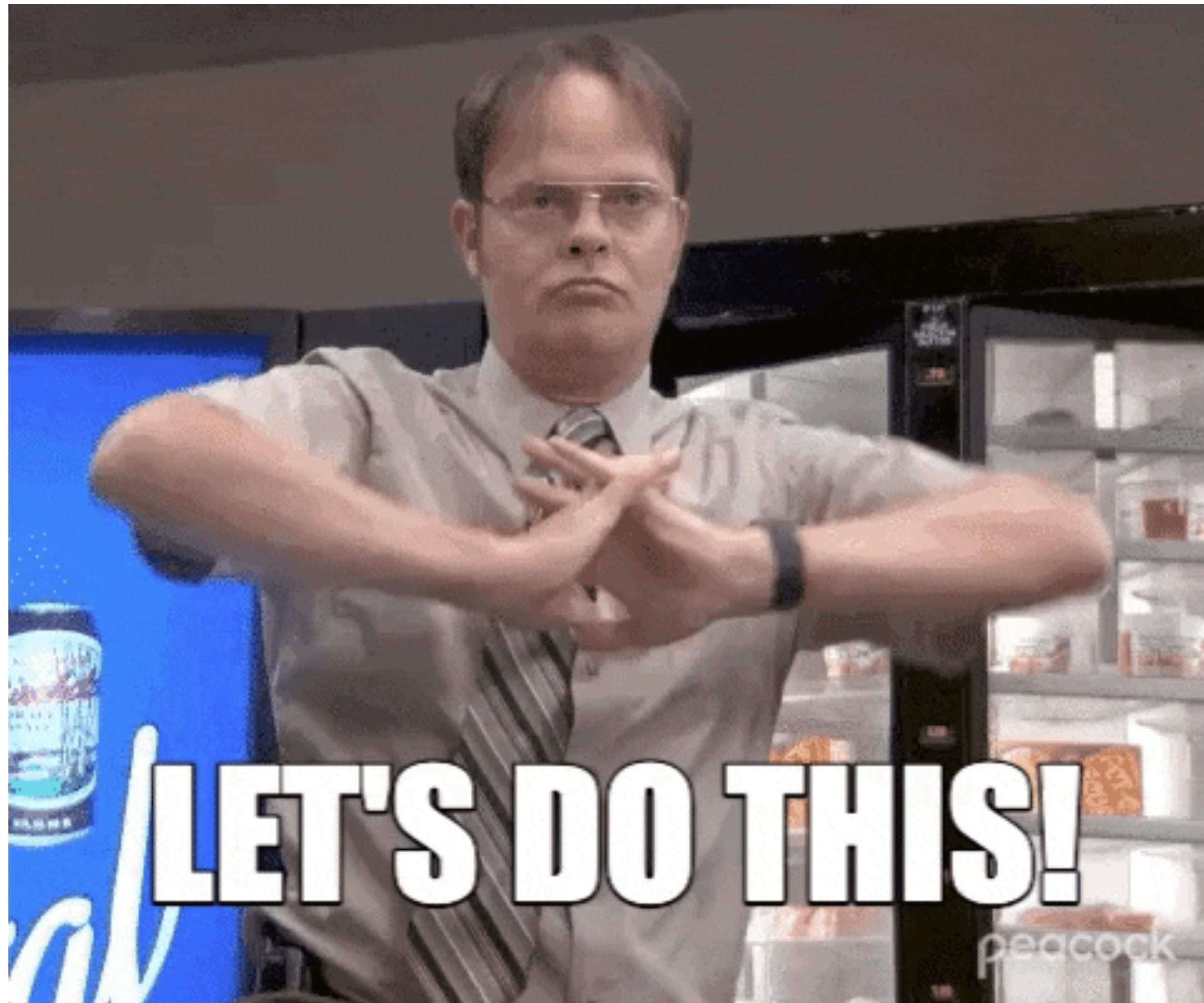
MODE\_OF\_TRAVEL, TO\_CITY, and ACTIVITIES

# ASK : Alexa Skills Kit



```
$ brew install ask-cli  
$ ask new test-project  
$ cd test-project  
$ ask deploy
```

# Alright! Time to work!



# Takeaways : Github Templates

- A very fine idea! Less boilerplate is more happiness
- But the execution is lacking so far?
  - Not searchable on the website
  - Not findable either via the API
  - Very little usage



# Takeaways :

- Abstracts AWS away!
- Very easy to get started and build your own fun things
- Make sure to have enough utterances
- Can be lacking with technical terms, or ACCENTS!
- Building models take a while. Test using JSON allows for faster feedback loop
- **Extremely frustrating when it doesn't work**

- Github template repositories
- Kind of quietly released but super interesting
- Small issue, you can't search for them easily -> <https://twitter.com/jlengrand/status/1325816388984954880>
- And unfindable <https://github.com/search?q=spring+template>

- Not possible at creation. You have to go in the settings afterwards

6,163 repository results Sort: Best match ▾

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[xwjie/PLMCodeTemplate](#)  
给部门制定的代码框架模板  
`spring` `aop` `threadlocal` `log4j-mdc`  
1.8k Java Updated on Jan 21

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[TyCoding/cloud-template](#)  
Spring Cloud Template,一套极简的Spring Cloud项目开发模板  
664 Java MIT license Updated on Jun 12, 2020

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[LinkinStars/springBootTemplate](#)  
SpringBoot项目模版  
`spring-boot` `springboottemplate`  
122 Java Updated on Jan 15, 2019

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[xwjie/ElementVueSpringbootCodeTemplate](#)  
使用Vue+VueX+ElementUI+SpringBoot的代码框架  
`redis` `vue` `vuex` `springboot` `spring-data-jpa` `element-ui`  
595 Java Apache-2.0 license Updated on Jan 18, 2019

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[making/spring-webapp-template](#) (Archived)  
Template Web Application Project for Spring (Spring MVC+Spring Data JPA+Spring Security)  
100 Java Updated on Feb 26, 2016

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[jreijn/spring-comparing-template-engines](#)  
Demo project to show different Java templating engines in combination with Spring MVC  
`spring-mvc` `java` `template-engine`  
375 Java Apache-2.0 license Updated on Feb 17, 2020

Aks cli start new project

‘back end’ and ‘front end’ du projet?

## Alexa Skills Kit Command Line Interface

If you want to do java, you have to run on AWS. Javascript can be hosted by the Alexa website

<https://medium.com/swlh/quickly-build-an-alexa-skill-using-ask-cli-8ab2977bd126>

If not working : <https://stackoverflow.com/questions/39068523/alexa-skill-not-recognized-when-tested-on-echo>

ask's name is kinda cool ^^