3/06 - 3/20

TEAM: GIT CONFUSED SPRINT 4

PRODUCT OWNER – DOMINICK LICCIARDI

SCRUM MASTER – ROBERT KUPFNER

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DEV TEAM – MARC INOUYE

DEV TEAM – ZAKHADDIN KHALIDOV

DEV TEAM – EZEQUIEL LOPEZ HERNANDEZ

DEV TEAM – CHRIS JOHNSON

USER STORIES

- 1) In order to understand the call to the virtual method, I need to decode the constant pool.
- 2) As a developer, when println is called with an integer, I need to echo the int to the screen because this is the expected behavior.
- 3) As a developer, I need to implement the remaining integer opcodes.

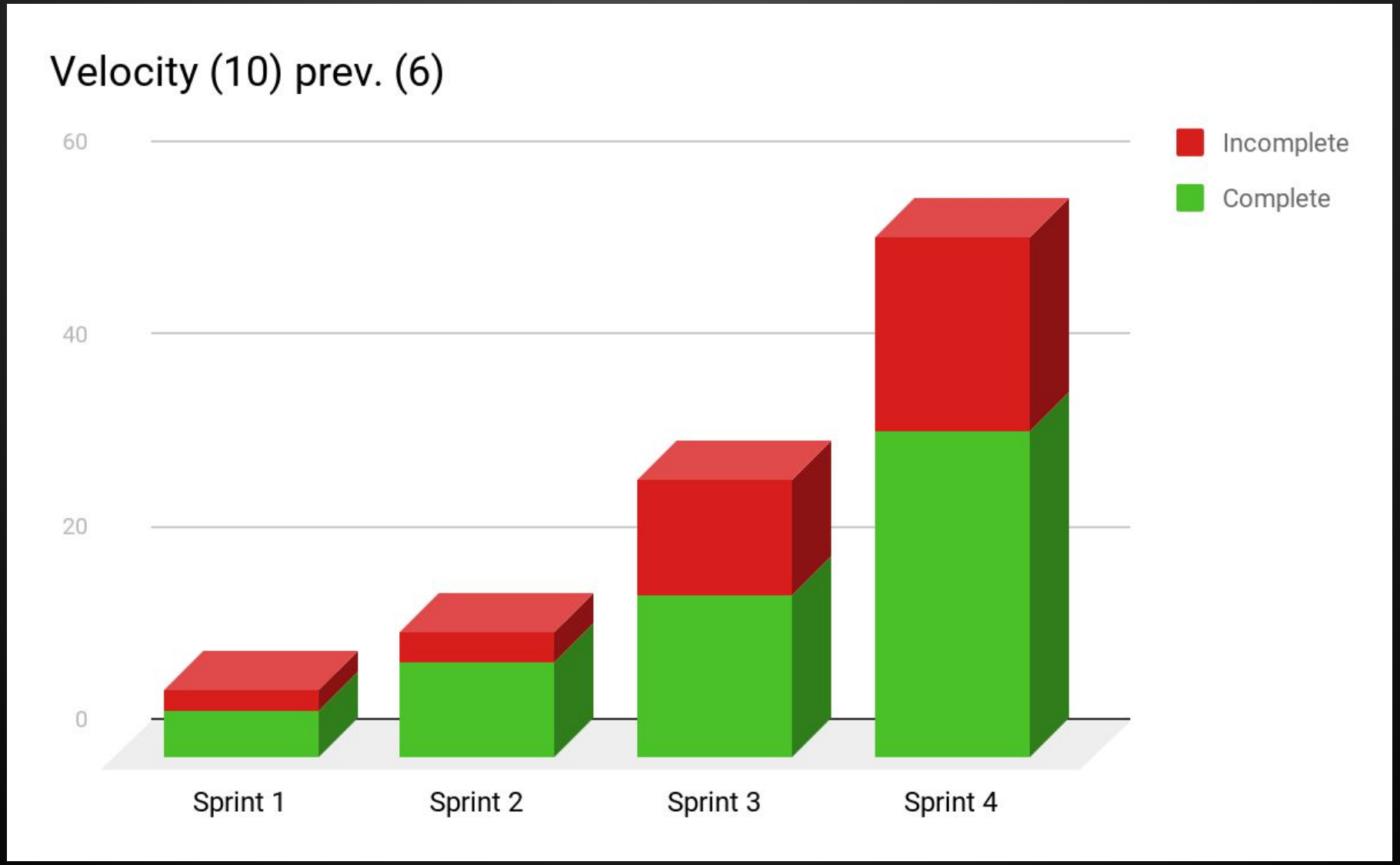
STORY POINTS

- Create a method to retrieve the CP. (10)
- Move the working get_const_pool() method to our dev branch, and make sure it still works. (2)
