

3/21 - 4/10

TEAM: GIT CONFUSED SPRINT 5

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USER STORIES

- 1) As a developer, I need to implement the printing of Strings because customers of a JVM expect to be able to print "Hello world!".
- 2) As a developer, I need to be able to read in integers so that customers can make simple calculator programs.




STORY POINTS

Complete:

- Implementing invokevirtual (8)
- Refactoring (10)
- Implement overflow (2)
- Jasmin test files (3)

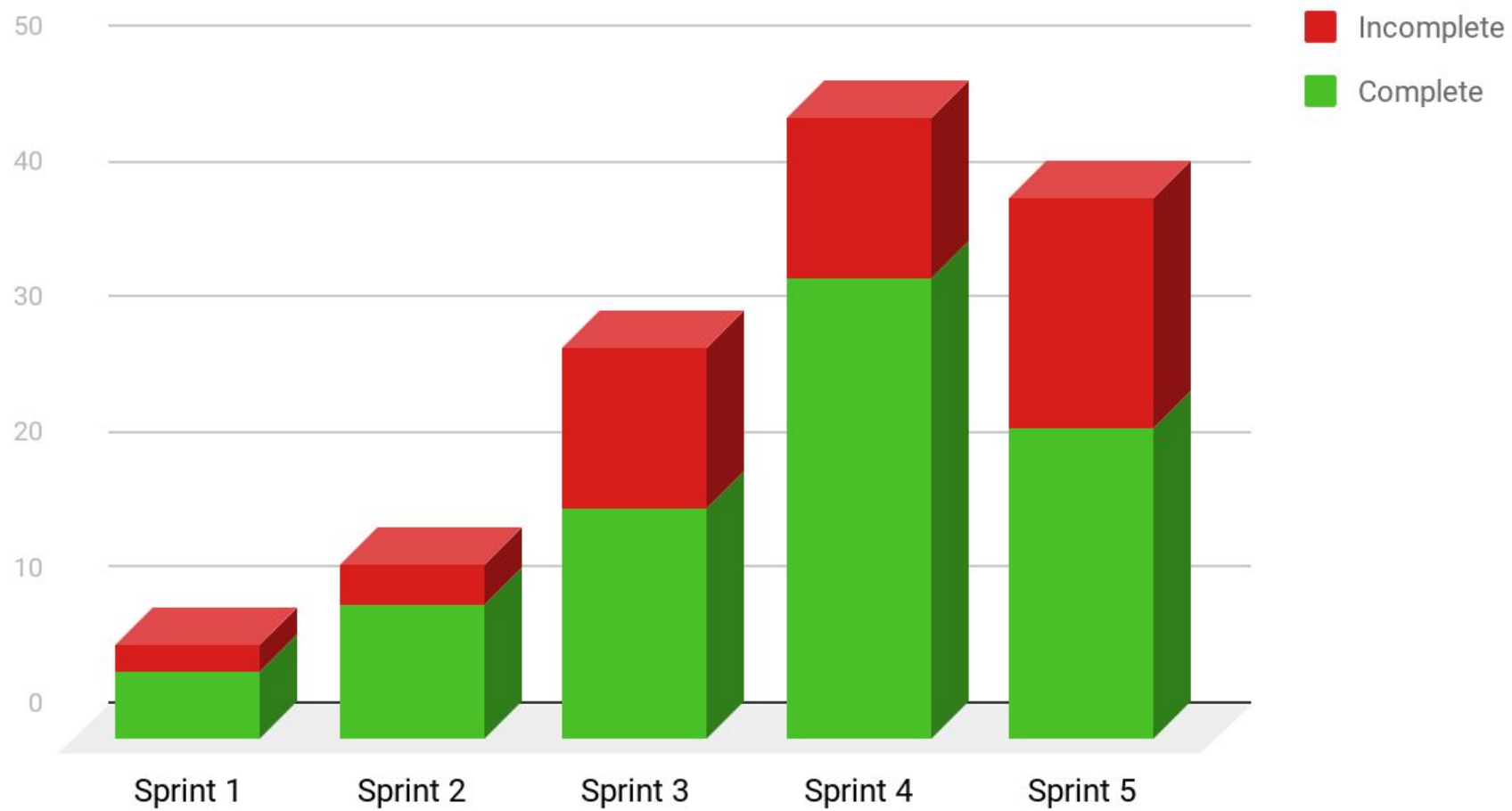
Incomplete:

