




# Tutorial

A stylized green icon of an open book, showing the pages and the spine, located in the top-left corner of the slide.

# Prerequisites

- **Java**
- **Maven**
- **IDE**
- **Selenium Driver**



# 1. Test

A green abstract graphic in the top-left corner, consisting of several overlapping, rounded rectangular shapes that create a sense of depth and movement.

```
<project>
  <modelVersion>4.0.0</modelVersion>

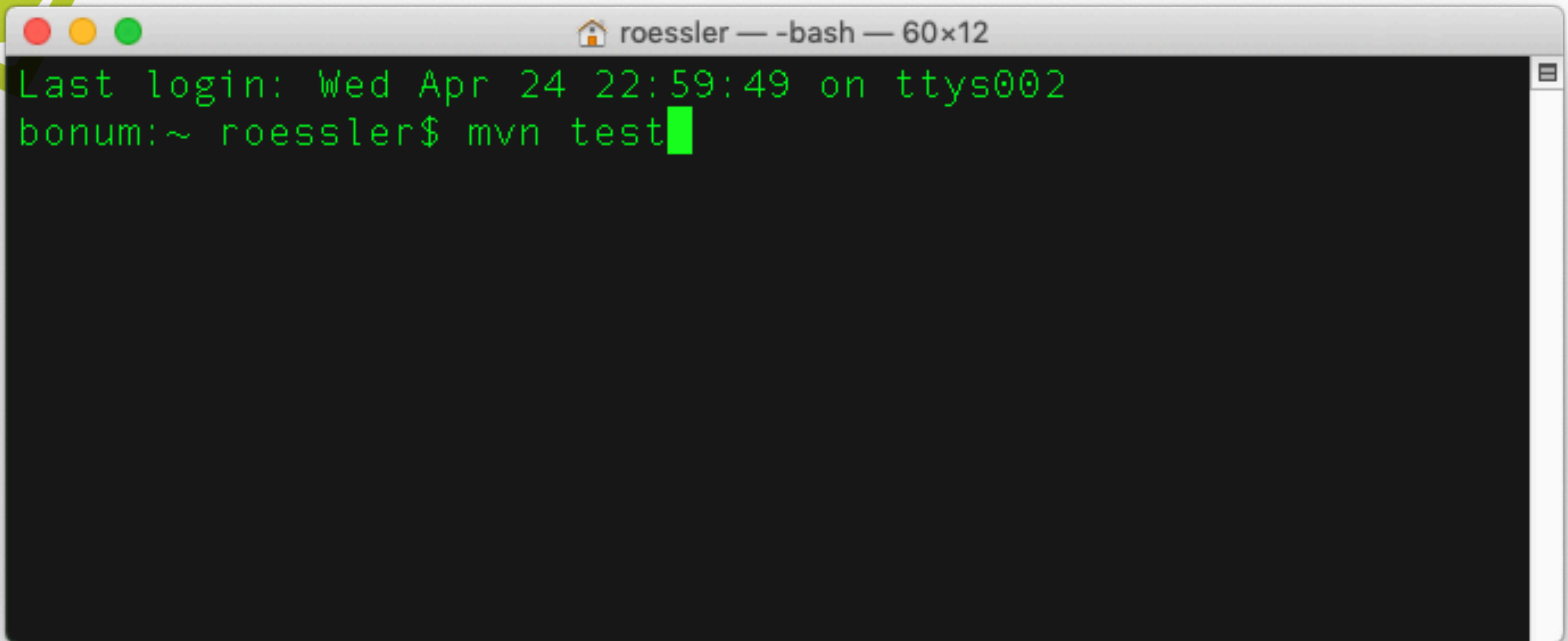
  <groupId>com.mycompany</groupId>
  <artifactId>recheck-web-tutorial</artifactId>
  <version>0.1-SNAPSHOT</version>

  <properties>
    <maven.compiler.source>1.8</maven.compiler.source>
    <maven.compiler.target>1.8</maven.compiler.target>
  </properties>

  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.12</version>
      <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>de.retest</groupId>
      <artifactId>recheck-web</artifactId>
      <version>1.0.1-SNAPSHOT</version>
      <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>org.seleniumhq.selenium</groupId>
      <artifactId>selenium-java</artifactId>
      <version>3.141.59</version>
      <scope>test</scope>
    </dependency>
  </dependencies>
</project>
```

A green abstract graphic element in the top-left corner, consisting of several overlapping, rounded rectangular shapes that create a sense of depth and movement.

