

WHAT HAPPENED IN THIS PIPELINE? DIFFING BUILD LOGS WITH CIDIFF

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CONTEXT

Commits on Jan 16, 2025

Fix importing newer Prism instances (#3129) ^{xxx}

 Gaming32 and Geometrically authored 16 hours ago · ❌ 3 / 4

Verified

0d7934e

Commits on Jan 15, 2025

Fix typescript for OverflowMenu (#3139) ^{xxx}

 Prospector authored 19 hours ago · ✅ 6 / 6

Verified

e4cc8ef

PY-53 Subscription Force Renewal Button (#3153) ^{xxx}

 ferothefox authored 19 hours ago · ✅ 5 / 5

Verified

d670a5c

Commits on Jan 12, 2025

Fix forever installing (#3135) ^{xxx}

 Gaming32 and Geometrically authored 5 days ago · ✅ 4 / 4

Verified

227386b

Commits on Jan 10, 2025

feat(frontend): project tags link to a search (#3126) ^{xxx}

 Neddoo and Prospector authored last week · ✅ 8 / 8

Verified

abd679d

feat(frontend): Add filter query and download hash to the url during download modal use
(#3138) ^{xxx}

 Awakened-Redstone and Prospector authored last week · ✅ 5 / 5

Verified

ec5e3b0

chore: run lint (#3140) ^{xxx}

 Erb3 authored last week · ✅ 3 / 3

Verified

494616e

fix(ui): slider number input field with limits (#2899) ^{xxx}

 Erb3 authored last week · ❌ 4 / 5

Verified

82f81dc

feat(frontend): Automatically open download modal when filter queries are present (on the
main mod page) (#3133) ^{xxx}

 Awakened-Redstone authored last week · ❌ 1 / 2

Verified

316fe72

fix(frontend): lowercase giftcard sorting (#2986) ^{xxx}

 Erb3 authored last week · ❌ 1 / 2

Verified

6266f29

github.com/modrinth/code

Fix typescript for OverflowMenu (#3139) ...

Verified

Prospector authored 19 hours ago

Commit + Workflow

```
name: Build project
```

```
on: [push]
```

```
jobs:
```

```
  build-project:
```

```
    runs-on: ubuntu-latest
```

```
    steps:
```

```
      - uses: actions/checkout@v4
```

```
      - uses: actions/setup-java@v4
```

```
        with:
```

```
          java-version: '17'
```

```
          distribution: 'temurin'
```

Setup java
& gradle

```
      - name: Setup Gradle
```

```
        uses: gradle/actions/setup-gradle@v4
```

```
      - name: Build with Gradle
```

```
        run: ./gradlew build
```

```
      - name: Upload build artifacts
```

```
        uses: actions/upload-artifact@v4
```

```
        with:
```

```
          name: Package
```

```
          path: build/libs
```

Upload results

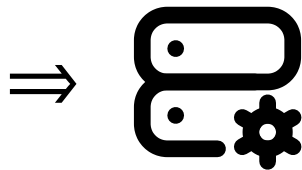
Fix typescript for OverflowMenu (#3139) ...

Verified

Prospector authored 19 hours ago

Commit + Workflow

```
name: Build project
on: [push]
jobs:
  build-project:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v4
      - uses: actions/setup-java@v4
        with:
          java-version: '17'           Setup java
          distribution: 'temurin'      & gradle
      - name: Setup Gradle
        uses: gradle/actions/setup-gradle@v4
      - name: Build with Gradle
        run: ./gradlew build
      - name: Upload build artifacts
        uses: actions/upload-artifact@v4
        with:
          name: Package
          path: build/libs             Upload results
```



Fix typescript for OverflowMenu (#3139) ...

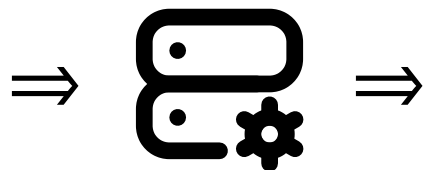
Verified

Prospector authored 19 hours ago

Commit
+
Workflow

```
name: Build project
on: [push]
jobs:
  build-project:
    runs-on: ubuntu-latest
    steps:
```

```
- uses: actions/checkout@v4
- uses: actions/setup-java@v4
  with:
    java-version: '17'      Setup java
                           & gradle
    distribution: 'temurin'
- name: Setup Gradle
  uses: gradle/actions/setup-gradle@v4
- name: Build with Gradle
  run: ./gradlew build
- name: Upload build artifacts
  uses: actions/upload-artifact@v4
  with:
    name: Package
    path: build/libs        Upload results
```



✓ Fix typescript for OverflowMenu (#3139)

Modrinth App build #65: Commit e4cc8ef pushed by Prospector

19 hours ago 10m 51s main

Result
(success)
+
Log



Fix importing newer Prism instances (#3129) ...

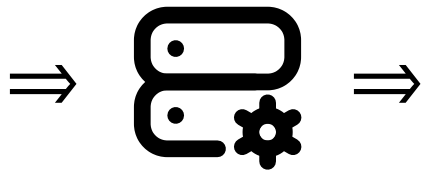
Verified

Gaming32 and Geometrically authored 16 hours ago

Commit + Workflow

```
name: Build project
on: [push]
jobs:
  build-project:
    runs-on: ubuntu-latest
    steps:
```

```
- uses: actions/checkout@v4
- uses: actions/setup-java@v4
  with:
    java-version: '17'      Setup java
                           & gradle
    distribution: 'temurin'
- name: Setup Gradle
  uses: gradle/actions/setup-gradle@v4
- name: Build with Gradle
  run: ./gradlew build
- name: Upload build artifacts
  uses: actions/upload-artifact@v4
  with:
    name: Package
    path: build/libs        Upload results
```



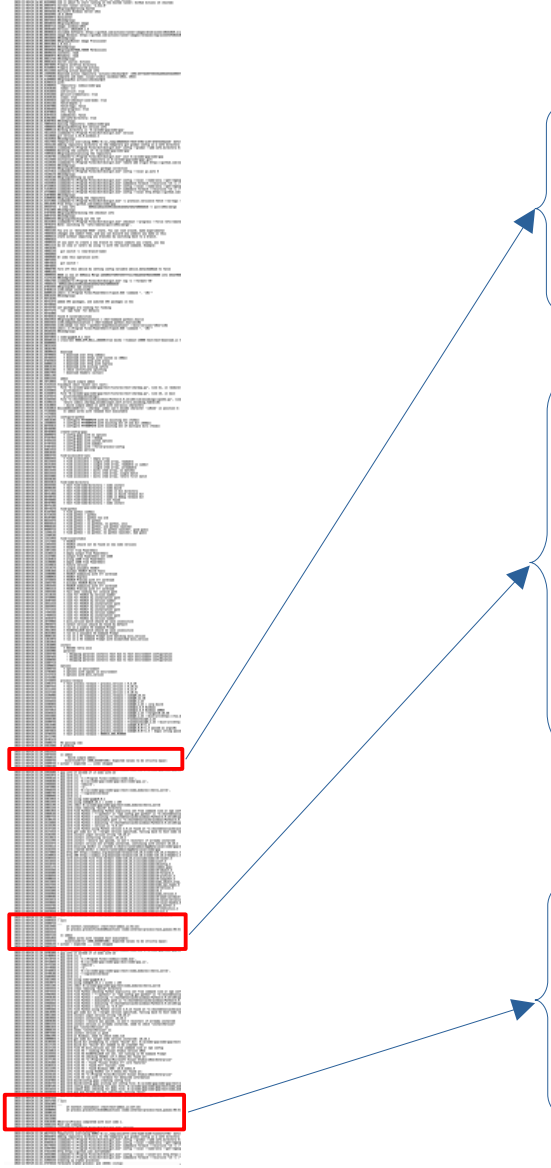
✖ Fix importing newer Prism instances (#3129)

Modrinth App build #66: Commit 0d7934e pushed by Geometrically

📅 16 hours ago ⌚ 11m 28s [main](#)

