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miss-islington and sethmlarson authored 3 weeks ago · ✖ 43 / 48 · Partially verified

[3.14] [gh-143930](#): Reject leading dashes in webbrowser URLs ([GH-146214](#))
 (cherry picked from commit [82a24a4](#))

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3.14 (#146214) · v3.14.4

1 parent [7c8a46b](#) commit 9669a91

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
169 +         parameter"""
170 +         if url and url.lstrip().startswith("-"):
171 +             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