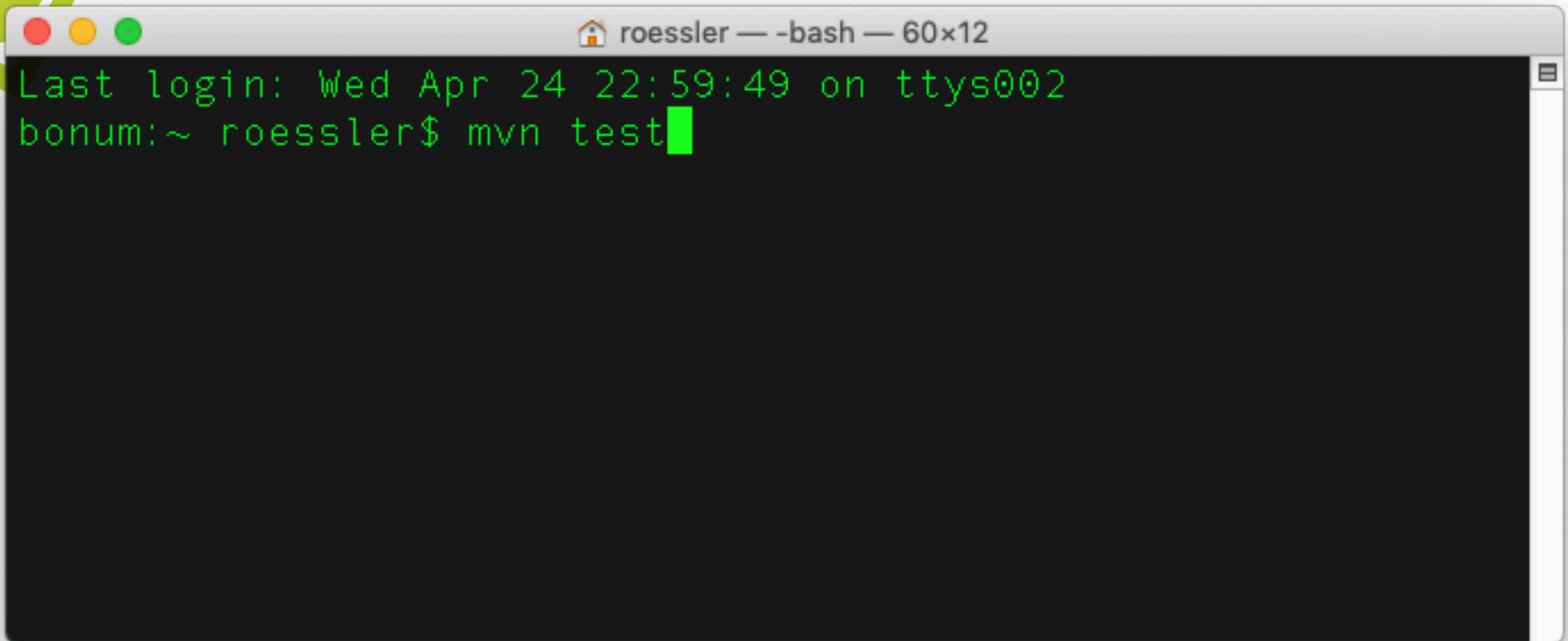
```
public class MyFirstTest {  
  
    private WebDriver driver;  
    private Recheck re;  
  
    @Before  
    public void setup() {  
        re = new RecheckImpl();  
        System.setProperty("webdriver.chrome.driver", "C:\\path-to\\chromedriver.exe");  
        driver = new ChromeDriver();  
    }  
  
    @Test  
    public void google() throws Exception {  
        re.startTest();  
        driver.get("http://google.com");  
        re.check(driver, "open");  
  
        re.capTest();  
    }  
  
    @After  
    public void tearDown() {  
        driver.quit();  
        re.cap();  
    }  
}
```

A screenshot of a macOS terminal window. The title bar shows a home icon, the text 'roessler — -bash — 60x12', and standard macOS window controls (red, yellow, green buttons). The terminal content is green text on a black background. It shows a login message and a command being entered.

```
roessler — -bash — 60x12
Last login: Wed Apr 24 22:59:49 on ttys002
bonum:~ roessler$ mvn test
```



```
recheck-web-tutorial — -bash — 90x17
etest/recheck/com.mycompany.MyFirstTest/google.open.recheck' don't exists, create new one
23:26:26.093 [main] DEBUG de.retest.recheck.ui.diff.RootElementDifferenceFinder - Finding
differences for window took 0ms.
23:26:26.236 [main] INFO de.retest.recheck.persistence.RecheckTestReportUtil - Persisting
test report to file '/Users/roessler/Documents/startup/workspace/recheck-web-tutorial/targ
et/test-classes/retest/recheck/com.mycompany.MyFirstTest.report'.
Tests run: 1, Failures: 1, Errors: 0, Skipped: 0, Time elapsed: 6.352 sec <<< FAILURE!
google(com.mycompany.MyFirstTest) Time elapsed: 6.306 sec <<< FAILURE!
java.lang.AssertionError: 'com.mycompany.MyFirstTest':
No recheck file found. First time test was run? Created recheck file now, don't forget to
commit...
    at de.retest.recheck.RecheckImpl.capTest(RecheckImpl.java:137)
    at com.mycompany.MyFirstTest.google(MyFirstTest.java:30)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.ja
va:43)
```

A screenshot of a macOS terminal window. The title bar shows a home icon, the text 'roessler — -bash — 60x12', and standard macOS window controls (red, yellow, green buttons). The terminal content is green text on a black background. It shows a login message and a command being entered.

```
roessler — -bash — 60x12
Last login: Wed Apr 24 22:59:49 on ttys002
bonum:~ roessler$ mvn test
```



```
recheck-web-tutorial — -bash — 90x17
Tests run: 1, Failures: 1, Errors: 0, Skipped: 0, Time elapsed: 6.841 sec <<< FAILURE!
google(com.mycompany.MyFirstTest) Time elapsed: 6.791 sec <<< FAILURE!
java.lang.AssertionError:
A detailed report will be created at 'target/test-classes/retest/recheck/com.mycompany.MyFirstTest.report'. You can review the details by using our GUI from https://retest.de/review/.

The following differences have been found in 'com.mycompany.MyFirstTest' (with 1 check(s)):
Test 'google' has 56 differences in 1 states:
open resulted in:
    HTML at 'HTML[1]':
        outline: expected="java.awt.Rectangle[x=0,y=0,width=600,height=505]", actual="java.awt.Rectangle[x=0,y=0,width=600,height=355]"
    DIV at 'HTML[1]/BODY[1]/DIV[1]/DIV[1]':
        outline: expected="java.awt.Rectangle[x=0,y=0,width=0,height=-505]", actual="java.awt.Rectangle[x=0,y=0,width=0,height=-355]"
    DIV at 'HTML[1]/BODY[1]/DIV[1]/DIV[2]':
```

```

1# Ignore file for recheck. Please do not delete, even if it is empty.
2# You can ignore specific attributes like so:
3# matcher: retestid=div-b4f23, attribute: font.*
4# To ignore whole subtrees, use e.g. xpath:
5# matcher: xpath=HTML[1]/BODY[1]/DIV[1]/DIV[1]/DIV[1]
6# To ignore attributes globally, use
7# attribute=class
8# More details and examples can be found here:
9# https://retest.github.io/docs/recheck/how-ignore-works-in-recheck/
10
11 attribute=ping|
12 attribute=jsdata
13 attribute=data-.*
14 attribute=class
15 attribute=outline
16 attribute=transform
17 attribute=style
18

```



# recheck CLI

← → ↻ GitHub, Inc. [US] | https://github.com/retest/recheck.cli ☆

🐙 Search or jump to... / Pull requests Issues Marketplace Explore


📄 retest / recheck.cli Unwatch 4 ★ Star 4 🍴 Fork 0

<> Code ! Issues 0 🔗 Pull requests 0 📊 Insights ⚙ Settings

Maintain your Golden Master files, Git-like on the command line.