Result (error) + Log





```

2023-11-03T19:21:19.2487533Z 1) addon
2023-11-03T19:21:19.2488021Z build simple addon:
2023-11-03T19:21:19.2488875Z AssertionError [ERR_ASSERTION]: Expected values to be strictly equal:
2023-11-03T19:21:19.2489974Z + actual - expected ... Lines skipped
2023-11-03T19:21:19.2490470Z
2023-11-03T19:21:19.2491978Z + Error: Command failed: C:\Program Files\nodejs\node.exe D:\a\node-gyp\node-gyp\bin\node-gyp.js
rebuild -C D:\a\node-gyp\node-gyp\test\node_modules\hello_world --loglevel=verbose

```

```

2023-11-03T19:21:19.2559174Z + gyp verb extracted file from tarball node-v18.18.2/include/node/uv/darwin.h
2023-11-03T19:21:19.2560012Z ...
2023-11-03T19:21:19.2560462Z - null
2023-11-03T19:21:19.2560872Z ...
2023-11-03T19:21:19.2561498Z at Context.<anonymous> (test\test-addon.js:52:12)
2023-11-03T19:21:19.2562537Z at process.processTicksAndRejections (node:internal/process/task_queues:95:5)
2023-11-03T19:21:19.2563333Z

```

```

2023-11-03T19:21:19.2563713Z 2) addon
2023-11-03T19:21:19.2564293Z addon works with renamed host executable:
2023-11-03T19:21:19.2565474Z AssertionError [ERR_ASSERTION]: Expected values to be strictly equal:
2023-11-03T19:21:19.2566614Z + actual - expected ... Lines skipped
2023-11-03T19:21:19.2567112Z
2023-11-03T19:21:19.2568616Z + Error: Command failed: C:\Program Files\nodejs\node.exe D:\a\node-gyp\node-gyp\bin\node-gyp.js rebuild
-C D:\a\node-gyp\node-gyp\test\node_modules\hello_world --loglevel=verbose

```

```

2023-11-03T19:21:19.2635764Z + gyp info spawn C:\hostedtoolcache\windows\Python\3.9.13\x64\python.exe
2023-11-03T19:21:19.2636732Z ...
2023-11-03T19:21:19.2637278Z - null
2023-11-03T19:21:19.2638109Z ...
2023-11-03T19:21:19.2638797Z at Context.<anonymous> (test\test-addon.js:127:12)
2023-11-03T19:21:19.2640099Z at process.processTicksAndRejections (node:internal/process/task_queues:95:5)
2023-11-03T19:21:19.2640914Z
2023-11-03T19:21:19.2641026Z
2023-11-03T19:21:19.2641350Z

```


Success log

```
Fetching the repository
Remote: Counting object: 100% (312/312)
*[new ref] c1518c52f3
gradle build
Downloading datafixerupper-4.1.27.jar
Downloading guava-31.0.1.jar
Testing subproject 'core'
test core:a ok
test core:b ok
2/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
3/3 Tests ok
Tests SUCCESS
Build SUCCESS
Test & build finished
duration: 8.66s
```

Failure log

```
Fetching the repository
Remote: Counting object: 50% (159/312)
Remote: Counting object: 100% (318/318)
*[new ref] 531b38e562
gradle build
Downloading guava-31.0.1.jar
Downloading datafixerupper-4.1.27.jar
Downloading gson-2.11.0.jar
Testing subproject 'core'
test core:a ok
test core:b ok
test core:c ok
0.3" got "0.30000000004"
1/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
test common:d ok
4/4 Tests ok
Tests FAILURE
Build FAILURE
Test & build finished
duration: 10.52s
```

Compare the last (failure) log
with the previous (success) log

Success log

```
Fetching the repository
Remote: Counting object: 100% (312/312)
*[new ref] c1518c52f3
gradle build
Downloading datafixerupper-4.1.27.jar
Downloading guava-31.0.1.jar
Testing subproject 'core'
test core:a ok
test core:b ok
2/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
3/3 Tests ok
Tests SUCCESS
Build SUCCESS
Test & build finished
duration: 8.66s
```

Failure log

```
Fetching the repository
Remote: Counting object: 50% (159/312)
Remote: Counting object: 100% (318/318)
*[new ref] 531b38e562
gradle build
Downloading guava-31.0.1.jar
Downloading datafixerupper-4.1.27.jar
Downloading gson-2.11.0.jar
Testing subproject 'core'
test core:a ok
Error: expected "0.3" got "0.30000000004"
test core:b fail
1/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
test common:d ok
4/4 Tests ok
Tests FAILURE
Build FAILURE
Test & build finished
duration: 10.52s
```

Success log

Fetching the repository

Remote: Counting object: 100% (312/312)

*[new ref] c1518c52f3

gradle build

Downloading datafixerupper-4.1.27.jar

Downloading guava-31.0.1.jar

Testing subproject 'core'

test core:a ok

test core:b ok

2/2 Test ok

Testing subproject 'common'

test common:a ok

test common:b ok

test common:c ok

3/3 Tests ok

Tests SUCCESS

Build SUCCESS

Test & build finished

duration: 8.66s

Failure log

Fetching the repository

Remote: Counting object: 50% (159/312)

Remote: Counting object: 100% (318/318)

*[new ref] 531b38e562

gradle build

Downloading guava-31.0.1.jar

Downloading datafixerupper-4.1.27.jar

Downloading gson-2.11.0.jar

Testing subproject 'core'

test core:a ok

Error: expected "0.3" got "0.30000000004"

test core:b fail

1/2 Test ok

Testing subproject 'common'

test common:a ok

test common:b ok

test common:c ok

test common:d ok

4/4 Tests ok

Tests FAILURE

Build FAILURE

Test & build finished

duration: 10.52s

Success log

Fetching the repository
Remote: Counting object: 100% (312/312)
*[new ref] c1518c52f3
gradle build
Downloading datafixerupper-4.1.27.jar
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Testing subproject 'core'
test core:a ok
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2/2 Test ok
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test common:a ok
test common:b ok
test common:c ok
3/3 Tests ok
Tests SUCCESS
Build SUCCESS
Test & build finished
duration: 8.66s

Failure log

Fetching the repository
Remote: Counting object: 50% (159/312)
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*[new ref] 531b38e562
gradle build
Downloading guava-31.0.1.jar
Downloading datafixerupper-4.1.27.jar
Downloading gson-2.11.0.jar
Testing subproject 'core'
test core:a ok
Error: expected "0.3" got "0.3000000004"
test core:b fail
1/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
test common:d ok
4/4 Tests ok
Tests FAILURE
Build FAILURE
Test & build finished
duration: 10.52s

Success log

```
Fetching the repository
Remote: Counting object: 100% (312/312)
*[new ref] c1518c52f3
gradle build
Downloading datafixerupper-4.1.27.jar
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test core:b ok
2/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
3/3 Tests ok
Tests SUCCESS
Build SUCCESS
Test & build finished
duration: 8.66s
```

Our Approach

Failure log

```
Fetching the repository
Remote: Counting object: 50% (159/312)
Remote: Counting object: 100% (318/318)
*[new ref] 531b38e562
gradle build
Downloading guava-31.0.1.jar
Downloading datafixerupper-4.1.27.jar
Downloading gson-2.11.0.jar
Testing subproject 'core'
test core:a ok
Error: expected "0.3" got "0.30000000004"
test core:b fail
1/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
test common:d ok
4/4 Tests ok
Tests FAILURE
Build FAILURE
Test & build finished
duration: 10.52s
```

APPROACH

DIFF ALGORITHM

Similarity Metric

+

Match Selector

SIMILARITY METRIC

Standard Diff : `String#equals()`

2023-11-22T09:15 Build error, took 2.6 seconds

2023-11-23T10:00 Build success, took 3.4 seconds

⇒ they are different

SIMILARITY METRIC

```
log(String.format("%s Build %s, took %.1f seconds", now, result, duration))
```

2023-11-22T09:15 Build error, took 2.6 seconds

2023-11-23T10:00 Build success, took 3.4 seconds

SIMILARITY METRIC

```
log(String.format("%s Build %s, took %.1f seconds", now, result, duration))
```

