

# Amazon Web Scrapping

## Objetivos:

1. Realizar la extracción de información de un artículo a la venta en Amazon, como: Artículo, descripción, precio, puntuación y las opiniones destacadas.
2. Ejecutar un análisis de sentimientos a las opiniones destacadas del artículo, indicando la polaridad de las opiniones y generando una nube de términos.

```
In [1]: # Importar Las Librerías necesarias
        # Librería para realizar Web Scrapping
import requests # Librería para hacer peticiones HTTP
import smtplib # Librería para automatizar envío de correos electrónicos
import time # Módulo para la ejecución de tareas relacionadas con tiempo
import datetime # Módulo para el trabajo con fechas y horas
from bs4 import BeautifulSoup
import matplotlib.pyplot as plt
```

```
In [2]: # Conectar al sitio Web desde el que se va a extraer los datos
URL='https://www.amazon.com/-/es/G-Shock-digital-cl%C3%A1sico-hombre-Classic/dp/B000GAYQKY/ref=zg_bs_6358540'
# Se requiere indicar los agentes, estos se obtienen en este link: https://httpbin.org/get
headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) C
page = requests.get(URL, headers=headers)
soup1 = BeautifulSoup(page.content, 'html.parser')
print (soup1)
```

```
<!DOCTYPE html>
<html class="a-no-js" data-19ax5a9jf="dingo" lang="es-us"><!-- sp:feature:head-start -->
<head><script>var aPageStart = (new Date()).getTime();</script><meta charset="utf-8"/>
<!-- sp:end-feature:head-start -->
<script type="text/javascript">var ue_t0=ue_t0||new Date();</script>
<!-- sp:feature:cs-optimization -->
<meta content="on" http-equiv="x-dns-prefetch-control"/>
<link href="https://images-na.ssl-images-amazon.com" rel="dns-prefetch"/>
<link href="https://m.media-amazon.com" rel="dns-prefetch"/>
<link href="https://completion.amazon.com" rel="dns-prefetch"/>
<!-- sp:end-feature:cs-optimization -->
<script type="text/javascript">
window.ue_ihb = (window.ue_ihb || window.ueinit || 0) + 1;
if (window.ue_ihb === 1) {

var ue_csm = window,
    ue_hob = +new Date();
(function(d){var e=d.ue=d.ue||{},f=Date.now||function(){return+new Date};e.d=function(b){return f()-(b?0:d.ue_t0)};e.stub=function(b,a){if(!b[a]){var c=[];b[a]=function(){c.push([c.slice.call(arguments),e.d(),d.ue_id])};b[a].replay=function(b){for(var a;a=c.shift();){b(a[0],a[1],a[2])};b[a].isStub=1}};e.exec=function(b,a){return function(){try{return b.apply(this,arguments)}catch(c){ueLogError(c,{attribution:a||"undefined",logLevel:"WARN"})}}}})(ue_csm);
```

In [3]: *# Imprimir la información HTML mediante prettify, dándole formato.*

```
soup2 = BeautifulSoup(soup1.prettify(), 'html.parser')
```

```
print(soup2)
```

```
<!DOCTYPE html>
```

```
<html class="a-no-js" data-19ax5a9jf="dingo" lang="es-us">
```

```
<!-- sp:feature:head-start -->
```

```
<head>
```

```
<script>
```

```
    var aPageStart = (new Date()).getTime();
```

```
</script>
```

```
<meta charset="utf-8"/>
```

```
<!-- sp:end-feature:head-start -->
```

```
<script type="text/javascript">
```

```
    var ue_t0=ue_t0||+new Date();
```

```
</script>
```

```
<!-- sp:feature:cs-optimization -->
```

```
<meta content="on" http-equiv="x-dns-prefetch-control"/>
```

```
<link href="https://images-na.ssl-images-amazon.com" rel="dns-prefetch"/>
```

```
<link href="https://m.media-amazon.com" rel="dns-prefetch"/>
```

```
<link href="https://completion.amazon.com" rel="dns-prefetch"/>
```

```
<!-- sp:end-feature:cs-optimization -->
```

```
<script type="text/javascript">
```

```
    window.ue_ihb = (window.ue_ihb || window.ueinit || 0) + 1;
```

```
    if (window.ue_ihb === 1) {
```

```
        var ue_csm = window
```

```
In [4]: # Obtención del título, dado que en este elemento se encuentra la descripción del artículo  
title = soup2.find(id='title').get_text()  
print(title)
```

Casio G-Shock reloj digital clásico para hombre, Classic, talla única , Negro

[Visita la tienda de Casio](#)

## Casio G-Shock reloj digital clásico para hombre, Classic, talla única , Negro

★★★★☆ 13,106 calificaciones  
| 441 preguntas respondidas

Precio recomendado: ~~US\$69.95~~

Precio: **US\$38.69**

Ahorras: **US\$31.26 (45%)**

Sin depósito de derechos de importación y US\$9.26 de envío a Colombia [Detalles](#)

**US\$38.69**

Sin depósito de derechos de importación y US\$9.26 de envío a Colombia [Detalles](#)

Entrega el **Jueves, Junio 23**

📍 Enviar a - Bogotá 110221

**Envío en 6 días.**

Cantidad: 1

**Agregar al Carrito**

```
pb-c769q0" data-cel-widget="title_feature_div">  
<style type="text/css"> .product-title-word-break { word-break: break-word  
▼ <div id="titleSection" class="a-section a-spacing-none">  
  ▼ <h1 id="title" class="a-size-large a-spacing-none a-color-secondary">  
    ▼ <span id="productTitle" class="a-size-large product-title-word-break">  
      " Casio G-Shock reloj digital clásico para hombre, Classic, talla úni  
    </span>  
    <span id="titleEDPPlaceholder"></span>  
  </h1>  
  <div id="expandTitleToggle" class="a-section a-spacing-none expand aok-h  
</div>  
<span class="edp-feature-declaration" data-edp-feature-name="title" data-e  
data-hash="675304350" data-defects="{[{"id":"defect-mismatch-info","value":  
d":"defect-missing-information"."value":"Falta información"}]}</span>  
... i-spacing-none.a-color-secondary span#productTitle.a-size-large.product-title-word-break ...  
Styles Computed Layout Event Listeners DOM Breakpoints Properties Accessibility
```

```
In [5]: # Obtención del precio
precio = soup2.find(id='corePrice_feature_div')
print(precio)

<div class="celwidget" data-feature-name="corePrice" id="corePrice_feature_div">
<div class="a-section a-spacing-micro">
<span class="a-price aok-align-center" data-a-color="base" data-a-size="xl">
<span class="a-offscreen">
    US$38.69
</span>
<span aria-hidden="true">
<span class="a-price-symbol">
    US$
</span>
<span class="a-price-whole">
    38
    <span class="a-price-decimal">
        .
    </span>
</span>
<span class="a-price-fraction">
    69
</span>
</span>
</span>
</div>
</div>
```

```
In [6]: price=precio.find('span','a-offscreen').text
```

```
In [7]: print(price)
```

US\$38.69

```
In [8]: # Eliminar espacios innecesarios en el precio  
price.strip()
```

'US\$38.69'

```
In [9]: # Eliminar la moneda y simbolo $ en el precio  
price = price.strip()[3:]  
print(price)
```

38.69

```
In [10]: # Eliminar espacios innecesarios en el titulo del artículo  
title=title.strip()  
print(title)
```

Casio G-Shock reloj digital clásico para hombre, Classic, talla única , Negro

```
In [11]: # Extraer la calificación del producto
calificacion=soup2.find(id='reviewsMedley')
print(calificacion)

<div class="a-fixed-left-grid a-spacing-extra-large" data-hook="reviews-medley-widget" id="reviewsMedley">
<div class="a-fixed-left-grid-inner" style="padding-left:300px">
<div class="a-fixed-left-grid-col a-col-left" style="width:300px;margin-left:-300px;float:left;">
<div class="a-row">
<h2>
    Opiniones de clientes
</h2>
</div>
<div class="a-section a-spacing-none a-spacing-top-mini cr-widget-ACR">
<div class="a-fixed-left-grid AverageCustomerReviews a-spacing-small">
<div class="a-fixed-left-grid-inner" style="padding-left:105px">
<div class="a-fixed-left-grid-col a-col-left" style="width:105px;margin-left:-105px;float:left;">
<i class="a-icon a-icon-star-medium a-star-medium-4-5 averageStarRating" data-hook="average-star-rating">
<span class="a-icon-alt">
    4.7 de 5 estrellas
</span>
</i>
</div>
<div class="a-fixed-left-grid-col aok-align-center a-col-right" style="padding-left:0%;float:left;">
<div class="a-row">
<span class="a-size-base a-nowrap">
<span class="a-size-medium a-color-base" data-hook="rating-out-of-text">
    4.7 de 5
</span>
</div>
```

```
In [12]: cali=calificacion.find('span','a-size-medium a-color-base').text.strip()
print(cali)
```

4.7 de 5

```
In [13]: # Extraer las descripciones del artículo
descripcion=soup2.find(id='feature-bullets').get_text().strip()
descripcion = descripcion.replace('\n',"")
descripcion = descripcion.replace('  ','')
descripcion = descripcion.replace('Sobre este artículo ','')
print(descripcion)
```

Importado Multifunción con alarma 1/100 segundo cronómetro Temporizador de cuenta atrás Medición de la unidad Día, fecha y mes

```
In [14]: # Establecer al fecha del día de la recolección
today = datetime.date.today()
print(today)
```

2022-06-15

```
In [15]: # Creación de un CSV para guardar los datos
import csv
header = ['Articulo','Precio','Fecha','Calificación','Descripción']
data = [title, price, today, cali, descripcion]

with open('AmazonScrappingData.csv', 'w', newline='', encoding='UTF8') as f:
    writer=csv.writer(f)
    writer.writerow(header)
    writer.writerow(data)
```



```
In [16]: # Leer y llevar el archivo creado a un dataframe
import pandas as pd
df = pd.read_csv('AmazonScrappingData.csv')
```

```
In [17]: # Visualizar las primeras filas del df
df.head()
```