- Make tests for refactored code (7)
 - Merge refactored code (1)
 - invokespecial (printing character strings) (9)
- 

The image features a dark gray background with a subtle gradient. In the four corners, there are decorative elements resembling circuit board traces or neural network connections. These elements consist of thin, light blue lines that branch out and terminate in small circles, creating a symmetrical, geometric pattern around the central text.

DEMONSTRATION OF A RUNNING PROGRAM

Velocity (17) prev. (16)



The image features a dark gray background with stylized, light blue circuit-like lines in the corners. These lines consist of straight segments and small circles, resembling a printed circuit board or a network diagram. The lines are positioned in the top-left, top-right, bottom-left, and bottom-right corners, framing the central text.

SYSTEM DEVELOPMENT LIFE CYCLE STATISTICS

SDLC STATISTICS

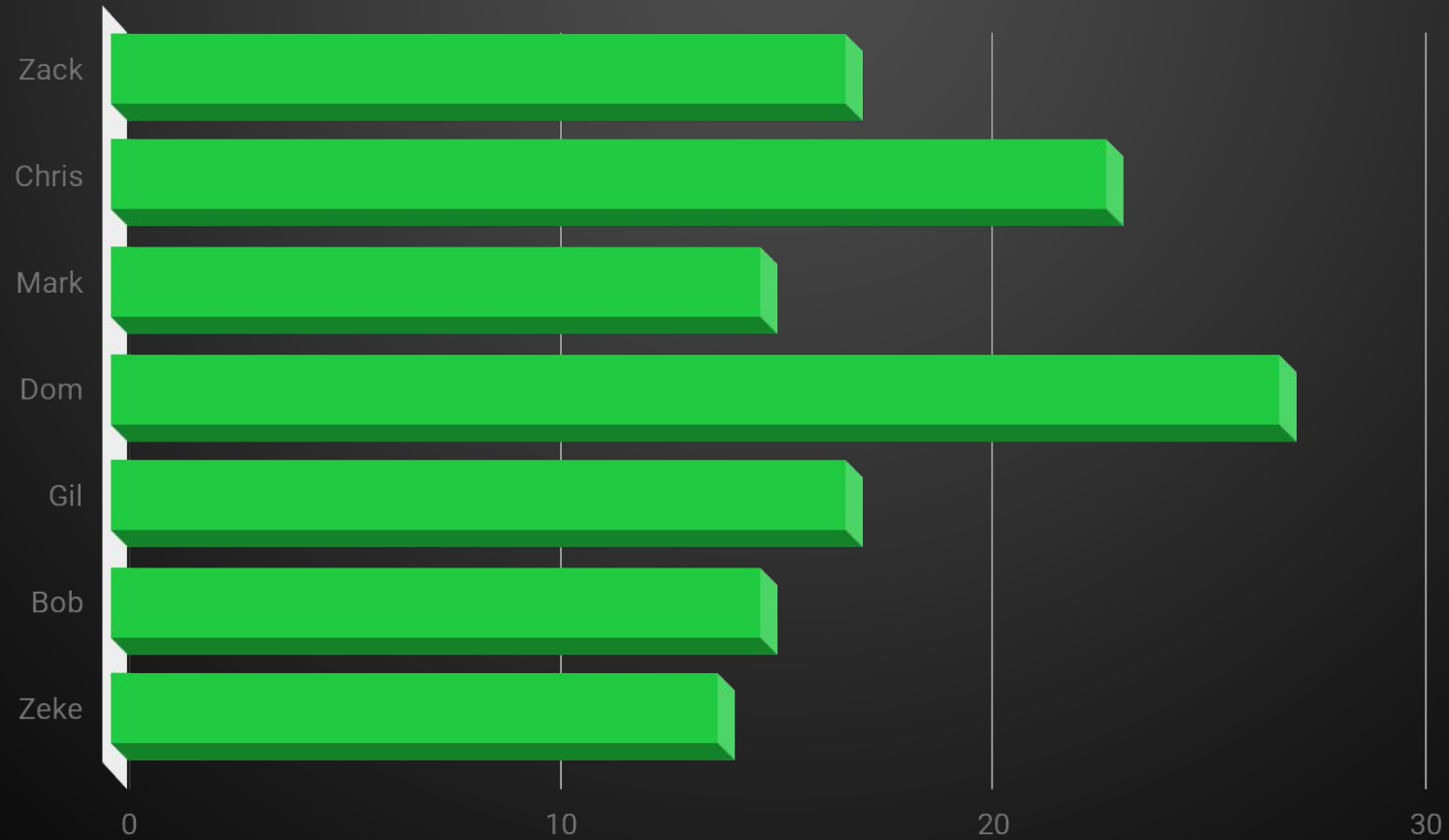
Sprint Backlog

- More opcode methods (new, getstatic, ldc, aload_0, aload_1)
- Break up larger classes

Project Backlog

- Opcode methods (istore[x], iload[x], ireturn, iastore, bipush, iaload)
- Write tests for refactored code
- Merge refactored code