2023-11-22T09:15	Build	error,	took	2.6	seconds
2023-11-23T10:00	Build	success,	took	3.4	seconds

SIMILARITY METRIC

```
log(String.format("%s Build %s, took %.1f seconds", now, result, duration))
```

2023-11-22T09:15
2023-11-23T10:00

Build
Build

error,
success,

took
took

2.6
3.4

seconds
seconds



1



1



1

SIMILARITY METRIC

```
log(String.format("%s Build %s, took %.1f seconds", now, result, duration))
```

2023-11-22T09:15
2023-11-23T10:00

↓
0.5

Build
Build

↓
1

error,
success,

took
took

↓
1

2.6
3.4

↓
0.5

seconds
seconds

↓
1

SIMILARITY METRIC

```
log(String.format("%s Build %s, took %.1f seconds", now, result, duration))
```

2023-11-22T09:15
2023-11-23T10:00

↓
0.5

Build
Build

↓
1

error,
success,

↓
0

took
took

↓
1

2.6
3.4

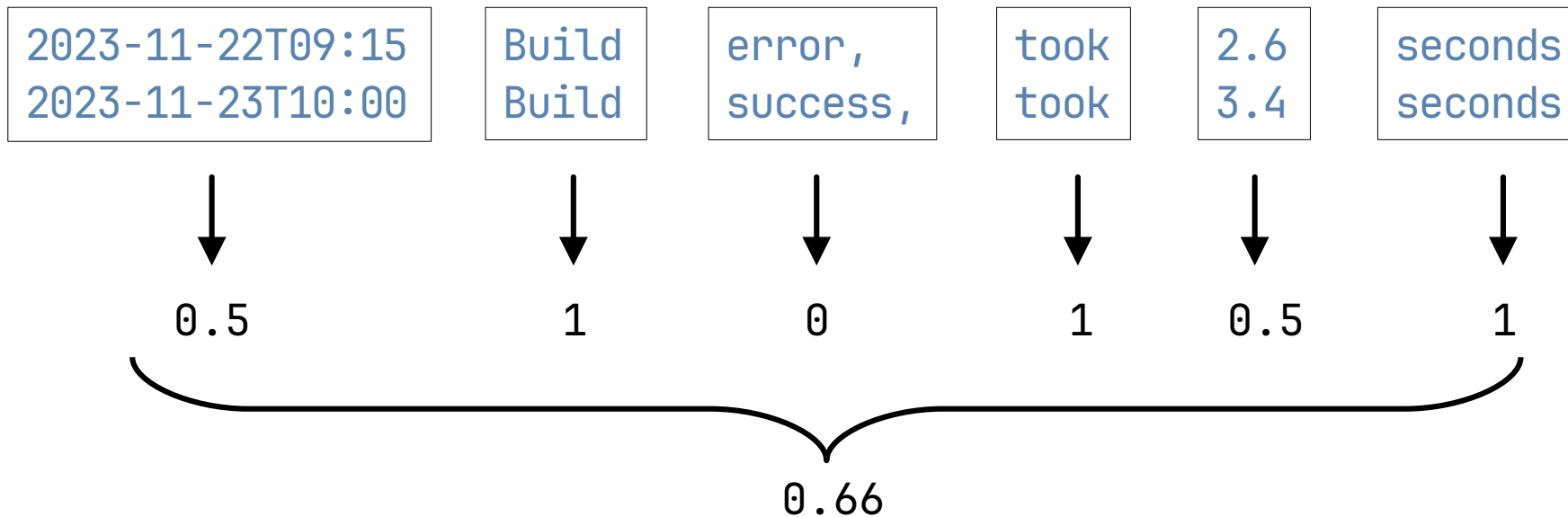
↓
0.5

seconds
seconds

↓
1

SIMILARITY METRIC

```
log(String.format("%s Build %s, took %.1f seconds", now, result, duration))
```



SIMILARITY METRIC

```
log(String.format("%s Build %s, took %.1f seconds", now, result, duration))
```

2023-11-22T09:15 Build error, took 2.6 seconds

2023-11-23T10:00 Build success, took 3.4 seconds

⇒ they are *similar*

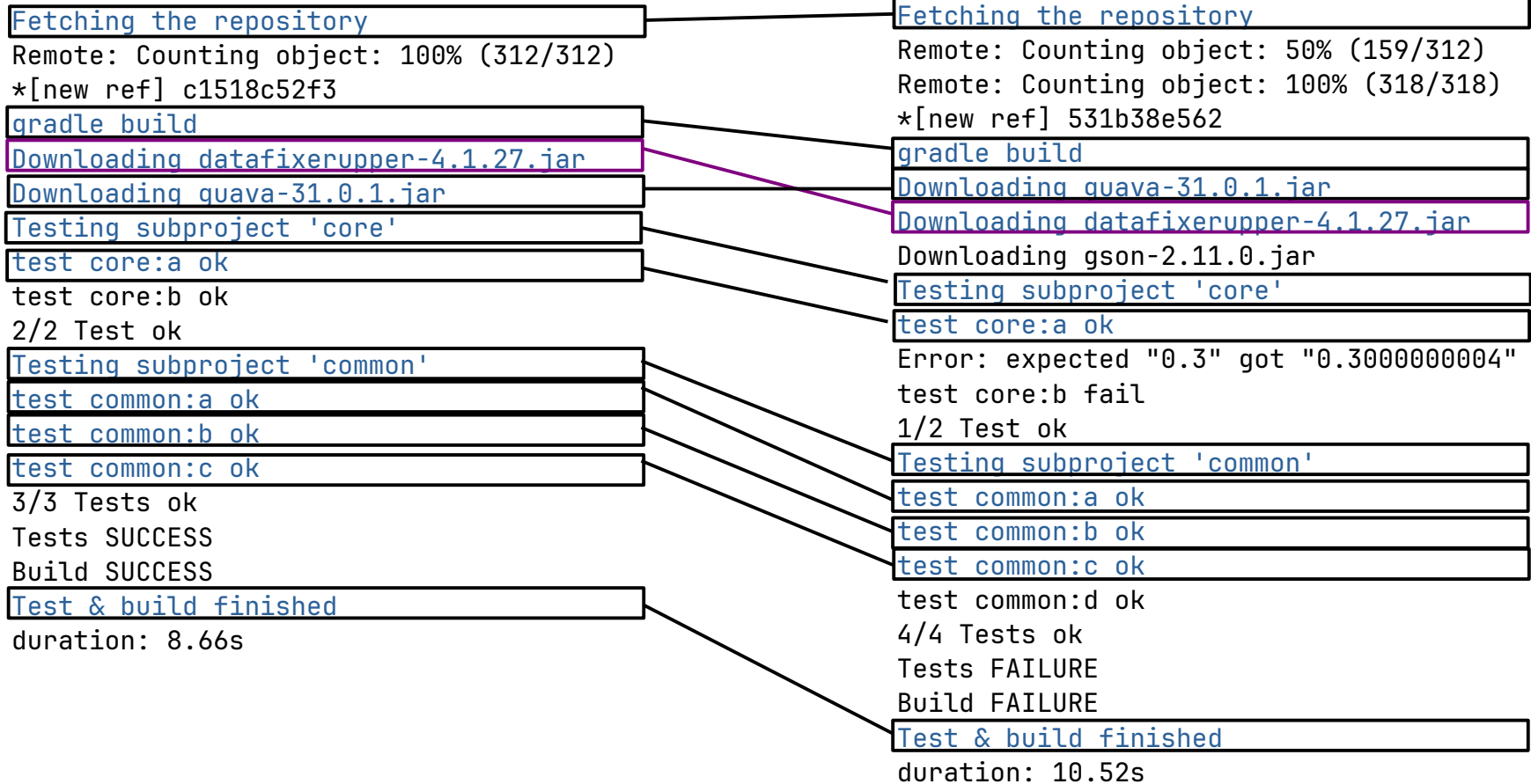
MATCH SELECTOR

```
Fetching the repository
Remote: Counting object: 100% (312/312)
*[new ref] c1518c52f3
gradle build
Downloading datafixerupper-4.1.27.jar
Downloading guava-31.0.1.jar
Testing subproject 'core'
test core:a ok
test core:b ok
2/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
3/3 Tests ok
Tests SUCCESS
Build SUCCESS
duration: 8.66s
```

```
Fetching the repository
Remote: Counting object: 50% (159/312)
Remote: Counting object: 100% (318/318)
*[new ref] 531b38e562
gradle build
Downloading guava-31.0.1.jar
Downloading datafixerupper-4.1.27.jar
Downloading gson-2.11.0.jar
Testing subproject 'core'
test core:a ok
Error: expected "0.3" got "0.30000000004"
test core:b fail
1/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
test common:d ok
4/4 Tests ok
Tests FAILURE
Build SUCCESS
duration: 10.52s
```