- Read in the CP and save to a list/tuple. (5)
- Create a dictionary to store the CP flags and create methods to populate a new list with the decoded CP. (8)
- If the CP flag is a string, translate. (6)
- Create simple Java files to test integer operations. (2)
- Code coverage over 90%. (1)

Incomplete:

- Implement invokevirtual and bipush. (8)
- Pull .class method bytes properly. (8)
- Clean up Constant Pool method. (1)
- Jasmin test file implementation. (3)

DEMONSTRATION OF A RUNNING PROGRAM


Velocity (10) prev. (6)
60
40
20
0
Incomplete
Complete
Sprint 1
Sprint 2
Sprint 3
Sprint 4

SYSTEM DEVELOPMENT LIFE CYCLE STATISTICS

SDLC STATISTICS

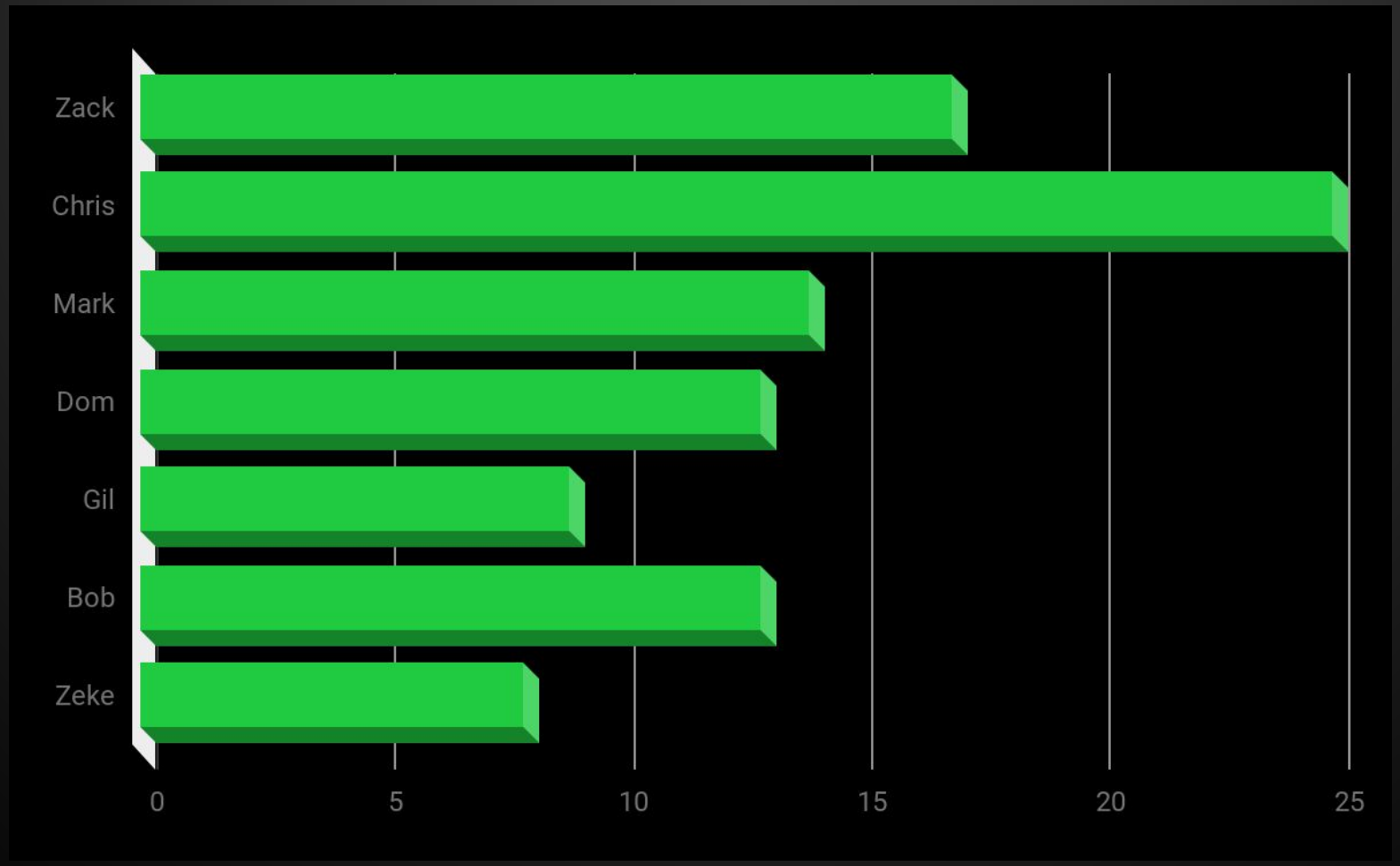
Sprint Backlog (12)