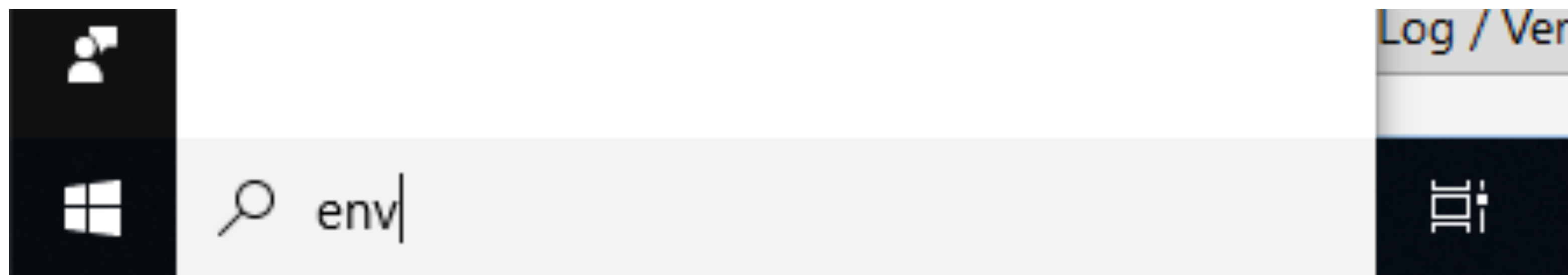
🕒 189 commits 🔗 2 branches 🏷 5 releases 👤 7 contributors 📄 AGPL-3.0

📖 README.md

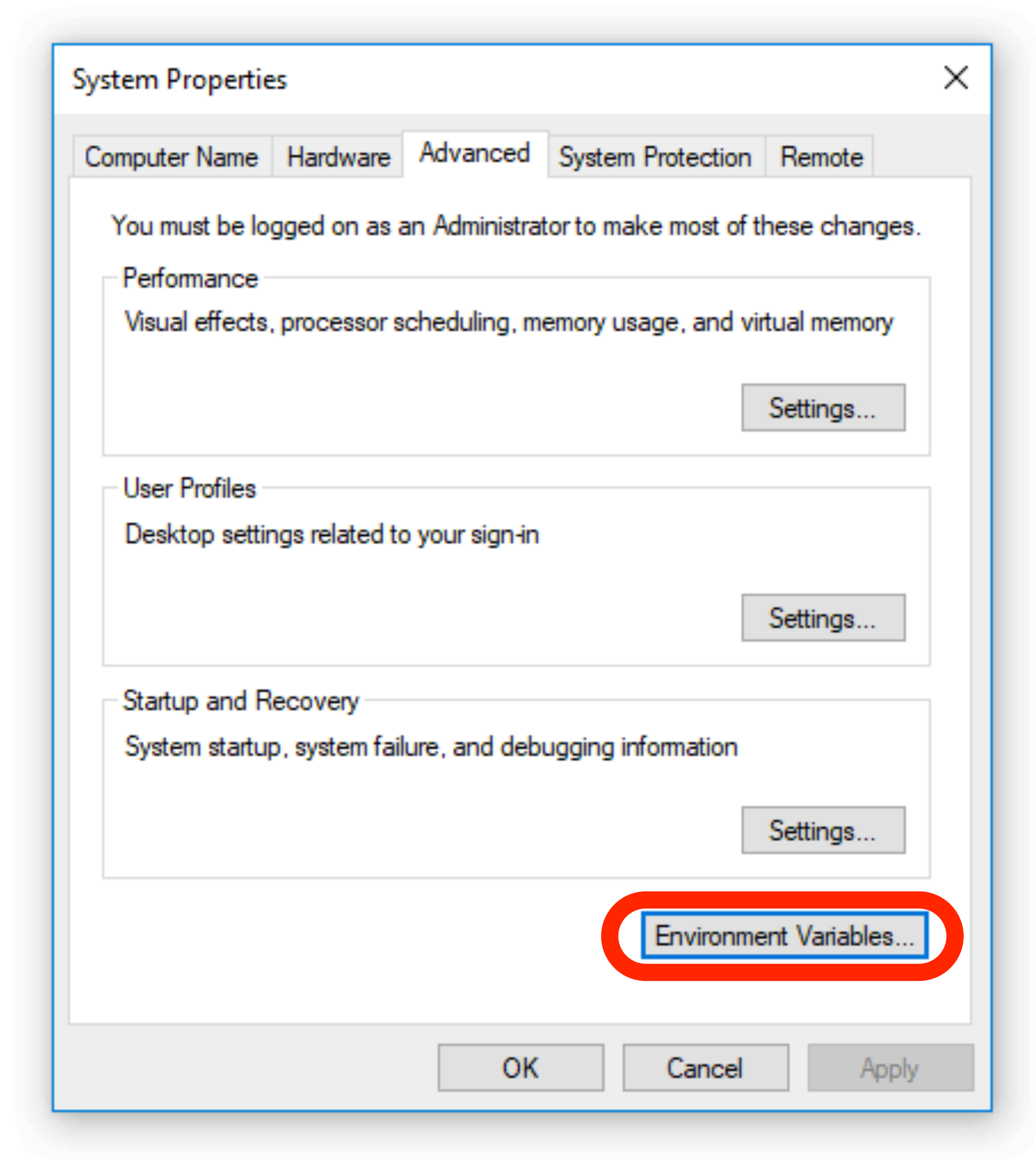
 **recheck** command-line interface (CLI)