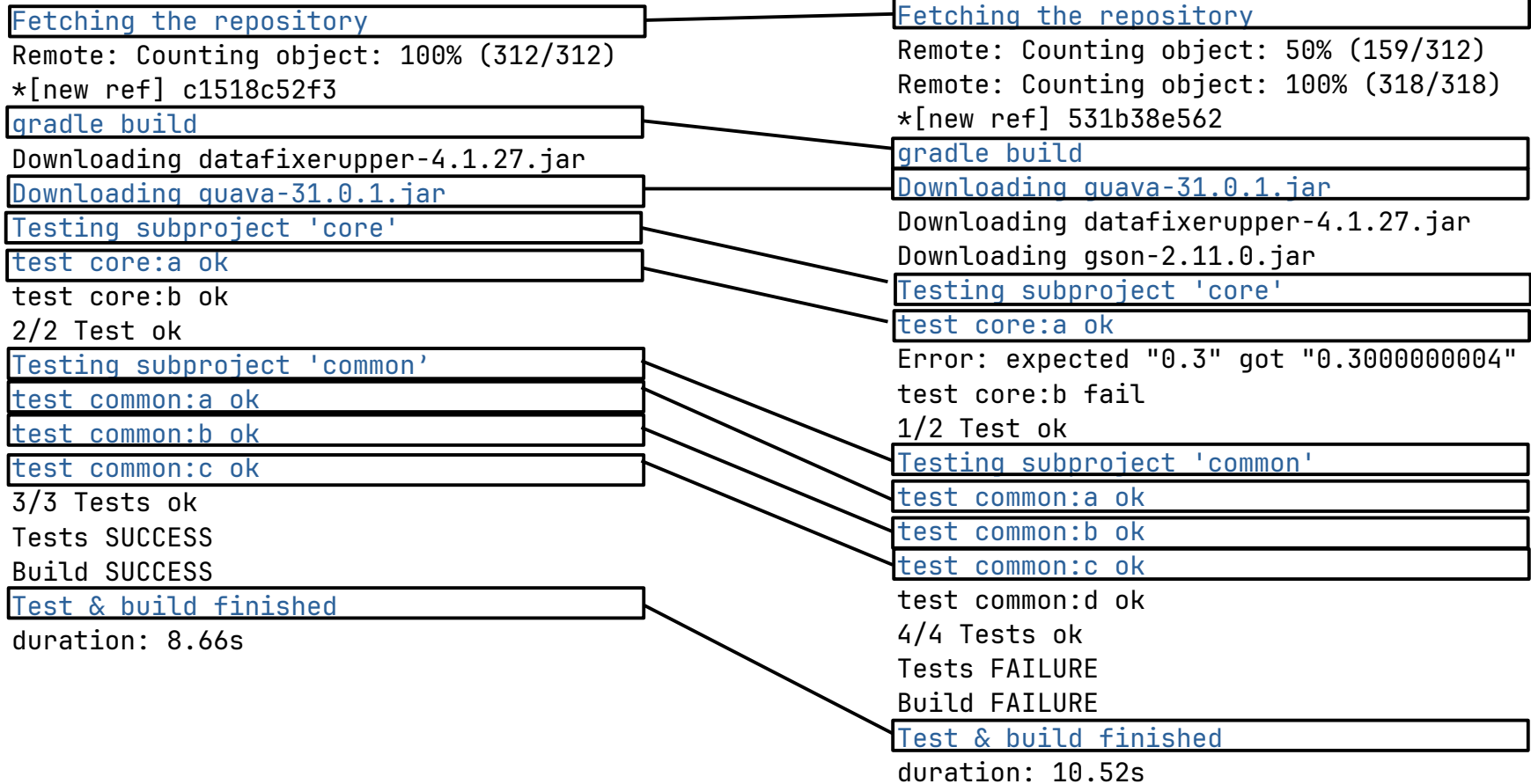

MATCH SELECTOR

Diff : LCS



MATCH SELECTOR

Diff : LCS



MATCH SELECTOR

CiDiff : Seed and extend

Fetching the repository

Remote: Counting object: 100% (312/312)

*[new ref] c1518c52f3

gradle build

Downloading datafixerupper-4.1.27.jar

Downloading guava-31.0.1.jar

Testing subproject 'core'

test core:a ok

test core:b ok

2/2 Test ok

Testing subproject 'common'

test common:a ok

test common:b ok

test common:c ok

3/3 Tests ok

Tests SUCCESS

Build SUCCESS

Test & build finished

duration: 8.66s

Fetching the repository

Remote: Counting object: 50% (159/312)

Remote: Counting object: 100% (318/318)

*[new ref] 531b38e562

gradle build

Downloading guava-31.0.1.jar

Downloading datafixerupper-4.1.27.jar

Downloading gson-2.11.0.jar

Testing subproject 'core'

test core:a ok

Error: expected "0.3" got "0.30000000004"

test core:b fail

1/2 Test ok

Testing subproject 'common'

test common:a ok

test common:b ok

test common:c ok

test common:d ok

4/4 Tests ok

Tests FAILURE

Build FAILURE

Test & build finished

duration: 10.52s

MATCH SELECTOR

Create small high-confidence seeds, and then extends them on similar lines

CiDiff : Seed and extend

Fetching the repository

Remote: Counting object: 100% (312/312)
*[new ref] c1518c52f3

gradle build

Downloading datafixerupper-4.1.27.jar

Downloading guava-31.0.1.jar

Testing subproject 'core'

test core:a ok

test core:b ok

2/2 Test ok

Testing subproject 'common'

test common:a ok

test common:b ok

test common:c ok

3/3 Tests ok

Tests SUCCESS

Build SUCCESS

Test & build finished

duration: 8.66s

Fetching the repository

Remote: Counting object: 50% (159/312)
Remote: Counting object: 100% (318/318)
*[new ref] 531b38e562

gradle build

Downloading guava-31.0.1.jar

Downloading datafixerupper-4.1.27.jar

Downloading gson-2.11.0.jar

Testing subproject 'core'

test core:a ok

Error: expected "0.3" got "0.30000000004"

test core:b fail

1/2 Test ok

Testing subproject 'common'

