

# Micro Frontend - 3 days

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## Day 1

- Overview of micro-frontends and the problems they solve

- Available options

- Example implementations

- Sync and async services

- How to use iframes to split frontend apps

- Incremental upgrades

- Simple, decoupled codebases

- ES6 Javascript for Microfrontends

- Universal Rendering

- Client Side Integration

- Micro services Architecture

- Modern Web Application Development

- Monolithic Frontends

- Teams with Micro Frontends

- Documents-to-Applications Continuum

- Progressive Web Apps

## Day 2

- Advanced DOM for MicroFrontends

- Custom Elements

- Team Product and its development

- Page Composition

- Page transition

- Prototypes

- Parent Child Communication

- DOM Modification

- DOM Events

Client Parent Communication  
Sibling Communication  
Server Side Rendering or Universal Rendering  
Custom Elements with server side includes  
Data Fetching  
Loading the states  
Navigating between Pages

Day 3

Isolated CSS  
Coherent User Interface  
Style Guides & Pattern Libraries  
Performance on initial load  
Performance while using the site  
Loading CSS  
Loading JS

Navigating between pages

- soft vs. hard navigation
- universal router

Server-side template composition

Autonomous teams

Build-time integration  
Run-time integration via Web Components

Run-time integration via JavaScript  
Run-time integration via iframes

Integration Testing