

# State Management

## Cookies & Sessions



**SoftUni Team**  
Technical Trainers  
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**sli.do**

**#java-web**

# Cookies





# HTTP is Stateless

- it doesn't store information about the requests



# What are Cookies?

- A small piece of data that a **web server sends** to the **user's web browser**

`http://www.oracle.com/`

Web Client



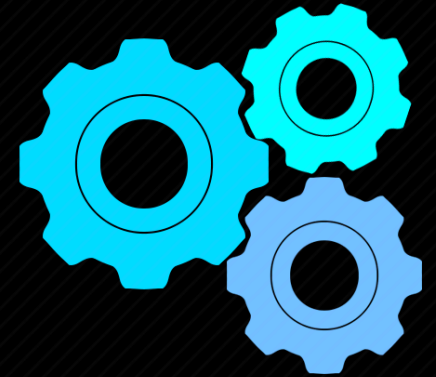
GET www.example.bg HTTP/1.1

HTTP/1.1 200 OK Set-Cookie: lang=en

GET www.example.bg HTTP/1.1

Cookie: lang=en

Web Application



# Cookie Example

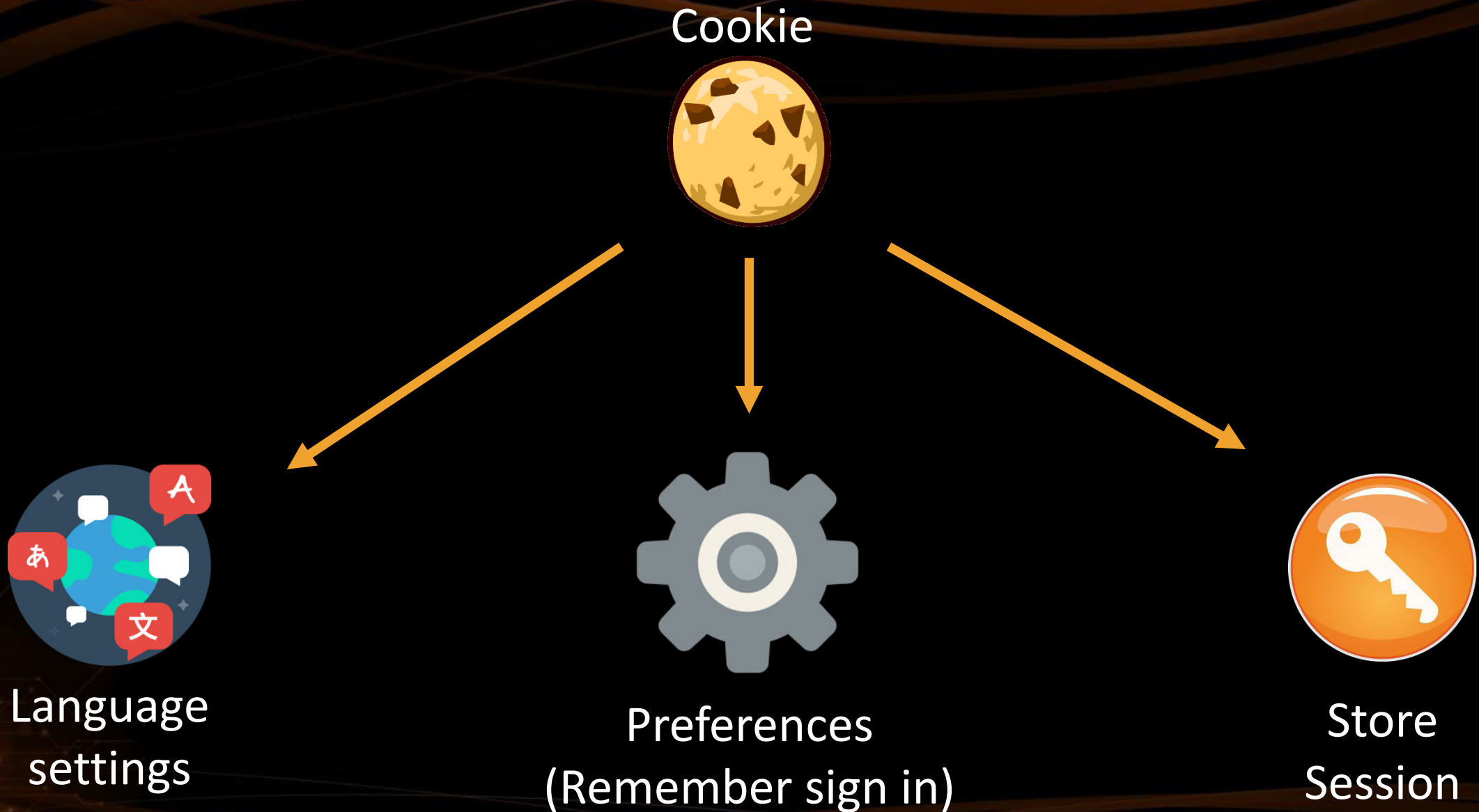
oracle.com 2 cookies

ELOQUA notice\_preferences

Name:	ELOQUA	Name
Content:	GUID=50B3A712CDAA4A208FE95CE1F2BA7063	Value
Domain:	.oracle.com	Host
Path:	/	
Send for:	Any kind of connection	Is secured?
Accessible to script:	Yes	HTTP only
Created:	Monday, August 15, 2016 at 11:38:50 PM	Created on
Expires:	Wednesday, August 15, 2018 at 11:38:51 PM	Expires on