- Implement InvokeVirtual and Bipush. (8)
- Clean up Constant Pool Method (1)
- Jasmin test file (3)

Project Backlog (11)

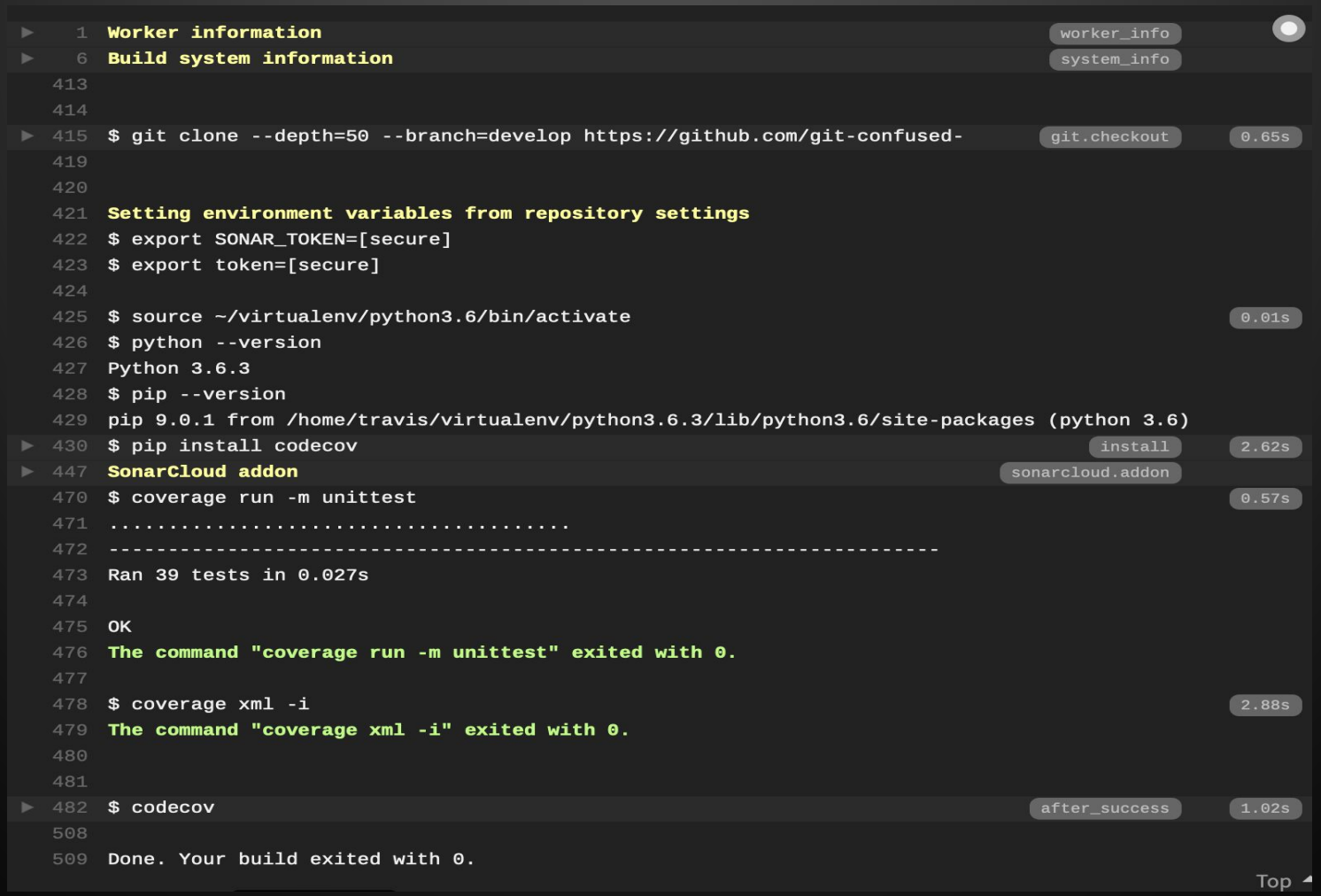
- Write the remaining Opcode methods.
- Pull Method Opcodes from .class file correctly.