test common:a ok

test common:b ok

test common:c ok

test common:d ok

4/4 Tests ok

Tests FAILURE

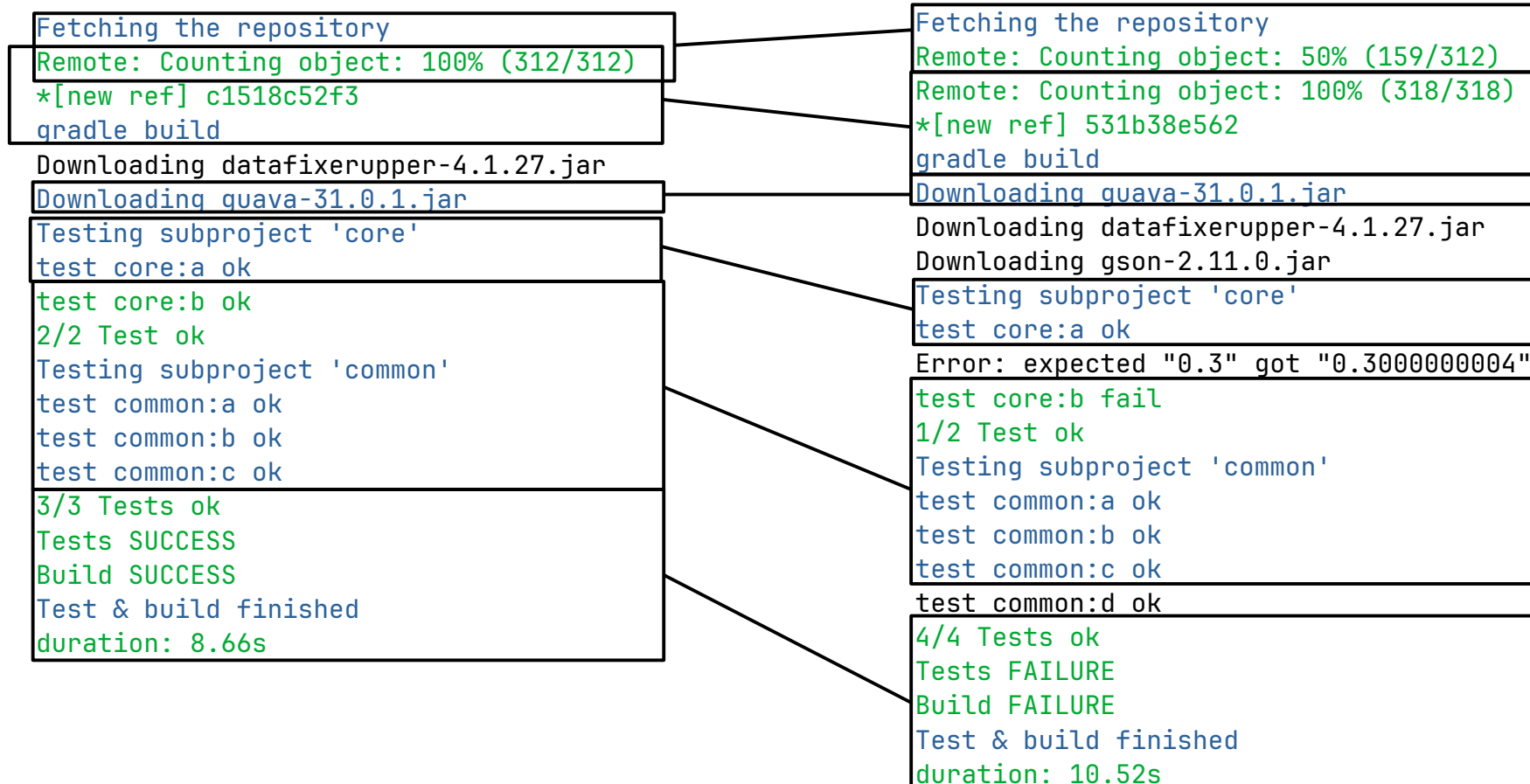
Build FAILURE

Test & build finished

duration: 10.52s

MATCH SELECTOR

CiDiff : Seed and extend



MATCH SELECTOR

CiDiff : Seed and extend

```
Fetching the repository
Remote: Counting object: 100% (312/312)
*[new ref] c1518c52f3
gradle build
Downloading datafixerupper-4.1.27.jar
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Testing subproject 'core'
test core:a ok
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2/2 Test ok
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Remote: Counting object: 50% (159/312)
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*[new ref] 531b38e562
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Downloading datafixerupper-4.1.27.jar
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Testing subproject 'core'
test core:a ok
Error: expected "0.3" got "0.30000000004"
test core:b fail
1/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
test common:d ok
4/4 Tests ok
Tests FAILURE
Build FAILURE
Test & build finished
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CiDiff : Seed and extend

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Fetching the repository
Remote: Counting object: 100% (312/312)
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Build SUCCESS
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```
Fetching the repository
Remote: Counting object: 50% (159/312)
Remote: Counting object: 100% (318/318)
*[new ref] 531b38e562
gradle build
Downloading guava-31.0.1.jar
Downloading datafixerupper-4.1.27.jar
Downloading gson-2.11.0.jar
Testing subproject 'core'
test core:a ok
Error: expected "0.3" got "0.30000000004"
test core:b fail
1/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
test common:d ok
4/4 Tests ok
Tests FAILURE
Build FAILURE
Test & build finished
duration: 10.52s
```

MATCH SELECTOR

CiDiff : Seed and extend

```
Fetching the repository
Remote: Counting object: 100% (312/312)
*[new ref] c1518c52f3
gradle build
Downloading datafixerupper-4.1.27.jar
Downloading guava-31.0.1.jar
Testing subproject 'core'
test core:a ok
test core:b ok
2/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
3/3 Tests ok
Tests SUCCESS
Build SUCCESS
Test & build finished
duration: 8.66s
```

```
Fetching the repository
Remote: Counting object: 50% (159/312)
Remote: Counting object: 100% (318/318)
*[new ref] 531b38e562
gradle build
Downloading guava-31.0.1.jar
Downloading datafixerupper-4.1.27.jar
Downloading gson-2.11.0.jar
Testing subproject 'core'
test core:a ok
Error: expected "0.3" got "0.30000000004"
test core:b fail
1/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
test common:d ok
4/4 Tests ok
Tests FAILURE
Build FAILURE
Test & build finished
duration: 10.52s
```


MATCH SELECTOR

CiDiff : Seed and extend

```
Fetching the repository
Remote: Counting object: 100% (312/312)
*[new ref] c1518c52f3
gradle build
Downloading datafixerupper-4.1.27.jar
Downloading guava-31.0.1.jar
Testing subproject 'core'
test core:a ok
test core:b ok
2/2 Test ok
Testing subproject 'common'
test common:a ok
test common:b ok
test common:c ok
3/3 Tests ok
Tests SUCCESS
Build SUCCESS
Test & build finished
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*[new ref] 531b38e562
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test common:d ok
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Tests FAILURE
Build FAILURE
Test & build finished
duration: 10.52s
```

