

# BeautifulSoup Cheat Sheet for Data Scraping

BeautifulSoup is a powerful library used for web scraping purposes to pull the data out of HTML and XML files

## Cheat Sheet Table of BeautifulSoup Functions

Function	Brief Explanation
BeautifulSoup	Parses an HTML or XML document into a tree of Python objects.
prettify	Returns a string containing the prettified HTML or XML document.
find	Finds the first tag that matches a given criteria.
find_all	Finds all tags that match a given criteria.
select	Finds all tags that match a CSS selector.
get_text	Extracts all text from a tag.
attrs	Accesses the attributes of a tag.
parent	Navigates to the parent of a tag.
parents	Navigates to all parents of a tag.
children	Navigates to the children of a tag.
descendants	Navigates to all descendants of a tag.
next_sibling	Navigates to the next sibling of a tag.
previous_sibling	Navigates to the previous sibling of a tag.
next_siblings	Navigates to all next siblings of a tag.
previous_siblings	Navigates to all previous siblings of a tag.
decompose	Removes a tag from the tree.
replace_with	Replaces a tag with another tag or string.
new_tag	Creates a new tag.
insert	Inserts a new tag at a specified position.
append	Appends a new tag at the end.
find_parents	Finds all parent tags that match a given criteria.
find_parent	Finds the first parent tag that matches a given criteria.
find_next_siblings	Finds all next siblings that match a given criteria.
find_next_sibling	Finds the first next sibling that matches a given criteria.
find_previous_siblings	Finds all previous siblings that match a given criteria.
find_previous_sibling	Finds the first previous sibling that matches a given criteria.
find_all_next	Finds all tags that match a given criteria after the current tag.
find_next	Finds the first tag that matches a given criteria after the current tag.
find_all_previous	Finds all tags that match a given criteria before the current tag.
find_previous	Finds the first tag that matches a given criteria before the current tag.
get	Retrieves an attribute value of a tag.
string	Accesses the string within a tag.
strings	Accesses all strings within a tag.
stripped_strings	Accesses all stripped strings within a tag.

from bs4 import BeautifulSoup

The BeautifulSoup function is used to parse an HTML or XML document into a tree of Python objects. It takes in the document and a parser as parameters.

#### **Parameters:**

- markup (str): The HTML or XML document to be parsed.
- features (str): The parser to be used. Common options are 'html.parser', 'lxml', and 'xml'.

#### **Returns:**

• soup (BeautifulSoup object): The parsed document.

```
html_doc = "<html><head><title>The Dormouse's story</title></head><body>Once upon a time...</body>
</html>"
soup = BeautifulSoup(html_doc, 'html.parser')
print(soup.prettify())
This code will parse the HTML document and print it in a nicely formatted way.
```

```
In [ ]: from bs4 import BeautifulSoup
       html_doc = """
       <!DOCTYPE html>
       <html lang="en">
       <head>
           <meta charset="UTF-8">
          <title>Sample Web Page</title>
       </head>
       <body>
          <h1>Welcome to the Sample Web Page</h1>
          This is an example paragraph with a class attribute.
          This is another example paragraph with an ID attribute.
           <div>
              This is a nested paragraph inside a div.
              <a href="https://example.com" title="Example Link">Visit Example</a>
              <l
                  Item 1
                  Item 2
                  Item 3
              </div>
       </body>
       </html>
       0.00
       soup = BeautifulSoup(html_doc, 'html.parser')
       print(soup.prettify())
```

```
<html lang="en">
<head>
 <meta charset="utf-8"/>
 <title>
  Sample Web Page
 </title>
</head>
<body>
 <h1>
  Welcome to the Sample Web Page
 </h1>
 This is an example paragraph with a class attribute.
 This is another example paragraph with an ID attribute.
 <div>
  >
   This is a nested paragraph inside a div.
  <a href="https://example.com" title="Example Link">
   Visit Example
  </a>
  <l
   <
    Item 1
   <
    Item 2
   <
    Item 3
   </div>
</body>
</html>
```

## prettify Function

The prettify function returns a string containing the prettified HTML or XML document. It formats the document with proper indentation and line breaks.

### **Parameters:**

<!DOCTYPE html>

None

### **Returns:**

• str: A prettified string of the HTML or XML document.