Team Hours



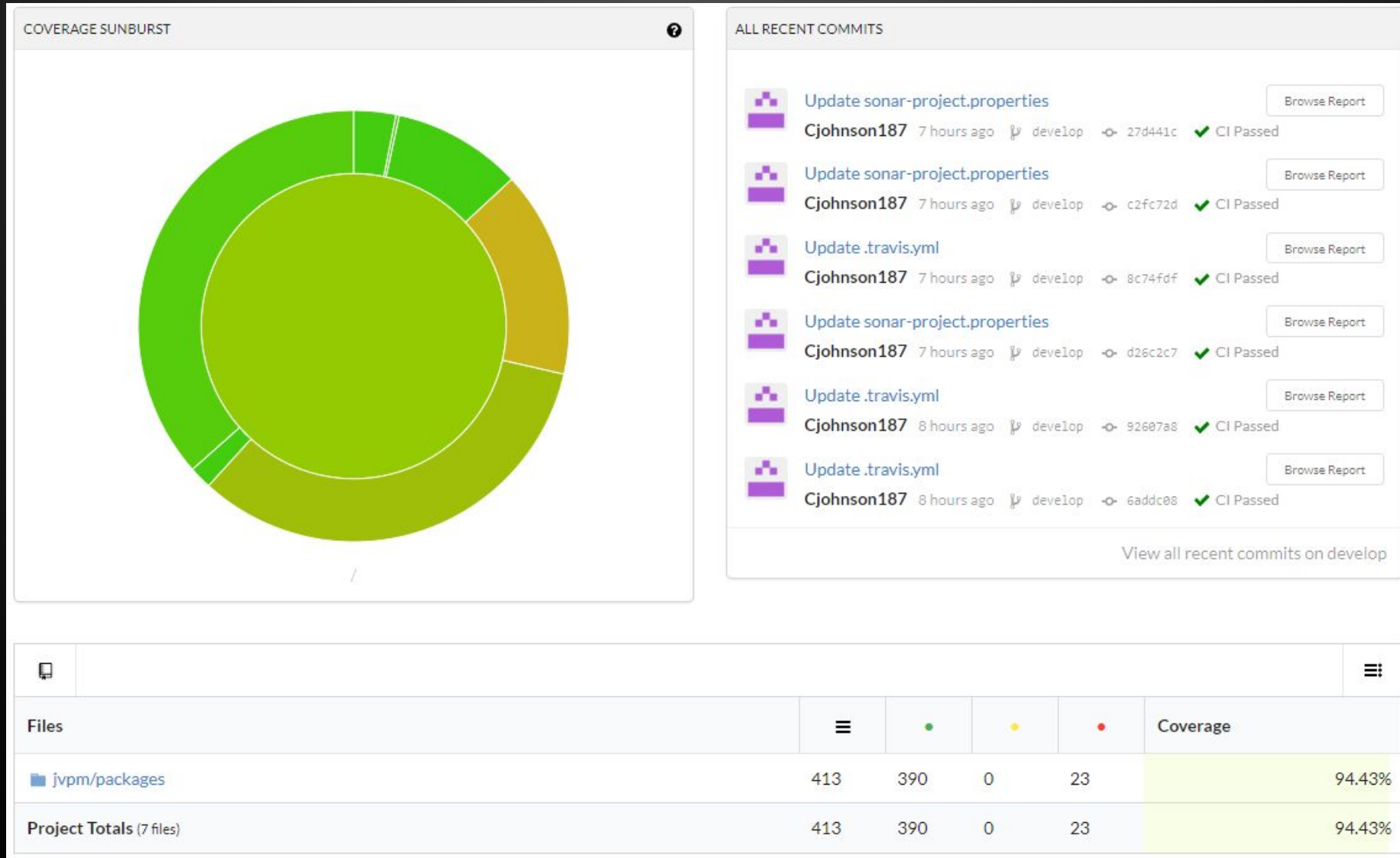
CODE STATISTICS (travis)

```
▶ 1 Worker information worker_info
▶ 6 Build system information system_info

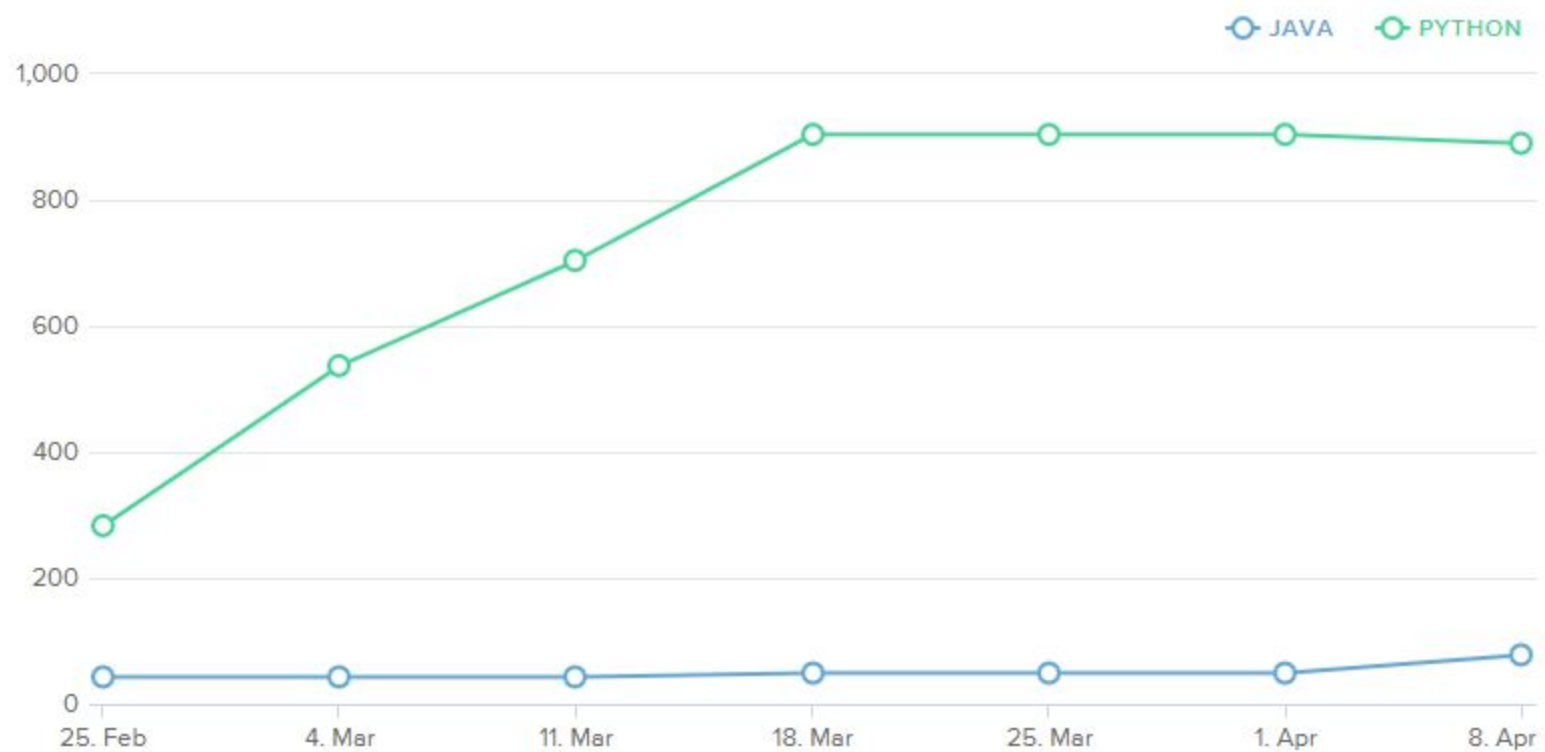
413
414
▶ 415 $ git clone --depth=50 --branch=develop https://github.com/git-confused- git.checkout 1.34s
419
420
421 Setting environment variables from repository settings
422 $ export SONAR_TOKEN=[secure]
423 $ export token=[secure]
424 $ export newToken=[secure]
425
426 $ source ~/.virtualenv/python3.6/bin/activate 0.01s
427 $ python --version
428 Python 3.6.3
429 $ pip --version
430 pip 9.0.1 from /home/travis/virtualenv/python3.6.3/lib/python3.6/site-packages (python 3.6)
▶ 431 $ pip install codecov install.1 2.96s
▶ 448 $ pip install numpy install.2 0.54s
▶ 450 $ pip install coverage install.3 0.55s
▶ 452 SonarCloud addon sonarcloud.addon
475 $ coverage run --omit=*test* -m unittest 0.70s
476 .....
477 -----
478 Ran 44 tests in 0.014s
479
480 OK
481 The command "coverage run --omit=*test* -m unittest" exited with 0.
482
483 $ coverage xml -i 3.00s
484 The command "coverage xml -i" exited with 0.
485
486 $ sonar-scanner 66.80s
634
635 Done. Your build exited with 0.
```