	Articulo	Precio	Fecha	Calificación	Descripción
0	Casio G-Shock reloj digital clásico para hombr...	38.69	2022-06-15	4.7 de 5	Importado Multifunción con alarma 1/100 segund...

```
In [18]: # Obtener las opiniones destacadas del producto
opiniones = []
for i in soup2.find_all('span', 'cr-original-review-content'):
    ii=i.getText().replace('\n', "").replace(' ', "")
    opiniones.append(ii)
```

In [19]: opinionones

```
[' One Watch To Rule Them All',
```

```
"It's the watch your dad had in 1989. It is cool for this fact because you are now the same age as your dad in 1989. You never understood this basic watch in your younger years since you always wanted a Rolex or Omega. You always wanted a Lamborghini or Ferrari too but guess what? You are older and drive a paid off Camry and just like that Camry this little beauty is the most practical thing ever and can probably survive WWII I. It can get beat up, neglected, you can leave it on at the neighbor's pool party and it will always be there to tell you happily that lunch time is in 10 minutes. Yeah 10 minutes can you believe that the morning went so quick for a Tuesday? Also remember it is now March. Yeah February kinda flew by right? It is a certain confidence that lets the world know you aren't compensating for any lack of character. It's not even solar. Keep of the light button and the battery will last 11 years no problem but, you will probably drop it on a cruise before then and have an archaeologist in 3789 C.E. find it in the now drained ocean and think it is an ancient symbol of our god 'Casio'. Yeah it is tougher than nails. And yes button 'A' is recessed more than the other buttons so your grubby mitts won't accidentally hit it and engage the 'change time' mode and end up you perfectly synced quartz Feng Shui. Casio has got you bro. ",
```

```
' Survived Army Basic Training and Afghanistan',
```

```
"When I joined the US Army we were given a cheap army branded watch to use. It sucked. It didn't survive a week. I wrote home and weeks later got what I asked for. A Casio G Shock, the same model the I saw many others in my platoon use. It survived thousands of push-ups on pavement, dirt, rocks. It survived low crawling hundreds of meters through thick Georgia brush. It survived all the mud, sweat and moisture and bangs the army could throw at it. Now it's in Afghanistan with me. It's comfortable to keep under the cuff of my OCP uniform. You will forget it's even there. I thought about swapping the band out with a nicer one but it's really not needed, it's durable and comfortable. I never take it off, wear it in the shower and never had an issue. Before deploying I swam in the ocean with it and worked fine. If you need a watch that can survive any life style this is the one. ",
```

```
' Awesome Classic G-Shock',
```

```
"This is actually my first Square G-Shock. I'm used to wearing the ones with the sensors, tough solar, and automatic time-keeping, and I didn't think I'd wear this one a lot. But I actually wear it a lot! This is the closest you'll get to the original 1983 DW 5000. I can see why G-Shock fans love this watch. The light is pretty darn bright, and you also have a feature where you can make the watch light up whenever you have an alarm or the hourly time signal on. Sure, it doesn't have auto-light, but hey, it's a classic G-Shock. It has the 3 basic functions: stopwatch with split time, a timer that runs 24 hours, and an alarm. Few things I need to mention for those considering getting this watch for the first time. The stopwatch and timer both show the current time when you're in their modes. This is one of the reasons I decided to get the DW 5600e. I tried the GWM 5610 but I had to return it because both the stopwatch and timer would not display the current time. The timer: it runs 24 hours, and it displays the current time. What's also cool about the timer is that you can also set seconds, and any amount of seconds is fine, whether you want 5 seconds or even just 2 seconds or so. Very cool. As for the alarm, again, just one alarm. An interesting thing about the alarm is that you can set an alarm for a certain month and day. This would be cool if the watch had more than one alarm. 4 alarms would be good for this kind of date feature. I use a lot of alarms every day, so the month/day feature on the one single alarm is interesting. The beeps are pretty audible and it has that classic Casio sound. However, keep in mind that the sound can't be muted. Again, classic G-Shock. Unlike most modern squares, the adjust button is less visible on the side. But it's not difficult to press. In fact, all the buttons are easy to press. Also, whenever you play around with any of the modes of the watch, when you press the mode button, you automatically go back to the current time. Since there's only 3 basic features and the buttons are easy to press, this isn't too big of a deal. Lastly, when setting current time, timer, and alarm, you only get one button to use after you press adjust, and it only goes forward. I didn't like it at first, but when you hold the button down, the numbers move pretty fast. I got used to it after a day or two. I've seen videos of people in Japan testing this particular watch, and man, it's a tough guy! I've seen it been dropped from several stories high, crushed by machinery, sunk 200 M below the
```

e sea, and I've even seen it completely covered in mud. It's almost as tough as a basic Mudmaster. The strap is extremely comfortable and the watch is so light you sometimes forget you're wearing it. The watch stays on beat almost all the time. I never have to worry about adjusting the time once in a while or have it be off by a few seconds. Overall, this is an awesome watch and one that everyone, especially G-Shock fans, should have at some point in their lives. There, I think I've covered everything I could.",

" I'll probably die before this watch does.",

"It's cheap, it's waterproof and it tells time. This thing will likely outlast me. And when the battery dies in a few years, I can just replace it with a new one for \$1. You can't go wrong with this. ",

'G-SHOCKの原点 ',

' 普段はカシオの、F-91WやF-105Wを着けることが多いです。 どちらも1000円にも満たない、本当にいい時計です。僕はそれらが好きだから、仕事でもプライベートでも、海外旅行でもスポーツでも、よっぽどフォーマルな場を除いては、大体着けています。だから、僕の場合他の時計はあんまり必要がないのだけど、ある種の所有欲や、TPOにそぐわない場面のために、いわゆるチプカシ以外の時計も一応持っています。このG-SHOCKも持っています。僕はチプカシが本当にかっこいいと思ってるけど、たとえいい物はいいと思える人でも、1000円の腕時計ははめて歩けないという人もいるでしょう。そういう人にはこのスピードモデルがおすすめです。また、彼へのプレゼントにも、いいと思います。男性でこのデザインを好まない人はあまりいません。いろんなスタイルにも合わせやすいですね。僕がもしこの時計を女性からプレゼントされたら、その女性のことをいっぺんに好きになってしまいます。さて、微妙にチプカシのレビューのようになってしまいましたが、このスピードモデルはまさに鉄板、そして王道。絶対に間違いありません。 ',

'8年経過後... ',

' 8年間使ってます。 なんやかんやアウトドア、日常、仕事とずっと装着してます。 付いている傷は微小だし、電池は切れないし、全く良いパートナーです。 2020年7月追記。 ついに電池が切れました。バックライト、アラームはほぼ使用せずです。 2011年の10月に購入して2020年7月に切れたので...8年9ヶ月電池が持ちました。 ',

'A watch for virgins ',

" This is a legendary watch - just as ugly and functional as the original 5600 from 1987. I can't think of a better beater watch for your money. This thing is practically indestructible, and it keeps amazingly good time for an inexpensive timepiece. Since I am absolutely anal about accuracy, I adjust it occasionally using the National Institute of Standards and Technology (NIST), and the U. S. Naval Observatory (USNO) atomic clocks, and it's never out by more than a second or two. Very impressive. Another nice thing about this watch is that it doesn't look like a Transformer toy strapped to your wrist like some other G-Shocks do. The DW5600E has a lower profile and you can actually wear it under the cuff of a dress shirt. This watch is also very lightweight and comfortable. You won't even know you're wearing it. Save for a few small details here or there, it's incredibly similar to the original but uses a plastic case in place of the original's blacked-out stainless steel. Actually, the cheaper material works in the watch's favor. For one, it means it will remain very affordable. Secondly, because plastic has an elasticity to it that metal just doesn't have, it absorbs shocks better. Finally, there are the pop culture references that make this watch timeless. James Bond never wore it, but Steve Carell did in The 40-Year-Old Virgin. It's been spotted in many other shows and movies as well. When your friends ask you about it you can proudly say that it is the official watch of virgins worldwide. "]"

In [20]: *# Llevar el arreglo con las opiniones a un DataFrame*

```
df_opiniones = pd.DataFrame(data=opiniones)
```

```
df_opiniones.columns=['Opiniones']
```

```
In [21]: # Visualización del DataFrame con las opiniones
df_opiniones
```

### Opiniones

- 0 One Watch To Rule Them All
- 1 It's the watch your dad had in 1989. It is coo...
- 2 Survived Army Basic Training and Afghanistan
- 3 When I joined the US Army we were given a chea...
- 4 Awesome Classic G-Shock
- 5 This is actually my first Square G-Shock. I'm...
- 6 I'll probably die before this watch does.
- 7 It's cheap, it's waterproof and it tells time....
- 8 G-SHOCKの原点
- 9 普段はカシオの、F-91WやF-105Wを着けることが多いです。どちらも1000円に...
- 10 8年経過後...
- 11 8年間使ってます。なんやかんやアウトドア、日常、仕事とずっと装着してます。付いている...
- 12 Awatch for virgins
- 13 This is a legendary watch - just as ugly and...

```
In [26]: from textblob import TextBlob
from wordcloud import WordCloud
import pandas as pd
```

```
In [27]: # Definir la función para obtener la polaridad del texto
def obtener_polaridad (texto):
    return TextBlob(texto).sentiment.polarity
```

```
In [28]: # Obtener la polaridad del texto en el DataFrame
df_opiniones['polaridad'] = df_opiniones['Opiniones'].apply(obtener_polaridad)
```

```
In [29]: # Visualizar el DataFrame una vez calculada la polaridad
df_opiniones
```