Team Hours



*additional 8 hrs each for 2hr Mon & Wed team meetings.

CODE STATISTICS

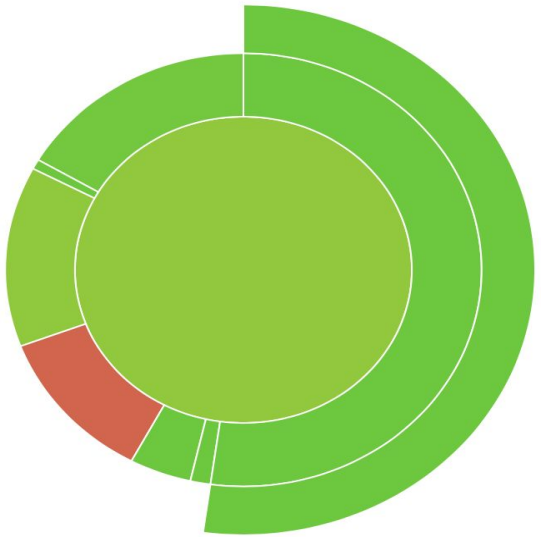


CodeClimate (static)

https://codeclimate.com/github/git-confused-team3/GitConfused

CodeCov (static)

COVERAGE SUNBURST



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ALL RECENT COMMITS

test working finally — Browse Report
Cjohnson187 19 hours ago develop 0fb8128 CI Passed

Add files via upload — Browse Report
Cjohnson187 a day ago develop 9ccf8d0 CI Passed

commented out a method taht is not used — Browse Report
Cjohnson187 a day ago develop 62a50ba CI Passed

Unable to find commit in GitHub — Browse Report
Unknown a day ago develop 50442dd