Top ▲

CodeCov (static)



Lines of code (LOC)



April 3, 2019 – April 10, 2019

Period: 1 week ▾

Overview

2 Active Pull Requests

0 Active Issues

2

Merged Pull Requests

0

Proposed Pull Requests

0

Closed Issues

0

New Issues

Excluding merges, **6 authors** have pushed **779 commits** to develop and **826 commits** to all branches. On develop, **45 files** have changed and there have been **1,473 additions** and **1,535 deletions**.



2 Pull requests merged by 2 people

Radon (complexity)

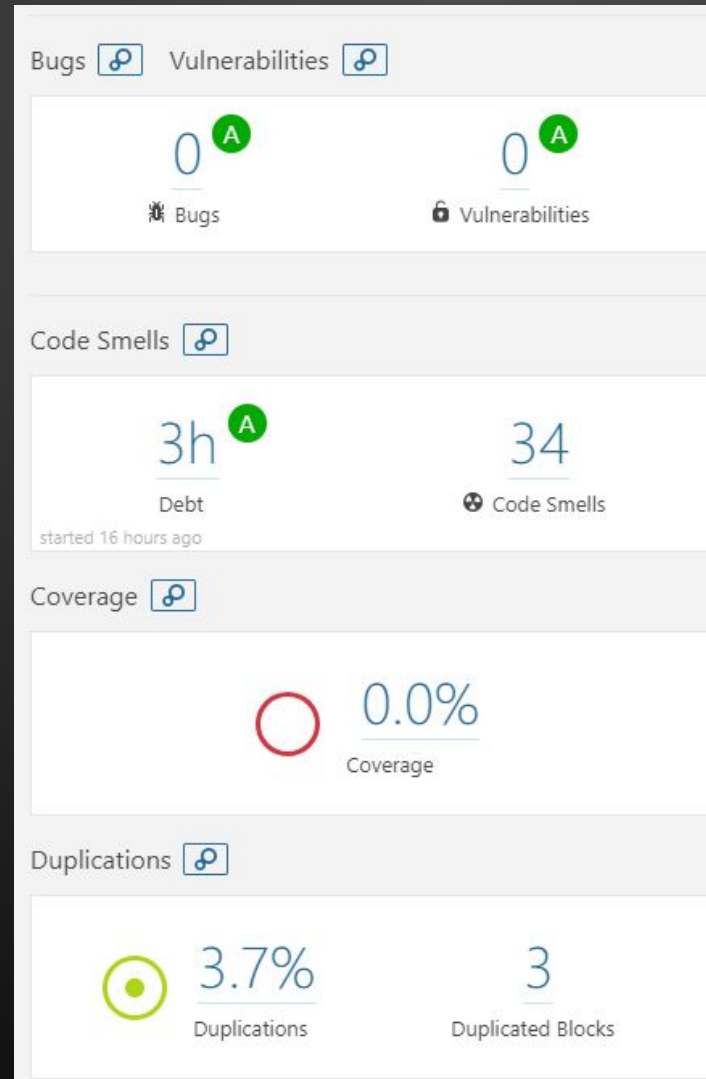
```
$ radon cc jvpm/packages/jvpm_methods.py
jvpm/packages/jvpm_methods.py
C 14:0 OpCodeMethods - A
M 203:4 OpCodeMethods.iushr - A
M 16:4 OpCodeMethods.__init__ - A
M 19:4 OpCodeMethods.aload_0 - A
M 24:4 OpCodeMethods.aload_1 - A
M 28:4 OpCodeMethods.astore_1 - A
M 33:4 OpCodeMethods.dup - A
M 39:4 OpCodeMethods.iadd - A
M 47:4 OpCodeMethods.invokevirtual - A
M 54:4 OpCodeMethods.next_int - A
M 59:4 OpCodeMethods.get_operation - A
M 63:4 OpCodeMethods.println - A
M 67:4 OpCodeMethods.iand - A
M 73:4 OpCodeMethods.iconst_m1 - A
M 77:4 OpCodeMethods.iconst_0 - A
M 81:4 OpCodeMethods.iconst_1 - A
M 85:4 OpCodeMethods.iconst_2 - A
M 89:4 OpCodeMethods.iconst_3 - A
M 93:4 OpCodeMethods.iconst_4 - A
M 97:4 OpCodeMethods.iconst_5 - A
M 101:4 OpCodeMethods.idiv - A
M 108:4 OpCodeMethods.iinc - A
M 112:4 OpCodeMethods.iload_0 - A
M 117:4 OpCodeMethods.iload_1 - A
M 123:4 OpCodeMethods.iload_2 - A
M 129:4 OpCodeMethods.iload_3 - A
M 135:4 OpCodeMethods.imul - A
M 144:4 OpCodeMethods.ineg - A
M 149:4 OpCodeMethods.ior - A
M 155:4 OpCodeMethods.irem - A
M 161:4 OpCodeMethods.ishl - A
M 167:4 OpCodeMethods.ishr - A
M 173:4 OpCodeMethods.istore_0 - A
M 179:4 OpCodeMethods.istore_1 - A
M 184:4 OpCodeMethods.istore_2 - A
M 189:4 OpCodeMethods.istore_3 - A
M 194:4 OpCodeMethods.isub - A
M 212:4 OpCodeMethods.ixor - A
M 218:4 OpCodeMethods.i2b - A
M 223:4 OpCodeMethods.i2c - A
M 228:4 OpCodeMethods.i2f - A
M 233:4 OpCodeMethods.i2l - A
M 238:4 OpCodeMethods.i2s - A
M 243:4 OpCodeMethods.i2d - A
M 300:4 OpCodeMethods.token_dict - A