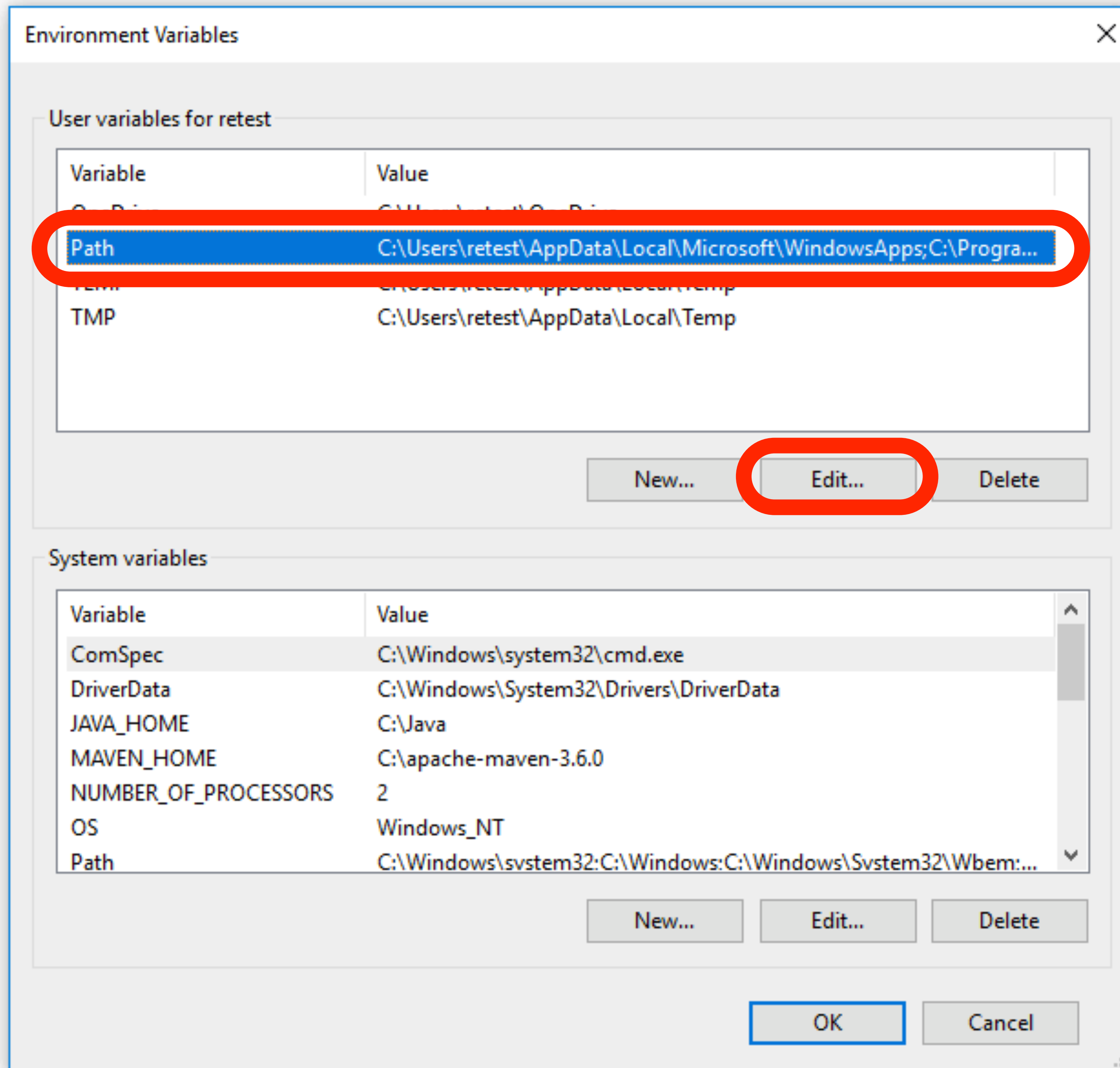
build passing license AGPL PRs welcome </> with ❤ by retest