## **Example:**

```
print(soup.prettify())
```

This will print the HTML document in a nicely formatted way.

## find Function

The find function searches for the first tag that matches the given criteria. It takes in various parameters to specify the tag and its attributes.

### **Parameters:**

- name (str): The name of the tag to search for.
- attrs (dict): A dictionary of attributes and their values to match.
- recursive (bool): If True, the search is recursive. Defaults to True.
- text (str or callable): A string or a callable to match the text within the tag.

### **Returns:**

Tag: The first tag that matches the given criteria, or None if no match is found.

```
first_paragraph = soup.find('p')
print(first_paragraph)
```

This code will find and print the first tag in the HTML document.

```
In [ ]: first_paragraph = soup.find('p')
    print(first_paragraph)
```

This is an example paragraph with a class attribute.

## find\_all Function

The find\_all function searches for all tags that match the given criteria. It takes in various parameters to specify the tags and their attributes.

#### **Parameters:**

- name (str): The name of the tag to search for.
- attrs (dict): A dictionary of attributes and their values to match.
- recursive (bool): If True, the search is recursive. Defaults to True.
- text (str or callable): A string or a callable to match the text within the tags.
- limit (int): The maximum number of tags to return. Defaults to None.

#### **Returns:**

• ResultSet: A list of tags that match the given criteria.

#### **Example:**

```
all_paragraphs = soup.find_all('p')
for p in all_paragraphs:
    print(p)
```

This code will find and print all tags in the HTML document.

This is an example paragraph with a class attribute.
This is another example paragraph with an ID attribute.
This is a nested paragraph inside a div.

### select Function

The select function searches for all tags that match a given CSS selector. It takes in a CSS selector as a parameter.

### **Parameters:**

• selector (str): A string containing the CSS selector.

### **Returns:**

• list: A list of tags that match the given CSS selector.

### **Example:**

```
head_title = soup.select('head > title')
for title in head_title:
    print(title)
```

This code will find and print the <title> tag inside the <head> tag using a CSS selector.

```
In [ ]: head_title = soup.select('head > title')
    for title in head_title:
        print(title)
```

<title>Sample Web Page</title>

## get\_text Function

The get\_text function extracts all the text from a tag. It can take in optional parameters to control the output.

### **Parameters:**

- separator (str): A string to be inserted between the pieces of text. Defaults to an empty string.
- strip (bool): If True, whitespace will be stripped from the text. Defaults to False.

### **Returns:**

• str: The extracted text.

## **Example:**

```
text = soup.get_text()
print(text)
This code will extract and print all the text from the HTML document.
```

```
In [ ]: text = soup.get_text()
    print(text)
```

```
Welcome to the Sample Web Page
This is an example paragraph with a class attribute.
This is another example paragraph with an ID attribute.
This is a nested paragraph inside a div.
Visit Example

Item 1
Item 2
Item 3
```

## attrs Function

The attrs function accesses the attributes of a tag. It returns a dictionary of the attributes and their values.

#### **Parameters:**

None

### **Returns:**

• dict: A dictionary of the attributes and their values.

## **Example:**

```
tag = soup.find('p')
print(tag.attrs)
This code will print the attributes of the first  tag.
```

## parent Function

The parent function navigates to the parent of a tag. It returns the parent tag of the current tag.

### **Parameters:**

None

### **Returns:**

• Tag: The parent tag of the current tag.

```
parent_tag = tag.parent
print(parent_tag)
This code will print the parent tag of the first  tag.
```

```
In [ ]: parent_tag = tag.parent
    print(parent_tag)
```

```
<body>
<h1>Welcome to the Sample Web Page</h1>
class="intro">This is an example paragraph with a class attribute.
This is another example paragraph with an ID attribute.
<div>
This is a nested paragraph inside a div.
<a href="https://example.com" title="Example Link">Visit Example</a>

Item 1
Item 2
Item 3

<p
```

## parents Function

The parents function navigates to all parents of a tag. It returns a generator of the parent tags of the current tag.

#### **Parameters:**

None

#### **Returns:**

• generator : A generator of the parent tags of the current tag.

### **Example:**

```
for parent in tag.parents:
    print(parent.name)
This code will print the names of all parent tags of the first  tag.
```

```
In [ ]: for parent in tag.parents:
    print(parent.name)

body
html
```

[document]
children Function

The children function navigates to the children of a tag. It returns a list of the children tags of the current tag.

