

Módulo de Programação Python

Trilha Python - Aula 39/40: Web Scraping: Requests, recursos avançados



Pegando os dados direto da Internet, continuação

Na aula anterior vimos como usar o **Requests** para implementar códigos que intergem com servidores **WEB** utilizando o protocolo **HTTP**.

Entretanto o resultado obtido, utilizando apenas o **Requests**, é bastante limitado. O atributo `text` dos objetos da classe `Response` fornecem uma string (`str`) que precisaria de um processamento mais detalhado para conseguir alguma informação útil.

Hoje vamos utilizar alguns pacotes adicionais para extrair informações relevantes destas requisições.

Uma pesquisa simples no google

Se for realizada uma pesquisa no [Google \(www.google.com\)](https://www.google.com) por um termo qualquer podemos entender melhor como este tipo de requisição funciona.

Uma vez requisitada a pesquisa pelo *browser*, o mesmo nos direciona a uma página com o seguinte endereço.

```
https://www.google.com/search?
q=python+requests+get&client=safari&sca_esv=7c657d381c876d41&source:
uhrg7eF1PsoSKaKiVZG5y&udm=&oq=python+requests&gs_lp=Egdnd3Mtd2l6Ig9\
wiz

&sca_esv=ce89b3ae00b5c8b0&sxsrf=ACQVn0-
fDr6NKdAy5EoVITYhaoyK7fMV2w%3A1707306648321&source=hp&ei=mG7DZdXVEMI
vtmwIh82lBpPH9G&udm=&oq=python+request&gs_lp=Egdnd3Mtd2l6Ig5weXRob:
AEBqAIKwgIHECMY6gIYJ8ICDhAAGIAEGIoFGLEDGIMBwgILEC4YgAQYsQMYgwHCAGsQI
wiz
```

Repare que este endereço tem uma serie de informações entre as quais pode ser identificado, por exemplo, os termos pesquisados e o navegador desde onde a requisição foi realizada.

Tente colocar no seu *browser* apenas `https://www.google.com/search?q=python+requests+get` e veja o que acontece.

Podemos então tentar fazer uso do **Requests** para fazer a mesma requisição.

```
In [1]: 1 import requests
        2
        3 url = 'https://www.google.com/search?q=python+requests+get'
        4
        5 response = requests.get(url)
        6
        7 # ou poderia ser
        8
        9 #url = 'https://www.google.com/search'
       10 #params = {'q': 'python requests get'}
       11 #response = requests.get(url, params=params)
       12
       13 print(response.status_code)
```

200

Agora podemos dar uma revisada no objeto `Response` que foi retornado com sucesso.

```
1 print(response.text)
```

```
<!doctype html><html lang="pt-BR"><head><meta charset="UTF-8"><meta content="AmFMpMe9tdD7tYHZ5DTQG/aRAYYkWIQDI/+Hwz5Y70agTtDB3LA01RMKTpQ8jCqukCmZ7HDuCpEwx7WwAiFBywoAAAByeyJvcmlnaW4iOiJodHRwczovL2dvb2dsZS5jb20uYnI6NDQzIiwiZmVhdHVyZSI6IkxvbmdBbmltYXRpb25GcmFtZVRpbWluZyIsImV4cGlyeSI6MTcwOTY4MzE5OSwiaXNTdWJkb21haW4iOnRydWV9" http-equiv="origin-trial"><meta content="/images/branding/googleg/1x/googleg_standard_color_128dp.png" itemprop="image"><title>python requests get - Pesquisa Google</title><script nonce="KbHUfv0-VhYTttnB8YsAkQ">(function(){document.documentElement.addEventListener("submit",function(b){var a;if(a=b.target){var c=a.getAttribute("data-submitfalse");a="1"===c||"q"===c&&!a.elements.q.value?!0:!1}else a=!1;a&&(b.preventDefault(),b.stopPropagation())},!0);document.documentElement.addEventListener("click",function(b){var a;a={for(a=b.target;a&&a!==document.documentElement;a=a.parentElement)if("A"===a.tagName){a="1"===a.getAttribute("data-nohref");break a}a=!1}a&&b.preventDefault(),!0);}).call(this);(function(){var a=window.performance;window.start=Date.now();a={var b=window;if(a){var c=a.timing;if(c){var d=c.navigationStart,f=c.responseStart;if(f>d&&f<=window.start){window.start=f;b.start=f;d=break a}a=new f(b.start,Mat
```

```
1 pagina = response.text
2 pagina.find('<head>')
```

Out[3]: 34

```
1 pagina.find( '</head>' )
```

Out[4]: 6188

```
1 print(pagina[34:6195])
```

```
<head><meta charset="UTF-8"><meta content="AmFMpMe9tdD7tYHZ5DTQG/a
RAYYkWlQDI/+Hwz5Y70agTtDB3LA01RMKTpQ8jCqukCmZ7HDuCpEwx7WwAiFBYwoAA
AByeyJvcmlnaW4iOiJodHRwczovL2d2b2dsZS5jb20uYnI6NDQzIiwiaWZmVhdHVyZSI6
IkkxvbmdbBmltYXRpb25GcmFtZVRpbWluZyIsImV4cGlyeSI6MTcwOTY4MzE5OSwia
XNTdWJkb21haW4iOnRydWV9" http-equiv="origin-trial"><meta content
="/images/branding/googleg/1x/googleg_standard_color_128dp.png" it
empnop="image"><title>python requests get - Pesquisa Google</title
><script nonce="KbHUfv0-VhYTttnB8YsAkQ">(function(){
document.documentElement.addEventListener("submit",function(b){var
a;if(a=b.target){var c=a.getAttribute("data-submitfalse");a="1"===
c||"q"===c&&!a.elements.q.value?!0:!1}else a=!1;a&&(b.preventDefault(),
b.stopPropagation())},!0);document.documentElement.addEventListener("click",
function(b){var a;a:{for(a=b.target;a&&a!==document.documentElement;a=a.parentElement)if("A"===a.tagName){a="1"===a.
getAttribute("data-nohref");break a}a=!1}a&&b.preventDefault(),!0);}).call(this);(function(){var a=window.performance;window.start
=Date.now();a:{var b=window;if(a){var c=a.timing;if(c){var d=c.navigationStart,f=c.responseStart;if(f>d&&f<=window.start){window.sta
```

```

rt=f;b.wsrt=f-d;break a}}a.now&&(b.wsrt=Math.floor(a.now()))}}wind
ow.google=window.google||{};var h=function(g){g&&g.target.setAttri
bute("data-impl",String(Date.now()))};document.documentElement.addE
ventListener("load",h,!0);google.rglh=function(){document.document
Element.removeEventListener("load",h,!0)};}).call(this);(functio
n(){window.google.erd={jsr:1,bv:1949,de:true};})();(function(){var
sdo=false;var mei=10;
var h=this||self;var k,l=null!=(k=h.mei)?k:1,n,p=null!=(n=h.sdo)?
n:!0,q=0,r,t=google.erd,v=t.jsr;google.ml=function(a,b,d,m,e){e=vo
id 0===e?2:e;b&&(r=a&&a.message);void 0===d&&(d={});d.cad="ple_"+g
oogle.ple+".aple_"+google.aple;if(google.dl)return google.dl(a,e,
d),null;b=d;if(0>v){window.console&&console.error(a,b);if(-2===v)t
hrow a;b=!1}else b=!a||!a.message||"Error loading script"===a.mess
age||q>=l&&!m?!1:!0;if(!b)return null;q++;d=d||{};b=encodeURIComponent
;var c="/gen_204?atyp=i&ei="+b(google.kEI);google.kEXPI&&(c+
="&jexpid="+b(google.kEXPI));c+="&srcpg="+b(google.sn)+"&jsr="+b(
t.jsr)+"&bver="+
b(t.bv);var f=a.lineNumber;void 0!==f&&(c+="&line="+f);var g=a.fil
eName;g&&(0<g.indexOf("-extension:/")&&(e=3),c+="&script="+b(g),
f&&g===window.location.href&&(f=document.documentElement.outerHTM
L.split("\n")[f],c+="&cad="+b(f?f.substring(0,300):"No script foun
d."));google.ple&&1===google.ple&&(e=2);c+="&jsel="+e;for(var u i
n d)c+="&",c+=b(u),c+="=",c+=b(d[u]);c+="&msg="+b(a.name+": "+a.
message);c+="&jsst="+b(a.stack||"N/A");12288<=c.length&&(c=c.subs
tr(0,12288));a=c;m||google.log(0,"",a);return a};window.onerror=fu
nction(a,b,d,m,e){r!==a&&(a=e instanceof Error?e:Error(a),void 0===
d||"lineNumber"in a||(a.lineNumber=d),void 0===b||"fileName"in a|
|(a.fileName=b),google.ml(a,!1,void 0,!1,"SyntaxError"===a.name||"
SyntaxError"===a.message.substring(0,11)||-1!==a.message.indexOf("
Script error")?3:0));r=null;p&&q>=l&&(window.onerror=null)};})();(
function(){var c=[],e=0;window.ping=function(b){-1===b.indexOf("&z
x")&&(b+="&zx="+Date.now());var a=new Image,d=e++;c[d]=a;a.onerror
=a.onload=a.onabort=function(){delete c[d];a.src=b};}).call(thi
s);</script><style>a{color:#1a0dab;text-decoration:none;tap-highli
ght-color:rgba(0,0,0,.10)}a:visited{color:#4b11a8}a:hover{text-dec
oration:underline}img{border:0}html{font-family:arial,sans-serif;f
ont-size:14px;line-height:20px;text-size-adjust:100%;color:#3c404
3;word-wrap:break-word;background-color:#fff}.bRsWnc{background-co
lor:#fff;border-top:1px solid #dadce0;height:39px;overflow:hidde
n}.N6RWV{height:51px;overflow-scrolling:touch;overflow-x:auto;over
flow-y:hidden}.Uv67qb{box-pack:justify;font-size:12px;line-height:
37px;justify-content:space-between;justify-content:space-between}.
Uv67qb a,.Uv67qb span{color:#70757a;display:block;flex:none;paddin
g:0 16px;text-align:center;text-transform:uppercase;}span.OXXup{bo
rder-bottom:2px solid #4285f4;color:#4285f4;font-weight:bold}a.eZt
8xd:visited{color:#70757a}.FElbsf{border-left:1px solid rgba(0,0,
0,.12)}header article{overflow:visible}.Pg70bf{height:39px;displa
y:box;display:flex;display:flex;width:100%}.H0PQec{position:relati
ve;flex:1}.sbc{display:flex;width:100%}.Pg70bf input{margin:2px 4p
x 2px 8px;}.x{width:26px;color:#70757a;font:27px/38px arial, sans-
serif;line-height:40px;}#qdClwb{flex:0 0 auto;width:39px;height:39
px;border-bottom:0;padding:0;border-top-right-radius:8px;background
d-color:#1a73e8;border:1px solid #1a73e8;background-image:url(dat
a:image/gif;base64,R0lGODdhJAAjAPIHA0Dr/nCk+MPZ/FmV96zK+/7+/5K5+kq