```

```
$ radon cc jvpm/packages/jvpm_opcodes.py
jvpm/packages/jvpm_opcodes.py
M 52:4 HeaderComponent.get_const_pool - C
C 12:0 HeaderComponent - A
C 171:0 OpCodes - A
M 20:4 HeaderComponent.get_magic - A
M 188:4 OpCodes.dict_search - A
M 14:4 HeaderComponent.__init__ - A
M 29:4 HeaderComponent.get_minor - A
M 34:4 HeaderComponent.get_major - A
M 39:4 HeaderComponent.get_const_pool_count - A
M 175:4 OpCodes.__init__ - A
```

```
$ radon cc jvpm/packages/pool_methods.py
jvpm/packages/pool_methods.py
C 5:0 TagTranslate - A
M 7:4 TagTranslate.UTF_8_string - A
M 10:4 TagTranslate.integer - A
M 13:4 TagTranslate.float - A
M 16:4 TagTranslate.long - A
M 19:4 TagTranslate.double - A
M 22:4 TagTranslate.class_reference - A
M 25:4 TagTranslate.string_reference - A
M 28:4 TagTranslate.field_reference - A
M 31:4 TagTranslate.method_reference - A
M 34:4 TagTranslate.interface_method_reference - A
M 37:4 TagTranslate.name_and_type_descriptor - A
M 40:4 TagTranslate.method_handle - A
M 43:4 TagTranslate.method_type - A
M 46:4 TagTranslate.dynamic - A
M 49:4 TagTranslate.invoke_dynamic - A
M 52:4 TagTranslate.module - A
M 55:4 TagTranslate.package - A
M 84:4 TagTranslate.token_dict - A
```

```
$ radon cc jvpm/packages/pool_translate.py
jvpm/packages/pool_translate.py
M 184:4 PoolTranslate.method_dict - A
M 84:4 PoolTranslate.method_reference - A
M 114:4 PoolTranslate.name_and_type_descriptor - A
M 213:4 PoolTranslate.translate - A
C 9:0 PoolTranslate - A
M 11:4 PoolTranslate.__init__ - A
M 34:4 PoolTranslate.UTF_8_string - A
M 53:4 PoolTranslate.integer - A
M 57:4 PoolTranslate.float - A
M 60:4 PoolTranslate.long - A
M 63:4 PoolTranslate.double - A
M 66:4 PoolTranslate.class_reference - A
M 77:4 PoolTranslate.string_reference - A
M 81:4 PoolTranslate.field_reference - A
M 111:4 PoolTranslate.interface_method_reference - A
M 140:4 PoolTranslate.method_handle - A
M 143:4 PoolTranslate.method_type - A
M 146:4 PoolTranslate.dynamic - A
M 149:4 PoolTranslate.invoke_dynamic - A
M 152:4 PoolTranslate.module - A
M 155:4 PoolTranslate.package - A
```