### **Parameters:**

None

### **Returns:**

• list: A list of the children tags of the current tag.

```
body_tag = soup.body
for child in body_tag.children:
    print(child)
This code will print the children tags of the <body> tag.
```

```
In [ ]: body_tag = soup.body
    for child in body_tag.children:
        print(child)
```

```
<h1>Welcome to the Sample Web Page</h1>
This is an example paragraph with a class attribute.
This is another example paragraph with an ID attribute.
<div>
This is a nested paragraph inside a div.
<a href="https://example.com" title="Example Link">Visit Example</a>

Item 1
Item 2
Item 3
```

## descendants Function

The descendants function navigates to all descendants of a tag. It returns a generator of the descendant tags of the current tag.

#### **Parameters:**

None

#### **Returns:**

• generator: A generator of the descendant tags of the current tag.

```
for descendant in body_tag.descendants:
    print(descendant)

This code will print the descendant tags of the <body> tag.
```

```
In [ ]: for descendant in body_tag.descendants:
    print(descendant)
```

```
<h1>Welcome to the Sample Web Page</h1>
Welcome to the Sample Web Page
This is an example paragraph with a class attribute.
This is an example paragraph with a class attribute.
This is another example paragraph with an ID attribute.
This is another example paragraph with an ID attribute.
<div>
This is a nested paragraph inside a div.
<a href="https://example.com" title="Example Link">Visit Example</a>
<l
Item 1
Item 2
Item 3
</div>
This is a nested paragraph inside a div.
This is a nested paragraph inside a div.
<a href="https://example.com" title="Example Link">Visit Example</a>
Visit Example
<l
Item 1
Item 2
Item 3
Item 1
Item 1
Item 2
Item 2
Item 3
Item 3
```

## next\_sibling Function

The next\_sibling function navigates to the next sibling of a tag. It returns the next sibling tag of the current tag.

### **Parameters:**

None

### **Returns:**

• Tag: The next sibling tag of the current tag, or None if no sibling is found.

## **Example:**

print(next\_sibling)

```
next_sibling = tag.next_sibling
print(next_sibling)
This code will print the next sibling of the first  tag.
```

```
In [ ]: tag = soup.find('p')
tag

Out[ ]: This is an example paragraph with a class attribute.
In [ ]: next_sibling = tag.next_sibling
```

## previous\_sibling Function

The previous\_sibling function navigates to the previous sibling of a tag. It returns the previous sibling tag of the current tag.

#### **Parameters:**

None

#### **Returns:**

• Tag: The previous sibling tag of the current tag, or None if no sibling is found.

### **Example:**

```
previous_sibling = tag.previous_sibling
print(previous_sibling)
This code will print the previous sibling of the first  tag.
```

```
In [ ]: previous_sibling = tag.previous_sibling
    print(previous_sibling)
```

## next\_siblings Function

The next\_siblings function navigates to all next siblings of a tag. It returns a generator of the next sibling tags of the current tag.

#### **Parameters:**

None

#### **Returns:**

• generator: A generator of the next sibling tags of the current tag.

### **Example:**

```
for sibling in tag.next_siblings:
    print(sibling)
This code will print the next siblings of the first  tag.
```

```
In [ ]: for sibling in tag.next_siblings:
    print(sibling)
```

```
This is another example paragraph with an ID attribute.
```

```
<div>
This is a nested paragraph inside a div.
<a href="https://example.com" title="Example Link">Visit Example</a>

Item 1
Item 2
Item 3

</div>
```

## previous\_siblings Function

The previous\_siblings function navigates to all previous siblings of a tag. It returns a generator of the previous sibling tags of the current tag.

### **Parameters:**

None

## Returns:

• generator : A generator of the previous sibling tags of the current tag.

```
for sibling in tag.previous_siblings:
    print(sibling)
```

This code will print the previous siblings of the first tag.

```
In [ ]: for sibling in tag.previous_siblings:
    print(sibling)
```

<h1>Welcome to the Sample Web Page</h1>

## decompose Function

The decompose function removes a tag from the tree. It is useful for removing unwanted elements from the document.