	Opiniones	polaridad
0	One Watch To Rule Them All	0.000000
1	It's the watch your dad had in 1989. It is coo...	0.264844
2	Survived Army Basic Training and Afghanistan	0.000000
3	When I joined the US Army we were given a chea...	0.171667
4	Awesome Classic G-Shock	0.583333
5	This is actually my first Square G-Shock. I'm...	0.191742
6	I'll probably die before this watch does.	0.000000
7	It's cheap, it's waterproof and it tells time....	-0.032727
8	G-SHOCKの原点	0.000000
9	普段はカシオの、F-91WやF-105Wを着けることが多いです。どちらも1000円に...	0.000000
10	8年経過後...	0.000000
11	8年間使ってます。なんやかんやアウトドア、日常、仕事とずっと装着してます。付いている...	0.000000
12	A watch for virgins	0.000000
13	This is a legendary watch - just as ugly and...	0.242241

```
In [30]: # Llevar el Dataframe con las opiniones y la polaridad a un archivo CSV
df_opiniones.to_csv('df_opiniones')
```

```
In [31]: # Creación de la función para la asignación de la polaridad.
def x_range (x):
    if x > 0:
        return 'Positivo'
    elif x == 0:
        return 'Neutro'
    else:
        return 'Negativo'
```

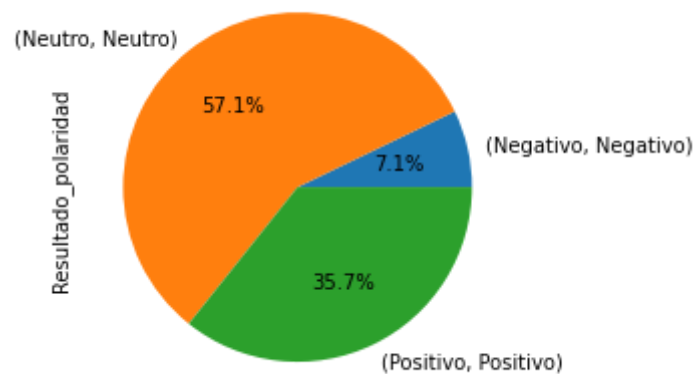
```
In [32]: # Aplicación de la función a los datos de polaridad
df_opiniones['Resultado_polaridad'] = df_opiniones['polaridad'].apply(x_range)
```

```
In [33]: # Visualización del resultado de la polaridad de las opiniones
df_opiniones
```

	Opiniones	polaridad	Resultado_polaridad
0	One Watch To Rule Them All	0.000000	Neutro
1	It's the watch your dad had in 1989. It is coo...	0.264844	Positivo
2	Survived Army Basic Training and Afghanistan	0.000000	Neutro
3	When I joined the US Army we were given a chea...	0.171667	Positivo
4	Awesome Classic G-Shock	0.583333	Positivo
5	This is actually my first Square G-Shock. I'm...	0.191742	Positivo
6	I'll probably die before this watch does.	0.000000	Neutro
7	It's cheap, it's waterproof and it tells time....	-0.032727	Negativo
8	G-SHOCKの原点	0.000000	Neutro
9	普段はカシオの、F-91WやF-105Wを着けることが多いです。どちらも1000円に...	0.000000	Neutro
10	8年経過後...	0.000000	Neutro
11	8年間使ってます。なんやかんやアウトドア、日常、仕事とずっと装着してます。付いている...	0.000000	Neutro
12	Awatch for virgins	0.000000	Neutro
13	This is a legendary watch - just as ugly and...	0.242241	Positivo

```
In [34]: # Gráfico de pie chart con los datos de la polaridad del texto
data = df_opiniones.groupby("Resultado_polaridad")["Resultado_polaridad"].value_counts()
data.plot.pie(autopct="%.1f%%")
```

<AxesSubplot:ylabel='Resultado\_polaridad'>





```
In [35]: # Creación de nube de términos
# Transformación de todo el texto de las opiniones en uno solo
todo_texto = ''.join(df_opiniones['Opiniones'])
todo_texto
```

" One Watch To Rule Them AllIt's the watch your dad had in 1989. It is cool for this fact because you are now the same age as your dad in 1989. You never understood this basic watch in your younger years since you always wanted a Rolex or Omega. You always wanted a Lamborghini or Ferrari too but guess what? You are older and drive a paid off Camry and just like that Camry this little beauty is the most practical thing ever and can probably survive WWII. It can get beat up, neglected, you can leave it on at the neighbor's pool party and it will always be there to tell you happily that lunch time is in 10 minutes.Yeah 10 minutes can you believe that the morning went so quick for a Tuesday? Also remember it is now March. Yeah February kinda flew by right? It is a certain confidence that lets the world know you aren't compensating for any lack of character. It's not even solar. Keep of the light button and the battery will last 11 years no problem but, you will probably drop it on a cruise before then and have a archaeologist in 3789 C.E. find it in the now drained ocean and think it is a ancient symbol of our god 'Casio'. Yeah it is tougher than nails. And yes button 'A' is recessed more than the other buttons so your grubby mitts won't accidentally hit it and engage the 'change time' mode and eff up you perfectly synced quartz Feng Shui. Casio has got you bro. Survived Army Basic Training and AfghanistanWhen I joined the US Army we were given a cheap army branded watch to use. It sucked. It didn't survive a week. I wrote home and weeks later got what I asked for. A Casio G-Shock, the same model the I saw many others in my platoon use. It survived thousands of push-ups on pavement, dirt, rocks. It survived low crawling hundreds of meters through thick Georgia brush. It survived all the mud, sweat and moisture and bangs the army could throw at it. Now it's in Afghanistan with me. It's comfortable to keep under the cuff of my OCP uniform. You will forget it's even there. I thought about swapping the band out with a nicer one but it's really not needed, it's durable and comfortable. I never take it off, wear it in the shower and never had an issue. Before deploying I swam in the ocean with it and worked fine. If you need a watch that can survive any lifestyle this is the one. Awesome Classic G-ShockThis is actually my first Square G-Shock. I'm used to wearing the ones with the sensors, tough solar, and automatic time-keeping, and I didn't think I'd wear this one a lot. But I actually wear it a lot! This is the closest you'll get to the original 1983 DW 5000. I can see why G-Shock fans love this watch. The light is pretty darn bright, and you also have a feature where you can make the watch light up whenever you have an alarm or the hourly time signal on. Sure, it doesn't have auto-light, but hey, it's a classic G-Shock. It has the 3 basic functions: stopwatch with split time, a timer that runs 24 hours, and an alarm. Few things I need to mention for those considering getting this watch for the first time. The stopwatch and timer both show the current time when you're in their modes. This is one of the reasons I decided to get the DW 5600e. I tried the GWM 5610 but I had to return it because both the stopwatch and timer would not display the current time. The timer: it runs 24 hours, and it displays the current time. What's also cool about the timer is that you can also set seconds, and any amount of seconds is fine, whether you want 5 seconds or even just 2 seconds or so. Very cool. As for the alarm, again, just one alarm. An interesting thing about the alarm is that you can set an alarm for a certain month and day. This would be cool if the watch had more than one alarm. 4 alarms would be good for this kind of date feature. I use a lot of alarms every day, so the month/day feature on the one single alarm is interesting. The beeps are pretty audible and it has that classic Casio sound. However, keep in mind that the sound can't be muted. Again, classic G-Shock. Unlike most modern squares, the adjust button is less visible on the side. But it's not difficult to press. In fact, all the buttons are easy to press. Also, whenever you play around with any of the modes of the watch, when you press the mode button, you automatically go back to the current time. Since there's only 3 basic features and the buttons are easy to press, this isn't too big of a deal. Lastly, when setting current time, timer, and alarm, you only get one button to use after you press adjust, and it only goes forward. I didn't like it at first, but when you hold the button down, the numbers move pretty fast. I got used to it after a day or two. I've

