

training code: JSAJX / ENG DL 3d / EN

# Advanced aspects of JavaScript language



## Purpose of the training

The training is intended for the people who would like to expand their knowledge from programming in JavaScript in terms of ES6+ standard



## Benefits of completing the training

- Expanding the knowledge from language architecture and its new elements.
- Understanding the internal structure of the object, the mechanism of storage management.
- Proficiency in asynchronic programming



## Expected Listener Preparation

Basic knowledge of JavaScript



## Training Language

- Training: English



## Duration

3 days / 21 hours

## Training agenda

1. Store management, Garbage Collector
2. Object architecture
  - this, binding contexts
  - Initiating objects
  - Inheritance and prototype chain mechanisms
  - Cloning the objects
  - getter/setter interface, state of the object
  - Encapsulation, methods of implementing data privacy
3. Defining the state of the object, mutable and immutable objects, data status
4. Modular code structure, import, export
5. Elements of functional programming and collections
  - Generators and iterators
  - Filtering, mapping, reduction
  - Practical use of collection API
  - Weak collections, WeakMap, WeakSet
6. Working with asynchronous code, Promise, EventLoop
7. The use of symbols
8. Practices related to the use of Proxy object