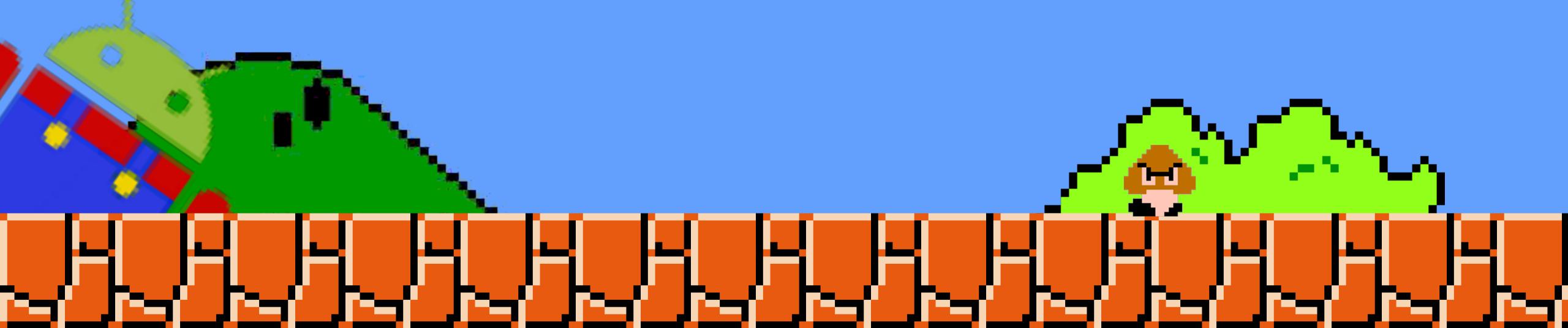
CITHUR ACTIONS ANDROID CI PIPELINE.

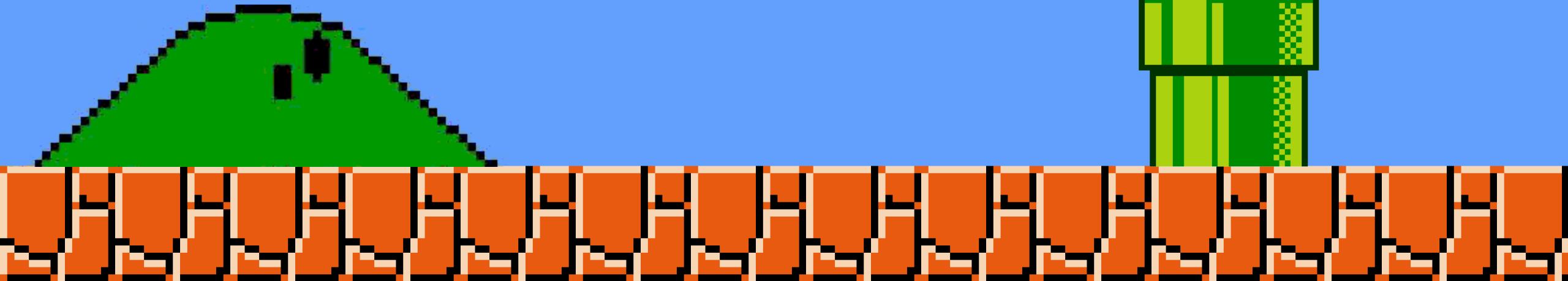
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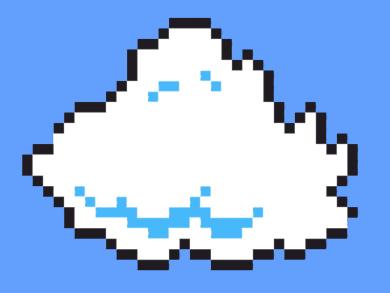




- •What are GitHub actions?
- •Unit test setup
- Executing Espresso tests
- •Artefact generation
- oStill in the pipeline

