

AirNowDrupal Python-based Selenium Testing

INTRODUCTION

This procedure details how to set up and use Python-based Selenium testing environment for the AirNowDrupal website on a Windows 10 computer. We use the IDLE Python development environment, the Selenium library, and the Chrome web browser driver.

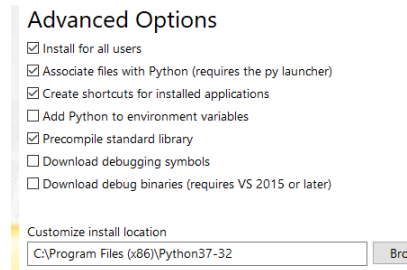
Big Picture:

1. Set-up Python IDLE
2. Set-up the current Air Now Drupal Test Suite
3. Run the current Air Now Drupal Test Suite

PROCEDURE

Set-up Python IDLE

- 1) Download & install the latest version of Python 3 and IDLE
 - a. Download at: <https://www.python.org/downloads/>
 - b. Install version 3.6.15
 - c. Use “Customize installation”
 - d. Options Features – select all - next
 - e. Select these options and a shorten install path, if desired



- 2) Start a command prompt as Administrator and find the pip.exe file in your Python install directory within the Scripts directory. Then run the “pip” commands as given below in your Python directory. (Use pip.exe for Command Prompt windows or pip for PowerShell windows.)

```
pip.exe install colorama  
pip.exe install selenium-wire
```

- 3) Selenium requires a driver for your browser. We are currently using Chrome. Download the driver for your version of Chrome:
 - a. <https://sites.google.com/a/chromium.org/chromedriver/downloads>
- 4) Unzip. Copy (drag and drop) the web driver file to your Python directory. Right next to Python.exe

References:

<https://selenium-python.readthedocs.io/installation.html>

<https://selenium-python.readthedocs.io/getting-started.html>

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Set-up the current Air Now Drupal Test Suite

1. Get the current “Selenium Tests” directory from the Acquia Cloud Repository (or however) and run the file “AirNowTestSuite.py”.

Run the current Air Now Drupal Test Suite

2. Start the IDLE application.
3. Use File >> Open to open the Python file.
4. Type F5 to run the program.
5. At the prompt, type the number of the server you wish to test.
6. You may receive at Program blocked by Firewall – click Allow.
7. Repeat...

DOCUMENT HISTORY

2019-04-18 Initial version by Chris Wilkes
2019-05-01 Updates by Jeanne Browdy
2022-01-14 Updates by Chris Wilkes. Stay on version 3.6.15; add python libraries