Cookies and Sessions in PHP

UNDERSTANDING SESSIONS AND COOKIES



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Understanding Cookies and Sessions



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Real World vs. Web World



Web Browser



Cookie



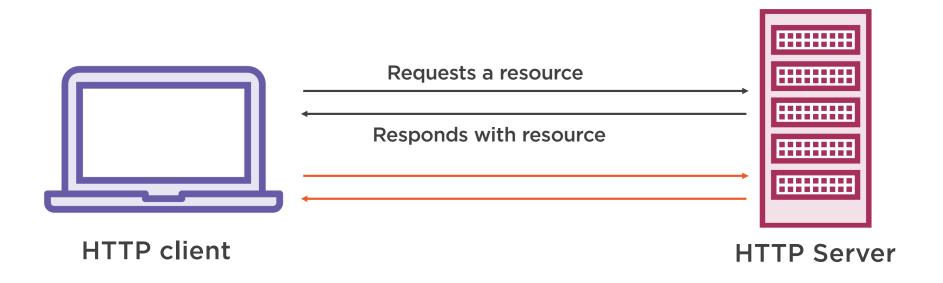
Web Server



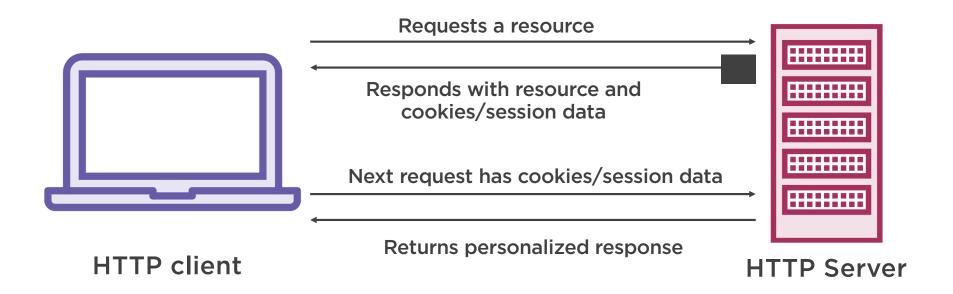
Session



HTTP Protocol: Stateless



Workaround for Stateless HTTP Protocol



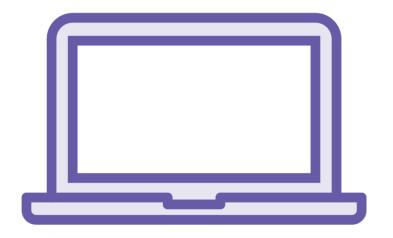
Cookies and Sessions

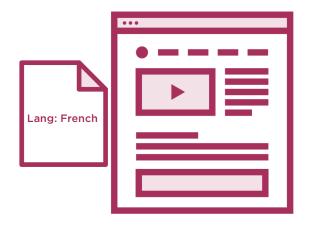
- Remember stateful information for stateless HTTP protocol
- Helpful for personalizing user experiences
- Global storages to store data persistently for a site
- \$_COOKIE for cookies
- \$_SESSION for sessions