```

```
L9iwAAAAAJAAjAEADani63P4wykmbKcQRXDscQAEMXmmeaLQVLCukzyC09AjfeK7v/
MAajACLhPMVAgwjsUcEiZa8xgAYrVqv2Kx2iwsIAAABknfBBAKrTE4IcMyot8ur8da
tqIbQfJdnAfo2WE6BV05wXIiJigkA0w==);}.sc{font-size:16px;position:ab
solute;top:39px;left:0;right:0;box-shadow:0 2px 5px rgba(0,0,0,.
2);z-index:2;background-color:#fff}.sc>div{padding:10px 10px;paddi
ng-left:16px;padding-left:14px;border-top:1px solid #dfe1e5;}.scs{
background-color:#fafafa;}.noHIxc{display:block;font-size:16px;pad
ding:0 0 0 8px;flex:1;height:35px;outline:none;border:none;width:1
00%;-webkit-tap-highlight-color:rgba(0,0,0,0);overflow:hidden;}.sb
c input[type=text]{background:none}.bz1lBb{background-color:#fff;b
order-radius:8px 8px 0 0;box-shadow:0 0 0 1px #dfe1e5;margin-top:2
4px;}.KP7LCb{border-radius:0 0 8px 8px;box-shadow:0px 1px 0px 1px
#dfe1e5;margin-bottom:30px;overflow:hidden}html{background-color:#
fff}body{margin:0 auto 0 156px;max-width:652px;min-width:652px;pad
ding:0 8px}.c0l4Id{letter-spacing:-1px;text-align:center;font:22pt
Futura, Arial, sans-serif;height:37px;font-smoothing:antialiased;p
adding:32px 28px 0 24px;position:absolute;left:0;top:0}.c0l4Id spa
n{display:inline-block}.V6gwVd{color:#4285f4}.iWkuvd{color:#ea433
5}.cDrQ7{color:#fcc934}.ntlR9{color:#34a853}.tJ3Myc{-webkit-transf
orm:rotate(-20deg);position:relative;left:-1px;display:inline-bloc
k}footer{text-align:center;margin-top:18px}footer a,footer a:visit
ed,.smiUbb{color:#70757a}.xeDNfc{margin:0 13px;display:inline-bloc
k}#E0lPnc{margin-top:36px}#E0lPnc>div{margin:20px}.Srfpq{color:#70
757a}</style></head>
```

```
In [6]: 1 meuHead = pagina[34:6195]
        2 meuHead.find('<title>')
```

Out[6]: 409

```
In [7]: 1 meuHead.find('</title>')
        2
```

Out[7]: 453

```
In [8]: 1 print(meuHead[409:461])
```

```
<title>python requests get - Pesquisa Google</title>
```

Complexo!!!

Vamos então utilizar um outro recurso importante: o pacote **Beautiful Soup**

Beautiful Soup

Beautiful Soup é uma biblioteca **Python** para extrair dados de arquivos **HTML** e **XML**. Uma documentação detalhada deste pacote pode ser encontrada [aqui](https://www.crummy.com/software/BeautifulSoup/bs4/doc/) (<https://www.crummy.com/software/BeautifulSoup/bs4/doc/>).

No desenvolvimento web, "sopa de tags" (*tag soup*) é um pejorativo para o código **HTML** sintaticamente ou estruturalmente incorreto escrito para uma página web. Como os navegadores da Web têm historicamente tratado erros estruturais ou de sintaxe em **HTML** com tolerância, tem havido pouca pressão para que os desenvolvedores da Web sigam os padrões publicados e, portanto, há uma necessidade de todas as implementações de navegador fornecerem mecanismos para lidar com o aparecimento de "sopa de tags", aceitando e corrigindo sintaxe e estrutura inválidas sempre que possível.

Vamos mostrar utilizando exemplos algumas funcionalidades deste recurso.

```
In [9]: 1 #pip install bs4
```

```
In [10]: 1 from bs4 import BeautifulSoup
          2
          3 busca = BeautifulSoup(response.text, 'html.parser')
          4 type(busca)
```

```
Out[10]: bs4.BeautifulSoup
```

In [11]:

1 print(busca.prettify())

```
<!DOCTYPE html>
<html lang="pt-BR">
  <head>
    <meta charset="utf-8"/>
    <meta content="AmFMpMe9tdD7tYHZ5DTQG/aRAYYkWIQDI/+Hwz5Y70agTtD
B3LA01RMKTPQ8jCqukCmZ7HDuCPewx7WwAiFBywoAAABYeyJvcmlnaW4iOiJodHR
wczovL2dwb2dsZS5jb20uYnI6NDQzIiwzMVhdHVyZSI6IkxvbmdBbmltYXRpb25
GcmFtZVRpbWluZyIsImV4cGlyeSI6MTcwOTY4MzE5OSwiaXNTdWJkb21haW4iOnR
ydWV9" http-equiv="origin-trial"/>
    <meta content="/images/branding/googleg/1x/googleg_standard_co
lor_128dp.png" itemprop="image"/>
    <title>
      python requests get - Pesquisa Google
    </title>
    <script nonce="KbHUfv0-VhYTttnB8YsAkQ">
      (function(){
document.documentElement.addEventListener("submit",function(b){v
ar a;if(a=b.target){var c=a.getAttribute("data-submitfalse");a="
1"===c||"q"===c&!a.elements.q.value?!0:!1}else a=!1;a&&(b.preve
ntDefault(),b.stopPropogation())})})(document.documentElement)
```

Antes de continuar vamos dar uma olhada em que significam as marcações utilizadas neste documentos

Revisão rápida de HTML

HTML significa *HyperText Markup Language* procurar definição mais apropriada para colocar aqui.

Os *tags* utilizados em **HTML** são delimitados por `<` e `/ >` e são usados para descrever os elementos por eles delimitados.

Os tags mas utilizados estão descritos na tabela a seguir:

Tag	Tipo	O que ele faz
<code><p> </p></code>	HTML Text Tags	Paragraph
<code><h1> </h1></code>	HTML Text Tags	Heading 1
<code><h2> </h2></code>	HTML Text Tags	Heading 2
<code><h3> </h3></code>	HTML Text Tags	Heading 3
<code><h4> </h4></code>	HTML Text Tags	Heading 4
<code><h5> </h5></code>	HTML Text Tags	Heading 5
<code><h6> </h6></code>	HTML Text Tags	Heading 6
<code></code>	HTML Text Tags	Strong
<code></code>	HTML Text Tags	Emphasis

<abbr>	HTML Text Tags	Abbreviation
<address>	HTML Text Tags	Contact Information
<bdo>	HTML Text Tags	Override The Current Text Direction
<blockquote>	HTML Text Tags	Content From Another Source
<cite>	HTML Text Tags	Title Of The Work, Book, Website
<q>	HTML Text Tags	Inline Quotation
<code>	HTML Text Tags	Display A Part Of Programming Code
<ins>	HTML Text Tags	Text Inserted
	HTML Text Tags	Text Deleted From The Document
<dfn>	HTML Text Tags	Term Defined Within A Sentence/Phrase
<kbd>	HTML Text Tags	Keyboard Input
<pre>	HTML Text Tags	Preformatted Text
<samp>	HTML Text Tags	Sample Output Of A Computer Program
<var>	HTML Text Tags	Variable Name Used In Mathematical Or Programming Context
 	HTML Text Tags	Single Line Break
<div>	HTML Text Tags	Division
<a>	HTML Link Tags	Anchor Tag For A Link
<base>	HTML Link Tags	Base Url For All Relative Url Within The Document
	HTML Image And Object Tags	Image
<area>	HTML Image And Object Tags	Area Of An Image Map
<map>	HTML Image And Object Tags	Image Map
<param>	HTML Image And Object Tags	Parameter For An Element
<object>	HTML Image And Object Tags	Embed An Object
	HTML List Tags	Unordered List
	HTML List Tags	Ordered List
	HTML List Tags	List
<dl>	HTML List Tags	Description List
<dt>	HTML List Tags	Term In Description List
<dd>	HTML List Tags	Definition/Description Of A Term In Description List

Veja um exemplo do uso de alguns destes tags na pasta de exemplos.

