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Commit 82a24a4



sethmlarson authored 3 weeks ago · ✖ 90 / 98 · Verified

[gh-143930](#): Reject leading dashes in webbrowser URLs

main (#143931) · v3.15.0a8

1 parent [b38127f](#) commit 82a24a4

3 files changed +19 -0 lines changed

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3 files changed +19 -0 lines changed



Lib/test/test_webbrowser.py



```

... @@ -67,6 +67,11 @@ def test_open(self):
67 67         options=[],
68 68         arguments=[URL])
69 69
70 +     def test_reject_dash_prefixes(self):
71 +         browser = self.browser_class(name=CMD_NAME)
72 +         with self.assertRaises(ValueError):
73 +             browser.open(f"--key=val {URL}")

```

```

74 +
70 75
71 76     class BackgroundBrowserCommandTest(CommandTestMixin, unittest.TestCase):
72 77

```

Lib/webbrowser.py

```

@@ -163,6 +163,12 @@ def open_new(self, url):
163 163     def open_new_tab(self, url):
164 164         return self.open(url, 2)
165 165
166 +     @staticmethod
167 +     def _check_url(url):
168 +         """Ensures that the URL is safe to pass to subprocesses as a
           parameter"""
169 +         if url and url.lstrip().startswith("-"):
170 +             raise ValueError(f"Invalid URL: {url}")
171 +
166 172
167 173     class GenericBrowser(BaseBrowser):
168 174         """Class for all browsers started with a command
@@ -180,6 +186,7 @@ def __init__(self, name):
180 186
181 187     def open(self, url, new=0, autoraise=True):
182 188         sys.audit("webbrowser.open", url)
189 +         self._check_url(url)
183 190         cmdline = [self.name] + [arg.replace("%s", url)
184 191             for arg in self.args]
185 192         try:
@@ -200,6 +207,7 @@ def open(self, url, new=0, autoraise=True):
200 207         cmdline = [self.name] + [arg.replace("%s", url)
201 208             for arg in self.args]
202 209         sys.audit("webbrowser.open", url)
210 +         self._check_url(url)
203 211         try:
204 212             if sys.platform[:3] == 'win':
205 213                 p = subprocess.Popen(cmdline)
@@ -266,6 +274,7 @@ def _invoke(self, args, remote, autoraise, url=None):
266 274

```

```

267 275     def open(self, url, new=0, autoraise=True):
268 276         sys.audit("webbrowser.open", url)
277 +         self._check_url(url)
269 278         if new == 0:
270 279             action = self.remote_action
271 280         elif new == 1:
@@ -357,6 +366,7 @@ class Konqueror(BaseBrowser):
357 366
358 367     def open(self, url, new=0, autoraise=True):
359 368         sys.audit("webbrowser.open", url)
369 +         self._check_url(url)
360 370         # XXX Currently I know no way to prevent KFM from opening a new win.
361 371         if new == 2:
362 372             action = "newTab"
@@ -588,6 +598,7 @@ def register_standard_browsers():
588 598     class WindowsDefault(BaseBrowser):
589 599         def open(self, url, new=0, autoraise=True):
590 600             sys.audit("webbrowser.open", url)
601 +         self._check_url(url)
591 602         try:
592 603             os.startfile(url)
593 604         except OSError:
@@ -608,6 +619,7 @@ def __init__(self, name='default'):
608 619
609 620         def open(self, url, new=0, autoraise=True):
610 621             sys.audit("webbrowser.open", url)
622 +         self._check_url(url)
611 623             url = url.replace("'", '%22')
612 624             if self.name == 'default':
613 625                 proto, _sep, _rest = url.partition(":")
@@ -664,6 +676,7 @@ def open(self, url, new=0, autoraise=True):
664 676     class IOSBrowser(BaseBrowser):
665 677         def open(self, url, new=0, autoraise=True):
666 678             sys.audit("webbrowser.open", url)
679 +         self._check_url(url)
667 680         # If ctypes isn't available, we can't open a browser
668 681         if objc is None:

```

669 682

return False



...6-01-16-12-04-49.gh-issue-143930.zYC5x3.rst



... @@ -0,0 +1 @@

1 + Reject leading dashes in URLs passed to :func:`webbrowser.open`

Comments 0