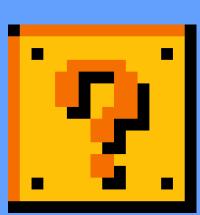


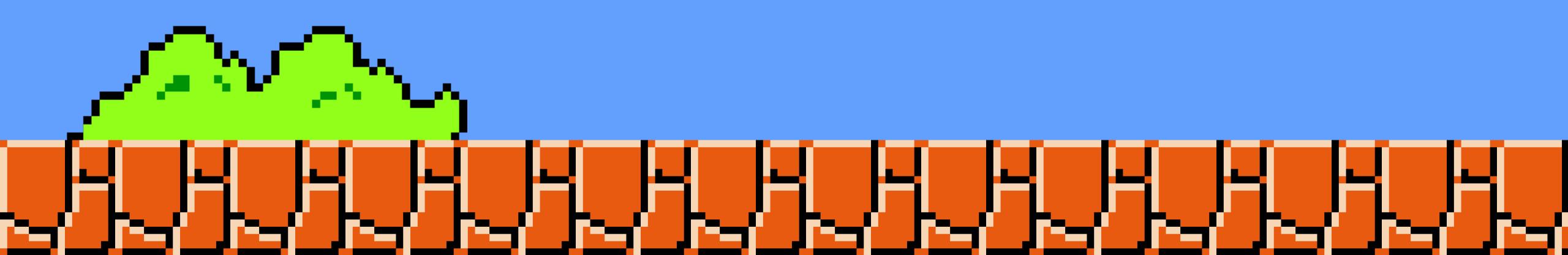
- ocustom SDLC workflows on repo
- . ym 1 / . yam 1
- estrored in .github/workflows
- events
- actions











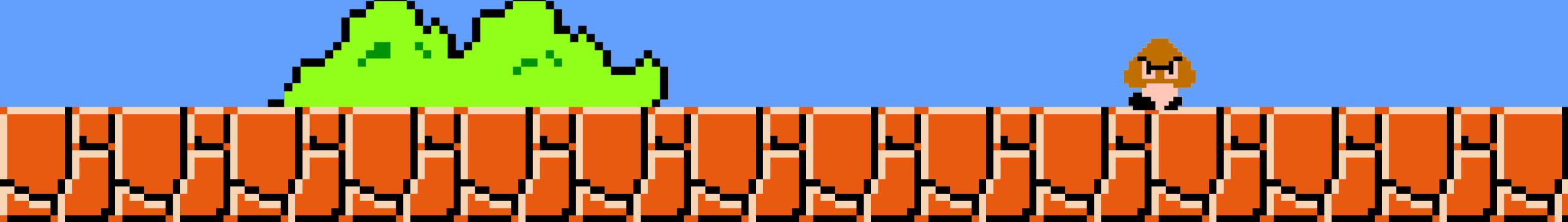


SLIDE 3-1 71ME 9120

Unit Test Setup

```
name: Android Master
on:
    pull_request:
        branches:
        - master
    push:
        branches:
        - master
```

```
jobs:
  unittest:
   name: Run Unit Tests
    runs-on: ubuntu-latest
    steps:
    - uses: actions/checkout@v1
    - name: Set Up JDK 1.8
      uses: actions/setup-java@v1
      with:
        java-version: 1.8
    - name: Execute Unit Tests (gradlew)
      run: bash ./gradlew test --stacktrace
```





SLIDE 3-2





Android Master / Run Unit Tests

succeeded 2 days ago in 4m 11s

- Set up job
- Run actions/checkout@v1
- Set Up JDK 1.8
- Execute Unit Tests (gradlew)
 - 1 ► Run bash ./gradlew test --stacktrace
 - 7 Downloading https://services.gradle.org/distributions/gradle-5.6.4-all.zip
 -
 - Unzipping /home/runner/.gradle/wrapper/dists/gradle-5.6.4-all/ankdp27end7byghfw1q2sw75f/gradle-5.6.4-all.zip to /home/runner/.gradle/wrapper/dists/gradle-5.6.4-all/ankdp27end7byghfw1q2sw75f

- 10 Set executable permissions for: /home/runner/.gradle/wrapper/dists/gradle-5.6.4-all/ankdp27end7byghfw1q2sw75f/gradle-5.6.4/bin/gradle
- 11

13

- 12 Welcome to Gradle 5.6.4!
- 14 Here are the highlights of this release:
- 15 Incremental Groovy compilation
- Groovy compile avoidance
- Test fixtures for Java projects
 - Manage plugin versions via settings script
- 19
- 20 For more details see https://docs.gradle.org/5.6.4/release-notes.html
- 22 Starting a Gradle Daemon (subsequent builds will be faster)
- 23 > Task :app:preBuild UP-TO-DATE
- 24 > Task :app:preOfflinemockDebugBuild UP-TO-DATE
- 25 > Task :app:compileOfflinemockDebugAidl NO-SOURCE
- 26 > Task :app:generateOfflinemockDebugBuildConfig
- 27 > Task :app:compileOfflinemockDebugRenderscript NO-SOURCE
- 28 > Task :app:mainApkListPersistenceOfflinemockDebug
- 29 > Task :app:generateOfflinemockDebugResValues
- 30 > Task :app:generateOfflinemockDebugResources
- 32 > Task :app:processOfflinemockDebugGoogleServices
- 33 Parsing json file: /home/runner/work/currency list app/currency list app/app/src/offlinemock/google-services.json
- Complete job

Android Feature Branch CI / Run Unit Tests

failed 12 days ago in 1m 19s

- Set up job
- Run actions/checkout@v1
- ▶ ✓ set up JDK 1.8
- Unit tests
- Complete job