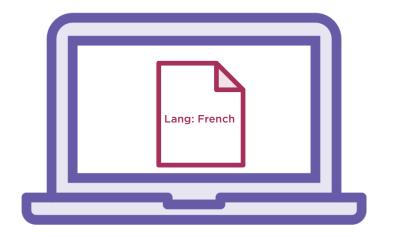


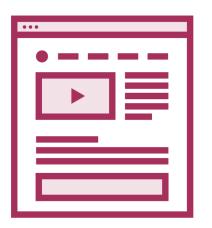
Lang: French



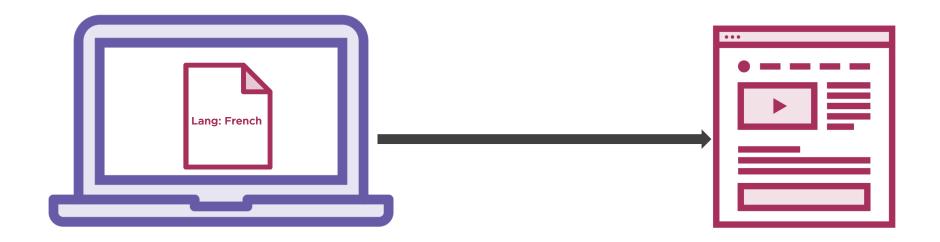














Properties of Cookies





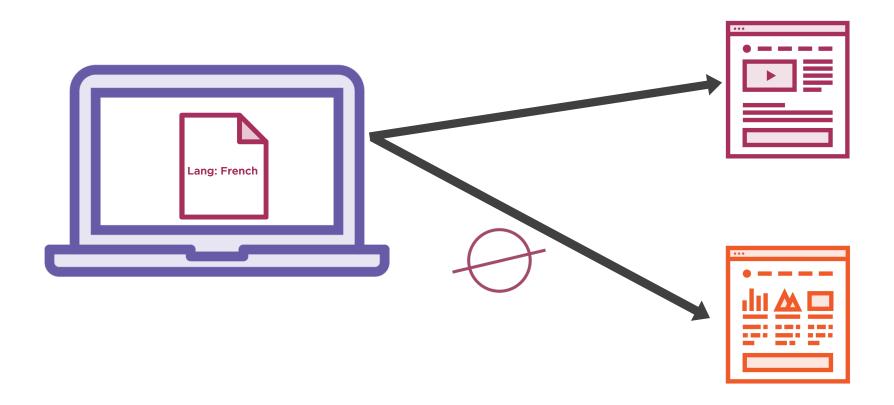


Properties of Cookies

→ Stored in the client-side

Size of cookie is limited to 4096 bytes (~4KB) in any browser

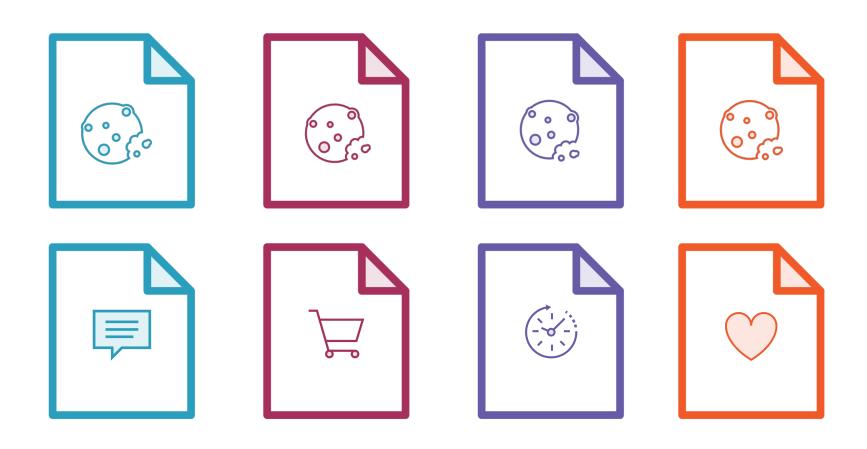
Who Can Access the Cookie?



Properties of Cookies

- **Stored in the client-side**
- Size of cookie is limited to 4KB in any browser
- Only domains which create the cookie can access them
- At least 50 cookies per domain
- At least 3000 cookies in total



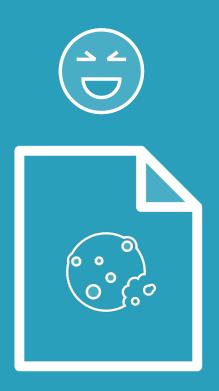


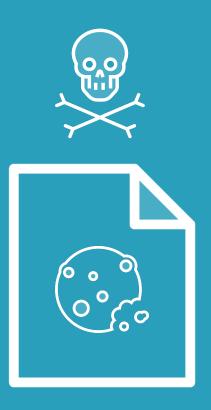






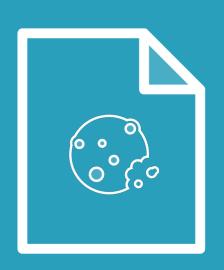
Are Cookies Safe?