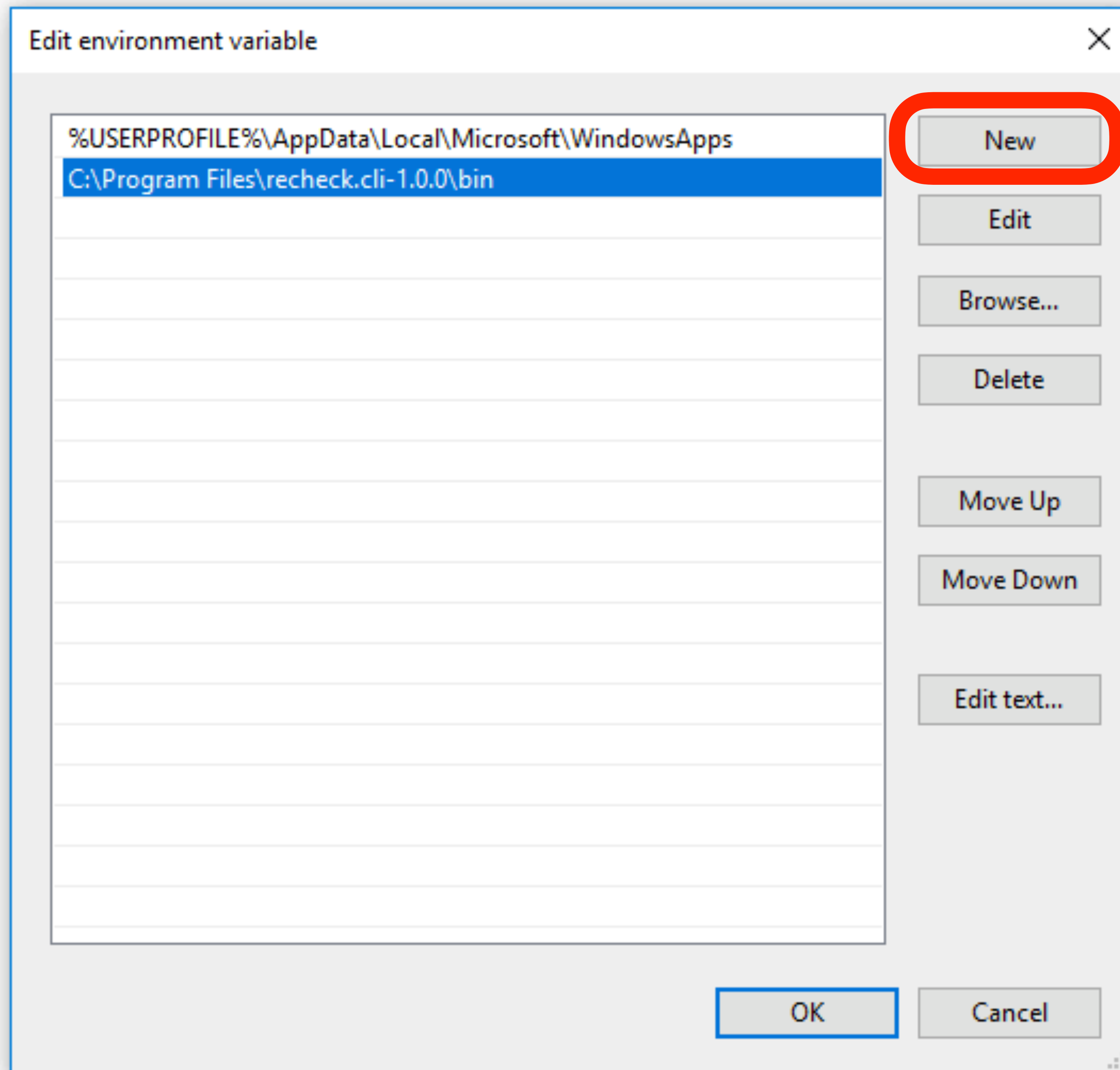


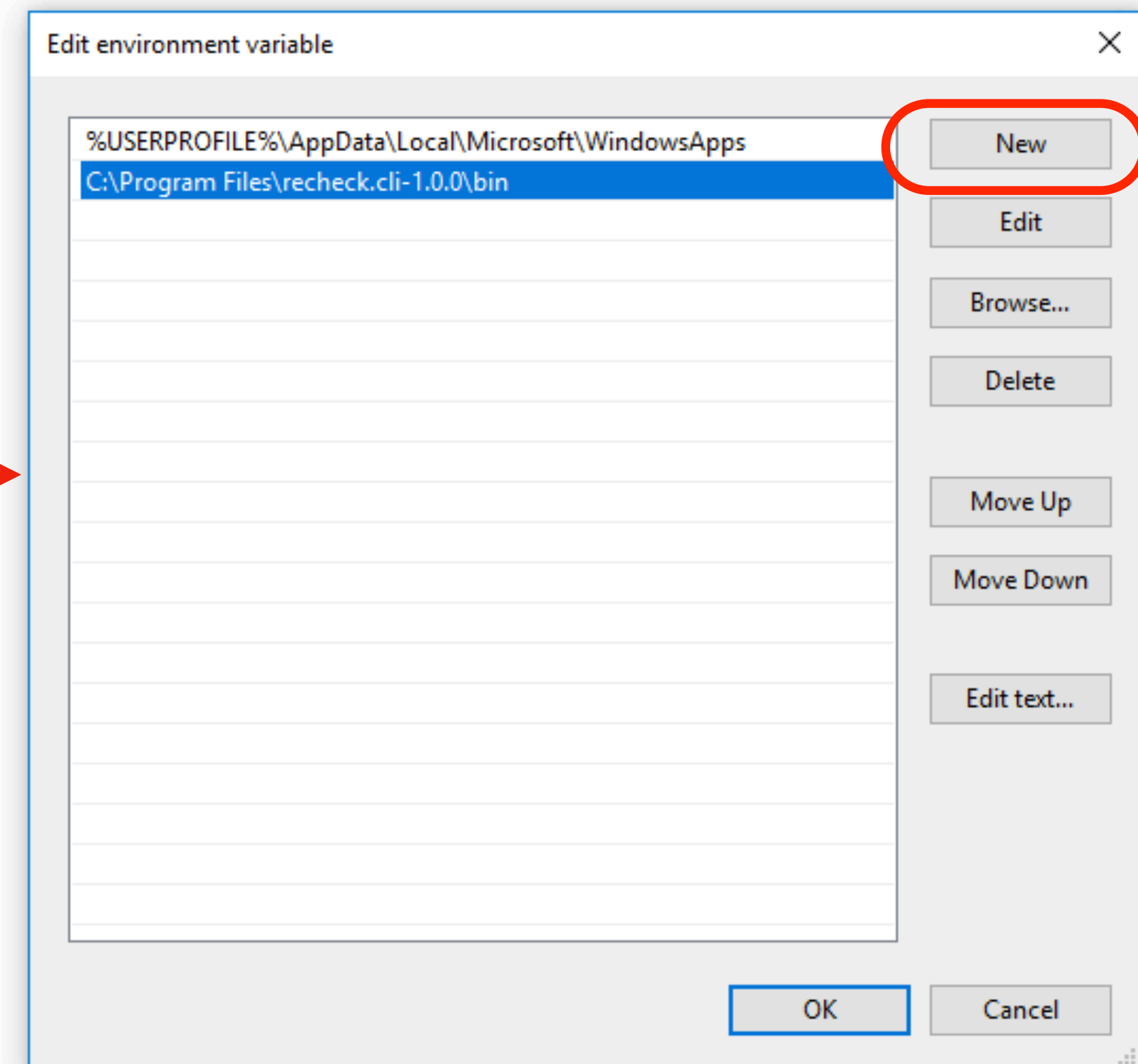