Navegando com Soup

As tags podem conter strings e mais tags. Esses elementos são os filhos da tag.

Beautiful Soup fornece muitos atributos diferentes para navegar e iterar nos filhos de uma tag.

Observe que as strings Beautiful Soup não suportam nenhum desses atributos, porque uma string não pode ter filhos.

In [12]: `1 busca.find('head').prettify()`

Out [12]:

```
'<head>\n <meta charset="utf-8"/>\n <meta content="AmFMpMe9tdD7tYH
Z5DTQG/aRAYYkWIQDI/+Hwz5Y70agTtDB3LA01RMKTPQ8jCqukCmZ7HDuCpEwx7WwA
iFBywoAAAByeYJvcmlnaW4iOiJodHRwczovL2dvd2dsZS5jb20uYnI6NDQzIiwzMV
hdHVyZSI6IkxvbmdBbmltYXRpb25GcmFtZVRpbWluZyIsImV4cGlyeSI6MTcw0TY4M
zE50SwiaXNTdWJkb21haW4iOnRydWV9" http-equiv="origin-trial"/>\n <me
ta content="/images/branding/googleg/1x/googleg_standard_color_128
dp.png" itemprop="image"/>\n <title>\n python requests get - Pesq
uisa Google\n </title>\n <script nonce="KbHUfv0-VhYTtnB8YsAkQ">\n
(function(){\ndocument.documentElement.addEventListener("submit",f
unction(b){var a;if(a=b.target){var c=a.getAttribute("data-submitf
alse");a="1"===c||"q"===c&&!a.elements.q.value?!0:!1}else a=!1;a&&
(b.preventDefault(),b.stopPropagation())},!0);document.documentEle
ment.addEventListener("click",function(b){var a;a={for(a=b.target;
a&&a!==document.documentElement;a=a.parentElement)if("A"===a.tagNa
me){a="1"===a.getAttribute("data-nohref");break a}a=!1}a&&b.preven
tDefault()},!0);}).call(this);(function(){var a=window.performanc
e;window.start=Date.now();a={var b=window;if(a){var c=a.timing;if(
c){var d=c.navigationStart,f=c.responseStart;if(f>d&&f<=window.sta
rt){window.start=f;b.wsrt=f-d;break a}}a.now&&(b.wsrt=Math.floor(
a.now()))}}window.google=window.google||{};var h=function(g){g&&g.
target.setAttribute("data-impl",String(Date.now()))};document.docum
entElement.addEventListener("load",h,!0);google.rglh=function(){do
cument.documentElement.removeEventListener("load",h,!0);}).call(t
his);(function(){window.google.erd={jsr:1,bv:1949,de:true};})(f
unction(){var sdo=false;var mei=10;\nvar h=this||self;var k,l=nul
l!=(k=h.mei)?k:1,n,p=null!=(n=h.sdo)?n:!0,q=0,r,t=google.erd,v=t.j
sr;google.ml=function(a,b,d,m,e){e=void 0===e?2:e;b&&(r=a&&a.messa
ge);void 0===d&&(d={});d.cad="ple_"+google.ple+".aple_"+google.apl
e;if(google.dl)return google.dl(a,e,d),null;b=d;if(0>v){window.con
sole&&console.error(a,b);if(-2===v)throw a;b=!1}else b=!a||!a.messa
ge||"Error loading script"===a.message||q>=l&&!m?!1:!0;if(!b)retu
rn null;q++;d=d||{};b=encodeURIComponent;var c="/gen_204?atyp=i&ei
="+b(google.kEI);google.kEXPI&&(c+="&jexpid="+b(google.kEXPI));c+
="&srcpg="+b(google.sn)+"&jsr="+b(t.jsr)+"&bver="+\nb(t.bv);var f=
a.lineNumber;void 0!==f&&(c+="&line="+f);var g=a.fileName;g&&(0<g.
indexOf("-extension:/")&&(e=3),c+="&script="+b(g),f&&g===window.lo
cation.href&&(f=document.documentElement.outerHTML.split("\n")[
f],c+="&cad="+b(f?f.substring(0,300):"No script found."));google.
ple&&1===google.ple&&(e=2);c+="&jssel="+e;for(var u in d)c+="&",c+=
```

```

b(u),c+="=",c+=b(d[u]);c=c+"&msg="+b(a.name+": "+a.message);c=c
+"&jsst="+b(a.stack||"N/A");12288<=c.length&&(c=c.substr(0,1228
8));a=c;m||google.log(0,"",a);return a};window.onerror=function(a,
b,d,m,e){r!==a&&(a=e instanceof Error?e:Error(a),void 0===d||"line
Number"in a||(a.lineNumber=d),void 0===b||"fileName"in a||(a.fileN
ame=b),google.ml(a,!1,void 0,!1,"SyntaxError"===a.name||"SyntaxErr
or"===a.message.substring(0,11)||-1!==a.message.indexOf("Script er
ror")?3:0));r=null;p&&q>=l&&(window.onerror=null)};})();(functio
n(){var c=[],e=0;window.ping=function(b){-1==b.indexOf("&zx")&&(b+
="&zx="+Date.now());var a=new Image,d=e++;c[d]=a;a.onerror=a.onloa
d=a.onabort=function(){delete c[d];a.src=b}}).call(this);\n </sc
ript>\n <style>\n a{color:#1a0dab;text-decoration:none;tap-highli
ght-color:rgba(0,0,0,.10)}a:visited{color:#4b11a8}a:hover{text-dec
oration:underline}img{border:0}html{font-family:arial,sans-serif;f
ont-size:14px;line-height:20px;text-size-adjust:100%;color:#3c404
3;word-wrap:break-word;background-color:#fff}.bRSWnc{background-co
lor:#fff;border-top:1px solid #dadce0;height:39px;overflow:hidde
n}.N6RWV{height:51px;overflow-scrolling:touch;overflow-x:auto;over
flow-y:hidden}.Uv67qb{box-pack:justify;font-size:12px;line-height:
37px;justify-content:space-between;justify-content:space-between}.
Uv67qb a,.Uv67qb span{color:#70757a;display:block;flex:none;paddin
g:0 16px;text-align:center;text-transform:uppercase;}span.OXXup{bo
rder-bottom:2px solid #4285f4;color:#4285f4;font-weight:bold}a.eZt
8xd:visited{color:#70757a}.FElbsf{border-left:1px solid rgba(0,0,
0,.12)}header article{overflow:visible}.Pg70bf{height:39px;displa
y:box;display:flex;display:flex;width:100%}.H0PQec{position:relati
ve;flex:1}.sbc{display:flex;width:100%}.Pg70bf input{margin:2px 4p
x 2px 8px;}.x{width:26px;color:#70757a;font:27px/38px arial, sans-
serif;line-height:40px;}.#qdClwb{flex:0 0 auto;width:39px;height:39
px;border-bottom:0;padding:0;border-top-right-radius:8px;background
d-color:#1a73e8;border:1px solid #1a73e8;background-image:url(dat
a:image/gif;base64,R0lGODdhJAAjAPIHAODr/nCk+MPZ/FmV96zK+/7+/5K5+kq
L9iwAAAAAJAAjAEADani63P4wykmbKcQRXDscQAEMXmmeaLQVLCukzyC09AjfeK7v/
MAajACLhPMVAgwjsUcEiZa8xgAYrVqv2Kx2iwsIAAABknfBBAKrTE4IcMyot8ur8da
tqIbQfJdnAfo2WE6BV05wXIiJigkA0w==);}.sc{font-size:16px;position:ab
solute;top:39px;left:0;right:0;box-shadow:0 2px 5px rgba(0,0,0,.
2);z-index:2;background-color:#fff}.sc>div{padding:10px 10px;paddi
ng-left:16px;padding-left:14px;border-top:1px solid #dfe1e5;}.scs{
background-color:#fafafa;}.noHIxc{display:block;font-size:16px;pad
ding:0 0 0 8px;flex:1;height:35px;outline:none;border:none;width:1
00%;-webkit-tap-highlight-color:rgba(0,0,0,0);overflow:hidden;}.sb
c input[type=text]{background:none}.bz1lBb{background-color:#fff;b
order-radius:8px 8px 0 0;box-shadow:0 0 0 1px #dfe1e5;margin-top:2
4px;}.KP7LCb{border-radius:0 0 8px 8px;box-shadow:0px 1px 0px 1px
#dfe1e5;margin-bottom:30px;overflow:hidden}html{background-color:#
fff}body{margin:0 auto 0 156px;max-width:652px;min-width:652px;pad
ding:0 8px}.c0l4Id{letter-spacing:-1px;text-align:center;font:22pt
Futura, Arial, sans-serif;height:37px;font-smoothing:antialiased;p
adding:32px 28px 0 24px;position:absolute;left:0;top:0}.c0l4Id spa
n{display:inline-block}.V6gwVd{color:#4285f4}.iWkuvd{color:#ea433
5}.cDrQ7{color:#fcc934}.ntlR9{color:#34a853}.tJ3Myc{-webkit-transf
orm:rotate(-20deg);position:relative;left:-1px;display:inline-bloc
k}footer{text-align:center;margin-top:18px}footer a,footer a:visit
ed,.smiUbb{color:#70757a}.xeDNfc{margin:0 13px;display:inline-bloc