seen videos of people in Japan testing this particular watch, and man, it's a tough guy! I've seen it been dropped from several stories high, crushed by machinery, sunk 200 M below the sea, and I've even seen it completely covered in mud. It's almost as tough as a basic Mudmaster. The strap is extremely comfortable and the watch is so light you sometimes forget you're wearing it. The watch stays on beat almost all the time. I never have to worry about adjusting the time once in a while or have it be off by a few seconds. Overall, this is an awesome watch and one that everyone, especially G-Shock fans, should have at some point in their lives. There, I think I've covered everything I could. I'll probably die before this watch does. It's cheap, it's waterproof and it tells time. This thing will likely outlast me. And when the battery dies in a few years, I can just replace it with a new one for \$1. You can't go wrong with this. G-SHOCKの原点 普段はカシオの、F-91WやF-105Wを着けることが多いです。どちらも1000円にも満たない、本当にいい時計です。僕はそれらが好きだから、仕事でもプライベートでも、海外旅行でもスポーツでも、よっぽどフォーマルな場を除いては、大体着けています。だから、僕の場合他の時計はあんまり必要性がないのだけど、ある種の所有欲や、TPOにそぐわない場面のために、いわゆるチプカシ以外の時計も一応持っています。このG-SHOCKも持っています。僕はチプカシが本当にかっこいいと思ってるけど、たとえいい物はいいと思える人でも、1000円の腕時計ははめて歩けないという人もいるでしょう。そういう人にはこのスピードモデルがおすすめです。また、彼へのプレゼントにも、いいと思います。男性でこのデザインを好まない人はあまりいません。いろんなスタイルにも合わせやすいですね。僕がもしこの時計を女性からプレゼントされたら、その女性のことをいっぺんに好きになってしまいます。さて、微妙にチプカシのレビューのようになってしまいましたが、このスピードモデルはまさに鉄板、そして王道。絶対に間違いありません。8年経過後... 8年間使ってます。なんやかんやアウトドア、日常、仕事とずっと装着してます。付いている傷は微小だし、電池は切れないし、全く良いパートナーです。2020年7月追記。ついに電池が切れました。バックライト、アラームはほぼ使用せずです。2011年の10月に購入して2020年7月に切れたので...8年9ヶ月電池が持ちました。 A watch for virgins This is a legendary watch - just as ugly and functional as the original 5600 from 1987. I can't think of a better beater watch for your money. This thing is practically indestructible, and it keeps amazingly good time for an inexpensive timepiece. Since I am absolutely anal about accuracy, I adjust it occasionally using the National Institute of Standards and Technology (NIST), and the U. S. Naval Observatory (USNO) atomic clocks, and it's never out by more than a second or two. Very impressive. Another nice thing about this watch is that it doesn't look like a Transformer toy strapped to your wrist like some other G-Shocks do. The DW5600E has a lower profile and you can actually wear it under the cuff of a dress shirt. This watch is also very lightweight and comfortable. You won't even know you're wearing it. Save for a few small details here or there, it's incredibly similar to the original but uses a plastic case in place of the original's blacked-out stainless steel. Actually, the cheaper material works in the watch's favor. For one, it means it will remain very affordable. Secondly, because plastic has an elasticity to it that metal just doesn't have, it absorbs shocks better. Finally, there are the pop culture references that make this watch timeless. James Bond never wore it, but Steve Carell did in The 40-Year-Old Virgin. It's been spotted in many other shows and movies as well. When your friends ask you about it you can proudly say that it is the official watch of virgins worldwide. "

```
In [36]: # Importar librerías requeridas para la eliminación de stopwords y la tokenización del texto
import nltk
nltk.download('stopwords')
from nltk.corpus import stopwords
print(stopwords.words('english'))
from nltk.tokenize import word_tokenize
nltk.download('punkt')
```

```
['i', 'me', 'my', 'myself', 'we', 'our', 'ours', 'ourselves', 'you', "you're", "you've", "you'll", "you'd", 'your', 'yours', 'yourself', 'yourselves', 'he', 'him', 'his', 'himself', 'she', "she's", 'her', 'hers', 'herself', 'it', "it's", 'its', 'itself', 'they', 'them', 'their', 'theirs', 'themselves', 'what', 'which', 'who', 'whom', 'this', 'that', "that'll", 'these', 'those', 'am', 'is', 'are', 'was', 'were', 'be', 'been', 'being', 'have', 'has', 'had', 'having', 'do', 'does', 'did', 'doing', 'a', 'an', 'the', 'and', 'but', 'if', 'or', 'because', 'as', 'until', 'while', 'of', 'at', 'by', 'for', 'with', 'about', 'against', 'between', 'into', 'through', 'during', 'before', 'after', 'above', 'below', 'to', 'from', 'up', 'down', 'in', 'out', 'on', 'off', 'over', 'under', 'again', 'further', 'then', 'once', 'here', 'there', 'when', 'where', 'why', 'how', 'all', 'any', 'both', 'each', 'few', 'more', 'most', 'other', 'some', 'such', 'no', 'nor', 'not', 'only', 'own', 'same', 'so', 'than', 'too', 'very', 's', 't', 'can', 'will', 'just', 'don', "don't", 'should', "should've", 'now', 'd', 'll', 'm', 'o', 're', 've', 'y', 'ain', 'are n', "aren't", 'couldn', "couldn't", 'didn', "didn't", 'doesn', "doesn't", 'hadn', "hadn't", 'hasn', "hasn't", 'haven', "haven't", 'isn', "isn't", 'ma', 'mightn', "mightn't", 'mustn', "mustn't", 'needn', "needn't", 'shan', "shan't", 'shouldn', "shouldn't", 'wasn', "wasn't", 'weren', "weren't", 'won', "won't", 'wouldn', "wouldn't"]
```

```
[nltk_data] Downloading package stopwords to C:\Users\usuario.DESKTOP-3A59NKC.000\AppData\Roaming\nltk_data...
[nltk_data] Package stopwords is already up-to-date!
[nltk_data] Downloading package punkt to C:\Users\usuario.DESKTOP-3A59NKC.000\AppData\Roaming\nltk_data...
[nltk_data] Package punkt is already up-to-date!
```

```
True
```

In [37]: *# Generación de arreglos con las stopwords y la tokenización del texto*

```
stop_words = set(stopwords.words('english'))
```

```
word_tokens = word_tokenize(todo_texto)
```

*# Generación del texto filtrando las stopwords*

```
todo_texto_filtrado = [w for w in word_tokens if not w.lower() in stop_words]
```

```
todo_texto_filtrado = []
```

```
for w in word_tokens:
```

```
    if w not in stop_words:
```

```
        todo_texto_filtrado.append(w)
```

*# Visualización del texto tokenizado*

```
print(word_tokens)
```

*# Visualización del texto sin stopwords*

```
print(todo_texto_filtrado)
```

```
['One', 'Watch', 'To', 'Rule', 'Them', 'AllIt', '"s", 'the', 'watch', 'your', 'dad', 'had', 'in', '1989', '.', 'It', 'is', 'cool', 'for', 'th
is', 'fact', 'because', 'you', 'are', 'now', 'the', 'same', 'age', 'as', 'your', 'dad', 'in', '1989', '.', 'You', 'never', 'understood', 'thi
s', 'basic', 'watch', 'in', 'your', 'younger', 'years', 'since', 'you', 'always', 'wanted', 'a', 'Rolex', 'or', 'Omega', '.', 'You', 'alway
s', 'wanted', 'a', 'Lamborghini', 'or', 'Ferrari', 'too', 'but', 'guess', 'what', '?', 'You', 'are', 'older', 'and', 'drive', 'a', 'paid', 'o
ff', 'Camry', 'and', 'just', 'like', 'that', 'Camry', 'this', 'little', 'beauty', 'is', 'the', 'most', 'practical', 'thing', 'ever', 'and',
'can', 'probably', 'survive', 'WWIII', '.', 'It', 'can', 'get', 'beat', 'up', ',', 'neglected', ',', 'you', 'can', 'leave', 'it', 'on', 'at',
'the', 'neighbor', '"s", 'pool', 'party', 'and', 'it', 'will', 'always', 'be', 'there', 'to', 'tell', 'you', 'happily', 'that', 'lunch', 'tim
e', 'is', 'in', '10', 'minutes.Yeah', '10', 'minutes', 'can', 'you', 'believe', 'that', 'the', 'morning', 'went', 'so', 'quick', 'for', 'a',
'Tuesday', '?', 'Also', 'remember', 'it', 'is', 'now', 'March', '.', 'Yeah', 'February', 'kinda', 'flew', 'by', 'right', '?', 'It', 'is',
'a', 'certain', 'confidence', 'that', 'lets', 'the', 'world', 'know', 'you', 'are', 'n't', 'compensating', 'for', 'any', 'lack', 'of', 'chara
cter', '.', 'It', '"s", 'not', 'even', 'solar', '.', 'Keep', 'of', 'the', 'light', 'button', 'and', 'the', 'battery', 'will', 'last', '11',
'years', 'no', 'problem', 'but', ',', 'you', 'will', 'probably', 'drop', 'it', 'on', 'a', 'cruse', 'before', 'then', 'and', 'have', 'a', 'arc
haeologist', 'in', '3789', 'C.E', '.', 'find', 'it', 'in', 'the', 'now', 'drained', 'ocean', 'and', 'think', 'it', 'is', 'a', 'ancient', 'sym
bol', 'of', 'our', 'god', '"Casio", ""', '.', 'Yeah', 'it', 'is', 'tougher', 'than', 'nails', '.', 'And', 'yes', 'button', '"', 'A', '"', 'i
s', 'recessed', 'more', 'than', 'the', 'other', 'buttons', 'so', 'your', 'grubby', 'mitts', 'wo', 'n't', 'accidentally', 'hit', 'it', 'and',
'engage', 'the', '"change", 'time', '"', 'mode', 'and', 'eff', 'up', 'you', 'perfectly', 'synced', 'quartz', 'Feng', 'Shui', '.', 'Casio', 'h
as', 'got', 'you', 'bro', '.', 'Survived', 'Army', 'Basic', 'Training', 'and', 'AfghanistanWhen', 'I', 'joined', 'the', 'US', 'Army', 'we',
```

