Cheat Sheet: API's and Data Collection

Package/Method	Description	Code Example
Accessing element attribute	Access the value of a specific attribute of an HTML element.	<pre>Syntax: attribute = element[(attribute)] Example: href = link_element[(href)]</pre>
BeautifulSoup()	Parse the HTML content of a web page using BeautifulSoup. The parser type can vary based on the project.	<pre>Syntax: soup = BeautifulSoup(html, (html.parser)) Example: html = (https://api.example.com/data) soup = BeautifulSoup(html, (html.parser))</pre>
delete()	Send a DELETE request to remove data or a resource from the server. DELETE requests delete a specified resource on the server.	Syntax: response = requests.delete(url) Example: response = requests.delete((https://api.example.com/delete))
find()	Find the first HTML element that matches the	Syntax: element = soup.find(tag, attrs)

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	specified tag and attributes.	<pre>Example: first_link = soup.find((a), {(class): (link)})</pre>
find_all()	Find all HTML elements that match the specified tag and attributes.	<pre>Syntax: elements = soup.find_all(tag, attrs) Example: all_links = soup.find_all((a), {(class): (link)})</pre>
findChildren()	Find all child elements of an HTML element.	Syntax: children = element.findChildren() Example: child_elements = parent_div.findChildren()
get()	Perform a GET request to retrieve data from a specified URL. GET requests are typically used for reading data from an API. The response variable will contain the server's response, which you can	<pre>Syntax: response = requests.get(url) Example: response = requests.get((https://api.example.com/data))</pre>

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next_sibling = current_element.find_next_sibling()
                                  Syntax:
                                       parent = element.parent
                  Access the
                  parent element
                  in the
parent
                  Document
                                  Example:
                  Object Model
                  (DOM).
                                       parent_div = paragraph.parent
                                  Syntax:
                                       response = requests.post(url, data)
                  Send a POST
                  request to a
                  specified URL
                  with data.
                  Create or
                  update POST
                  requests using
post()
                  resources on
                  the server. The
                                  Example:
                  data parameter
                                       response = requests.post((https://api.example.com/submit), data={(key): (value)})
                  contains the
                  data to send to
                  the server,
                  often in JSON
                  format.
                                  Syntax:
                                       response = requests.put(url, data)
                  Send a PUT
                  request to
                  update data on
                  the server.
                  PUT requests
                  are used to
                  update an
                  existing
put()
                  resource on
                                  Example:
                  the server with
                  the data
                                       response = requests.put((https://api.example.com/update), data={(key): (value)})
                  provided in the
                  data
                  parameter,
                  typically in
                  JSON format.
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Syntax:
                                                    params = {(param_name): (value)}
                        Pass query
                        parameters in
                        the URL to
                        filter or
                        customize the
Query parameters
                       request. Query
                                            Example:
                        parameters
                                                    base_url = "https://api.example.com/data"
params = {"page": 1, "per_page": 10}
response = requests.get(base_url, params=params)
                        specify
                        conditions or
                        limits for the
                        requested data.
                                            Syntax:
                                                    element = soup.select(selector)
                        Select HTML
                        elements from
select()
                        the parsed
                                            Example:
                        HTML using a
                        CSS selector.
                                                    titles = soup.select((h1))
                                            Syntax:
                                                    response.status_code
                        Check the
                        HTTP status
                        code of the
                        response. The
                        HTTP status
                        code indicates
                        the result of
                        the request
status code
                        (success, error,
                                            Example:
                        redirection).
                                                    url = "https://api.example.com/data"
                        Use the HTTP
                                                    response = requests.get(url)
                        status codeIt
                                                    status_code = response.status_code
                        can be used for
                        error handling
                        and decision-
                        making in
                        your code.
tags for find()
                        Specify any
                                             Tag Example:
                        valid HTML
                                                   - (a): Find anchor () tags.
- (p): Find paragraph ((p)) tags.
- (h1), (h2), (h3), (h4), (h5), (h6): Find heading tags from level 1 to 6 ( (h1),n (h2)).
- (table): Find table () tags.
- (tr): Find table row () tags.
- (td): Find table cell ((td)) tags.
- (th): Find table header cell ((td))tags.
and find_all()
                        tag as the tag
                        parameter to
                        search for
                        elements of
                        that type. Here
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		are some common HTML tags that you can use with the tag parameter.	- (img): Find image ((img)) tags (form): Find form ((form)) tags (button): Find button ((button)) tags.
	text	Retrieve the text content of an HTML element.	<pre>Syntax: text = element.text Example: title_text = title_element.text</pre>



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