MATCH SELECTOR

CiDiff : Seed and extend

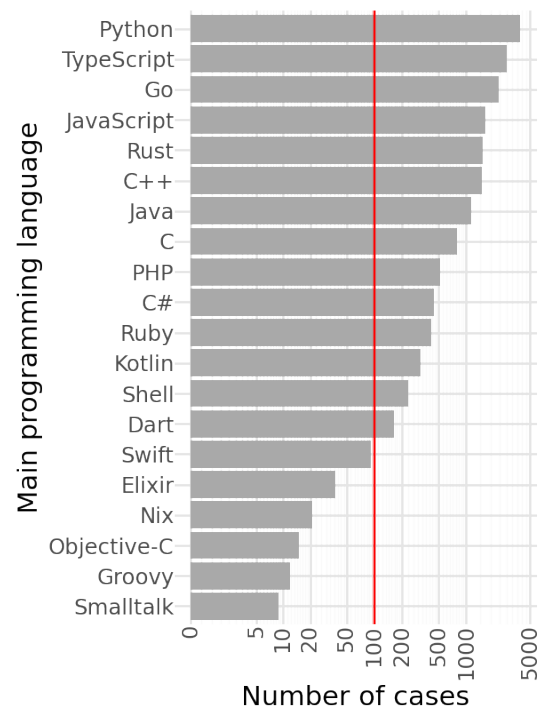
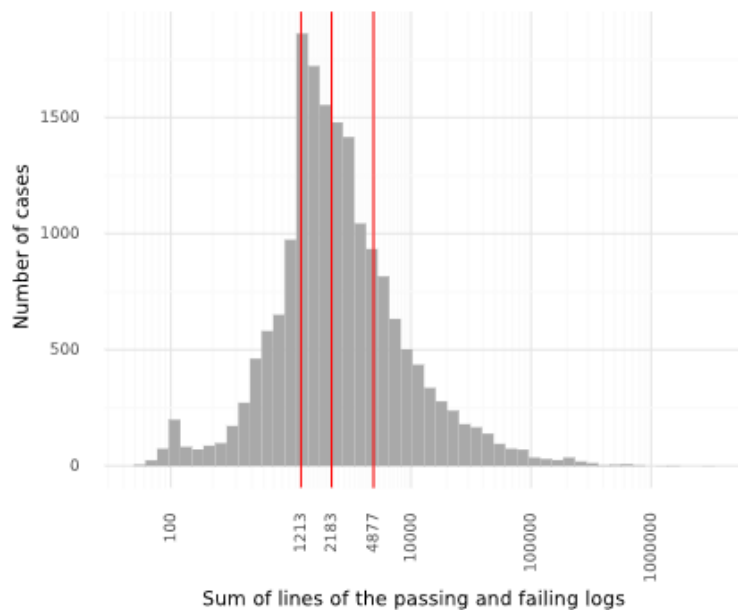
```
Fetching the repository
Remote: Counting object: 100% (312/312)
*[new ref] c1518c52f3
gradle build
Downloading datafixerupper-4.1.27.jar
Downloading guava-31.0.1.jar
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test core:a ok
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2/2 Test ok
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```

EVALUATION

THE DATASET

- 17906 pairs of success/failure logs
- 7955 repositories
- 20 main languages



Accuracy

Protocol:

- randomly choose 100 pairs of logs from the dataset
 - but only with a failure log $\leq$ 1000 lines
- on each log, select lines that provides any information that may be useful in analysing the error
- groundtruth: manually select lines corresponding to the protocol

Contestants:

- cidiff: selected lines are “added lines” from the diff
- diff: selected lines are “added lines” from the diff
- bigram: selected lines are bigrams present only in the failure log
- keyword: selected lines are lines matching a list of keywords

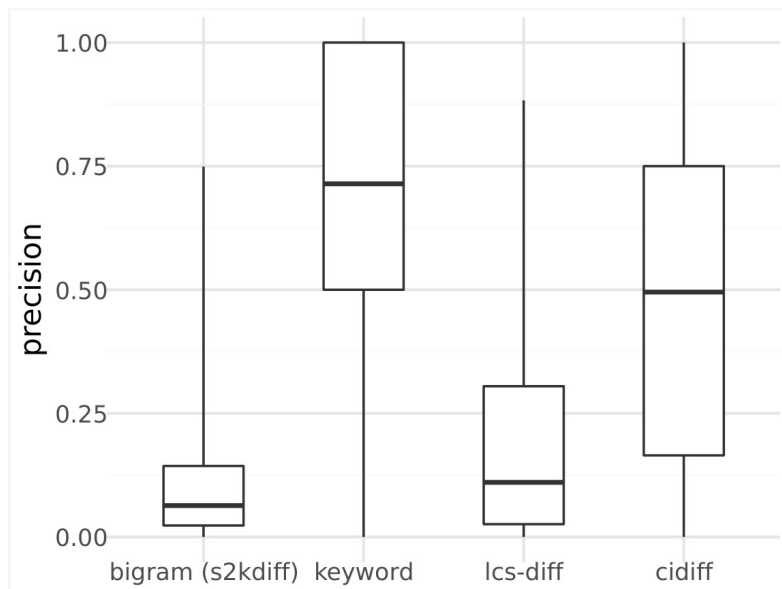
Results:

- precision: relevant selected lines / all selected lines
- recall: relevant selected lines / all relevant lines

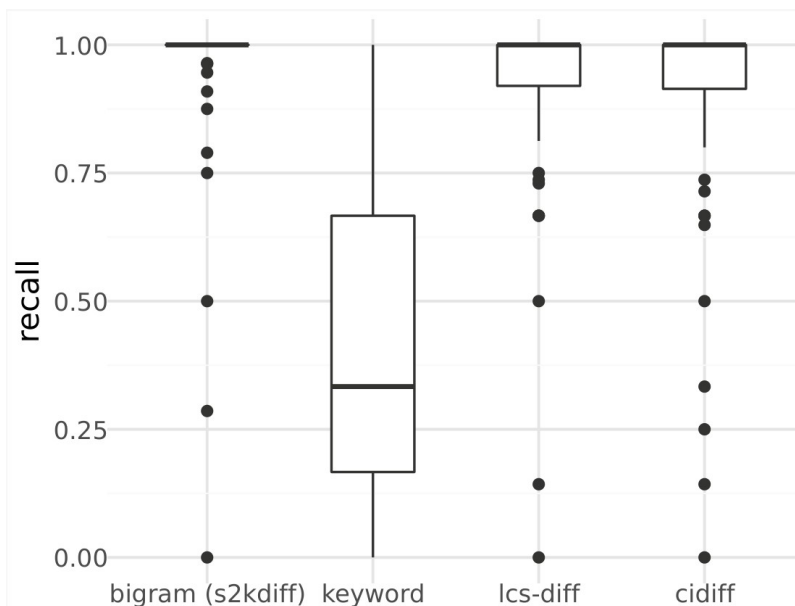
Accuracy

Contestants:

- cidiff: selected lines are “added lines” from the produced diff
- diff: selected lines are “added lines” from the produced diff
- bigram: selected lines are bigrams present only in the failure log
- keyword: selected lines are lines matching a list of keywords



⇒ cidiff has a better precision than diff

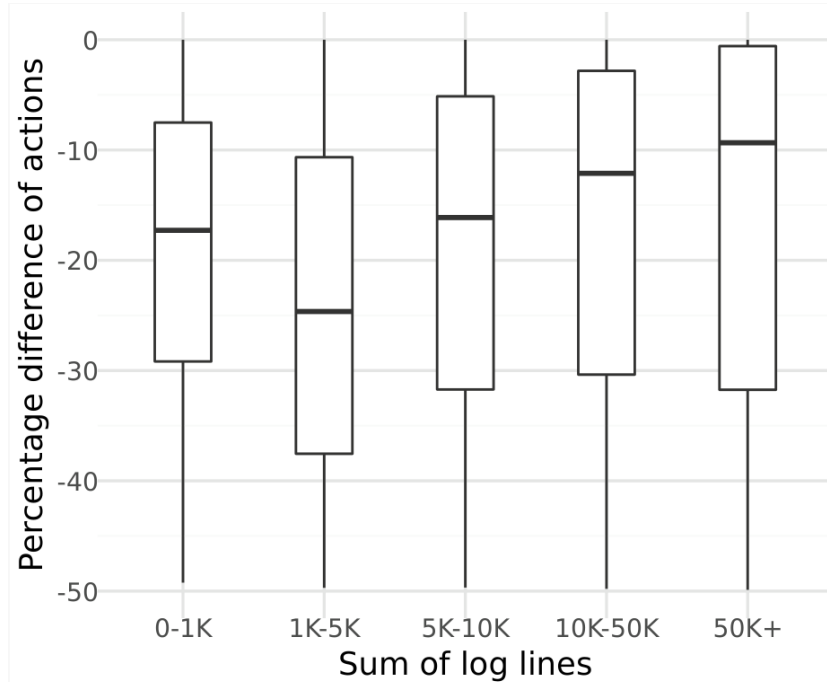


⇒ cidiff and diff have the same recall

Diff Size

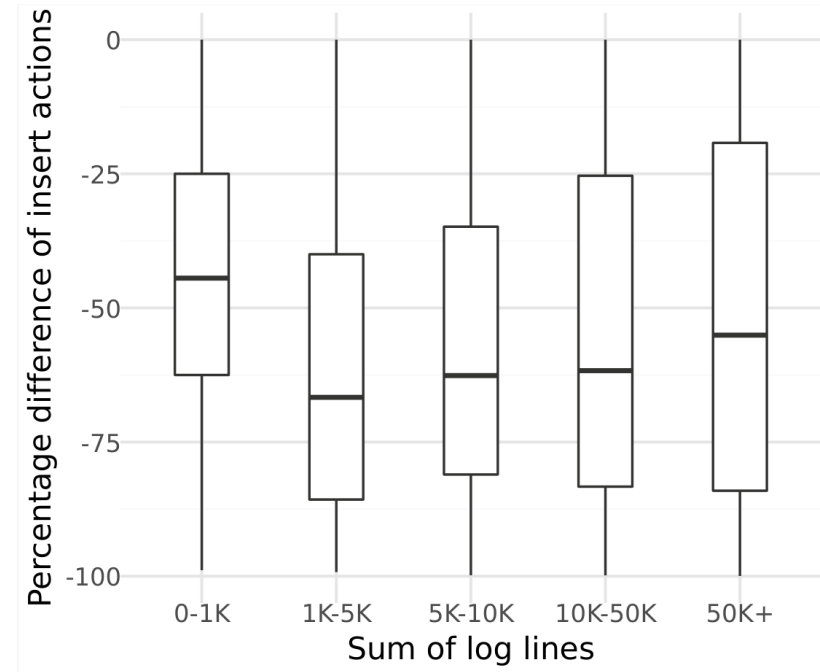
(cidiff against diff)

$$\text{percent_diff} = \frac{(\text{cidiff} - \text{diff})}{(\text{diff} + 1)}$$



Quantity of actions produced

⇒ 20% less actions

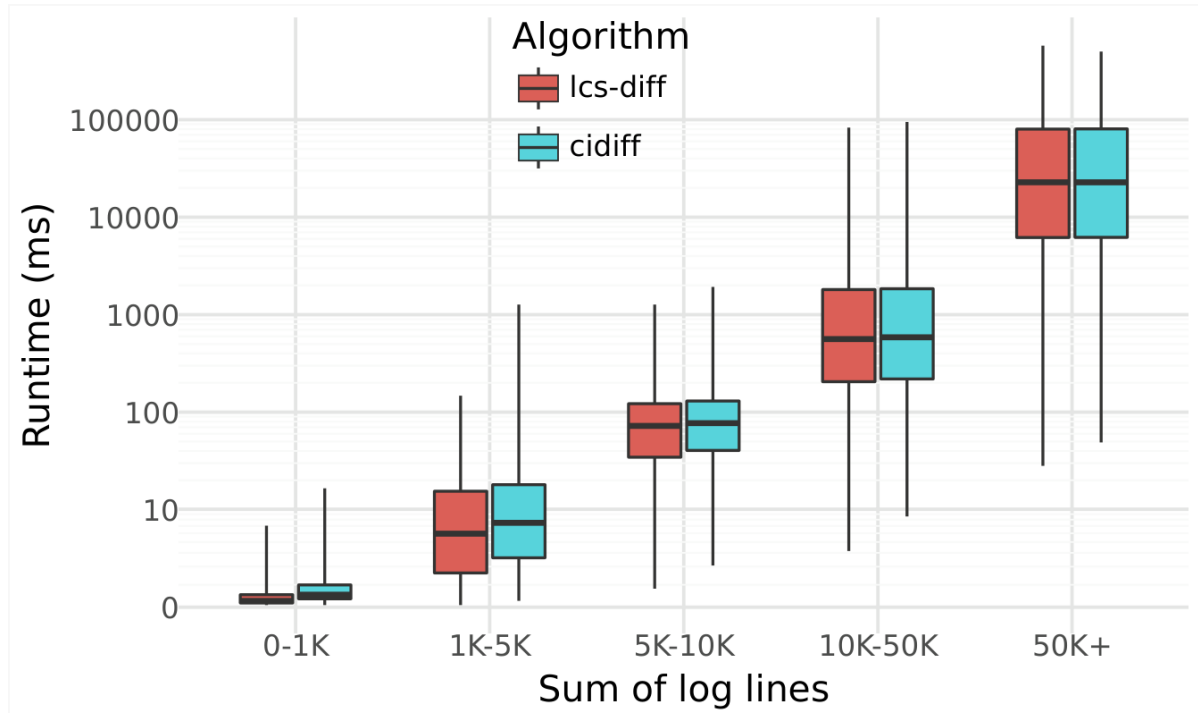
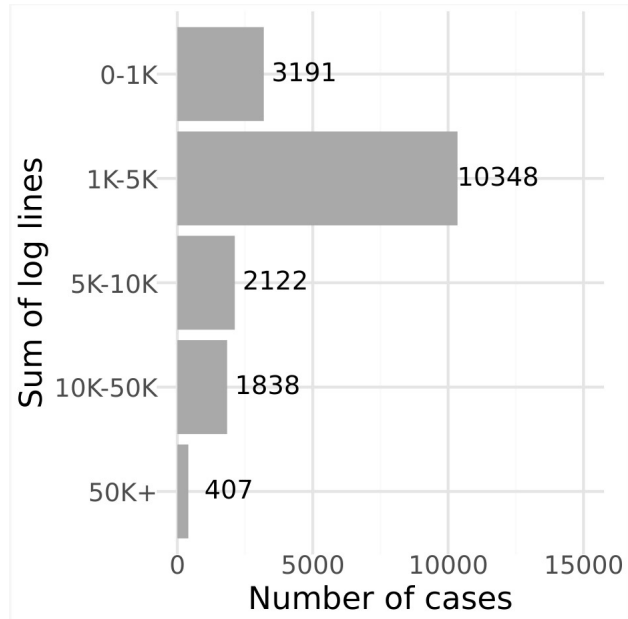


Quantity of “added” actions produced

⇒ 60% less “added” actions

Runtime

(cidiff against diff)



⇒ same runtime

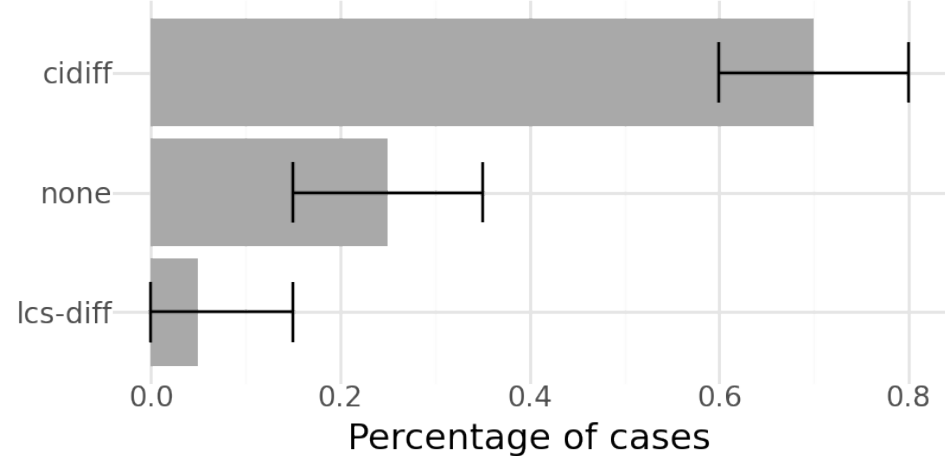
USER STUDY

Which diff is better to read ?
(cidiff, diff, or none)

- 9 participants

- 100 pairs of logs

ALPHA	BETA
1 Requested Labels: ubuntu-20.04	1 Requested Labels: ubuntu-20.04
2 Job defined at: bytedeco/javacpp-presets/.github/workflows/arpack-ng.yml@refs/heads/ci	2 Job defined at: bytedeco/javacpp-presets/.github/workflows/arpack-ng.yml@refs/heads/ci
3 Waiting for a runner to pick up this job...	3 Waiting for a runner to pick up this job...
4 > Job is waiting for a hosted runner to come online...	4 Job is waiting for a hosted runner to come online.
