

JavaScript Transition

Topics List

Basics

- Running JavaScript code
- Finding Documentation
- Variables: declarations, types, scope
- Coding conventions and peculiarities
- Literals: numbers, strings, objects, arrays, regular expressions
- Operators: **new**, **delete**, comparisons and equality tests
- Flow control: **for in** and **for of**, labeled **break** / **continue**
- Exception handling: **try** / **catch** / **finally**

JavaScript Functions

- Functions: declaration, arguments and return, variable length arguments, default arguments, functions expressions, member functions, anonymous and arrow forms
- Closures: scope, lifetime, unexpected **this** value in nested functions, IIFE (Immediately Invoked Function Expressions)
- Introductory functional programming: behavior as arguments and return values, array functional features, **bind()**
- JavaScript asynchrony: event model, promises

JavaScript Objects

- Primitives vs objects, objects as maps
- JavaScript objects: object prototype, **Object.create()**, prototype inheritance, function constructors, **instanceof**, ES6 class syntax,
- **Object** methods: **defineProperty**, **defineProperties**, **freeze**, **seal**
- Mix-Ins: **Object.assign**, ES6 class expressions