#### **Parameters:**

None

#### **Returns:**

None

### **Example:**

```
tag.decompose()
print(soup.prettify())
```

This code will remove the first tag from the document and print the updated document.

```
In [ ]: tag.decompose()
       print(soup.prettify())
      <!DOCTYPE html>
      <html lang="en">
       <head>
        <meta charset="utf-8"/>
        <title>
         Sample Web Page
        </title>
       </head>
       <body>
        <h1>
         Welcome to the Sample Web Page
        </h1>
        This is another example paragraph with an ID attribute.
        <div>
         >
          This is a nested paragraph inside a div.
         <a href="https://example.com" title="Example Link">
          Visit Example
         </a>
         <l
          <
           Item 1
          <
           Item 2
          <1i>>
          Item 3
          </div>
       </body>
      </html>
```

```
new_tag Function
```

The new\_tag function creates a new tag. It is useful for dynamically adding new elements to the document.

### **Parameters:**

In [ ]: tag.get\_text()

Out[ ]: ''

• name (str): The name of the new tag.

• attrs (dict): A dictionary of attributes and their values to set on the new tag.

#### **Returns:**

Tag: The new tag.

#### **Example:**

```
new_tag = soup.new_tag('div', id='new-div', class_='new-class')
print(new_tag)
This code will create a new <div> tag with the attributes id='new-div' and class='new-class' and print it.

In []: new_tag = soup.new_tag('div', id='new-div', class_='new-class')
print(new_tag)
```

## find\_parents Function

<div class\_="new-class" id="new-div"></div>

The find\_parents function searches for all parent tags that match the given criteria. It takes in various parameters to specify the tags and their attributes.

#### **Parameters:**

- name (str): The name of the parent tag to search for.
- attrs (dict): A dictionary of attributes and their values to match.
- recursive (bool): If True, the search is recursive. Defaults to True.
- text (str or callable): A string or a callable to match the text within the parent tags.
- limit (int): The maximum number of parent tags to return. Defaults to None.

#### **Returns:**

• ResultSet: A list of parent tags that match the given criteria.

#### **Example:**

```
parent_tags = tag.find_parents('body')
for parent in parent_tags:
    print(parent)
This code will find and print all parent <body> tags of the first  tag.
```

```
In [ ]: parent_tags = tag.find_parents('body')
    for parent in parent_tags:
        print(parent)
```

## find\_parent Function

The find\_parent function searches for the first parent tag that matches the given criteria. It takes in various parameters to specify the tag and its attributes.

### **Parameters:**

- name (str): The name of the parent tag to search for.
- attrs (dict): A dictionary of attributes and their values to match.
- recursive (bool): If True, the search is recursive. Defaults to True.
- text (str or callable): A string or a callable to match the text within the parent tag.

### **Returns:**

• Tag: The first parent tag that matches the given criteria, or None if no match is found.

### **Example:**

None

```
print(parent_tag)
This code will find and print the first parent <body> tag of the first  tag.

parent_tag = tag.find_parent('body')
print(parent_tag)
```

## find\_next\_siblings Function

parent\_tag = tag.find\_parent('body')

The find\_next\_siblings function searches for all next sibling tags that match the given criteria. It takes in various parameters to specify the tags and their attributes.

#### **Parameters:**

- name (str): The name of the next sibling tags to search for.
- attrs (dict): A dictionary of attributes and their values to match.
- text (str or callable): A string or a callable to match the text within the next sibling tags.

#### **Returns:**

• ResultSet: A list of next sibling tags that match the given criteria.

#### **Example:**

```
next_siblings = tag.find_next_siblings('p')
for sibling in next_siblings:
    print(sibling)
This code will find and print all next sibling  tags of the first  tag.
```

```
In [ ]: next_siblings = tag.find_next_siblings('p')
    for sibling in next_siblings:
        print(sibling)
```

## find\_next\_sibling Function

The find\_next\_sibling function searches for the first next sibling tag that matches the given criteria. It takes in various parameters to specify the tag and its attributes.

#### **Parameters:**

- name (str): The name of the next sibling tag to search for.
- attrs (dict): A dictionary of attributes and their values to match.
- text (str or callable): A string or a callable to match the text within the next sibling tag.

#### **Returns:**

Tag: The first next sibling tag that matches the given criteria, or None if no match is found.

