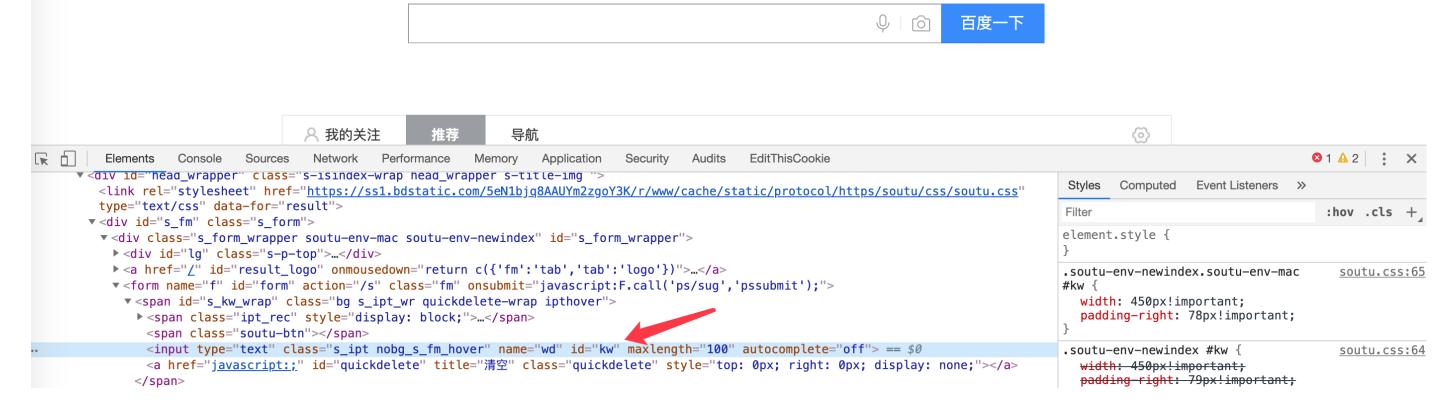
2019/8/20 12.Selenium操作页面标签

## # Selenium操作网页元素

一个简单的例子, 通过selenium打开chrome浏览器, 并输入关键字进行信息查询.

```
In [ ]: | from selenium import webdriver
        from selenium.webdriver.common.by import By
        from selenium.webdriver.common.keys import Keys
        from selenium.webdriver.support import expected conditions as EC
        from selenium.webdriver.support.wait import WebDriverWait
        import time
        browser=webdriver.Chrome()
           browser.get("https://www.baidu.com") #打开百度首页
           input=browser.find_element_by_id("kw") #在首页中寻找一个id为kw的元素
           input.send_keys("Python") #在kw元素的文本框中输入Python
           input.send_keys(Keys.ENTER) #模拟点击回车按钮进行WEB请求
           wait=WebDriverWait(browser,10) #等待10秒时间
           wait.until(EC.presence_of_element_located((By.ID,"content_left"))) #等待页面中出现一个ID叫做content_left的元素,此时
            #搜索结果加载完成。
           print(browser.current_url)
           print(browser.get_cookies())
           print(browser.page_source)
           time.sleep(10)
        finally:
           browser.close()
```





