

Assertion Based Testing

Issue #490

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Thursday, May 26, 2011

Assertion Based Testing

- **Problem:**

Your output may vary

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Assertion Based Testing

- **Solution from John Chilton:**

Test assertions about your output
instead of
comparing to a sample output

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Assertion Based Testing

- #490 Enabling iterative test-driven development of tools

```
<test>
  <param name="input" value="maf_stats_interval_in.dat" />
  <output name="out_file1">
    <assert_contents>
      <has_text text="chr7" />
      <not_has_text text="chr8" />
      <has_line_matching expression=".*\s+127489\s+127572" />
    </assert_contents>
  </output>
</test>
```

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Assertion Based Testing

- **#490 Enabling iterative test-driven development of tools**

```
def assert_has_line_matching(output, expression):  
    """ Asserts the specified output contains a line matching the  
    regular expression specified by the argument expression. """  
    match = re.search("^%s$" % expression, output, flags = re.MULTILINE)  
    assert match != None,  
           "No line matching expression '%s' was found in output file." % expression
```

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Assertion Based Testing

- **#490 Enabling iterative test-driven development of tools**

<https://bitbucket.org/galaxy/galaxy-central/issue/490/enabling-iterative-test-driven-development>

<https://bitbucket.org/jmchilton/umn-galaxy-central/changesets>

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- **John Chilton**

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Jenkins

Jenkins » galaxy-development [ENABLE AUTO REFRESH](#)

Project galaxy-development

- [Back to Dashboard](#)
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Build History (trend)

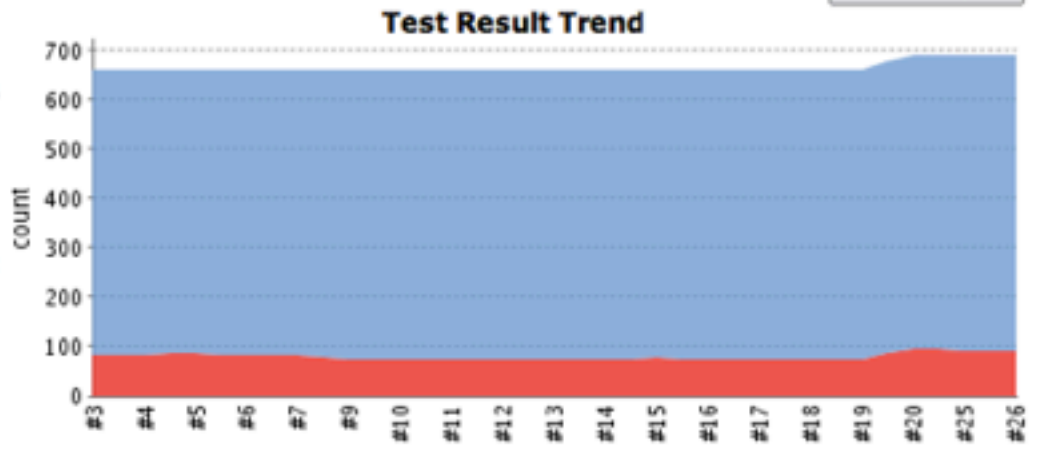
#26	May 24, 2011 9:10:38 PM
#25	May 24, 2011 11:22:27 AM
#20	May 23, 2011 8:26:10 AM
#19	May 19, 2011 7:43:00 PM
#18	May 19, 2011 1:13:19 PM
#17	May 16, 2011 8:18:20 AM
#16	May 10, 2011 5:08:24 PM

- [Workspace](#)
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- [Latest Test Result \(91 failures / ±0\)](#)

Permalinks

- [Last build \(#27\), 2 hr 24 min ago](#)
- [Last successful build \(#26\), 14 hr ago](#)
- [Last unstable build \(#26\), 14 hr ago](#)
- [Last unsuccessful build \(#26\), 14 hr ago](#)

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Canceled opening the page

Thank You
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