44 CI_DEPLOY_NEED_OCC: 1	5 Job is about to start running on the hosted runner: GitHub Actions 15 (hosted)
45 CI_DEPLOY_MODULE: arpack-ng	6 Current runner version: '2.311.0'
46 CI_DEPLOY_PLATFORM: linux-ppc64le	7 ##[group]Operating System
47 CI_DEPLOY_SETTINGS: ***	8 Ubuntu
48 CI_DEPLOY_USERNAME: ***	9 20.04.6
49 CI_DEPLOY_PASSWORD: ***	10 LTS
50 STAGING_REPOSITORY: ***	11 ##[endgroup]
51 ##[endgroup]	12 ##[group]Runner Image
52 ##[group]Run export SUDO=\$(which sudo)	13 Image: ubuntu-20.04
53 export SUDO=\$(which sudo)	14 Version: 20231030.2.0
54 > echo "SUDO=\$SUDO" >> \$GITHUB_ENV	15 Included Software: https://github.com/actions/runner-images/blob/ubuntu20/20231030.2/images/linux/Ubuntu20.04-lts-README.md
288 CI_DEPLOY_NEED_OCC: 1	16 Image Release: https://github.com/actions/runner-images/releases/tag/ubuntu20x2f20231030.2
289 CI_DEPLOY_MODULE: arpack-ng	17 ##[endgroup]
290 CI_DEPLOY_PLATFORM: linux-ppc64le	18 ##[group]Runner Image Provisioner
291 CI_DEPLOY_SETTINGS: ***	19 2.0.312.1
292 CI_DEPLOY_USERNAME: ***	20 ##[endgroup]
293 CI_DEPLOY_PASSWORD: ***	21 ##[group]GITHUB_TOKEN Permissions
294 STAGING_REPOSITORY: ***	22 Actions: write
295 GITHUB_EVENT_HEAD_COMMIT_MESSAGE: * Upgrade presets for HDF5 1.14.3, ARPACK-NG 3.9.1, LLVM 17.0.4, /	23 Checks: write
296 ##[endgroup]	24 Contents: write
297 DesiredUnknown/Install/Remove/Purge/Hold	25 Deployments: write
298 Status=Not/Inst/Conf-files/Unpacked/half-f/conf/Half-Inst/trig-aWait/Trig-pend	26 Discussions: write
299 > / Err?:(none)/Reinst-required (Status,Err: uppercase=bad)	27 Issues: write
527 11 gzip 1.10-0ubuntu4.1	28 Metadata: read
528 11 haveged 1.9.1-0ubuntu1	29 Packages: write
529 11 hdparm 9.58+ds-4	30 Pages: write
530 11 htop 2.2.0-2build1	31 PullRequests: write
531 11 hvm 4.172.1-1-focal	32 RepositoryProjects: write
532 11 hicolor-icon-theme 0.17-2	33 SecurityEvents: write
533 11 hostname 3.23	34 Statuses: write
534 > 11 htop 2.2.0-2build1	35 ##[endgroup]
535 11 kmod 27-1ubuntu2.1	36 Secret source: Actions
536 11 kpartx 0.8.3-1ubuntu2.1	37 Prepare workflow directory
537 11 krb5-locales 1.17-0ubuntu4.3	38 Prepare all required actions
538 11 kubectx 1.28.3-1.1	39 Getting action download info
539 11 landscape-common 19.12-0ubuntu4.3	40 Download action repository 'bytedeco/javacpp-presets@actions' (SHA:f01f40fd1c6a2295e6d61539ab4ac38a7c)
540 11 language-selector-common 0.204.2	41 Complete job name: linux-ppc64le
541 11 less 551-1ubuntu0.1	42 ##[group]Run bytedeco/javacpp-presets/.github/actions/deploy-ubuntu@actions
542 > 11 lib32gcc-s1 10.5.0-1ubuntu1-20.04	43 env:
1058 11 libnettle7:amd64 3.5.1-really3.5.1-2ubuntu0.2	44 CI_DEPLOY_NEED_OCC: 1
1059 11 libnettle7:amd64 3.5.1-2ubuntu0.2	45 CI_DEPLOY_MODULE: arpack-ng



⇒ cidiff is preferred