SonarCloud (dynamic)



Sprint Retrospective Last Sprint

WHAT WENT POORLY

- Took us a while to figure out the tasks.
- Couple people did most of the coding.
- Breaking tasks down in a more efficient manner.

WHAT ARE WE GOING TO START/STOP/CONTINUE DOING

- More discipline trying to plan more efficiently.
- Break down the User Stories more evenly based on work needed to complete.
- Split workload more evenly between the Dev team.
- Implement TDD.
- Continue our bi-weekly meetups.

Sprint Retrospective

WHAT WENT WELL

- Assigning tasks at the beginning of the sprint and making sure everyone had an assignment they were comfortable with
- Sharing what we learned with each other and coordinating and working on tasks together
- Continued to have regular meetings

WHAT WENT POORLY

- Refactoring was a little uncoordinated
- Overlap of functionality
- Created too many backlog items in addition to product backlog and user stories
- Spent more time on “side tasks” than the main sprint objectives
- Still have a lot of items on the backlog

WHAT ARE WE GOING TO START/STOP/CONTINUE DOING

- Start: Implement TDD
- Start: Prioritize sprint backlog over product backlog
- Stop: Overlapping code
- Continue: our bi-weekly meetups
- Continue: Evenly distribute workload

The image features a dark gray background with the text "Thank You" centered in a white serif font. The corners of the image are decorated with light blue circuit-like patterns. These patterns consist of thin lines that branch out and terminate in small circles, resembling a stylized representation of electronic circuitry or neural network connections. The patterns are located in the top-left, top-right, bottom-left, and bottom-right corners.

Thank You