'were', 'given', 'a', 'cheap', 'army', 'branded', 'watch', 'to', 'use', '.', 'It', 'sucked', '.', 'It', 'did', "n't", 'survive', 'a', 'week', '.', 'I', 'wrote', 'home', 'and', 'weeks', 'later', 'got', 'what', 'I', 'asked', 'for', '.', 'A', 'Casio', 'g', 'shock', ',', 'the', 'same', 'model', 'the', 'I', 'saw', 'many', 'others', 'in', 'my', 'platoon', 'use', '.', 'It', 'survived', 'thousands', 'of', 'push-ups', 'on', 'pave ment', ',', 'dirt', ',', 'rocks', '.', 'It', 'survived', 'low', 'crawling', 'hundreds', 'of', 'meters', 'through', 'thick', 'Georgia', 'brus h', '.', 'It', 'survived', 'all', 'the', 'mud', ',', 'sweat', 'and', 'moisture', 'and', 'bangs', 'the', 'army', 'could', 'throw', 'at', 'it', '.', 'Now', 'it', "'s", 'in', 'Afghanistan', 'with', 'me', '.', 'It', "'s", 'comfortable', 'to', 'keep', 'under', 'the', 'cuff', 'of', 'my', 'OCP', 'uniform', '.', 'You', 'will', 'forget', 'it', "'s", 'even', 'there', '.', 'I', 'though', 'about', 'swapping', 'the', 'band', 'out', 'with', 'a', 'nicer', 'one', 'but', 'it', "'s", 'really', 'not', 'needed', ',', 'it', "'s", 'durable', 'and', 'comfortable', '.', 'I', 'neve r', 'take', 'it', 'off', ',', 'wear', 'it', 'in', 'the', 'shower', 'and', 'never', 'had', 'an', 'issue', '.', 'Before', 'deploying', 'I', 'sw am', 'in', 'the', 'ocean', 'with', 'it', 'and', 'worked', 'fine', '.', 'If', 'you', 'need', 'a', 'watch', 'that', 'can', 'survive', 'any', 'l ife', 'style', 'this', 'is', 'the', 'one', '.', 'Awesome', 'Classic', 'G-ShockThis', 'is', 'actually', 'my', 'first', 'Square', 'G-Shock', '.', 'I', "'m", 'used', 'to', 'wearing', 'the', 'ones', 'with', 'the', 'sensors', ',', 'tough', 'solar', ',', 'and', 'automatic', 'time-keepi ng', ',', 'and', 'I', 'did', "n't", 'think', 'I', "'d", 'wear', 'this', 'one', 'a', 'lot', '.', 'But', 'I', 'actually', 'wear', 'it', 'a', 'l ot', '!', 'This', 'is', 'the', 'closest', 'you', "'ll", 'get', 'to', 'the', 'original', '1983', 'DW', '5000', '.', 'I', 'can', 'see', 'why', 'G-Shock', 'fans', 'love', 'this', 'watch', '.', 'The', 'light', 'is', 'pretty', 'darn', 'bright', ',', 'and', 'you', 'also', 'have', 'a', 'f eature', 'where', 'you', 'can', 'make', 'the', 'watch', 'light', 'up', 'whenever', 'you', 'have', 'an', 'alarm', 'or', 'the', 'hourly', 'tim e', 'signal', 'on', '.', 'Sure', ',', 'it', 'does', "n't", 'have', 'auto-light', ',', 'but', 'hey', ',', 'it', "'s", 'a', 'classic', 'G-Shoc k', '.', 'It', 'has', 'the', '3', 'basic', 'functions', ':', 'stopwatch', 'with', 'split', 'time', ',', 'a', 'timer', 'that', 'runs', '24', 'hours', ',', 'and', 'an', 'alarm', '.', 'Few', 'things', 'I', 'need', 'to', 'mention', 'for', 'those', 'considering', 'getting', 'this', 'wa tch', 'for', 'the', 'first', 'time', '.', 'The', 'stopwatch', 'and', 'timer', 'both', 'show', 'the', 'current', 'time', 'when', 'you', "'re", 'in', 'their', 'modes', '.', 'This', 'is', 'one', 'of', 'the', 'reasons', 'I', 'decided', 'to', 'get', 'the', 'DW', '5600e', '.', 'I', 'trie d', 'the', 'GWM', '5610', 'but', 'I', 'had', 'to', 'return', 'it', 'because', 'both', 'the', 'stopwatch', 'and', 'timer', 'would', 'not', 'di splay', 'the', 'current', 'time', '.', 'The', 'timer', ':', 'it', 'runs', '24', 'hours', ',', 'and', 'it', 'displays', 'the', 'current', 'tim e', '.', 'What', "'s", 'also', 'cool', 'about', 'the', 'timer', 'is', 'that', 'you', 'can', 'also', 'set', 'seconds', ',', 'and', 'any', 'amo unt', 'of', 'seconds', 'is', 'fine', ',', 'whether', 'you', 'want', '5', 'seconds', 'or', 'even', 'just', '2', 'seconds', 'or', 'so', '.', 'V ery', 'cool', '.', 'As', 'for', 'the', 'alarm', ',', 'again', ',', 'just', 'one', 'alarm', '.', 'An', 'interesting', 'thing', 'about', 'the', 'alarm', 'is', 'that', 'you', 'can', 'set', 'an', 'alarm', 'for', 'a', 'certain', 'month', 'and', 'day', '.', 'This', 'would', 'be', 'cool', 'if', 'the', 'watch', 'had', 'more', 'than', 'one', 'alarm', '.', '4', 'alarms', 'would', 'good', 'for', 'this', 'kind', 'of', 'date', 'featu re', '.', 'I', 'use', 'a', 'lot', 'of', 'alarms', 'every', 'day', ',', 'so', 'the', 'month/day', 'feature', 'on', 'the', 'one', 'single', 'al arm', 'is', 'interesting', '.', 'The', 'beeps', 'are', 'pretty', 'audible', 'and', 'it', 'has', 'that', 'classic', 'Casio', 'sound', '.', 'Ho wever', ',', 'keep', 'in', 'mind', 'that', 'the', 'sound', 'ca', "n't", 'be', 'muted', '.', 'Again', ',', 'classic', 'G-Shock', '.', 'Unlik e', 'most', 'modern', 'squares', ',', 'the', 'adjust', 'button', 'is', 'less', 'visible', 'on', 'the', 'side', '.', 'But', 'it', "'s", 'not', 'difficult', 'to', 'press', '.', 'In', 'fact', ',', 'all', 'the', 'buttons', 'are', 'easy', 'to', 'press', '.', 'Also', ',', 'whenever', 'yo u', 'play', 'around', 'with', 'any', 'of', 'the', 'modes', 'of', 'the', 'watch', ',', 'when', 'you', 'press', 'the', 'mode', 'button', ',', 'you', 'automatically', 'go', 'back', 'to', 'the', 'current', 'time', '.', 'Since', 'there', "'s", 'only', '3', 'basic', 'features', 'and', 'the', 'buttons', 'are', 'easy', 'to', 'press', ',', 'this', 'is', "n't", 'too', 'big', 'of', 'a', 'deal', '.', 'Lastly', ',', 'when', 'setti ng', 'current', 'time', ',', 'timer', ',', 'and', 'alarm', ',', 'you', 'only', 'get', 'one', 'button', 'to', 'use', 'after', 'you', 'press', 'adjust', ',', 'and', 'it', 'only', 'goes', 'forward', '.', 'I', 'did', "n't", 'like', 'it', 'at', 'first', ',', 'but', 'when', 'you', 'hol d', 'the', 'button', 'down', ',', 'the', 'numbers', 'more', 'pretty', 'fast', '.', 'I', 'got', 'used', 'to', 'it', 'after', 'a', 'day', 'on', 'two', '.', 'I', "'ve", 'seen', 'videos', 'of', 'people', 'in', 'Japan', 'testing', 'this', 'particular', 'watch', ',', 'and', 'man', ',', 'i t', "'s", 'a', 'tough', 'guy', '!', 'I', "'ve", 'seen', 'it', 'been', 'dropped', 'from', 'several', 'stories', 'high', ',', 'crushed', 'by',

'machinery', ',', 'sunk', '200', 'M', 'below', 'the', 'sea', ',', 'and', 'I', "'ve", 'even', 'seen', 'it', 'completely', 'covered', 'in', 'mud', '.', 'It', "'s", 'almost', 'as', 'tough', 'as', 'a', 'basic', 'Mudmaster', '.', 'The', 'strap', 'is', 'extremely', 'comfortable', 'and', 'the', 'watch', 'is', 'so', 'light', 'you', 'sometimes', 'forget', 'you', "'re", 'wearing', 'it', '.', 'The', 'watch', 'stays', 'on', 'beat', 'almost', 'all', 'the', 'time', '.', 'I', 'never', 'have', 'to', 'worry', 'about', 'adjusting', 'the', 'time', 'once', 'in', 'a', 'while', 'or', 'have', 'it', 'be', 'off', 'by', 'a', 'few', 'seconds', '.', 'Overall', ',', 'this', 'is', 'an', 'awesome', 'watch', 'and', 'one', 'that', 'everyone', ',', 'especially', 'G-Shock', 'fans', ',', 'should', 'have', 'at', 'some', 'point', 'in', 'their', 'lives', '.', 'There', ',', 'I', 'think', 'I', "'ve", 'covered', 'everything', 'I', 'could', '.', 'I', "'ll", 'probably', 'die', 'before', 'this', 'watch', 'does. It', "'s", 'cheap', ',', 'it', "'s", 'waterproof', 'and', 'it', 'tells', 'time', '.', 'This', 'thing', 'will', 'likely', 'outlast', 'me', '.', 'And', 'when', 'the', 'battery', 'dies', 'in', 'a', 'few', 'years', ',', 'I', 'can', 'just', 'replace', 'it', 'with', 'a', 'new', 'one', 'for', '\$', '1', '.', 'You', 'ca', "n't", 'go', 'wrong', 'with', 'this', '.', 'G-SHOCKの原点', '普段はカシオのF-91WやF-105Wを着けることが多いです。', 'どちらも1000円にも満たない、本当にいい時計です。僕はそれらが好きだから、仕事でもプライベートでも、海外旅行でもスポーツでも、よっぽどフォーマルな場を除いては、大体着けています。だから、僕の場合他の時計はあんまり必要性がないのだけど、ある種の所有欲や、TPOにそぐわない場面のために、いわゆるチブカシ以外の時計も一応持っています。このG-SHOCKも持っています。僕はチブカシが本当にかっこいいと思ってるけど、たとえいい物はいいと思える人でも、1000円の腕時計ははめて歩けないという人もいるでしょう。そういう人にはこのスピードモデルがおすすめです。また、彼へのプレゼントにも、いいと思います。男性でこのデザインを好まない人はあまりいません。いろんなスタイルにも合わせやすいですね。僕がもしこの時計を女性からプレゼントされたら、その女性のことをいっぺんに好きになってしまいます。さて、微妙にチブカシのレビューのようになってしまいましたが、このスピードモデルはまさに鉄板、そして王道。絶対に間違いありません。', '8年経過後...', '8年間使ってます。', 'なんやかんやアウトドア、日常、仕事とずっと装着してます。', '付いている傷は微小だし、電池は切れないし、全く良いパートナーです。', '2020年7月追記。', 'ついに電池が切れました。バックライト、アラームはほぼ使用せずです。', '2011年の10月に購入して2020年7月に切れたので...8年9ヶ月電池が持ちました。', 'A', 'watch', 'for', 'virgins', 'This', 'is', 'a', 'legendary', 'watch', '-', 'just', 'as', 'ugly', 'and', 'functional', 'as', 'the', 'original', '5600', 'from', '1987', '.', 'I', 'ca', "n't", 'think', 'of', 'a', 'better', 'beater', 'watch', 'for', 'your', 'money', '.', 'This', 'thing', 'is', 'practically', 'indestructible', ',', 'and', 'it', 'keeps', 'amazingly', 'good', 'time', 'for', 'an', 'inexpensive', 'timepiece', '.', 'Since', 'I', 'am', 'absolutely', 'anal', 'about', 'accuracy', ',', 'I', 'adjust', 'it', 'occasionally', 'using', 'the', 'National', 'Institute', 'of', 'Standards', 'and', 'Technology', '(', 'NIST', ')', ',', 'and', 'the', 'U.', 'S.', 'Naval', 'Observatory', '(', 'USNO', ')', 'atomic', 'clocks', ',', 'and', 'it', "'s", 'never', 'out', 'by', 'more', 'than', 'a', 'second', 'or', 'two', '.', 'Very', 'impressive', '.', 'Another', 'nice', 'thing', 'about', 'this', 'watch', 'is', 'that', 'it', 'does', "n't", 'look', 'like', 'a', 'Transformer', 'toy', 'strapped', 'to', 'your', 'wrist', 'like', 'some', 'other', 'G-Shocks', 'do', '.', 'The', 'DW5600E', 'has', 'a', 'lower', 'profile', 'and', 'you', 'can', 'actually', 'wear', 'it', 'under', 'the', 'cuff', 'of', 'a', 'dress', 'shirt', '.', 'This', 'watch', 'is', 'also', 'very', 'lightweight', 'and', 'comfortable', '.', 'You', 'wo', "n't", 'even', 'know', 'you', "'re", 'wearing', 'it', '.', 'Save', 'for', 'a', 'few', 'small', 'details', 'here', 'or', 'there', ',', 'it', '}', 's', 'incredibly', 'similar', 'to', 'the', 'original', 'but', 'uses', 'a', 'plastic', 'case', 'in', 'place', 'of', 'the', 'original', '}', 's', 'blacked-out', 'stainless', 'steel', '.', 'Actually', ',', 'the', 'cheaper', 'material', 'works', 'in', 'the', 'watch', '}', 's', 'favor', '.', 'For', 'one', ',', 'it', 'means', 'it', 'will', 'remain', 'very', 'affordable', '.', 'Secondly', ',', 'because', 'plastic', 'has', 'an', 'elasticity', 'to', 'it', 'that', 'metal', 'just', 'doesn', '}', 't', 'have', ',', 'it', 'absorbs', 'shocks', 'better', '.', 'Finally', ',', 'there', 'are', 'the', 'pop', 'culture', 'references', 'that', 'make', 'this', 'watch', 'timeless', '.', 'James', 'Bond', 'never', 'wore', 'it', ',', 'but', 'Steve', 'Carell', 'did', 'in', 'The', '40-Year-Old', 'Virgin', '.', 'It', "'s", 'been', 'spotted', 'in', 'many', 'other', 'shows', 'and', 'movies', 'as', 'well', '.', 'When', 'your', 'friends', 'ask', 'you', 'about', 'it', 'you', 'can', 'proudly', 'say', 'that', 'it', 'is', 'the', 'official', 'watch', 'of', 'virgins', 'worldwide', '.']