```

```
k}#E0lPnc{margin-top:36px}#E0lPnc>div{margin:20px}.Srfpq{color:#70757a}\n </style>\n</head>\n'
```

```
In [13]: 1 busca.find('a').prettify()
```

```
Out[13]: '<a href="/?sa=X&ved=0ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQ0wgC">\n<span class="V6gwVd">\n  G\n </span>\n <span class="iWkuvd">\n  o\n </span>\n <span class="cDrQ7">\n  o\n </span>\n <span class="V6gwVd">\n  g\n </span>\n <span class="ntlR9">\n  l\n </span>\n <span class="iWkuvd tJ3MyC">\n  e\n </span>\n</a>\n'
```

```
In [14]: 1 links = busca.find_all('a')
2 for link in links:
3     #print(link.prettify())
4     print(link['href'])
```

```
/?sa=X&ved=0ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQ0wgC
/search?q=python+requests+get&sca_esv=8d31dcc08d104f69&ie=UTF-8&gbv=1&sei=SJfDZbHwDaTQ1sQPzritqAM
/search?q=python+requests+get&sca_esv=8d31dcc08d104f69&ie=UTF-8&tbm=vid&source=lnms&sa=X&ved=0ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQ_AUIBi
gB
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ygC
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/url?q=https://maps.google.com/maps%3Fq%3Dpython%2Brequests%2Bget%26um%3D1%26ie%3DUTF-8&opi=89978449&sa=U&ved=0ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQiaAMCAkoBA&usg=A0vVaw2hN0vU9z49uWh9YgSKp5SV
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gF
/search?q=python+requests+get&sca_esv=8d31dcc08d104f69&ie=UTF-8&tbm=bks&source=lnms&sa=X&ved=0ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQ_AUICy
gG
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w
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A
/search?q=python+requests+get&sca_esv=8d31dcc08d104f69&ie=UTF-8&source=lns&tbs=qdr:w&sa=X&ved=0ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQpwUIE
Q
/search?q=python+requests+get&sca_esv=8d31dcc08d104f69&ie=UTF-8&so
```

```

urce=ln&tbs=qdr:m&sa=X&ved=0ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQpwUIE
g
/search?q=python+requests+get&sca_esv=8d31dcc08d104f69&ie=UTF-8&so
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/url?q=https://www.google.com/preferences%3Fhl%3Dpt-BR&sa=U&ved=2a
hUKEwixtIfZu5mEAXUkqJUCHU5cCzUQtwF6BAgAEAI&usg=A0vVaw119mzICZACJWX
AaX-5Jy27
/url?q=https://www.w3schools.com/python/ref_requests_get.asp&sa=U&
ved=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQFnoECAQQA&usg=A0vVaw1Tu315yM
yiJSV_JtPKdHkV
/url?q=https://requests.readthedocs.io/en/master/user/quickstart/&
sa=U&ved=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQFnoECAsQA&usg=A0vVaw2yi
P_Bm5xPSc1-KF3zXCWU
/url?q=https://www.digitalocean.com/community/tutorials/how-to-get
-started-with-the-requests-library-in-python&sa=U&ved=2ahUKEwixtIf
Zu5mEAXUkqJUCHU5cCzUQFnoECAoQA&usg=A0vVaw3Jn5N8UevB2bHtQGx7IxLY
/url?q=https://datagy.io/python-requests-get-request/&sa=U&ved=2ah
UKEwixtIfZu5mEAXUkqJUCHU5cCzUQFnoECAUQA&usg=A0vVaw0mM0f9nuQkqVzSS
rIyVzSD
/url?q=https://www.w3schools.com/python/module_requests.asp&sa=U&v
ed=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQFnoECAkQA&usg=A0vVaw0CYJe-ktT
Op40Le-V0HtaR
/url?q=https://www.datacamp.com/tutorial/making-http-requests-in-p
ython&sa=U&ved=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQFnoECAEQAg&usg=A0v
Vaw1san2D7QSOgumxAI4KRcN7
/url?q=https://pypi.org/project/requests/&sa=U&ved=2ahUKEwixtIfZu5
mEAXUkqJUCHU5cCzUQFnoECAMQA&usg=A0vVaw1hkJqfvhEC8EbkckHTL70R
/url?q=https://www.geeksforgeeks.org/get-method-python-requests/&s
a=U&ved=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQFnoECAYQA&usg=A0vVaw3a-w
wREfJhnosHA53EEuxK
/url?q=http://requests-docs-pt.readthedocs.org/pt_BR/latest/user/q
uickstart.html&sa=U&ved=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQFnoECAIQA
g&usg=A0vVaw0euQr7cDR9quXL1MKMi2Q
/url?q=https://www.covildodev.com.br/artigo/requests-python&sa=U&v
ed=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQFnoECACQA&usg=A0vVaw0jjFeFykZ
PhIxaShLulUuB
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ON&sa=X&ved=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQ1QJ6BAgIEAI
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aders&sa=X&ved=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQ1QJ6BAgIEAQ
/search?sca_esv=8d31dcc08d104f69&ie=UTF-8&q=Python+requests+get+pa
rams&sa=X&ved=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQ1QJ6BAgIEAY
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a=X&ved=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQ1QJ6BAgIEAg
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sponse+body&sa=X&ved=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQ1QJ6BAgIEAo
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ample&sa=X&ved=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQ1QJ6BAgIEAw
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```

```

ntation&sa=X&ved=2ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQ1QJ6BAgIEA4
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=SJfDZbHwDaTQ1sQPzritqAM&start=10&sa=N
/url?q=https://support.google.com/websearch%3Fp%3Dws_settings_loca
tion%26hl%3Dpt-BR&opi=89978449&sa=U&ved=0ahUKEwixtIfZu5mEAXUkqJUCH
U5cCzUQty4IWg&usg=A0vVaw0lfKnaEzQ043PFIPLbeeyg
/url?q=https://accounts.google.com/ServiceLogin%3Fcontinue%3Dhttp
s://www.google.com/search%253Fq%253Dpython%252Brequests%252Bget%26
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es?hl=pt-BR&fg=1&sa=X&ved=0ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQ5fUCCF
w)
https://policies.google.com/privacy?hl=pt-BR&fg=1 (https://policie
s.google.com/privacy?hl=pt-BR&fg=1)
https://policies.google.com/terms?hl=pt-BR&fg=1 (https://policies.
google.com/terms?hl=pt-BR&fg=1)
/setprefs?hl=pt-BR&prev=https://www.google.com/search?q%3Dpython%2
Brequests%2Bget%26pccc%3D1&sig=0_uS45XejPxMY_esbcR8TlCgFcXw4%3D&cs
=2&sa=X&ved=0ahUKEwixtIfZu5mEAXUkqJUCHU5cCzUQjCajCF0

```

```

In [15]: 1 # ou simplesmente
          2 busca.head.prettify()

```

```

Out[15]: '<head>\n <meta charset="utf-8"/>\n <meta content="AmFMpMe9tdD7tYH
Z5DTQG/aRAYYkWIQDI/+Hwz5Y70agTtDB3LA01RMKTPQ8jCqukCmZ7HDuCPewx7WwA
iFBywoAAAByeYJvcmlnaW4iOiJodHRwczovL2dvd2dsZS5jb20uYnI6NDQzIiwizMv
hdHVyZSI6IkxvbmdBbmItYXRpb25GcmFtZVRpbWluZyIsImV4cGlyeSI6MTcw0TY4M
zE50SwiaXNTdWJkb21haW4iOnRydWV9" http-equiv="origin-trial"/>\n <me
ta content="/images/branding/googleg/1x/googleg_standard_color_128
dp.png" itemprop="image"/>\n <title>\n python requests get - Pesq
uisa Google\n </title>\n <script nonce="KbHUFv0-VhYTttnB8YsAkQ">\n
(function(){\ndocument.documentElement.addEventListener("submit",f
unction(b){var a;if(a=b.target){var c=a.getAttribute("data-submitf
alse");a="1"===c||"q"===c&&!a.elements.q.value?!0:!1}else a=!1;a&&
(b.preventDefault(),b.stopPropagation())},!0);document.documentEle
ment.addEventListener("click",function(b){var a;a={for(a=b.target;
a&&a!==document.documentElement;a=a.parentElement)if("A"===a.tagNa
me){a="1"===a.getAttribute("data-nohref");break a}a=!1}a&&b.preven
tDefault()),!0);}).call(this);(function(){var a=window.performanc
e;window.start=Date.now();a:{var b=window;if(a){var c=a.timing;if(
c){var d=c.navigationStart,f=c.responseStart;if(f>d&&f<=window.sta
rt){window.start=f;b.wsrt=f-d;break a}}a.now&&(b.wsrt=Math.floor(
a.now()))}window.google=window.google||{};var h=function(g){g&&g.
target.setAttribute("data-impl",String(Date.now()))};document.docum
entElement.addEventListener("load",h,!0);google.rglh=function(){do
cument.documentElement.removeEventListener("load",h,!0);}).call(t
his);(function(){window.google.erd={jsr:1,bv:1949,de:true;}})();(f
unction(){var sdo=false;var mei=10;\nvar h=this||self;var k,l=nul
l!=(k=h.mei)?k:1,n,p=null!=(n=h.sdo)?n:!0,q=0,r,t=google.erd,v=t.j

```

