Asynchronous and reactive programming in JavaScript

Course code: JS_ASYNC

This course is designed for JavaScript programmers who want to improve their ability to write asynchronous code in this language. We will show you how to use built-in asynchronous mechanisms such as timers, fetch functions, or asynchronous filesystem access from Node.js. We'll explain the Promise object and the async and await keywords, as well as the external rxjs library and its Observables. This course assumes moderately advanced knowledge of JavaScript at the [JS_PROG2] course level.

Affiliate	Duration	Course price	ITB
Praha	3	16 500 Kč	30
Brno	3	16 500 Kč	30
Bratislava	3	660 €	30

The prices are without VAT.

Course terms

	Date	Duration	Course price	Type	Course language	Location
🚩	20.04.2026	3	16 500 Kč	Telepresence	CZ/SK	GOPAS Praha
🚩	20.04.2026	3	660 €	Telepresence	CZ/SK	GOPAS Bratislava
🚩	20.04.2026	3	16 500 Kč	Telepresence	CZ/SK	GOPAS Brno

The prices are without VAT.

For whom the course is intended

This course is designed for JavaScript programmers who want to improve their skills in writing asynchronous code in this language.

What we will teach you

- The difference between asynchronous and parallel programming
- How the JS event loop works
- Built-in asynchronous functions
- The importance of callbacks in asynchronous programming
- Promise and async / await pattern
- Reactive JS and Observables

Required Entry Knowledge

- Knowledge of JavaScript at the course level [JS_PROG2].

Course outline

Introduction to asynchronous programming
- Timers (setTimeout, setInterval)
- Promise and async / await (basic usage)
- Observable (basic usage)
- Asynchronous vs. parallel

JS event loop

Callback

Promise
- Creating a promise
- How to combine Promises

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rxjs and Observable
- Creating an Observable
- rxjs operators
- synchronizing multiple Observables

Asynchronous denerators
- what is a generator
- how to write an asynchronous generator

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