### **Example:**

```
next_sibling = tag.find_next_sibling('p')
print(next_sibling)
This code will find and print the first next sibling  tag of the first  tag.
```

```
In [ ]: next_sibling = tag.find_next_sibling('p')
print(next_sibling)
```

None

## find\_previous\_siblings Function

The find\_previous\_siblings function searches for all previous sibling tags that match the given criteria. It takes in various parameters to specify the tags and their attributes.

### **Parameters:**

- name (str): The name of the previous sibling tags to search for.
- attrs (dict): A dictionary of attributes and their values to match.
- text (str or callable): A string or a callable to match the text within the previous sibling tags.

### **Returns:**

ResultSet: A list of previous sibling tags that match the given criteria.

### **Example:**

```
previous_siblings = tag.find_previous_siblings('p')
for sibling in previous_siblings:
    print(sibling)
```

This code will find and print all previous sibling tags of the first tag.

```
In [ ]: previous_siblings = tag.find_previous_siblings('p')
    for sibling in previous_siblings:
        print(sibling)
```

## find\_previous\_sibling Function

The find\_previous\_sibling function searches for the first previous sibling tag that matches the given criteria. It takes in various parameters to specify the tag and its attributes.

#### **Parameters:**

- name (str): The name of the previous sibling tag to search for.
- attrs (dict): A dictionary of attributes and their values to match.
- text (str or callable): A string or a callable to match the text within the previous sibling tag.

#### **Returns:**

• Tag: The first previous sibling tag that matches the given criteria, or None if no match is found.

### **Example:**

```
previous_sibling = tag.find_previous_sibling('p')
print(previous_sibling)
This code will find and print the first previous sibling  tag of the first  tag.
```

```
In [ ]: previous_sibling = tag.find_previous_sibling('p')
    print(previous_sibling)
```

None

## find\_all\_next Function

The find\_all\_next function searches for all tags that match the given criteria after the current tag. It takes in various parameters to specify the tags and their attributes.

#### **Parameters:**

- name (str): The name of the tags to search for.
- attrs (dict): A dictionary of attributes and their values to match.
- text (str or callable): A string or a callable to match the text within the tags.
- limit (int): The maximum number of tags to return. Defaults to None.

### **Returns:**

• ResultSet: A list of tags that match the given criteria after the current tag.

### **Example:**

```
next_tags = tag.find_all_next('p')
for next_tag in next_tags:
    print(next_tag)
This code will find and print all  tags that come after the first  tag.
```

```
In [ ], most tage - tag find all most/[m])
```

```
In [ ]: next_tags = tag.find_all_next('p')
    for next_tag in next_tags:
        print(next_tag)
```

## find\_next Function

The find\_next function searches for the first tag that matches the given criteria after the current tag. It takes in various parameters to specify the tag and its attributes.

### **Parameters:**

- name (str): The name of the tag to search for.
- attrs (dict): A dictionary of attributes and their values to match.
- text (str or callable): A string or a callable to match the text within the tag.

### **Returns:**

• Tag: The first tag that matches the given criteria after the current tag, or None if no match is found.

```
next_tag = tag.find_next('p')
print(next_tag)
```

This code will find and print the first tag that comes after the first tag.

```
In [ ]: next_tag = tag.find_next('p')
        print(next tag)
```

None

## find\_all\_previous Function

The find\_all\_previous function searches for all tags that match the given criteria before the current tag. It takes in various parameters to specify the tags and their attributes.

#### **Parameters:**

- name (str): The name of the tags to search for.
- attrs (dict): A dictionary of attributes and their values to match.
- text (str or callable): A string or a callable to match the text within the tags.
- limit (int): The maximum number of tags to return. Defaults to None.

#### **Returns:**

ResultSet: A list of tags that match the given criteria before the current tag.

#### **Example:**

```
previous_tags = tag.find_all_previous('p')
for previous_tag in previous_tags:
    print(previous_tag)
This code will find and print all  tags that come before the first  tag.
```

```
In [ ]: previous_tags = tag.find_all_previous('p')
        for previous_tag in previous_tags:
            print(previous_tag)
```

## find\_previous Function

The find\_previous function searches for the first tag that matches the given criteria before the current tag. It takes in various parameters to specify the tag and its attributes.

### **Parameters:**

- name (str): The name of the tag to search for.
- attrs (dict): A dictionary of attributes and their values to match.
- text (str or callable): A string or a callable to match the text within the tag.

