

# AJAX

# AGENDA

What is Ajax

Demos

Pros / cons of Ajax

The browser history

Cross-Origin Resource Sharing

slido

# What does AJAX stands for?

 Start presenting to display the poll results on this slide.

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# What is AJAX - Select all that applies

 Start presenting to display the poll results on this slide.

# Demos

1. XMLHttpRequest

2. jQuery Ajax

# Ajax pros/cons

# Pros

- Improve user experience:
  - no page reloads
  - faster page renders and improved response times
- Client side rendering => reduce network load

# Cons

- Creating dynamic content is tricky
- Asynchronous programming patterns are more complex to code
- It requires js and XMLHttpRequest support
- History is not automatically updated



# Browser History

Using AJAX you lose:

- history (back, forward)
- URL paths for different 'pages'

Browsers provide a history API that you can use to programmatically interact with the Browser history.

<https://css-tricks.com/using-the-html5-history-api>

# CORS

# Cross-Origin Resource Sharing (CORS)

- For security reasons, browsers restrict cross-origin HTTP requests initiated from scripts.
- Ajax requests follow the *same-origin* policy.
- A web application using those APIs can only request resources from the **same origin** the application was loaded from unless the response from other origins includes the **right CORS headers**.

<https://developer.mozilla.org/en-US/docs/Web/HTTP/CORS>

# Questions?