['One', 'Watch', 'To', 'Rule', 'Them', 'AllIt', "'s", 'watch', 'dad', '1989', '.', 'It', 'cool', 'fact', 'age', 'dad', '1989', '.', 'You', 'never', 'understood', 'basic', 'watch', 'younger', 'years', 'since', 'always', 'wanted', 'Rolex', 'Omega', '.', 'You', 'always', 'wanted', 'Lamborghini', 'Ferrari', 'guess', '?', 'You', 'older', 'drive', 'paid', 'Camry', 'like', 'Camry', 'little', 'beauty', 'practical', 'thing', 'ever', 'probably', 'survive', 'WWIII', '.', 'It', 'get', 'beat', ',', 'neglected', ',', 'leave', 'neighbor', "'s", 'pool', 'party', 'always', 'tell', 'happily', 'lunch', 'time', '10', 'minutes.Yeah', '10', 'minutes', 'believe', 'morning', 'went', 'quick', 'Tuesday', '?', 'Also', 're

member', 'March', '.', 'Yeah', 'February', 'kinda', 'flew', 'right', '?', 'It', 'certain', 'confidence', 'lets', 'world', 'know', "n't", 'compensating', 'lack', 'character', '.', 'It', "'s", 'even', 'solar', '.', 'Keep', 'light', 'button', 'battery', 'last', '11', 'years', 'problem', ',', 'probably', 'drop', 'cruse', 'archaeologist', '3789', 'C.E', '.', 'find', 'drained', 'ocean', 'think', 'ancient', 'symbol', 'god', '"Casio", "", '.', 'Yeah', 'tougher', 'nails', '.', 'And', 'yes', 'button', "", 'A', "", 'recessed', 'buttons', 'grubby', 'mitts', 'wo', "n't", 'accidentally', 'hit', 'engage', "'change", 'time', "", 'mode', 'eff', 'perfectly', 'synced', 'quartz', 'Feng', 'Shui', '.', 'Casio', 'got', 'bro', '.', 'Survived', 'Army', 'Basic', 'Training', 'AfghanistanWhen', 'I', 'joined', 'US', 'Army', 'given', 'cheap', 'army', 'branded', 'watch', 'use', '.', 'It', 'sucked', '.', 'It', "n't", 'survive', 'week', '.', 'I', 'wrote', 'home', 'weeks', 'later', 'got', 'I', 'asked', '.', 'A', 'Casio', 'g', 'shock', ',', 'model', 'I', 'saw', 'many', 'others', 'platoon', 'use', '.', 'It', 'survived', 'thousands', 'push-ups', 'pavement', ',', 'dirt', ',', 'rocks', '.', 'It', 'survived', 'low', 'crawling', 'hundreds', 'meters', 'thick', 'Georgia', 'brush', '.', 'It', 'survived', 'mud', ',', 'sweat', 'moisture', 'bangs', 'army', 'could', 'throw', '.', 'Now', "'s", 'Afghanistan', '.', 'It', "'s", 'comfortable', 'keep', 'cuff', 'OCP', 'uniform', '.', 'You', 'forget', "'s", 'even', '.', 'I', 'though', 'swapping', 'band', 'nicer', 'one', "'s", 'really', 'needed', ',', "'s", 'durable', 'comfortable', '.', 'I', 'never', 'take', ',', 'wear', 'shower', 'never', 'issue', '.', 'Before', 'deploying', 'I', 'swam', 'ocean', 'worked', 'fine', '.', 'If', 'need', 'watch', 'survive', 'life', 'style', 'one', '.', 'Awesome', 'Classic', 'G-ShockThis', 'actually', 'first', 'Square', 'G-Shock', '.', 'I', "'m", 'used', 'wearing', 'ones', 'sensors', ',', 'tough', 'solar', ',', 'automatic', 'time-keeping', ',', 'I', "n't", 'think', 'I', "'d", 'wear', 'one', 'lot', '.', 'But', 'I', 'actually', 'wear', 'lot', '!', 'This', 'closest', "ll", 'get', 'original', '1983', 'DW', '5000', '.', 'I', 'see', 'G-Shock', 'fans', 'love', 'watch', '.', 'The', 'light', 'pretty', 'darn', 'bright', ',', 'also', 'feature', 'make', 'watch', 'light', 'whenever', 'alarm', 'hourly', 'time', 'signal', '.', 'Sure', ',', "n't", 'auto-light', ',', 'hey', ',', "'s", 'classic', 'G-Shock', '.', 'It', '3', 'basic', 'functions', ':', 'stopwatch', 'split', 'time', ',', 'timer', 'runs', '24', 'hours', ',', 'alarm', '.', 'Few', 'things', 'I', 'need', 'mention', 'considering', 'getting', 'watch', 'first', 'time', '.', 'The', 'stopwatch', 'timer', 'show', 'current', 'time', "'re", 'modes', '.', 'This', 'one', 'reasons', 'I', 'decided', 'get', 'DW', '5600e', '.', 'I', 'tried', 'GWM', '5610', 'I', 'return', 'stopwatch', 'timer', 'would', 'display', 'current', 'time', '.', 'The', 'timer', ':', 'runs', '24', 'hours', ',', 'displays', 'current', 'time', '.', 'What', "'s", 'also', 'cool', 'timer', 'also', 'set', 'seconds', ',', 'amount', 'seconds', 'fine', ',', 'whether', 'want', '5', 'seconds', 'even', '2', 'seconds', '.', 'Very', 'cool', '.', 'As', 'alarm', ',', 'one', 'alarm', '.', 'An', 'interesting', 'thing', 'alarm', 'set', 'alarm', 'certain', 'month', 'day', '.', 'This', 'would', 'cool', 'watch', 'one', 'alarm', '.', '4', 'alarms', 'would', 'good', 'kind', 'date', 'feature', '.', 'I', 'use', 'lot', 'alarms', 'every', 'day', ',', 'month/day', 'feature', 'one', 'single', 'alarm', 'interesting', '.', 'The', 'beeps', 'pretty', 'audible', 'classic', 'Casio', 'sound', '.', 'However', ',', 'keep', 'mind', 'sound', 'ca', "n't", 'muted', '.', 'Again', ',', 'classic', 'G-Shock', '.', 'Unlike', 'modern', 'squares', ',', 'adjust', 'button', 'less', 'visible', 'side', '.', 'But', "'s", 'difficult', 'press', '.', 'In', 'fact', ',', 'buttons', 'easy', 'press', '.', 'Also', ',', 'whenever', 'play', 'around', 'modes', 'watch', ',', 'press', 'mode', 'button', ',', 'automatically', 'go', 'back', 'current', 'time', '.', 'Since', "'s", '3', 'basic', 'features', 'buttons', 'easy', 'press', ',', "n't", 'big', 'deal', '.', 'Lastly', ',', 'setting', 'current', 'time', ',', 'timer', ',', 'alarm', ',', 'get', 'one', 'button', 'use', 'press', 'adjust', ',', 'goes', 'forward', '.', 'I', "n't", 'like', 'first', ',', 'hold', 'button', ',', 'numbers', 'pretty', 'fast', '.', 'I', 'got', 'used', 'day', 'two', '.', 'I', "'ve", 'seen', 'videos', 'people', 'Japan', 'testing', 'particular', 'watch', ',', 'man', ',', "'s", 'tough', 'guy', '!', 'I', "'ve", 'seen', 'dropped', 'several', 'stories', 'high', ',', 'crushed', 'machinery', ',', 'sunk', '200', 'M', 'sea', ',', 'I', "'ve", 'even', 'seen', 'completely', 'covered', 'mud', '.', 'It', "'s", 'almost', 'tough', 'basic', 'Mudmaster', '.', 'The', 'strap', 'extremely', 'comfortable', 'watch', 'light', 'sometimes', 'forget', "'re", 'wearing', '.', 'The', 'watch', 'stays', 'beat', 'almost', 'time', '.', 'I', 'never', 'worry', 'adjusting', 'time', 'seconds', '.', 'Overall', ',', 'awesome', 'watch', 'one', 'everyone', ',', 'especially', 'G-Shock', 'fans', ',', 'point', 'lives', '.', 'There', ',', 'I', 'think', 'I', "'ve", 'covered', 'everything', 'I', 'could', '.', 'I', "ll", 'probably', 'die', 'watch', 'does. It', "'s", 'cheap', ',', "'s", 'waterproof', 'tells', 'time', '.', 'This', 'thing', 'likely', 'outlast', '.', 'And', 'battery', 'dies', 'years', ',', 'I', 'replace', 'new', 'one', '\$', '1', '.', 'You', 'ca', "n't", 'go', 'wrong', '.', 'G-SHOCKの原点', '普段はカシオのF-91WやF-105Wを着けることが多いです', 'どちらも1000円にも満たない、本当にいい時計です。僕はそれらが好きだから、仕事でもプライベートでも、海外旅行でもスポーツでも、よ