```

sr;google.ml=function(a,b,d,m,e){e=void 0===e?2:e;b&&(r=a&&a.messa
ge);void 0===d&&(d={});d.cad="ple_"+google.ple+".aple_"+google.apl
e;if(google.dl)return google.dl(a,e,d),null;b=d;if(0>v){window.con
sole&&console.error(a,b);if(-2===v)throw a;b=!1}else b=!a||!a.messa
ge||"Error loading script"===a.message||q>=l&&!m?!1:!0;if(!b)retu
rn null;q++;d=d||{};b=encodeURIComponent;var c="/gen_204?atyp=i&ei
="+b(google.kEI);google.kEXPI&&(c+="&jexpid="+b(google.kEXPI));c+
="&srcpg="+b(google.sn)+"&jsr="+b(t.jsr)+"&bver="+\nb(t.bv);var f=
a.lineNumber;void 0!=f&&(c+="&line="+f);var g=a.fileName;g&&(0<g.
indexOf("-extension:/")&&(e=3),c+="&script="+b(g),f&&g===window.lo
cation.href&&(f=document.documentElement.outerHTML.split("\n")[
f],c+="&cad="+b(f?f.substring(0,300):"No script found."));google.
ple&&1===google.ple&&(e=2);c+="&jsel="+e;for(var u in d)c+="&",c+=
b(u),c+="=",c+=b(d[u]);c+="&msg="+b(a.name+": "+a.message);c=c
+"&jsst="+b(a.stack||"N/A");12288<=c.length&&(c=c.substr(0,1228
8));a=c;m||google.log(0,"",a);return a};window.onerror=function(a,
b,d,m,e){r!:=a&&(a=e instanceof Error?e:Error(a),void 0===d||"line
Number" in a||(a.lineNumber=d),void 0===b||"fileName" in a||(a.fileN
ame=b),google.ml(a,!1,void 0,!1,"SyntaxError"===a.name||"SyntaxErr
or"===a.message.substring(0,11)||-1===a.message.indexOf("Script er
ror")?3:0));r=null;p&&q>=l&&(window.onerror=null);})();(functio
n(){var c=[],e=0;window.ping=function(b){-1==b.indexOf("&zx")&&(b+
="&zx="+Date.now());var a=new Image,d=e++;c[d]=a;a.onerror=a.onloa
d=a.onabort=function(){delete c[d]};a.src=b;}).call(this);\n </sc
ript>\n <style>\n a{color:#1a0dab;text-decoration:none;tap-highli
ght-color:rgba(0,0,0,.10)}a.visited{color:#4b11a8}a.hover{text-dec
oration:underline}img{border:0}html{font-family:arial,sans-serif;f
ont-size:14px;line-height:20px;text-size-adjust:100%;color:#3c404
3;word-wrap:break-word;background-color:#fff}.bRSWnc{background-co
lor:#fff;border-top:1px solid #dadce0;height:39px;overflow:hidde
n}.N6RWV{height:51px;overflow-scrolling:touch;overflow-x:auto;over
flow-y:hidden}.Uv67qb{box-pack:justify;font-size:12px;line-height:
37px;justify-content:space-between;justify-content:space-between}.
Uv67qb a,.Uv67qb span{color:#70757a;display:block;flex:none;padding:
0 16px;text-align:center;text-transform:uppercase;}span.OXXup{bo
rder-bottom:2px solid #4285f4;color:#4285f4;font-weight:bold}a.eZt
8xd:visited{color:#70757a}.FElbsf{border-left:1px solid rgba(0,0,
0,.12)}header article{overflow:visible}.Pg70bf{height:39px;displa
y:box;display:flex;display:flex;width:100%}.H0PQec{position:relati
ve;flex:1}.sbc{display:flex;width:100%}.Pg70bf input{margin:2px 4p
x 2px 8px;}.x{width:26px;color:#70757a;font:27px/38px arial, sans-
serif;line-height:40px;}.#qdClwb{flex:0 0 auto;width:39px;height:39
px;border-bottom:0;padding:0;border-top-right-radius:8px;background
-color:#1a73e8;border:1px solid #1a73e8;background-image:url(dat
a:image/gif;base64,R0lGODdhJAAjAPIHA0Dr/nCk+MPZ/FmV96zK+/7+/5K5+kq
L9iwAAAAAJAAjAEADani63P4wykmbKcQRXDscQAEMXmmeaLQVLcukzyC09AjfeK7v/
MAajACLhPMVAgwjsUcEiZa8xgAYrVqv2Kx2iwsIAAABknfBBAKrTE4IcMyot8ur8da
tqIbQfJdnAfo2WE6BV05wXIiJigkA0w==);}.sc{font-size:16px;position:ab
solute;top:39px;left:0;right:0;box-shadow:0 2px 5px rgba(0,0,0,.
2);z-index:2;background-color:#fff}.sc>div{padding:10px 10px;paddi
ng-left:16px;padding-left:14px;border-top:1px solid #dfe1e5;}.scs{
background-color:#fafafa;}.noHIxc{display:block;font-size:16px;pad
ding:0 0 8px;flex:1;height:35px;outline:none;border:none;width:1
00%;-webkit-tap-highlight-color:rgba(0,0,0,0);overflow:hidden;}.sb

```



```
c input[type=text]{background:none}.bz1lBb{background-color:#fff;border-radius:8px 8px 0 0;box-shadow:0 0 0 1px #dfe1e5;margin-top:24px;}.KP7LCb{border-radius:0 0 8px 8px;box-shadow:0px 1px 0px 1px #dfe1e5;margin-bottom:30px;overflow:hidden}html{background-color:#fff}body{margin:0 auto 0 156px;max-width:652px;min-width:652px;padding:0 8px}.c0l4Id{letter-spacing:-1px;text-align:center;font:22pt Futura, Arial, sans-serif;height:37px;font-smoothing:antialiased;padding:32px 28px 0 24px;position:absolute;left:0;top:0}.c0l4Id span{display:inline-block}.V6gwVd{color:#4285f4}.iWkuvd{color:#ea4335}.cDrQ7{color:#fcc934}.ntlR9{color:#34a853}.tJ3Myc{-webkit-transform:rotate(-20deg);position:relative;left:-1px;display:inline-block}footer{text-align:center;margin-top:18px}footer a,footer a:visited,.smiUbb{color:#70757a}.xeDNfc{margin:0 13px;display:inline-block}#E0lPnc{margin-top:36px}#E0lPnc>div{margin:20px}.Srfpq{color:#70757a}\n </style>\n</head>\n'
```

In [16]: 1 busca.head.title

Out[16]: <title>python requests get - Pesquisa Google</title>

In [17]: 1 body = busca.body
2 body.contents[0]

Out[17]: <header id="hdr"><script nonce="KbHUfv0-VhYTttnB8YsAkQ">(function(){
var k=this||self,l=function(a){var b=typeof a;return"object"==b&&null!=a||"function"==b},m=function(a,b){function c(){c.prototype=b.prototype;a.j=b.prototype;a.prototype=new c;a.prototype.constructor=a;a.l=function(d,e,f){for(var g=Array(arguments.length-2),h=2;h<arguments.length;h++)g[h-2]=arguments[h];return b.prototype[e].apply(d,g)}};var n=Array.prototype.indexOf?function(a,b){return Array.prototype.indexOf.call(a,b,void 0)}:function(a,b){if("string"==typeof a)return"string"!=typeof b||1!=b.length?-1:a.indexOf(b,0);for(var c=0;c<a.length;c++)if(c in a&&a[c]==b)return c;return-1};var p=function(a){return"string"==typeof a.className?a.className:a.getAttribute&&a.getAttribute("class")||""},q=function(a,b){"string"==typeof a.className?a.className=b:a.setAttribute&&a.setAttribute("class",b)},r=function(a,b){a.classList?b=a.classList.contains(b):(a=a.classList?a.classList:p(a).match(/\S+/g)||[],b=0<=n(a,b));return b},v=function(){var a=t,b=u;a.classList?a.classList.remove(b):r(a,b)&&q(a,Array.prototype.filter.call(a.classList?a.classList:p(a).match(/\S+/g)||[],function(c){return c!=b}).join(" ")});function w(){var a=k.navigator;return a&&(a=a.userAgent)?a:"";var x=function(a){x[" "](a);return a};x[""]=function(){var y=-1!=w().indexOf("Gecko")&&(-1!=w().toLowerCase().indexOf("webkit")&&-1==w().indexOf("Edge"))&&(-1!=w().indexOf("Trident")||-1!=w().indexOf("MSIE"))&&-1==w().indexOf("Edge");var z=function(a,b){this.type=a;this.target=b};z.prototype.g=function(){var A=function(){if(!k.addEventListener||!Object.defineProperty)return!1;var a=!1,b=Object.defineProperty({},"passive",{get:function(){a=!0}});try{var c=function(){k.removeEventListener("test",c,b)};k.addEventListener("test",c,b)}catch(d){}return a}();var C=functio