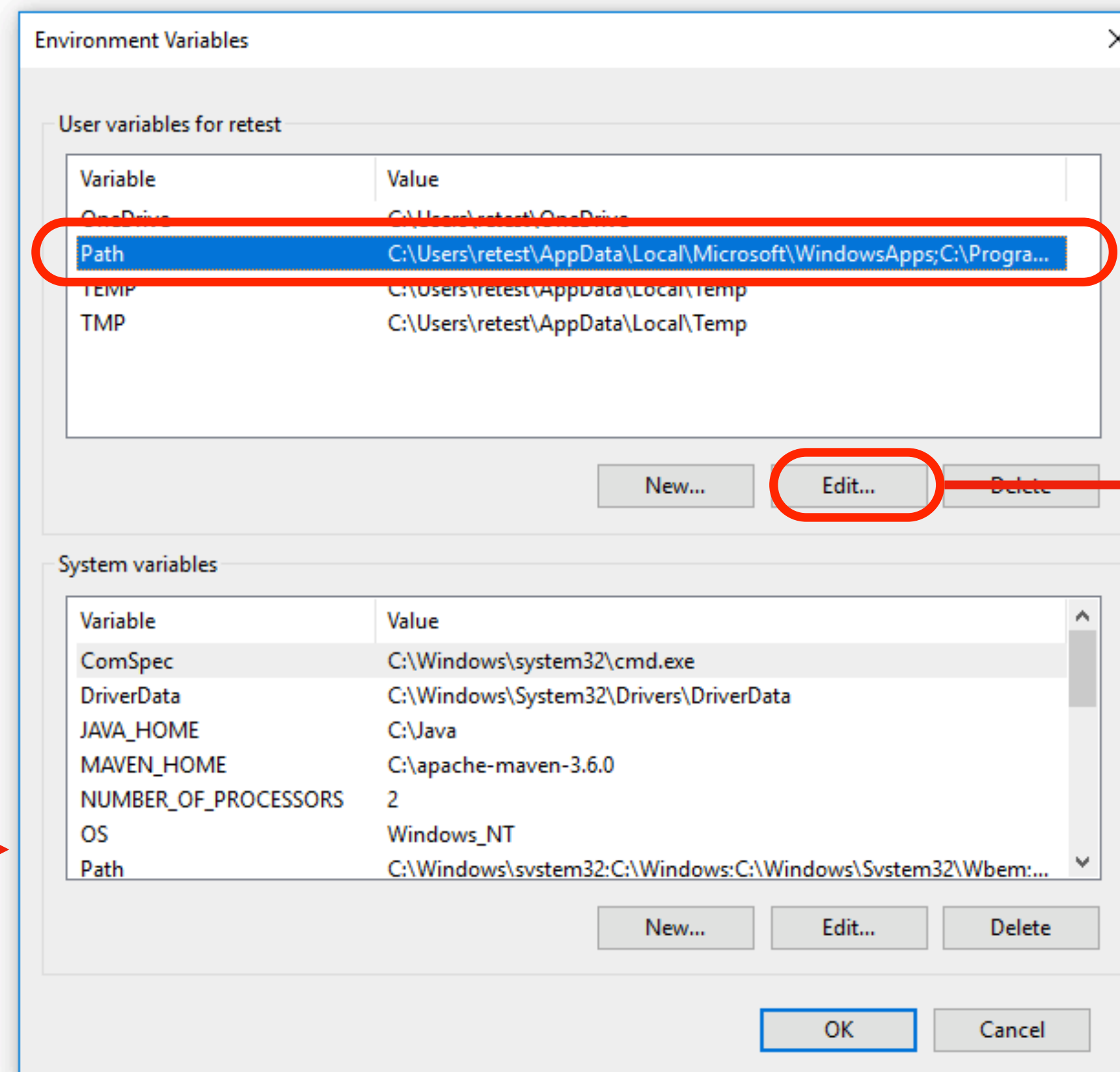
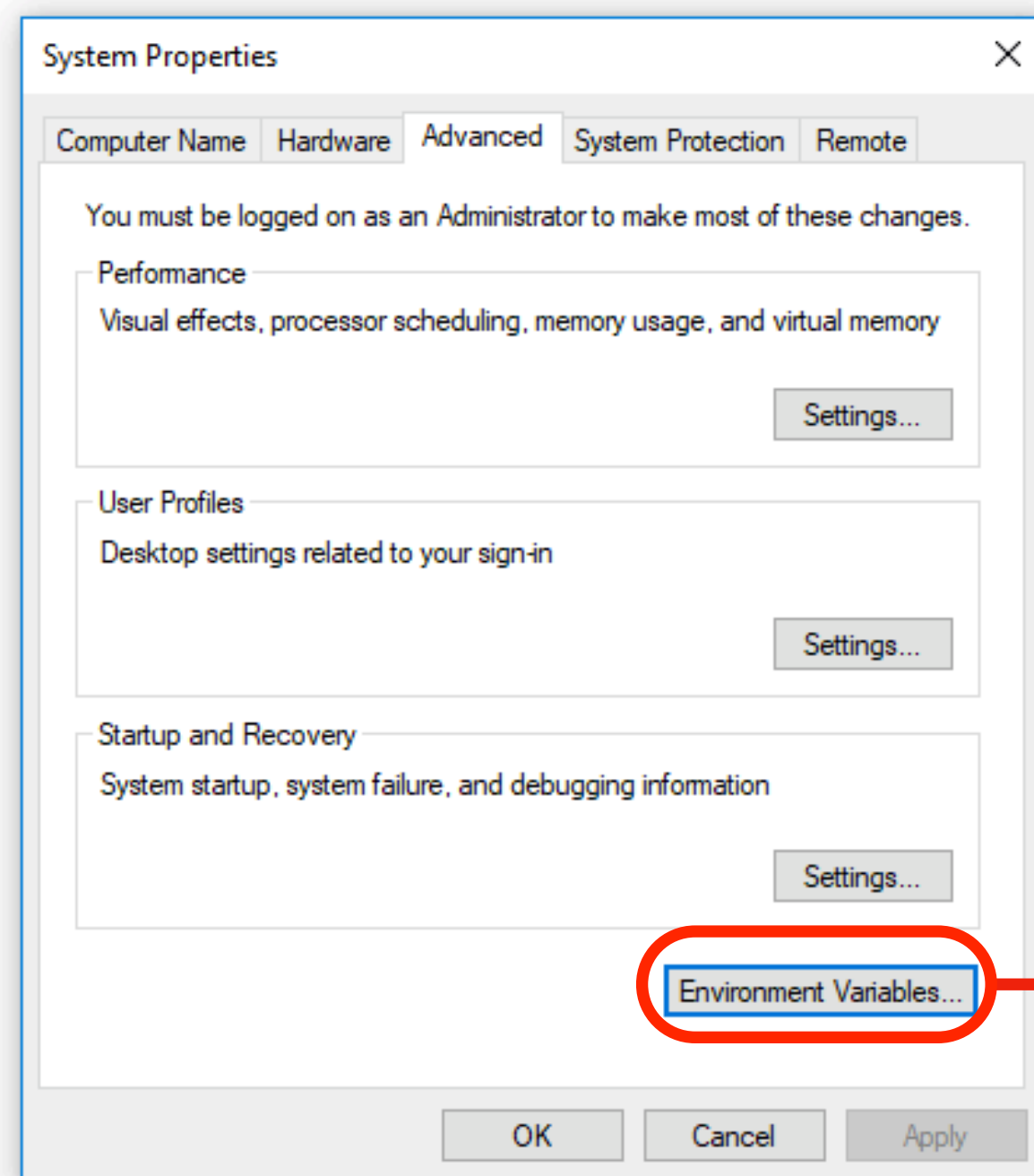












