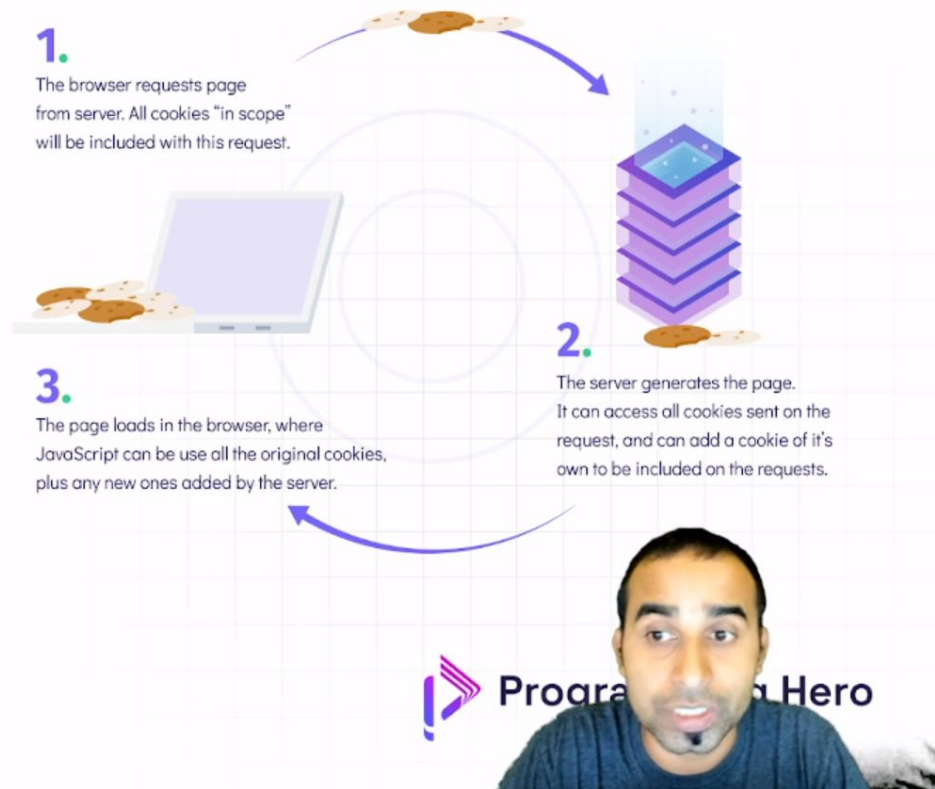


Cookies, Cookie value

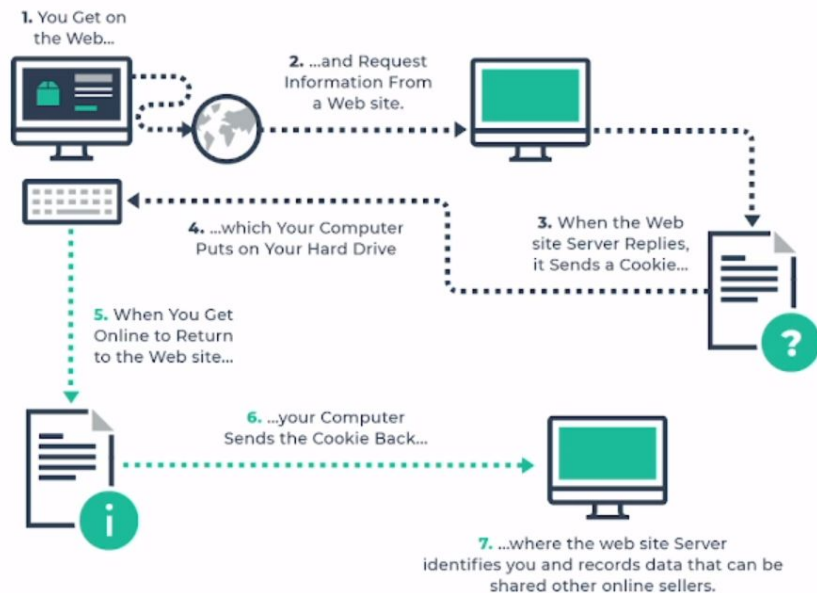


What is Cookie?

- 1) Data stored in small text file.
- 2) Naturally sent by visited websites.
- 3) Sent to users computer through browser.
- 4) Is not a program, doesn't perform any function.
- 5) Stored in key-value pair.



How does a Cookie work?



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Purposes of Cookie

- **Session management** – cookies allow you to manage any information that the server should remember. For example, logins, shopping carts, etc.
- **Personalization** – cookies allow you to store user preferences, themes, and setting specific to a user.
- **Tracking** – cookies help record and analyze user behaviors in advertising.