```

n(a){z.call(this,a?a.type:"");this.relatedTarget=this.target=null;
this.button=this.screenY=this.screenX=this.clientX=this.clientY=0;
this.key="";this.keyCode=0;this.metaKey=this.shiftKey=this.altKey=
this.ctrlKey=!1;this.state=null;this.pointerId=0;this.pointerType
="";this.h=null;if(a){var b=this.type=a.type,c=a.changedTouches&&
a.changedTouches.length?a.changedTouches[0]:null;this.target=a.tar
get||a.srcElement;var d=a.relatedTarget;if(d){if(y){a:{try{x(d.nod
eName);var e=!0;break a}catch(f){}e=
!1}e|| (d=null)}}else"mouseover"==b?d=a.fromElement:"mouseout"==b&&
(d=a.toElement);this.relatedTarget=d;c?(this.clientX=void 0!==c.cl
ientX?c.clientX:c.pageX,this.clientY=void 0!==c.clientY?c.clientY:
c.pageY,this.screenX=c.screenX||0,this.screenY=c.screenY||0):(thi
s.clientX=void 0!==a.clientX?a.clientX:a.pageX,this.clientY=void
0!==a.clientY?a.clientY:a.pageY,this.screenX=a.screenX||0,this.scr
eenY=a.screenY||0);this.button=a.button;this.keyCode=a.keyCode||0;
this.key=a.key||"";this.ctrlKey=a.ctrlKey;this.altKey=a.altKey;thi
s.shiftKey=a.shiftKey;this.metaKey=a.metaKey;this.pointerId=a.poin
terId||0;this.pointerType="string"===typeof a.pointerType?a.pointe
rType:B[a.pointerType]||"";this.state=a.state;this.h=a;a.defaultPr
evented&&C.j.g.call(this));m(C,z);var B={2:"touch",3:"pen",4:"mou
se"};C.prototype.g=function(){C.j.g.call(this);var a=this.h;a.prev
entDefault?a.preventDefault():a.returnValue=!1};var D="closure_lis
tenable_"+(1E6*Math.random()|0);var E=0;var F=function(a,b,c,d,e){
this.listener=a;this.proxy=null;this.src=b;this.type=c;this.captur
e=!!d;this.h=e;this.key=++E;this.g=this.i=!1},G=function(a){a.g=!
0;a.listener=null;a.proxy=null;a.src=null;a.h=null};var H=functio
n(a){this.src=a;this.g={};this.h=0};H.prototype.add=function(a,b,
c,d,e){var f=a.toString();a=this.g[f];a||(a=this.g[f]=[],this.h+
+);var g;a:{for(g=0;g<a.length;++g){var h=a[g];if(!h.g&&h.listener
==b&&h.capture==!!d&&h.h==e)break a}g=-1}-1<g?(b=a[g],c||(b.i=!
1)):(b=new F(b,this.src,f,!!d,e),b.i=c,a.push(b));return b};var I
="closure_lm_"+(1E6*Math.random()|0),J={},K=0,M=function(a,b,c,d,
e){if(d&&d.once)return L(a,b,c,d,e);if(Array.isArray(b)){for(var f
=0;f<b.length;f++)M(a,b[f],c,d,e);return null}c=N(c);return a&&a[D]?a.g(b,c,l(d)?!!d.capture:!!d,e):0(a,b,c,!1,d,e)},O=function(a,
b,c,d,e,f){if(!b)throw Error("a");var g=l(e)?!!e.capture:!!e,h=P(
a);h||(a[I]=h=new H(a));c=h.add(b,c,d,g,f);if(c.proxy)return c;d=
Q();c.proxy=d;d.src=a;d.listener=c;if(a.addEventListener)A||(e=g),
void 0===e&&(e=!1),a.addEventListener(b.toString(),d,e);else if(a.
attachEvent)a.attachEvent(R(b.toString()),d);else if(a.addListene
r&&a.removeListener)a.addListener(d);else throw Error("b");K++;ret
urn c},Q=function(){var a=S,b=function(c){return a.call(b.src,b.li
stener,c)};return b},L=function(a,b,c,d,e){if(Array.isArray(b)){fo
r(var f=0;f<b.length;f++)L(a,b[f],c,d,e);return null}c=N(c);return
a&&a[D]?a.h(b,c,l(d)?!!d.capture:!!d,e):0(a,b,c,!0,d,e)},T=functio
n(a){if("number"!==typeof a&&a&&!a.g){var b=a.src;if(b&&b[D])b.s(
a);else{var c=a.type,d=a.proxy;b.removeEventListener?b.removeEvent
Listener(c,d,a.capture):b.detachEvent?b.detachEvent(R(c),d):b.addL
istener&&b.removeListener&&b.removeListener(d);K--;if(c=P(b)){d=a.
type;if(d in c.g){var e=c.g[d],f=n(e,a),g;(g=0<=f)&&Array.prototyp
e.splice.call(e,f,1);g&&(G(a),0==c.g[d].length&&(delete c.g[d],c.h
--))}0==c.h&&(c.src=null,b[I]=null)}else G(a)}}},R=function(a){ret
urn a in J?J[a]:J[a]="on"+a},S=function(a,b){if(a.g)a=!0;else{b=ne
w C(b,this);var c=a.listener,d=a.h||a.src;a.i&&T(a);a=c.call(d,b)}

```



```

return a},P=function(a){a=a[I];return a instanceof H?a:null},U="__
closure_events_fn_"+(1E9*Math.random())>>>0),N=function(a){if("func
tion"===typeof a)return a;a[U]||(a[U]=function(b){return a.handleE
vent(b)});return a[U]};var u,t=document.documentElement,V;function
W(){T(V);V=L(t,"mousedown",function(){v();X()}},{capture:!0})}funct
ion X(){T(V);V=M(t,"keydown",function(a){if(9===a.keyCode){a=t;var
b=u;if(a.classList)a.classList.add(b);else if(!r(a,b)){var c=p(a);
q(a,c+(0<c.length?" "+b:b))}W()}});u="zAoYTe";X();}).call(this);
</script><div class="c0l4Id"><a href="/?sa=X&ved=0ahUKEwixtIfZ
u5mEAXUkqJUCHU5cCzUQ0wgC"><span class="V6gwVd">G</span><span class
="iWkuvd">o</span><span class="cDrQ7">o</span><span class="V6gwVd"
>g</span><span class="ntlR9">l</span><span class="iWkuvd tJ3Myc">e
</span></a></div><div class="bz1lBb"><form class="Pg70bf" id="sf">
<input name="sca_esv" type="hidden" value="8d31dcc08d104f69"/><inp
ut name="ie" type="hidden" value="ISO-8859-1"/><div class="H0PQec"
><div class="sbc esbc"><input autocapitalize="none" autocomplete="
off" class="noHIxc" name="q" spellcheck="false" type="text" value
="python requests get"/><input name="oq" type="hidden"/><input nam
e="aq" type="hidden"/><div class="x">x</div><div class="sc"></div
></div></div><button id="qdClwb" type="submit"></button></form></d
iv><noscript><meta content="0;url=/search?q=python+requests+get&
p;sca_esv=8d31dcc08d104f69&ie=UTF-8&gbv=1&sei=SJfDZbHw
DaTQ1sQPzritqAM" http-equiv="refresh"/><style>table,div,span,p{dis
play:none}</style><div style="display:block">Clique <a href="/sear
ch?q=python+requests+get&p;sca_esv=8d31dcc08d104f69&ie=UTF-
8&gbv=1&sei=SJfDZbHwDaTQ1sQPzritqAM">aqui</a> se você não
for redirecionado em alguns segundos.</div></noscript></header>

```

In [18]: `1 body.contents[0].name`

Out[18]: 'header'

O próprio objeto **BeautifulSoup** tem filhos, que são as tags contidos nele. Nesse caso, a tag é filha do objeto BeautifulSoup.

Criando um extrator de notícias

Vamos trabalhar um exemplo mais simples baseado num extrator de notícias, com base nas publicações de um site. Utilizaremos para esta finalidade o [G1](https://g1.globo.com/) (<https://g1.globo.com/>)

In [19]: `1 url = 'https://g1.globo.com/'
2 linkNoticias = requests.get(url)
3 print(linkNoticias.status_code)`

200