### **Returns:**

Tag: The first tag that matches the given criteria before the current tag, or None if no match is found.

### **Example:**

```
previous_tag = tag.find_previous('p')
print(previous_tag)
This code will find and print the first  tag that comes before the first  tag.
```

```
In [ ]: previous_tag = tag.find_previous('p')
        print(previous_tag)
```

None

## get Function

The get function retrieves an attribute value of a tag. It takes in the attribute name as a parameter.

### **Parameters:**

key (str): The name of the attribute.

### **Returns:**

str: The value of the attribute, or None if the attribute is not found.

```
attr_value = tag.get('id')
print(attr_value)
```

This code will retrieve and print the value of the id attribute of the first tag.

```
In [ ]: tag = soup.find('p')
  attr_value = tag.get('id')
  print(attr_value)
```

main

## replace\_with Function

The replace\_with function replaces a tag with another tag or string.

### **Parameters:**

• new\_tag (Tag or str): The new tag or string to replace the current tag with.

#### **Returns:**

• Tag: The new tag or string that replaced the current tag.

#### **Example:**

```
new_tag = soup.new_tag('p')
new_tag.string = 'A new paragraph.'
soup.body.replace_with(new_tag)
print(soup.prettify())
This code will replace the <body> tag with a new  tag containing the text 'A new paragraph.' and print the updated document.
```

```
In [ ]: new_tag = soup.new_tag('p')
        new_tag.string = 'A new paragraph.'
        soup.body.replace_with(new_tag)
        print(soup.prettify())
       <!DOCTYPE html>
       <html lang="en">
        <head>
         <meta charset="utf-8"/>
         <title>
         Sample Web Page
         </title>
        </head>
        >
         A new paragraph.
        </html>
```

## insert Function

The insert function inserts a new tag at a specified position within a parent tag.

### **Parameters:**

- position (int): The position at which to insert the new tag.
- new\_tag (Tag): The new tag to insert.

### **Returns:**

• Tag: The new tag that was inserted.

```
parent_tag = soup.head
parent_tag.insert(1, new_tag)
print(soup.prettify())
This code will insert the new <div> tag as the second child of the <head> tag and print the updated document.
```

```
In [ ]: parent_tag = soup.head
    parent_tag.insert(1, new_tag)
    print(soup.prettify())
```

```
<!DOCTYPE html>
<html lang="en">
  <head>

    A new paragraph.

    <meta charset="utf-8"/>
    <title>
    Sample Web Page
  </title>
  </head>
</html>
```

## append Function

The append function appends a new tag at the end of a parent tag.

#### **Parameters:**

new\_tag (Tag): The new tag to append.

#### **Returns:**

• Tag: The new tag that was appended.

### **Example:**

```
parent_tag = soup.head
parent_tag.append(new_tag)
print(soup.prettify())

This code will append the new <div> tag at the end of the <head> tag and print the updated document.
```

## string Function

The string function accesses the string within a tag. It returns the string content of the tag.

### **Parameters:**

None

### **Returns:**

• NavigableString: The string content of the tag, or None if the tag contains more than one string.

### **Example:**

```
tag_string = tag.string
print(tag_string)
This code will retrieve and print the string content of the first  tag.
```

```
In [ ]: tag_string = tag.string
    print(tag_string)
```

This is another example paragraph with an ID attribute.

## strings Function

The strings function accesses all strings within a tag. It returns a generator of the string contents of the tag.

### **Parameters:**

None

#### **Returns:**

• generator: A generator of the string contents of the tag.

### **Example:**

```
for string in tag.strings:
    print(string)
This code will retrieve and print all string contents of the first  tag.
```

```
In [ ]: for string in tag.strings:
    print(string)
```

This is another example paragraph with an ID attribute.

## stripped\_strings Function

The stripped\_strings function accesses all stripped strings within a tag. It returns a generator of the stripped string contents of the tag.

#### **Parameters:**

None

#### **Returns:**

• generator: A generator of the stripped string contents of the tag.

### **Example:**

```
for string in tag.stripped_strings:
    print(string)
This as do will retrieve and print all strings as at a tring as at a first trial.
```

This code will retrieve and print all stripped string contents of the first tag.

```
In [ ]: for string in tag.stripped_strings:
    print(string)
```

This is another example paragraph with an ID attribute.

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