Espresso Test Setup



- name: Execute Instrumentation Tests

uses: reactivecircus/android-emulator-runner@v2

with:

api-level: 23

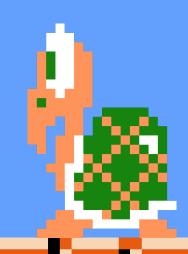
target: default

arch: x86

profile: Nexus 6

script: ./gradlew connectedCheck --stacktrace





ARTIFACT GENERATION





- name: Build APK

run: bash ./gradlew assembleBFDebug --stacktrace

name: Upload Artifact

uses: actions/upload-artifact@v1

with:

name: app-BF-\${{ github.run number }}-debug

path: app/build/outputs/apk/BF/debug/app-BF-debug.apk



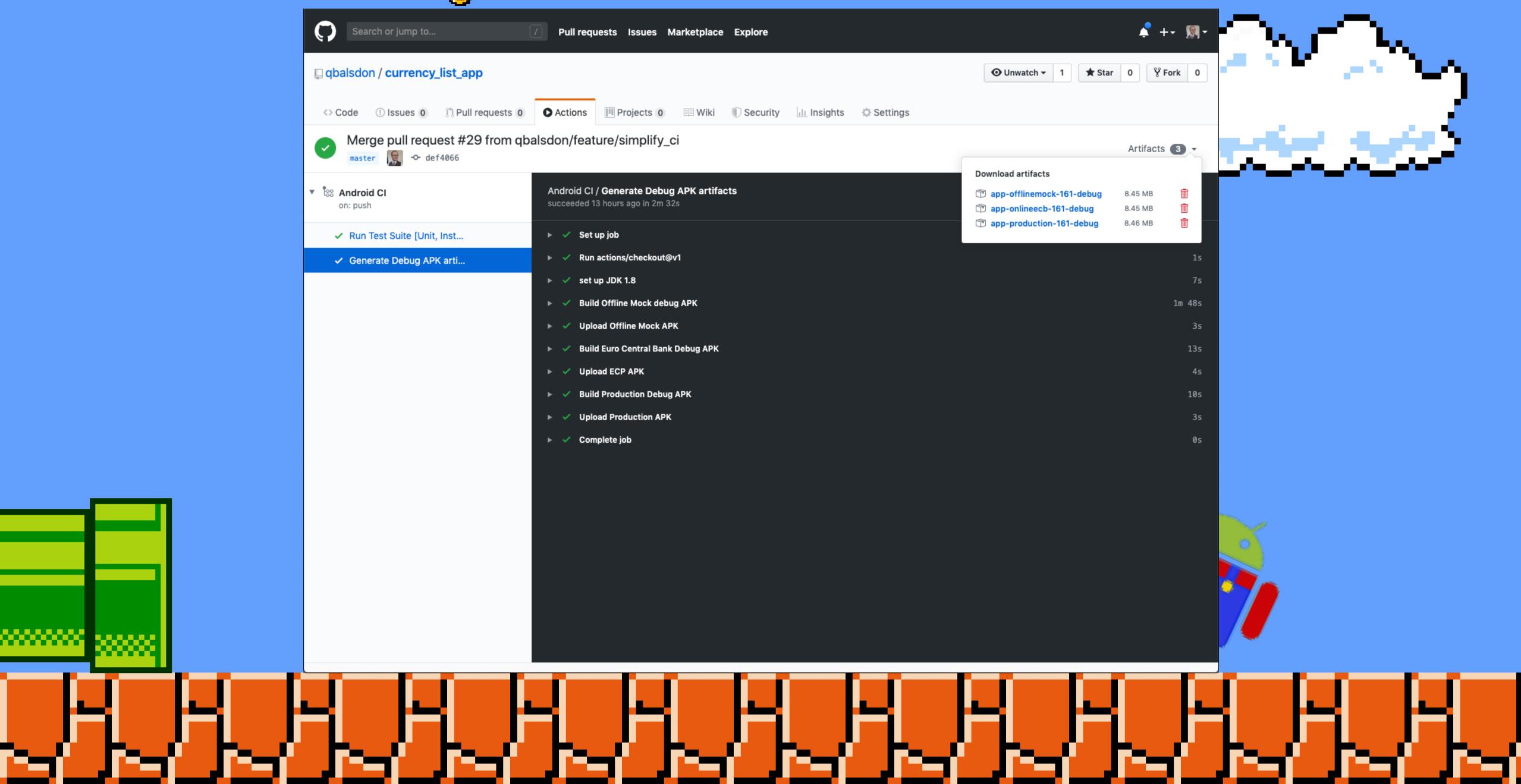


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SLIDE 5-2

12540



- •upload test results as an artefact
- •generation of production (rc) artifacts
- eautomatic deployment to the play store?