```
<!DOCTYPE HTML>
<html class="" lang="pt-br">
  <head>
    <meta charset="utf-8"/>
    <meta content="ie=edge,chrome=1" http-equiv="x-ua-compatible"/>
    <meta content="width=device-width, initial-scale=1" name="viewport"/>
    <script id="CDA_AAS" type="text/javascript">
      window.cdadaas = window.cdadaas || {};
      window.cdadaas.SETTINGS = window.cdadaas.SETTINGS || {};
      window.cdadaas.PAGE_ANALYTICS_DATA = {"channel":"desktop","contentId":"ba3c5a72-7ed9-482e-be26-ee3d81c97bce","contentType":"home",'serviceWorker':true};
      window.cdadaas.helpers = window.cdadaas.helpers || {};
      window.cdadaas.internals = {};
      window.HorizonClient = new Promise((resolve, reject) => {
        window.cdadaas.internals.resolveHorizonPromise = resolve;
        window.cdadaas.internals.rejectHorizonPromise = reject;
      });
```

```
<div class="_evt">
  <div class="bstn-fd bstn-fd-ssr bstn-fd-recommended">
    <div class="post-notifier-pushstream gui-color-primary-bg bstn-fd-visible-top">
    </div>
    <div class="_evg">
      <div class="_evt">
        <div class="bastian-page" data-index="1">
          <div class="_evg">
            <div class="_evt">
              <div class="bastian-feed-item" data-index="1">
                <div class="feed-post bstn-item-shape type-materia" id="96a4da5e-9ed7-43d1-a749-8d7bed49ab6e">
                  <div class="feed-post-body">
                    <div class="feed-post-header with-post-chapeu">
                      <span class="feed-post-header-chapeu">
                        Prova unificada
                      </span>
                    </div>
                    <div class="feed-post-body-title gui-color-primary gui-color-primary">

```

```
In [22]: 1 titulo = noticia.find('p')
          2 print(titulo.prettify())
          3 print(titulo.text)
```

```
<p elementtiming="text-ssr">
  'Enem dos concursos' é o maior da história em nº de inscritos, di
z governo
</p>
```

```
'Enem dos concursos' é o maior da história em nº de inscritos, diz
governo
```

```
In [23]: 1 titulos = noticia.find_all('p')
          2 #print(titulo.prettify())
          3 for titulo in titulos:
          4     print(titulo.text)
```

```
'Enem dos concursos' é o maior da história em nº de inscritos, diz
governo
Governo quer reabrir canal com Lira, mas não descarta negociar com
líderes
Daniel Alves depõe hoje e dará 5ª versão sobre a acusação de estup
ro
Cortejo emocionante, briga em elevador e mais VÍDEOS do dia
Qual vai ser o hit do carnaval? Veja 10 apostas que vêm com força
Você sabe de quais escolas do Rio são estas bandeiras? Faça o quiz
CadÚnico exclui 603 mil pessoas que estavam mortas há mais de 1 an
o
```

```
In [24]: 1 titulo = noticia.find('a', attrs={'class':"feed-post-link gui-c
          2 print(titulo.prettify())
```

```
<a class="feed-post-link gui-color-primary gui-color-hover" href="
https://g1.globo.com/trabalho-e-carreira/concursos/noticia/2024/0
2/07/enem-dos-concursos-e-o-maior-da-historia-do-pais-em-numero-de
-inscritos-diz-governo.ghtml">
  <p elementtiming="text-ssr">
    'Enem dos concursos' é o maior da história em nº de inscritos, d
iz governo
  </p>
</a>
```

```
In [25]: 1 linkNoticia = titulo['href']  
2 titulo = titulo.text  
3 print(titulo)  
4 print(linkNoticia)
```

'Enem dos concursos' é o maior da história em nº de inscritos, diz governo

<https://g1.globo.com/trabalho-e-carreira/concursos/noticia/2024/02/07/enem-dos-concursos-e-o-maior-da-historia-do-pais-em-numero-de-inscritos-diz-governo.ghml> (<https://g1.globo.com/trabalho-e-carreira/concursos/noticia/2024/02/07/enem-dos-concursos-e-o-maior-da-historia-do-pais-em-numero-de-inscritos-diz-governo.ghml>)

```
In [26]: 1 #noticias = linkNoticias.find_all('div', attrs={'class': '_evt'})
2 noticias = linkNoticias.find_all('div', attrs={'class': 'feed-po
3 for noticia in noticias:
4     titulo = noticia.find('a', attrs={'class': "feed-post-link g
5     linkNoticia = titulo['href']
6     titulo = titulo.text
7     print(titulo)
8     print(linkNoticia)
```

'Enem dos concursos' é o maior da história em nº de inscritos, diz governo

<https://g1.globo.com/trabalho-e-carreira/concursos/noticia/2024/02/07/enem-dos-concursos-e-o-maior-da-historia-do-pais-em-numero-de-inscritos-diz-governo.ghml> (<https://g1.globo.com/trabalho-e-carreira/concursos/noticia/2024/02/07/enem-dos-concursos-e-o-maior-da-historia-do-pais-em-numero-de-inscritos-diz-governo.ghml>)

Governo quer reabrir canal com Lira, mas não descarta negociar com líderes

<https://g1.globo.com/politica/blog/valdo-cruz/post/2024/02/07/governo-lula-quer-reabrir-canal-com-lira-mas-nao-descarta-negociar-diretamente-com-lideres-da-base-aliada.ghml> (<https://g1.globo.com/politica/blog/valdo-cruz/post/2024/02/07/governo-lula-quer-reabrir-canal-com-lira-mas-nao-descarta-negociar-diretamente-com-lideres-da-base-aliada.ghml>)

Daniel Alves depõe hoje e dará 5ª versão sobre a acusação de estupro

<https://g1.globo.com/mundo/noticia/2024/02/07/caso-daniel-alves-3-dia-de-julgamento.ghml> (<https://g1.globo.com/mundo/noticia/2024/02/07/caso-daniel-alves-3-dia-de-julgamento.ghml>)

Cortejo emocionante, briga em elevador e mais VÍDEOS do dia

<https://g1.globo.com/playlist/videos-para-assistir-agora.ghml> (<https://g1.globo.com/playlist/videos-para-assistir-agora.ghml>)

Qual vai ser o hit do carnaval? Veja 10 apostas que vêm com força

<https://g1.globo.com/carnaval/2024/noticia/2024/02/07/carnaval-2024-conheca-10-hits-que-estao-agitando-os-blocos-e-ruas-durante-a-folia.ghml> (<https://g1.globo.com/carnaval/2024/noticia/2024/02/07/carnaval-2024-conheca-10-hits-que-estao-agitando-os-blocos-e-ruas-durante-a-folia.ghml>)

Você sabe de quais escolas do Rio são estas bandeiras? Faça o quiz

<https://g1.globo.com/rj/rio-de-janeiro/carnaval/2024/quiz/quiz-voce-sabe-identificar-as-bandeiras-das-escolas-de-samba-do-rj-sem-cores-e-sem-letras.ghml> (<https://g1.globo.com/rj/rio-de-janeiro/carnaval/2024/quiz/quiz-voce-sabe-identificar-as-bandeiras-das-escolas-de-samba-do-rj-sem-cores-e-sem-letras.ghml>)

CadÚnico exclui 603 mil pessoas que estavam mortas há mais de 1 ano

<https://g1.globo.com/politica/noticia/2024/02/07/governo-diz-ter-excluido-do-cadunico-603-mil-pessoas-que-estavam-mortas-ha-mais-de-um-ano.ghml> (<https://g1.globo.com/politica/noticia/2024/02/07/governo-diz-ter-excluido-do-cadunico-603-mil-pessoas-que-estavam-mortas-ha-mais-de-um-ano.ghml>)

```
In [27]: 1 #https://g1.globo.com/busca/?q=Dengue
          2 #https://g1.globo.com/busca/?q=Dengue+bahia&page=1
```

Produtos do Mercado livre

Agora vamos fazer uma outra pesquisa. Desta vez vamos usar a ferramenta de busca do Mercado Livre (<https://www.mercadolivre.com.br/>).

Repare na busca por um Copo Stanley Original. Uma vez inserido o termo de busca e feita a requisição, so servidor nos direciona para o seguinte endereço.

```
``https://lista.mercadolivre.com.br/copo-stanley-
original#D[A:copo%20stanley%20original]`` (https://lista.mercadolivre.com.br/copo-
stanley-original#D%5BA:copo%20stanley%20original%5D%60%60%60)
```

Repare que se apagamos todos os caracteres estranhos no final da **URL** e recarregamos a página ainda continua carregando os mesmos resultados.

```
``https://lista.mercadolivre.com.br/copo-stanley-original``
(https://lista.mercadolivre.com.br/copo-stanley-original%60%60%60)
```

Mais ainda, se colocamos o a **URL** com os termos da busca separados:

```
https://lista.mercadolivre.com.br/copo stanley original
```

O servidor retorna para mesma página.

Então podemos utilizar esta **URL** para fazer a requisição.

```
In [28]: 1 url = "https://lista.mercadolivre.com.br/copo-stanley-original"
          2 #ou
          3 #url = https://lista.mercadolivre.com.br/
          4 # produto = input('Digite o produto que deseja pesquisar: ')
          5 # url = url + produto
          6 response = requests.get(url)
          7 print(response.status_code)
```

200

Novamente vamos utilizar o BeautifulSoup para extrair os produtos que foram retornados.