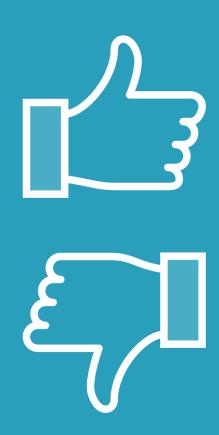




Are Cookies Safe?









Cons of Using Cookies

Security concern

Limited storage

Bigger request size



Sessions

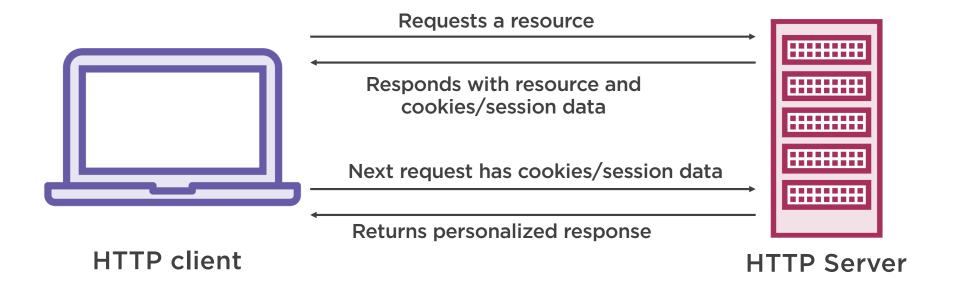


Sessions

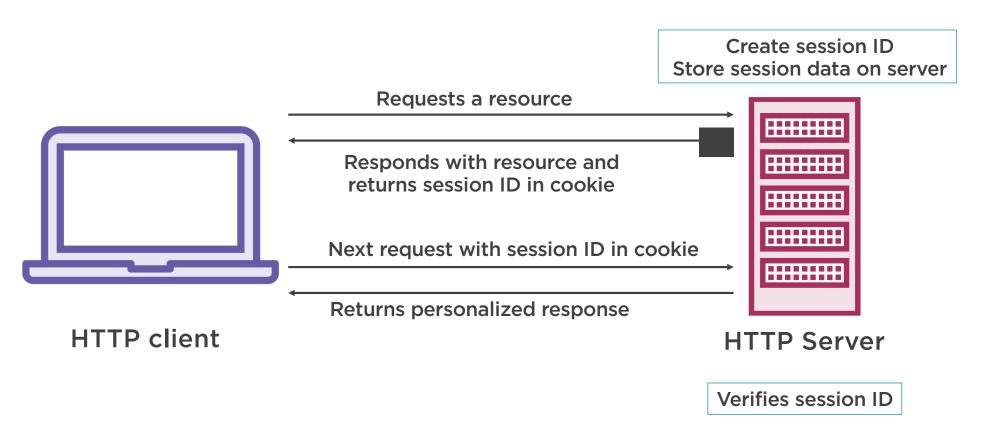
Session starts when you open an application, continues until you work on it and ends when you close the application.



HTTP Protocol



How Session Works?





Properties of Session







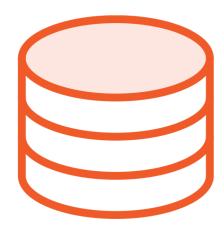




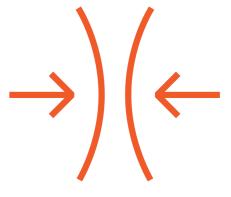
Benefits of Sessions over Cookies







More storage



Smaller request size



Cookies vs. Sessions

Cookies

Maintained on browser

Limited amount of data of 4KB

Easy to access, less secure

Cookie is sent to server with every request

Uses super global variable \$_COOKIE

Sessions

Taken care by server

Unlimited amount of data

Not so easily accessible, more secure

Session ID is sent to server

Uses super global variable \$_SESSION



Up Next: Working with Cookies