っぽどフォーマルな場を除いては、大体着けています。だから、僕の場合他の時計はあんまり必要性がないのだけど、ある種の所有欲や、TPOにそぐわない場面のために、いわゆるチプカシ以外の時計も一応持っています。このG-SHOCKも持っています。僕はチプカシが本当にかっこいいと思ってるけど、たとえいい物はいいいと思える人でも、1000円の腕時計ははめて歩けないという人もいでしょう。そういう人にはこのスピードモデルがおすすめです。また、彼へのプレゼントにも、いいと思います。男性でこのデザインを好まない人はあまりいません。いろんなスタイルにも合わせやすいです。僕がもしこの時計を女性からプレゼントされたら、その女性のことをいっぺんに好きになってしまいます。さて、微妙にチプカシのレビューのようになってしまいましたが、このスピードモデルはまさに鉄板、そして王道。絶対に間違いありません。', '8年経過後...', '8年間使ってます。', 'なんやかんやアウトドア、日常、仕事とずっと装着してます。', '付いている傷は微小だし、電池は切れないし、全く良いパートナーです。', '2020年7月追記。', 'ついに電池が切れました。バックライト、アラームはほぼ使用せずです。', '2011年の10月に購入して2020年7月に切れたので...8年9ヶ月電池が持ちました。', 'A', 'watch', 'virgins', 'This', 'legendary', 'watch', '-', 'ugly', 'functional', 'original', '5600', '1987', '.', 'I', 'ca', 'n't', 'think', 'better', 'beater', 'watch', 'money', '.', 'This', 'thing', 'practically', 'indestructible', ',', 'keeps', 'amazingly', 'good', 'time', 'inexpensive', 'timepiece', '.', 'Since', 'I', 'absolutely', 'anal', 'accuracy', ',', 'I', 'adjust', 'occasionally', 'using', 'National', 'Institute', 'Standards', 'Technology', '(', 'NIST', ')', ',', 'U.', 'S.', 'Naval', 'Observatory', '(', 'USNO', ')', 'atomic', 'clocks', ',', '"s', 'never', 'second', 'two', '.', 'Very', 'impressive', '.', 'Another', 'nice', 'thing', 'watch', 'n't', 'look', 'like', 'Transformer', 'toy', 'strapped', 'wrist', 'like', 'G-Shocks', '.', 'The', 'DW5600E', 'lower', 'profile', 'actually', 'wear', 'cuff', 'dress', 'shirt', '.', 'This', 'watch', 'also', 'lightweight', 'comfortable', '.', 'You', 'wo', 'n't', 'even', 'know', '"re", 'wearing', '.', 'Save', 'small', 'details', ',', '"', 'incredibly', 'similar', 'original', 'uses', 'plastic', 'case', 'place', 'original', '"', 'blacked-out', 'stainless', 'steel', '.', 'Actually', ',', 'cheaper', 'material', 'works', 'watch', '"', 'favor', '.', 'For', 'one', ',', 'means', 'remain', 'affordable', '.', 'Secondly', ',', 'plastic', 'elasticity', 'metal', '"', 'absorbs', 'shocks', 'better', '.', 'Finally', ',', 'pop', 'culture', 'references', 'make', 'watch', 'timeless', '.', 'James', 'Bond', 'never', 'wore', ',', 'Steve', 'Carell', 'The', '40-Year-Old', 'Virgin', '.', 'It', '"s', 'spotted', 'many', 'shows', 'movies', 'well', '.', 'When', 'friends', 'ask', 'proudly', 'say', 'official', 'watch', 'virgins', 'worldwide', '.']

```
In [38]: # Devolver el arreglo del texto tokenizado a un solo texto
todo_texto2 = ' '.join(todo_texto_filtrado)
```



```
In [39]: # Generación del gráfico de nube de términos con el texto de las opiniones
nube_palabras = WordCloud(width = 1024, height = 800, colormap = 'Blues', min_font_size = 14).generate(todo_)
plt.figure(figsize=(10,10), facecolor = None)
plt.imshow(nube_palabras)
plt.axis('off')
plt.tight_layout(pad=0)
plt.show()
```

## Amazon web scraping de una búsqueda global de artículos

# Objetivo

Extraer la información de cada uno de los elementos de la página de búsqueda global de artículos de Amazon, como: nombres de los artículos, precio y puntuación. Generando una base de datos con la información.

Amazon Los más vendidos: Mejor

amazon.com/-/es/gp/bestsellers/fashion/6358540011/ref=pd\_zg\_hrsr\_fashion

Enviar a Bogotá 110221

Todos

Hola Fabian Cuenta y Listas Devolución y Pedidos

Todo Ofertas del Día Comprar de Nuevo Tarjetas de Regalo Amazon de Fabian Servicio al Cliente Historial Vender Listas

## Los más vendidos de Amazon

Nuestros productos más vendidos. Actualizado cada hora.

Cualquier categoría

Ropa, Zapatos y Joyería

Hombres

Relojes

Correas de Reloj









Relojes Inteligentes

Relojes de Bolsillo

Relojes de Pulsera

Usados Certificados

### Los más vendidos en Relojes de Pulsera Relojes para Hombre

<p>#1</p>  <p>Casio ★★★★★ 37,447 US\$14.50 - US\$49.99</p>	<p>#2</p>  <p>Casio Men's MDV106-1A1 200 M WR Black Dive Watch (MDV106-1A) ★★★★★ 15,135 US\$40.00 - US\$99.99</p>	<p>#3</p>  <p>Michael Kors - Reloj de cuarzo Slim Runway de acero inoxidable para hombre ★★★★★ 8,544 US\$112.51 - US\$349.33</p>	<p>#4</p>  <p>Timex Ironman Classic 30 - Reloj de tamaño completo ★★★★★ 13,648 US\$32.73 - US\$84.99</p>
<p>#5</p>  <p>amazon.com/-/es/Casio-MDV106-1AV-200M-Duro-analogico/dp/B009KYIAJY/.../133-0147365-1684229?pd_rd_i=B09S...</p>	<p>#6</p>  <p>Casio 10 Year Battery</p>	<p>#7</p>  <p>Timex Expedition Scout 40 - Reloj de pulsera</p>	<p>#8</p>  <p>Casio Men's Vintage CA53W-1 Calculator Watch</p>

```
In [40]: # Conectar al sitio Web desde el que se va a extraer los datos
URL='https://www.amazon.com/-/es/Best-Sellers-Ropa-Zapatos-y-Joyera-Relojes-de-Pulsera-Relojes-para-Hombre/z
# Se requiere indicar los agentes, estos se obtienen en este link: https://httpbin.org/get
headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) C
page = requests.get(URL, headers=headers)
soup3 = BeautifulSoup(page.content, 'html.parser')
print (soup3)
```

```
<!DOCTYPE html>
<html class="a-no-js" data-19ax5a9jf="dingo" lang="es-us"><!-- sp:feature:head-start -->
<head><script>var aPageStart = (new Date()).getTime();</script><meta charset="utf-8"/>
<!-- sp:end-feature:head-start -->
<script type="text/javascript">var ue_t0=ue_t0||+new Date();</script>
<!-- sp:feature:cs-optimization -->
<meta content="on" http-equiv="x-dns-prefetch-control"/>
<link href="https://images-na.ssl-images-amazon.com" rel="dns-prefetch"/>
<link href="https://m.media-amazon.com" rel="dns-prefetch"/>
<link href="https://completion.amazon.com" rel="dns-prefetch"/>
<!-- sp:end-feature:cs-optimization -->
<script type="text/javascript">
window.ue_ihb = (window.ue_ihb || window.ueinit || 0) + 1;
if (window.ue_ihb === 1) {

var ue_csm = window,
    ue_hob = +new Date();
(function(d){var e=d.ue=d.ue||{},f=Date.now||function(){return+new Date};e.d=function(b){return f()-(b?0:d.ue_t0)};e.stub=function(b,a){if(!b[a]){var c=[];b[a]=function(){c.push([c.slice.call(arguments),e.d(),d.ue_id]);b[a].replay=function(b){for(var a;a=c.shift();b(a[0],a[1],a[2]));b[a].isStub=1}};e.exec=function(b,a){return function(){try{return b.apply(this,arguments)}catch(c){ueLogError(c,{attribution:a||"undefined",logLevel:"WARN"}})}}})(ue_csm);
```

```
In [41]: # Generar arreglos vacios para almacenar los datos a extraer
articulo = []
precio = []
puntuacion = []
```

```
In [42]: soup3 = BeautifulSoup(soup3.prettify(), 'html.parser')
print(soup3)

<!DOCTYPE html>

<html class="a-no-js" data-19ax5a9jf="dingo" lang="es-us">
<!-- sp:feature:head-start -->
<head>
<script>
  var aPageStart = (new Date()).getTime();
</script>
<meta charset="utf-8"/>
<!-- sp:end-feature:head-start -->
<script type="text/javascript">
  var ue_t0=ue_t0||+new Date();
</script>
<!-- sp:feature:cs-optimization -->
<meta content="on" http-equiv="x-dns-prefetch-control"/>
<link href="https://images-na.ssl-images-amazon.com" rel="dns-prefetch"/>
<link href="https://m.media-amazon.com" rel="dns-prefetch"/>
<link href="https://completion.amazon.com" rel="dns-prefetch"/>
<!-- sp:end-feature:cs-optimization -->
<script type="text/javascript">
  window.ue_ihb = (window.ue_ihb || window.ueinit || 0) + 1;
  if (window.ue_ihb === 1) {
    var ue_css = window
```

```
In [43]: # Obtención del artículo
          articulo = []
          for a in soup3.find_all(['span', 'div'], '_cDEzb_p13n-sc-css-line-clamp-3_g3dy1'):
              art = a.getText().replace('\n', "").replace(' ', "")
              articulo.append(art)
```