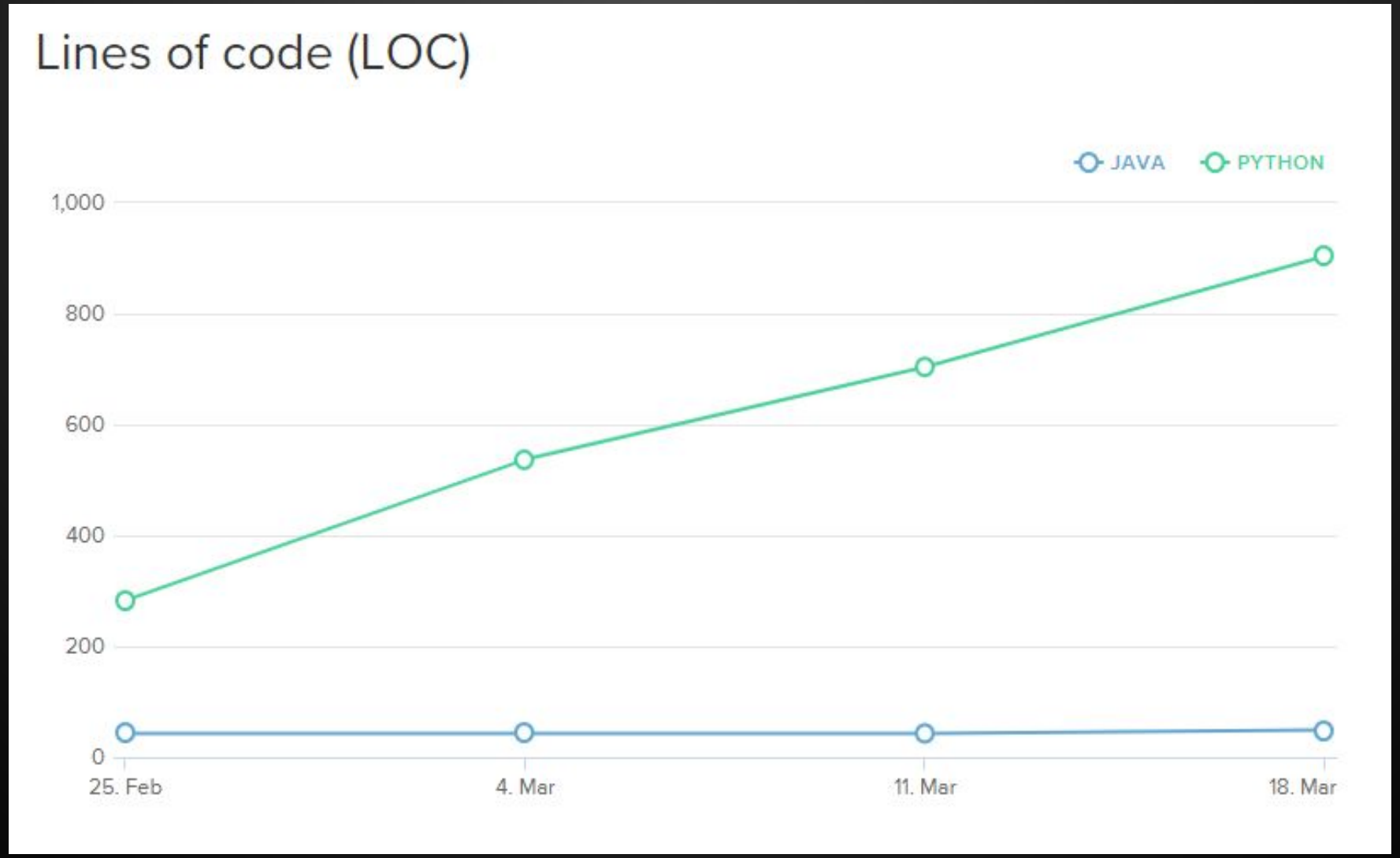
added test for pool methods that is actually a string translator the names are backwards i guess... — Browse Report
Cjohnson187 a day ago develop 96caf2a CI Passed

test working for dictionary — Browse Report
Cjohnson187 a day ago develop abe1499 CI Passed

View all recent commits on develop

Files					Coverage
jvpm	950	909	0	41	95.68%
Project Totals (7 files)		909	0	41	95.68%

Screenshot


Lines of code (LOC)
JAVA
PYTHON
1,000
800
600
400
200
0
25. Feb
4. Mar
11. Mar
18. Mar

March 11, 2019 – March 18, 2019

Period: **1 week**

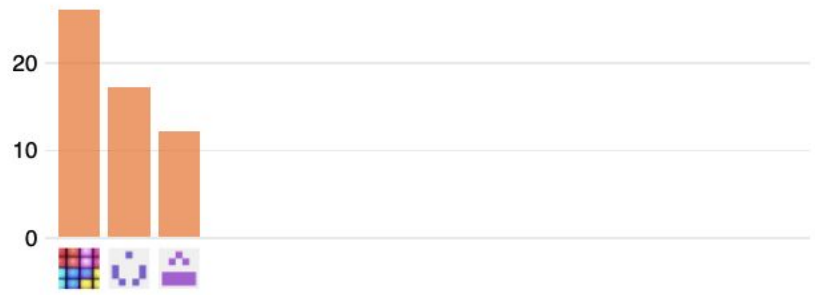
Overview

4 Active Pull Requests

0 Active Issues

4 Merged Pull Requests	**0** Proposed Pull Requests	**0** Closed Issues	**0** New Issues

Excluding merges, **3 authors** have pushed **47 commits** to develop and **55 commits** to all branches. On develop, **9 files** have changed and there have been **840 additions** and **60 deletions**.



Sprint Retrospective

WHAT WENT WELL

- Many of the conversion methods were built in to python.
- Meeting with Luke was extremely helpful with reading the CP.
- Even though we had a blizzard we were able to come together and progress the project.
- Following SCRUM roles.
- Taking a few days to come with the plan instead of coding blindly right away.