Remove

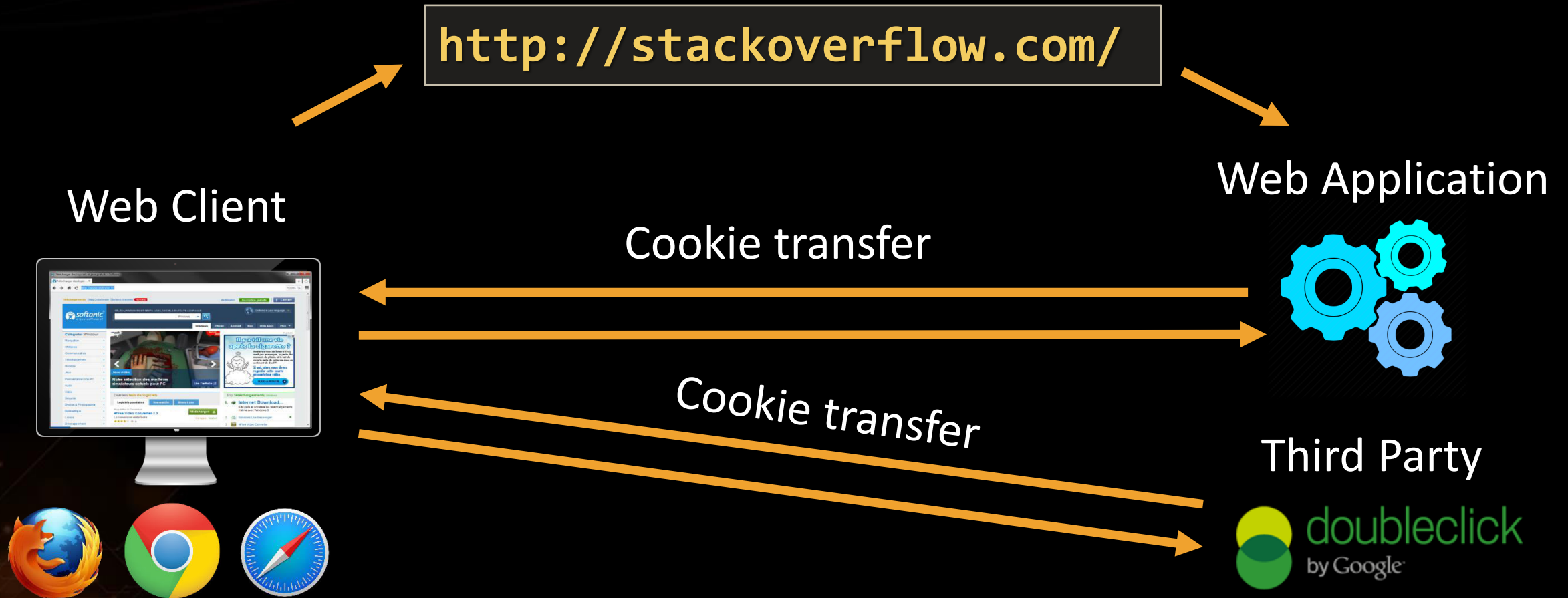
# Cookie Purpose





# Third Party Cookies

- Cookies stored by an external party





# Cookies

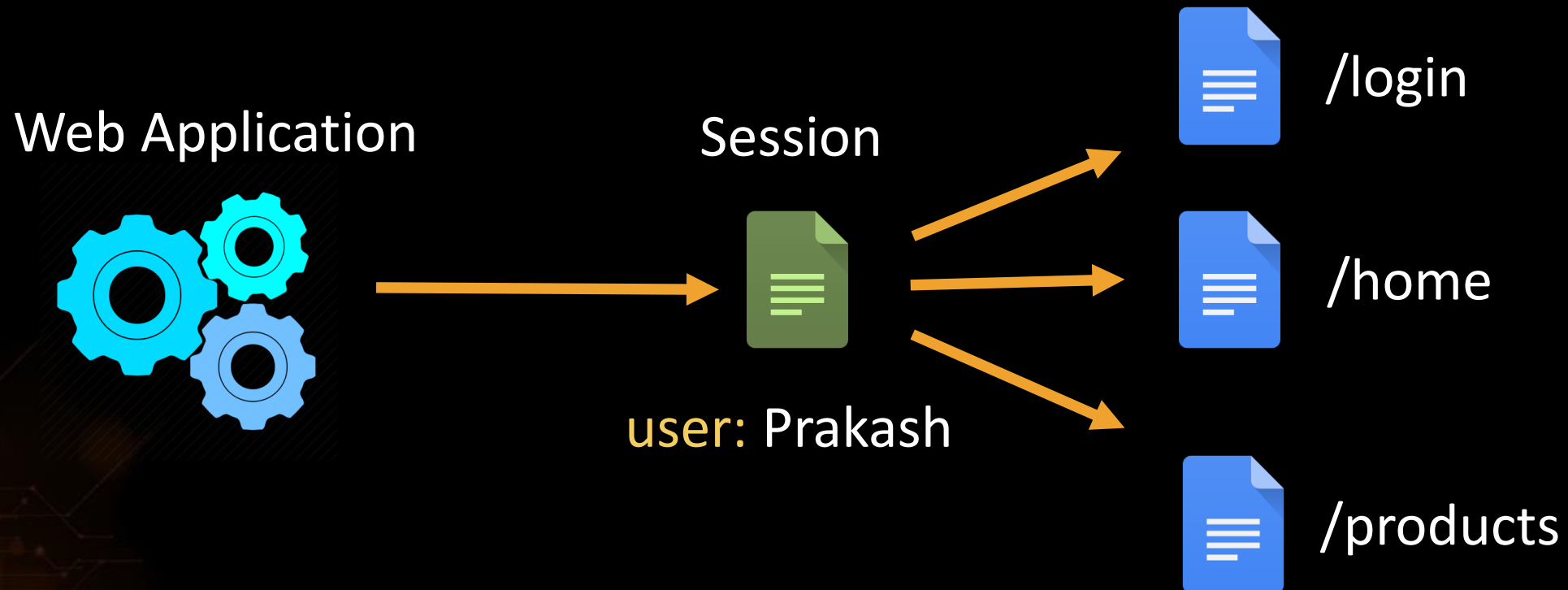
## Live Demo

# Sessions

# SESSIONS

# What are Sessions?

- A session is a way to store information to be used across multiple pages





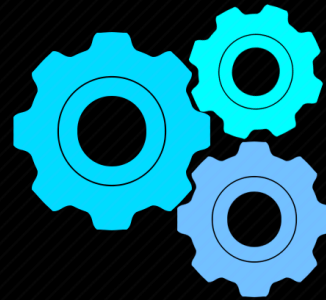
# Relation with Cookies



```
Cookie {  
  name: sid  
  value: 5  
}
```

Req  
Resp

Web Application



Validate

Session Store

```
sid 5 {  
  uid: 101  
}  
sid 7 {  
  uid: 102  
}
```

Session



Database

uid	name
101	Prakash
102	Stamat

Req  
Resp

Create personal web page

Get data



```
Cookie {  
  name: sid  
  value: 7  
}
```

# SESSIONS

**Create your own Sessions**

Live Demo

# Summary

- Cookies are:
  - client based stored information
  - created by web applications
  - sent back to the server, by the client
- Sessions are:
  - server based information
  - used across multiple pages



# Java Web Dev Basics – State Management



Questions?





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