```
In [29]: 1 linkPesquisa = BeautifulSoup(response.text, 'html.parser')
          2 print(linkPesquisa.prettify())
```

```
<!DOCTYPE html>
<html lang="pt-BR">
  <head>
    <link href="https://www.google-analytics.com" rel="preconnect"/>
    <link href="https://www.google.com" rel="preconnect"/>
    <link href="https://data.mercadolivre.com" rel="preconnect"/>
    <link href="https://http2.mlstatic.com" rel="preconnect"/>
    <link href="https://stats.g.doubleclick.net" rel="preconnect"/>
    <link href="https://analytics.mercadolivre.com.br" rel="preconnect"/>
    <link href="https://analytics.mercadolivre.com" rel="preconnect"/>
    <link href="https://www.google.com.br" rel="preconnect"/>
    <script nonce="lyGYe8/Rqo099JtZJ4BLEg==" type="text/javascript">
      window.NREUM||(NREUM={});NREUM.info = {"agent":"","beacon":"bam.nr-data.net","errorBeacon":"bam.nr-data.net","licenseKey":"NRBR-766f4fb616d3a2368ce","applicationID":"1729522169","agentToken":null,"applicationTime":689.379969,"transactionName":"bgQDMEcFXkJZBkYw1d01RvFE1VCSw0RS210NH51Hw==" "queueTime":0 "tttGuid":"c22b7252840/
```

```

In [30]: 1 #<div class="ui-search-result__wrapper">
2 item = linkPesquisa.find('div', class_='ui-search-result__wrapp
3 #print(item.prettify())
4 #podemos refinar busca dentro deste objeto
5 #<div class="ui-search-result__content-wrapper">
6 item = item.find('div', class_='ui-search-result__content-wrapp
7 #print(item.prettify())
8 # agora podemos pegar o link e sua descrição
9 linkProduto = item.find('a')
10 descr = linkProduto ['title']
11 linkProduto = linkProduto['href']
12 print(descr)
13 print(linkProduto)
14 # <div class="ui-search-result__content-columns">
15 preco = item.find('div', class_='ui-search-result__content-colu
16 #print(preco.prettify())
17 #<span aria-hidden="true" class="andes-money-amount__fraction">
18 precoR = preco.find('span', class_='andes-money-amount__fractio
19 #<span aria-hidden="true" class="andes-money-amount__cents ande
20 precoC = preco.find('span', class_='andes-money-amount__cents a
21 #print(precoR.text + "," + precoC.text)
22 if precoC:
23     precoC = precoC.text
24 else:
25     precoC = "00"
26 print(precoR.text + "," + precoC)
27
28
29

```

Caneca Térmica De Cerveja Stanley Lagoon | 709ml

https://www.mercadolivre.com.br/caneca-termica-de-serveja-stanley-lagoon-709ml/p/MLB21684253?pdp_filters=category:MLB439179#searchVariation=MLB21684253&position=3&search_layout=stack&type=product&tracking_id=f4ef6eec-5053-473a-b34f-2a35c5b05c93 (https://www.mercadolivre.com.br/caneca-termica-de-serveja-stanley-lagoon-709ml/p/MLB21684253?pdp_filters=category:MLB439179#searchVariation=MLB21684253&position=3&search_layout=stack&type=product&tracking_id=f4ef6eec-5053-473a-b34f-2a35c5b05c93)

179,00


```
In [31]: 1 itens = linkPesquisa.find_all('div', class_='ui-search-result__')
2 i = 1
3 for item in itens:
4     item = item.find('div', class_='ui-search-result__content-w
5     linkProduto = item.find('a')
6     descr = linkProduto['title']
7     linkProduto = linkProduto['href']
8     print(str(i) + " - " + descr)
9     i += 1
10    print(linkProduto)
11    preco = item.find('div', class_='ui-search-result__content-
12    precoR = preco.find('span', class_='andes-money-amount__fra
13    precoC = preco.find('span', class_='andes-money-amount__cen
14    if precoC is None:
15        precoC = "00"
16    else:
17        precoC = precoC.text
18    print(precoR.text + "," + precoC)
```

1 - Caneca Térmica De Cerveja Stanley Lagoon | 709ml
https://www.mercadolivre.com.br/caneca-termica-de-serveja-stanley-lagoon-709ml/p/MLB21684253?pdp_filters=category:MLB439179#searchVariation=MLB21684253&position=3&search_layout=stack&type=product&tracking_id=f4ef6eec-5053-473a-b34f-2a35c5b05c93
 (https://www.mercadolivre.com.br/caneca-termica-de-serveja-stanley-lagoon-709ml/p/MLB21684253?pdp_filters=category:MLB439179#searchVariation=MLB21684253&position=3&search_layout=stack&type=product&tracking_id=f4ef6eec-5053-473a-b34f-2a35c5b05c93)
 179,00

2 - Copo Prismático Alto Bourbon 381ml
https://www.mercadolivre.com.br/copo-prismatico-alto-bourbon-381ml/p/MLB22832737?pdp_filters=category:MLB439179#searchVariation=MLB22832737&position=6&search_layout=stack&type=product&tracking_id=f4ef6eec-5053-473a-b34f-2a35c5b05c93
 (https://www.mercadolivre.com.br/copo-prismatico-alto-bourbon-381ml/p/MLB22832737?pdp_filters=category:MLB439179#searchVariation=MLB22832737&position=6&search_layout=stack&type=product&tracking_id=f4ef6eec-5053-473a-b34f-2a35c5b05c93)
 220,00

Agora vamos procurar nas outras páginas da minha busca.

```
In [32]: 1 #https://lista.mercadolivre.com.br/esportes-fitness/camping-cac
2 #<li class="andes-pagination__button andes-pagination__button--
3 next = linkPesquisa.find('li', attrs={'class': 'andes-pagination
4 page = 2
5 while next and page < 10:
6     print('Página: ' + str(page))
7     page += 1
8     #print(next.a['href'])
9     url = next.a['href']
10    response = requests.get(url)
```

```

11 linkPesquisa = BeautifulSoup(response.text, 'html.parser')
12 itens = linkPesquisa.find_all('div', class_='ui-search-resu
13 #i = 1
14 for item in itens:
15     item = item.find('div', class_='ui-search-result__conte
16     linkProduto = item.find('a')
17     descr = linkProduto['title']
18     linkProduto = linkProduto['href']
19     print(str(i) + " - " + descr)
20     i += 1
21     print(linkProduto)
22     preco = item.find('div', class_='ui-search-result__cont
23     precoR = preco.find('span', class_='andes-money-amount_
24     precoC = preco.find('span', class_='andes-money-amount_
25     if precoC is None:
26         precoC = "00"
27     else:
28         precoC = precoC.text
29     print(precoR.text + "," + precoC)
30 next = linkPesquisa.find('li', attrs={'class': 'andes-pagina
31
32

```

Página: 2

54 - Copo Quencher Térmico 2.0 Stanley | 1,18 Litros

<https://click1.mercadolivre.com.br/mclics/clicks/external/MLB/count?a=E0t9Tf8n3unD6u6HQCZo7gLY0nmtHkvKPQu6duqj20ECXrWpnx%2BqUPLahulLq%2BiPEhDvRkyIGD3YMtN4Xx%2FhaHqsPA82rUh5U%2B7JxUMLZ08G4jydLpI%2FjK4uzERNoGAYBND0X6rEAVBFPx%2FN%2BJPapL1%2Fu7mqG8S0Zm%2Fz1vXyyuUqW2yhacbvGHaQNePeW7%2B49rA9ZAoQTWiZuWGvhLTxiVuV8nsn1vK55Q0GT0yVbEHNktFmx7afK4sSgbK6Zxo5Ct45MG08mjV%2Fne28HvCx9UnV8J3lDVIFFnDhHPiysT0Sh6Qu9sS6CHk%2Ff9su8MRNJ4M6okpFxpWgVKTAqMcb1mlkbwI%2F%2BT99NF9A0zc338Ezo6TIHaaVutlCHdbQkqtNiw4P306ZgLGekLuru6oqukhPufgEu1Fjqir60vC05%2BIu2u%2BWKbXweVKtcSQih8PxU0SbidxYyj2zI434LUPC2%2Fisnv%2FkXq0GoYGdpHGBfWRML7mfIAVI%2FyIbJMKu9Rb21mIW3iJCjVTZS1HRXUT7WrRWUcQllgPPeHe1UTSAmr0azmCWjhVbkKl5Hg8tUgB8zcBFNFQzPAF0RMgma1ufwMaSRrtER50NmSs8mU%2BPKSjgXPHNn%2FB%2FANYTT8xfviZvmsUb1W9g0d%2BbUHE9sqDZ5kBi9klWFx1U5oVgTtW1Qg0QtffgK1DkU1G0RntI2PNQLPNfX%2BySuvi90RmYVUhSJXgHchyi4kWvLJn%2FULwrQePiuBdqjqynxwalaPd6MyXd%2BRcNhQjRhQlnKdiIE5pwwQ1%2FWDom5&e=mclics%2Fpseudo-search-pads-buybox%2B7708%2Cmclics%2Fbuybox-layout%2B25349%2Cmclics%2Fsearch-list-ad-algorithm%2B16026&rb=x>