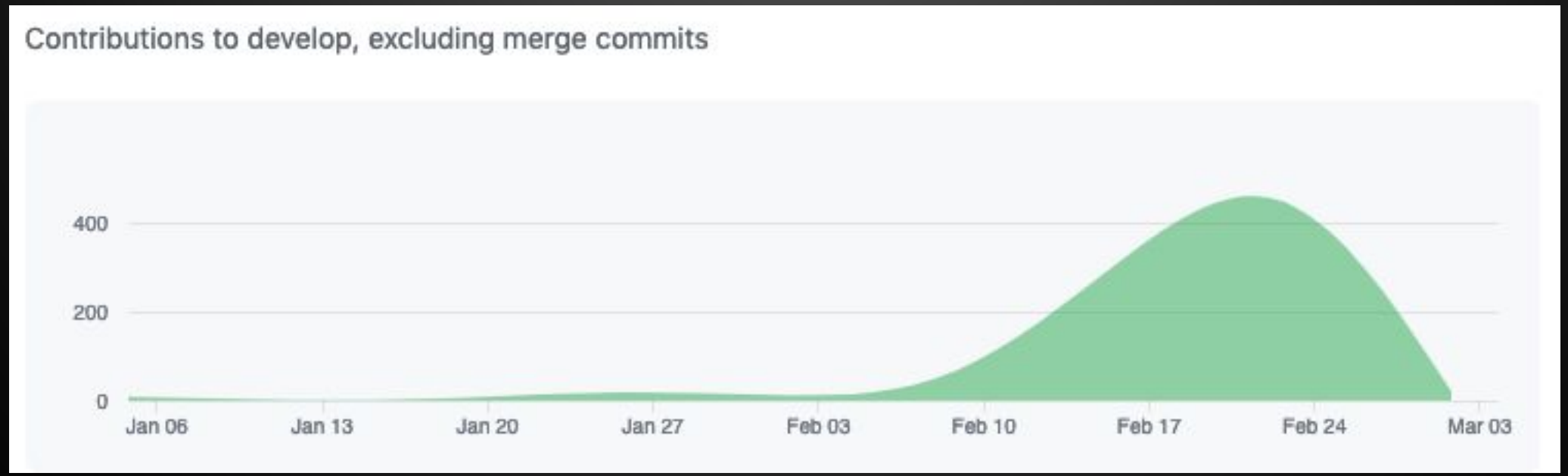
WHAT WENT POORLY

- 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.

Team Contributions



```python
class test_stack(unittest.TestCase):
    def test_is_empty(self):
        s = Stack()
        s.push(1)
        s.pop()
        self.assertTrue(s.is_empty())

    def test_push(self):
        s = Stack()
        s.push(2)
        s.push(3)
        v = s.pop()
        self.assertEqual(v, 3)

    def test_pop(self):
        s = Stack()
        s.push(3)
        s.push(2)
        s.push(4)
        s.push(0)
        a = s.pop()
        b = s.pop()

        self.assertEqual(a, 0)
        self.assertEqual(b, 4)

    def test_peek(self):
        s = Stack()
        s.push("hello")
        s.push("hi")
        self.assertEqual(s.peek(),"hi")
        s.pop()
```

```python
class UnittestHeader(unittest.TestCase):


    def setUp(self):
        m = mock_open(read_data='CAFEBABE00000036000F')
        with patch(__name__ + '.open', m):
            self.cf = jvpm_opcodes.HeaderClass()

    def test_magic(self):
        self.assertEqual(self.cf.get_magic(), 'CAFEBABE')
        self.assertEqual(self.cf.get_minor(), 0)
        self.assertTrue(53 <= self.cf.get_major() <= 55)
        self.assertEqual(self.cf.get_const_pool_count(), 15)
```

```python
class Test_Op_Methods(unittest.TestCase):

    def test_iadd(self):
        a = OpCodeMethods()

        a.stack.push(2)
        a.stack.push(1)
        a.iadd()
        b = a.stack.pop()
        self.assertEqual(b, 3)

    def test_iand(self):
        a = OpCodeMethods()

        a.stack.push(5)
        a.stack.push(3)
        a.iand()
        b = a.stack.pop()
        self.assertEqual(b,1)

    def test_iconst_m1(self):
        a = OpCodeMethods()

        a.iconst_m1()
        b = a.stack.peek()
        self.assertEqual(b, -1)

        a.stack.push(5)
        self.assertEqual(a.stack.peek(), 5)
        self.assertNotEqual(a.stack.peek(), -1)
```