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                                             图片
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         √搜索工具
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                       您可以仅查看: 英文结果
                       Welcome to Python.org 官网
                       查看此网页的中文翻译,请点击 翻译此页
                       The official home of the Python Programming Language... # Python 3: List comprehensions
                       >>> fruits = ['Banana', 'Apple', 'Lime'] >>> loud_fruits ...
                                                                                                                                                  Python语言
                                                                                                                <u>Python编程</u>
                                                                                                                                       Python可以
                       https://www.python.org/ ▼ - <u>百度快照</u>
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                  Elements Console Sources Network
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                      <mark>-Іприс суре</mark>= пітийен <u>паше</u>= rsv_c <mark>vacue</mark>= <del>9</del>йтаогс/эшчітигрутпкіцк+/к4тпсіупобутогуриоэесіпсь јеок4орусіей тэгээьку
                                                                                                                                                Computed Event Listeners >>>
                    </form>
                   </div>
                                                                                                                                          Filter
                                                                                                                                                                           :hov .cls +
                  ::after
                                                                                                                                          element.style {
                 </div>
                ▶ <div id="u">...</div>
                > <div id="bds-message-wrapper" class="s-mod-msg" style="display:none;">...</div>
                                                                                                                                          #content_left {
                                                                                                                                                                                 <style>
                ▶ <div id="s_lm_wrap" class="s_lm_hide s-isindex-wrap">...</div>
                                                                                                                                            width: 540px;
                 padding-left: 121px;
                </div>
                                                                                                                                            padding-top: 5px;
              ▶ <div id="s_wrap" class="s-isindex-wrap">...</div>
              ▶ <div id="bottom_container" class="s-bottom-ctner">...</div>
                                                                                                                                          #content_left {
                                                                                                                                                                                 <style>
              ▶ <div class="s-isindex-wrap sui-wraper">...</div>
                                                                                                                                            width: 636px;
              </div>
                                                                                                                                            float: left;
             ▶ <div class="s_tab" id="s_tab">...</div>
                                                                                                                                            padding-left: 35px;
             ▼ <div id="wrapper_wrapper" style="display: block;">
              ▼ <div id="container" class="container_l">
                                                                                                                                          div {
                                                                                                                                                                     user agent stylesheet
                ▶ <div id="content_right" class="cr-offset">...</div>
                                                                                                                                            display: block;
                ▶ <div class="head_nums_cont_outer OP_LOG" ...</div>
                ▶ <script type="text/javascript">...<//i>
                                                                                                                                          Inherited from div#contain...
                ▶ <div id="content_left">...</div> == $0
                                                                                                                                                                                 <style>
                                                                                                                                          #container {
                 <div style="clear:both;height:0;"></div>
                                                                                                                                            word-break: break-all;
                ▶ <div id="rs">...</div>
                                                                                                                                            word-wrap: break-word;
                ▶ <div id="page">...</div>
                                                                                                                                            position: relative;
                 <div id="content bottom">
                                                                                                                                          Inherited from body s-manh...
         筛选单个元素:
In [ ]: from selenium import webdriver
         from selenium.webdriver.common.by import By
         browser=webdriver.Chrome()
         browser.get("http://www.taobao.com")
         input_first=browser.find_element_by_id("q") ##淘宝搜索框的input标签ID配q
         input_second=browser.find_element_by_css_selector("#q") ##选择ID等于q的所有元素
         input_third=browser.find_element(By.ID, "q") #选择ID为的所有元素
         print(input_first)
         print(input_second)
         print(input_third)
         browser.close()
         筛选多个元素:
In [ ]: from selenium import webdriver
         from selenium.webdriver.common.by import By
         browser=webdriver.Chrome()
         browser.get("http://www.taobao.com")
         lis=browser.find_element_by_css_selector("li")
         lis_c=browser.find_element(By.CSS_SELECTOR, "li")
         print(lis)
         print(lis_c)
         browser.close()
In [ ]: 元素的交互操作:
In [ ]: from selenium import webdriver
         from selenium.webdriver import ActionChains
         import time
         from selenium.webdriver.common.alert import Alert
         browser=webdriver.Chrome()
         url="https://www.runoob.com/try/try.php?filename=jqueryui-api-droppable"
         browser.get(url)
         #切换到目标元素所在的frame
         browser.switch to.frame("iframeResult")
         #确定拖拽目标的起点
         source=browser.find_element_by_id("draggable")
         #确定拖拽目标的终点
         target=browser.find_element_by_id("droppable")
         #形成动作链
         actions=ActionChains(browser)
         actions.drag_and_drop(source,target)
         #执行
         actions.perform()
In [ ]: 执行javascript,将滚动条拖至底部,并执行一句JS代码.
In [ ]: from selenium import webdriver
         browser=webdriver.Chrome()
         browser.get("https://www.zhihu.com/explore")
         browser.execute script("window.scrollTo(0,document.body.scrollHeight)")
         browser.execute_script("alert('To Button')")
         browser.close()
In [ ]: Cookie处理
In [ ]: from selenium import webdriver
         import time
         browser=webdriver.Chrome()
         browser.get("https://www.zhihu.com/explore")
         print(browser.get cookies())
         browser.add_cookie({"name":"name", "domain":"www.zhihu.com", "value":"germey"})
         print(browser.get_cookies())
         browser.delete_all_cookies()
         print(browser.get_cookies())
         browser.close()
         异常处理:
```

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```
In [ ]: from selenium import webdriver
    from selenium.common.exceptions import TimeoutException,NoSuchElementException
    browser=webdriver.Chrome()
    try:
        browser.get("https://www.zhihu.com/explore")
        except TimeoutException:
            print("Time out")
        try:
            browser.find_element_by_id("hello")
        except NoSuchElementException:
            print("No Element")
        finally:
            browser.close()
```