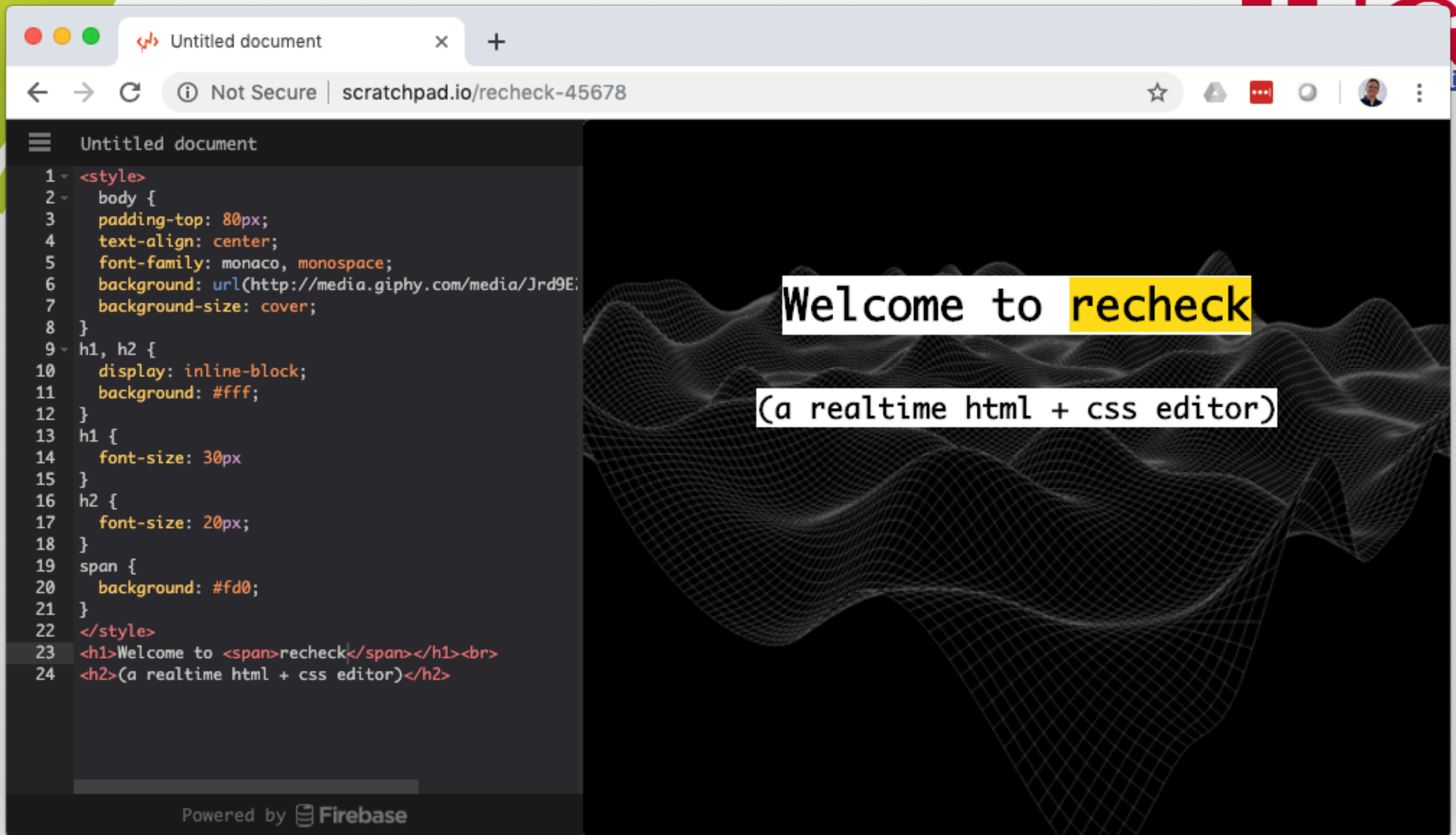


```
recheck-web-tutorial — -bash — 70x13
bonum:recheck-web-tutorial roessler$ recheck
Usage: recheck [--help] [--version] [COMMAND]
Command-line interface for recheck.
    --help      Display this help message.
    --version   Display version info.
Commands:
version      Display version info.
diff         Display given differences.
commit      Accept given differences.
ignore      Ignore given differences.
completion  Generate and display auto completion script.
help        Displays help information about the specified command
bonum:recheck-web-tutorial roessler$
```





