

# Variables, scope and hoisting

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# Rules

Feel free to interrupt me for:

- questions
- relevant comments

# Agenda

- variable declaration and naming
- var, let, and const
- variable scope
- hoisting

# Variable declaration

- var
- let
- const

# Variable names

- names can contain **letters, digits, underscores (\_), and dollar signs (\$)**
- names must **begin with a letter**
- names can also **begin with \_ and \$**
- names are **case-sensitive** ("x" and "X" are different variables)
- **reserved words** (JavaScript keywords) cannot be used as names

# Variable scope

- **global scope**: the default scope for all code running in script mode
- **module scope**: the scope for code running in module mode
- **function scope**: the scope created with a function
- **block scope**: the scope created with opening and closing curly braces ({})

# Variables

- **var**: function scope
- **let** or **const**: block scope
- **const**: cannot be updated or re-declared

# Hoisting

**Hoisting** refers to the process whereby the interpreter appears to move the declaration of functions, variables, classes, or imports to the top of their scope, prior to execution of the code.



**Happy coding!**