```

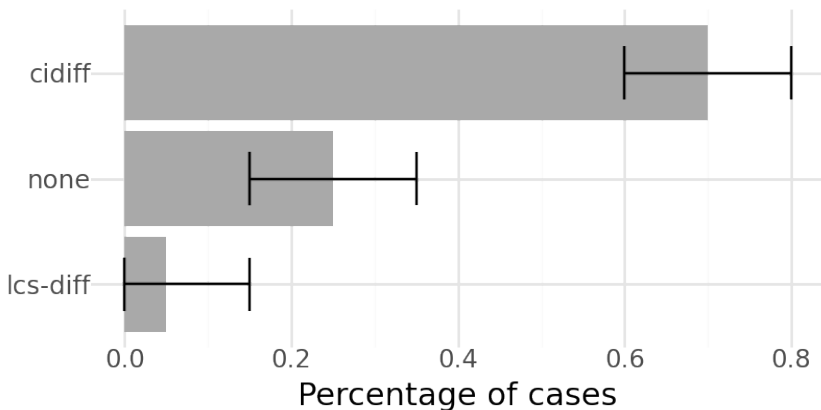
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test common:a ok
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test common:c ok
3/3 Tests ok
Tests SUCCESS
Build SUCCESS
Test & build finished
duration: 8.66s

```

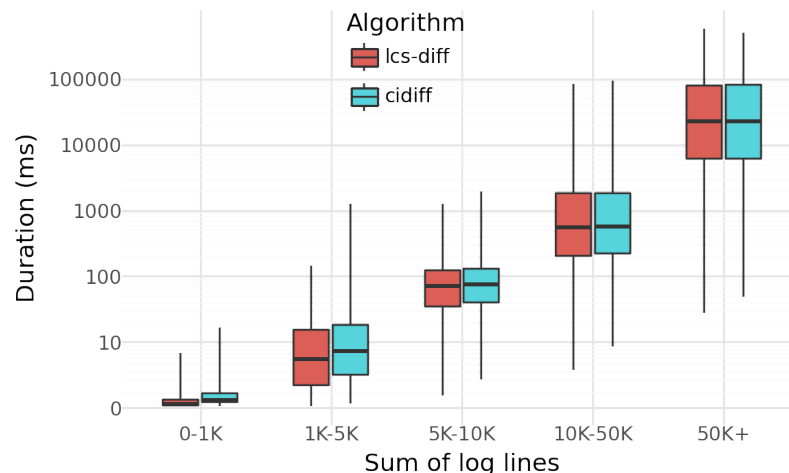
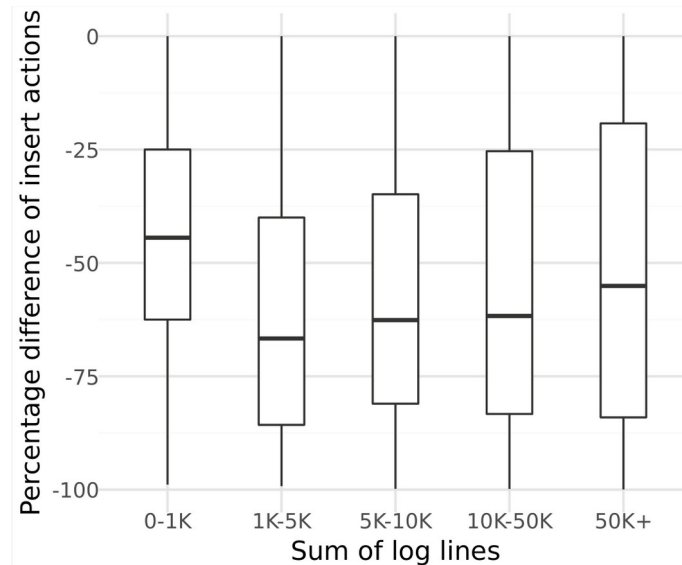
```

Fetching the repository
Remote: Counting object: 50% (159/312)
Remote: Counting object: 100% (318/318)
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test common:a ok
test common:b ok
test common:c ok
test common:d ok
4/4 Tests ok
Tests FAILURE
Build FAILURE
Test & build finished
duration: 10.52s

```



THANKS



WHAT HAPPENED IN THIS PIPELINE? DIFFING BUILD LOGS WITH CIDIFF

Nicolas Hubner, Jean-Rémy Falleri, Raluca Uricaru, Thomas Degueule, Thomas Durieux

Lines similarity:

```
if amount of token is different then
    line similarity = 0
else if no static token then
    line similarity = 0
else
    average the token similarities
```

Token similarity:

```
identical  $\Rightarrow$  1
same length  $\Rightarrow$  0.5
trigram > threshold  $\Rightarrow$  0.5
none of the above  $\Rightarrow$  0
```

Accuracy