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Example of Cookie

```
HTTP/1.1 200 OK
Content-type: text/html
Set-Cookie: user=programming-hero
; expire=Tue, 12-December-2030 12:10:00 GMT; domain=example.com; path=/dom; secure
...
```



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Parts of Cookie

Name – a unique name that identifies the cookie. The cookie names are case-insensitive. It means that Username and username are the same cookies.

Secure flag – if specified, the web browser only sends the cookie to the server only via an SSL connection (https, not http)

Path – path without the domain for which the cookie should be sent to the server. For example, you can specify that the cookie is accessible only from the `https://www.example.com/dom/` so pages at `https://www.example.com/` won't send the cookie information.

Expiration – timestamp that indicates when the web browser should delete the cookie (or when the browser should stop sending the cookie to the server).

Value – string value of the cookie. It must be URL-encoded.

Domain – a domain for which the cookie is valid.



Types of Cookie

1) First Party Cookie:

- Created by the website you are currently visiting.
- Purpose is to save your preferences for that website.
- Saving your last shopping cart for an website can be an example of it.

2) Third Party Cookie:

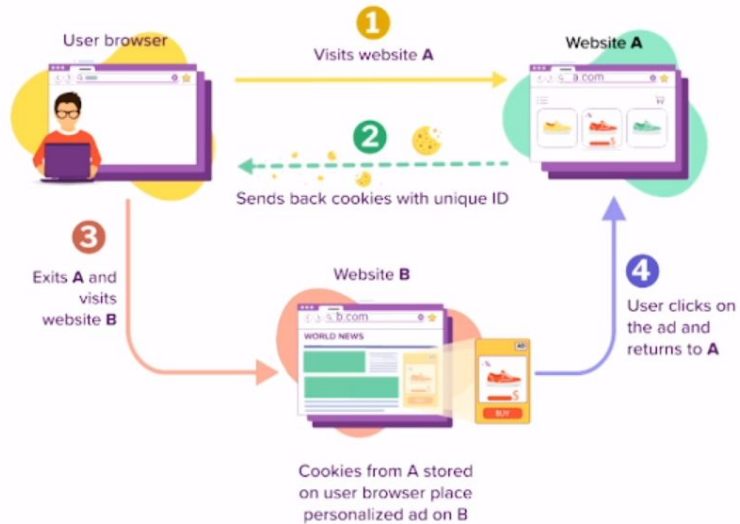
- Created by a different website than the website you are currently visiting.
- Creating ads and sending cookie can be an example of it.



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3rd Party Cookie vs 1st Party Cookie

3rd Party Data



1st Party Data



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What is Http only cookie?

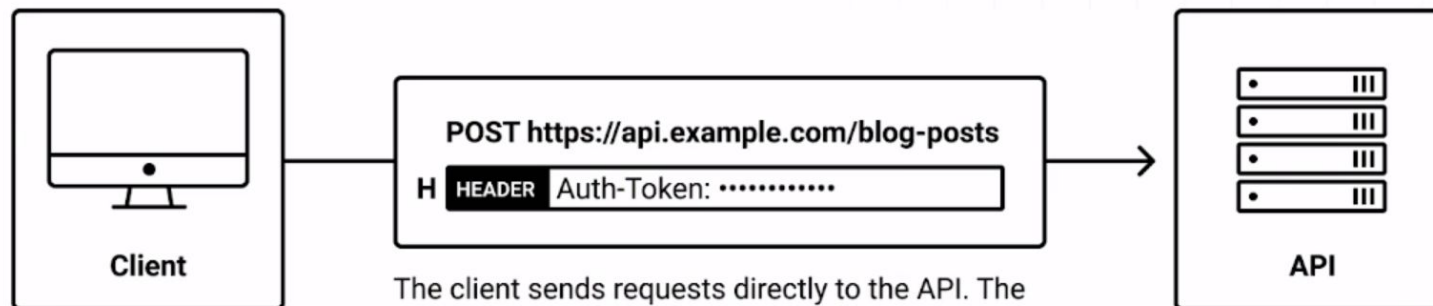
- A tag added to a browser cookie.
- Prevents client-side scripts from accessing data.
- Provides a gate that prevents the specialized cookie from being accessed by anything other than the server.



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Http only cookie for securing authentication



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Get Cookie value



```
//get cookie value from browser  
document.cookie  
  
//get cookie value as array  
document.cookie.split('; ')  
  
//get cookie value in key-value pair  
document.cookie.split('; ').map(c => console.log(c))
```



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Thank you!