## 2. Test



Untitled document


Not Secure | scratchpad.io/recheck-45678

Untitled document

```
1 <style>
2   body {
3     padding-top: 80px;
4     text-align: center;
5     font-family: monaco, monospace;
6     background: url(http://media.giphy.com/media/Jrd9Ei
7     background-size: cover;
8   }
9   h1, h2 {
10    display: inline-block;
11    background: #fff;
12  }
13  h1 {
14    font-size: 30px
15  }
16  h2 {
17    font-size: 20px;
18  }
19  span {
20    background: #fd0;
21  }
22 </style>
23 <h1>Welcome to <span>recheck</span></h1><br>
24 <h2>(a realtime html + css editor)</h2>
```

Welcome to recheck

(a realtime html + css editor)

Powered by  Firebase

A stylized green icon of an open book, with the pages fanned out, located in the top-left corner of the slide.

```
public class MyFirstTest {  
  
    private WebDriver driver;  
    private Recheck re;  
  
    @Before  
    public void setup() {  
        re = new RecheckImpl();  
        System.setProperty("webdriver.chrome.driver", "C:\\path-to\\chromedriver.exe");  
        driver = new ChromeDriver();  
    }  
  
    @Test  
    public void scratchpad() throws Exception {  
        re.startTest();  
        driver.get("http://scratchpad.io/recheck-45678");  
        re.check(driver, "open");  
  
        re.capTest();  
    }  
  
    @After  
    public void tearDown() {  
        driver.quit();  
        re.cap();  
    }  
}
```



```
recheck-web-tutorial — -bash — 70x13
[bonum:recheck-web-tutorial roessler$ recheck ignore --all target/test-classes/retest/recheck/com.mycompany.MyFirstTest.report
Checking test report in path 'target/test-classes/retest/recheck/com.mycompany.MyFirstTest.report'.
Test report 'com.mycompany.MyFirstTest.report' has 188 differences in 1 tests.
Reading JS ignore rules file from /Users/roessler/Documents/startup/workspace/recheck-web-tutorial/.retest/recheck.ignore.js.
The recheck ignore file was loaded successfully.
Specified JS ignore file has no 'shouldIgnoreAttributeDifference' function.
The recheck ignore file has been updated.
[bonum:recheck-web-tutorial roessler$ ]
```



# CLI Integration





# Migrate existing Test Cases

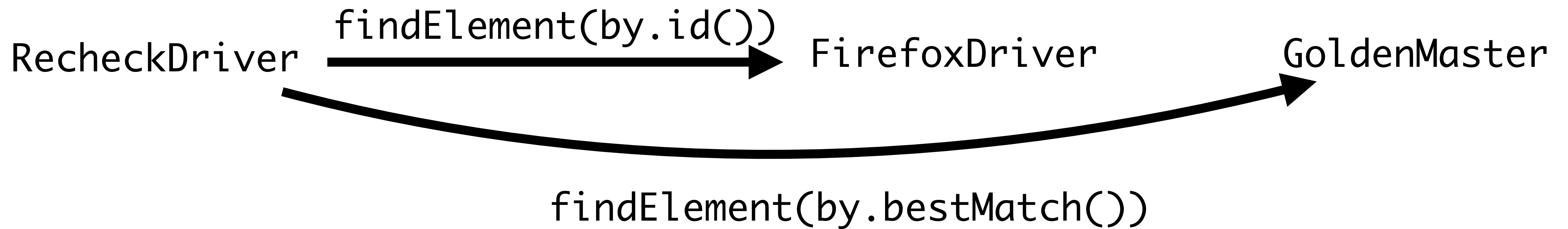


# Unbreakable Tests

A green abstract shape, resembling a stylized book or a folded piece of paper, is located in the top left corner.

@Test

```
public void test_login() throws Exception {  
    final WebDriver driver = new RecheckDriver(new FirefoxDriver());  
    driver.get( "http://www.retest.de" );  
    recheck.check( driver );  
  
    driver.findElement( By.id( "username" ) ).sendKeys( username );  
    driver.findElement( By.id( "pwd" ) ).sendKeys( password );  
    driver.findElement( By.className( "button" ) ).submit();  
    recheck.check( driver );  
}
```



\*\*\*\*\* recheck warning \*\*\*\*\*

The HTML id attribute used for element identification changed from 'intro-slider' to 'introSlider'.

retest identified the element based on the persisted old state.

If you apply these changes to the state , your test will break.

Use `By.id("introSlider")` or `By.retestId("9c40281d-5655-4ffa-9c6d-d079e01bb5a3")` to update your test.

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@Test

```
public void test_login() throws Exception {  
    final WebDriver driver = new RecheckDriver(new FirefoxDriver());  
    driver.get( "http://www.retest.de" );  
    recheck.check( driver );  
  
    driver.findElement( By.retestId( "username" ) ).sendKeys( username );  
    driver.findElement( By.retestId( "pwd" ) ).sendKeys( password );  
    driver.findElement( By.retestId( "button" ) ).submit();  
    recheck.check( driver );  
}
```





# Mixing with Cucumber