In [44]: articulo

```
[' Casio',  
 ' Michael Kors - Reloj de cuarzo Slim Runway de acero inoxidable para hombre',  
 " Casio Men's MDV106-1AV 200 M WR Black Dive Watch (MDV106-1A)",  
 ' Beeasy - Reloj digital de pulsera resistente al agua con cronómetro, alarma, cuenta regresiva, doble zona horaria, ultrafino, pantalla angul  
ar muy amplia, para hombres y mujeres.',  
 ' Timex Ironman Classic 30 - Reloj de tamaño completo',  
 ' Timex Expedition Scout 40 - Reloj de pulsera para hombre',  
 ' Casio Reloj unisex F-108WH-1ACF con pantalla digital cuadrada grande, cuarzo negro',  
 ' Casio 10 Year Battery',  
 ' Timex Reloj unisex Weekender de 1.496\\xa0in',  
 ' Timex Easy Reader Reloj con correa de cuero de 1.496\\xa0pulgadas',  
 ' Casio - Reloj deportivo',  
 ' Timex reloj pulsera para hombres, con día y fecha y lectura sencilla',  
 ' Fossil - Reloj casual de cuarzo, minimalista, de acero inoxidable y delgado para hombre',  
 ' BOBO BIRD Relojes de madera grabados personalizados para hombre, elegantes relojes de pulsera de cuarzo combinados de madera y acero inoxida  
ble, para hombres, familiares, amigos, reloj personalizado',  
 ' Mens Digital Sports Watch LED Screen Large Face Military Watches for Men Waterproof Casual Luminous Stopwatch Alarm Simple Army Watch',  
 ' Relojes para hombre, cronógrafo, acero inoxidable, impermeable, fecha analógica, de cuarzo, de negocios, relojes de pulsera',  
 ' Casio G-Shock reloj digital clásico para hombre, Classic, talla única , Negro',  
 ' Reloj digital deportivo para hombre, esfera grande, impermeable, con cronómetro, alarma, luz LED trasera',  
 ' YUINK Mens Watch Ultra-Thin Digital Sports Watch Waterproof Stainless Steel Fashion Wrist Watch for Men Women',  
 ' Fossil Neutra - Reloj cronógrafo de cuarzo de acero inoxidable para hombre',  
 ' Timex Expedition Acadia Reloj de pulsera para hombre',  
 ' Fossil Nate - Reloj casual de cuarzo para hombre, acero inoxidable y metal',  
 ' Fossil Townsman - Reloj cronógrafo de cuarzo, casual, de acero inoxidable y cuero, para hombre.',  
 ' CRRJU - Reloj de pulsera, de acero inoxidable para hombre, resistente al agua, cronógrafo, correa de acero inoxidable',  
 ' Golden Hour Fashion Business Relojes para hombre con cronógrafo, a prueba de agua, de acero inoxidable, reloj de cuarzo con fecha automátic  
a',  
 ' Invicta 12847 reloj de acero inoxidable especial con banda azul para hombre',  
 ' Fossil Grant - Reloj cronógrafo de cuarzo de acero inoxidable para hombre, Cronógrafo, movimiento de cuarzo',  
 ' Casio Reloj analógico MQ24-7B2 para hombre con correa de resina negra',  
 ' Fossil Machine - Reloj cronógrafo de cuarzo de acero inoxidable para hombre',  
 " Casio Men's XL Series G-Shock Quartz 200M WR"]
```

```
In [45]: # Obtención del precio
precio = []
for b in soup3.find_all(['span', 'div'], 'a-size-base a-color-price'):
    pre = b.getText().replace('\n', "").replace(' ', "")
    precio.append(pre)
```

```
In [46]: precio

['US$14.50-US$49.99',
 'US$112.51-US$349.33',
 'US$40.00-US$99.99',
 'US$16.99-US$17.99',
 'US$32.73-US$84.99',
 'US$34.85-US$109.95',
 'US$14.88-US$45.00',
 'US$19.92-US$37.87',
 'US$29.16-US$90.00',
 'US$31.02-US$103.76',
 'US$46.50-US$94.99',
 'US$31.99-US$89.99',
 'US$69.55-US$190.00',
 'US$39.94-US$59.99',
 'US$16.99',
 'US$42.99-US$69.99',
 'US$38.69',
 'US$15.99',
 'US$16.99-US$26.99',
 'US$84.75-US$231.09',
 'US$32.88-US$94.03',
 'US$76.82-US$203.74',
 'US$91.01-US$182.90',
 'US$45.00-US$51.00']
```

```
In [47]: # Obtención de la puntuación
puntuacion = []
for c in soup3.find_all(['span', 'div'], 'a-icon-alt'):
    pun = c.getText().replace('\n', "").replace(' de 5 estrellas', "").replace(' ', "")
    puntuacion.append(pun)
```



```
In [48]: puntuacion
```

```
['4.6',  
 '4.7',  
 '4.7',  
 '4.1',  
 '4.6',  
 '4.4',  
 '4.7',  
 '4.7',  
 '4.6',  
 '4.6',  
 '4.7',  
 '4.5',  
 '4.5',  
 '4.8',  
 '4.4',  
 '4.4',  
 '4.7',  
 '4.2',  
 '4.3',  
 '4.6',  
 '4.5',  
 '4.6',  
 '4.7',  
 '4.3',  
 '4.5',  
 '4.7',  
 '4.7',  
 '4.4',  
 '4.7',  
 '4.7']
```

```
In [49]: datos={"Artículo" : articulo, "Precio" : precio, "Puntuación" : puntuacion}  
amazon=pd.DataFrame(data=datos)
```

```
In [50]: amazon
```

	Artículo	Precio	Puntuación
0	Casio US 14.50 – <i>US</i> 49.99		4.6
1	Michael Kors - Reloj de cuarzo Slim Runway de... US 112.51 – <i>US</i> 349.33		4.7
2	Casio Men's MDV106-1AV 200 MWR Black Dive Wa... US 40.00 – <i>US</i> 99.99		4.7
3	Beeasy - Reloj digital de pulsera resistente ... US 16.99 – <i>US</i> 17.99		4.1
4	Timex Ironman Classic 30 - Reloj de tamaño co... US 32.73 – <i>US</i> 84.99		4.6
5	Timex Expedition Scout 40 - Reloj de pulsera ... US 34.85 – <i>US</i> 109.95		4.4
6	Casio Reloj unisexF- 108WH-1ACF con pantalla ... US 14.88 – <i>US</i> 45.00		4.7

	Artículo	Precio	Puntuación
	US		
7	Casio 10 Year Battery	19.92 – <i>US</i> 37.87	4.7
	Timex Reloj unisex Weekender de 1.496 in	US 29.16 – <i>US</i> 90.00	4.6
9	Timex Easy Reader Reloj con correa de cuero d...	US 31.02 – <i>US</i> 103.76	4.6
	US		
10	Casio - Reloj deportivo	46.50 – <i>US</i> 94.99	4.7
	US		
11	Timex reloj pulsera para hombres, con día y f...	31.99 – <i>US</i> 89.99	4.5
	US		
12	Fossil - Reloj casual de cuarzo, minimalista,...	69.55 – <i>US</i> 190.00	4.5
	US		
13	BOBO BIRD Relojes de madera grabados personal...	39.94 – <i>US</i> 59.99	4.8
	US		
14	Mens Digital Sports Watch LED Screen Large Fa...	US\$16.99	4.4

	Artículo	Precio	Puntuación
15	Relojes para hombre, cronógrafo, acero inoxidable... US 42.99 – <i>US</i> 69.99		4.4
16	Casio G-Shock reloj digital clásico para hombre... US\$38.69		4.7
17	Reloj digital deportivo para hombre, esfera g... US\$15.99		4.2
18	YUINK Mens Watch Ultra-Thin Digital Sports Wa... US 16.99 – <i>US</i> 26.99		4.3
19	Fossil Neutra - Reloj cronógrafo de cuarzo de... US 84.75 – <i>US</i> 231.09		4.6
20	Timex Expedition Acadia Reloj de pulsera para... US 32.88 – <i>US</i> 94.03		4.5
21	Fossil Nate - Reloj casual de cuarzo para hom... US 76.82 – <i>US</i> 203.74		4.6
22	Fossil Townsman - Reloj cronógrafo de cuarzo,... US 91.01 – <i>US</i> 182.90		4.7

	Artículo	Precio	Puntuación
23	CRRJU - Reloj de pulsera, de acero inoxidable...	US 45.99 — <i>US</i> 51.99	4.3
24	Golden Hour Fashion Business Relojes para hom...	US 45.99 — <i>US</i> 52.99	4.5
25	Invicta 12847 reloj de acero inoxidable espec...	US\$27.90	4.7
26	Fossil Grant - Reloj cronógrafo de cuarzo de ...	US 74.99 — <i>US</i> 197.29	4.7
27	Casio Reloj analógico MQ24-7B2 para hombre co...	US\$13.33	4.4
28	Fossil Machine - Reloj cronógrafo de cuarzo d...	US 82.99 — <i>US</i> 216.74	4.7
29	Casio Men's XL Series G- Shock Quartz 200MWR	US 93.03 — <i>US</i> 109.99	4.7

```
In [51]: amazon.to_csv('amazon.csv')
```

