JavaScript Algorithms and Data Structures

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JavaScript

- Alongside HTML and CSS, JavaScript is one of the core technologies of the World Wide Web.
- JavaScript supports dynamic typing which means types of the variable are defined based on the stored value.
- It is a portable language.
- Unlike using classes to define objects, it uses object prototype to create objects.

Features of JavaScript

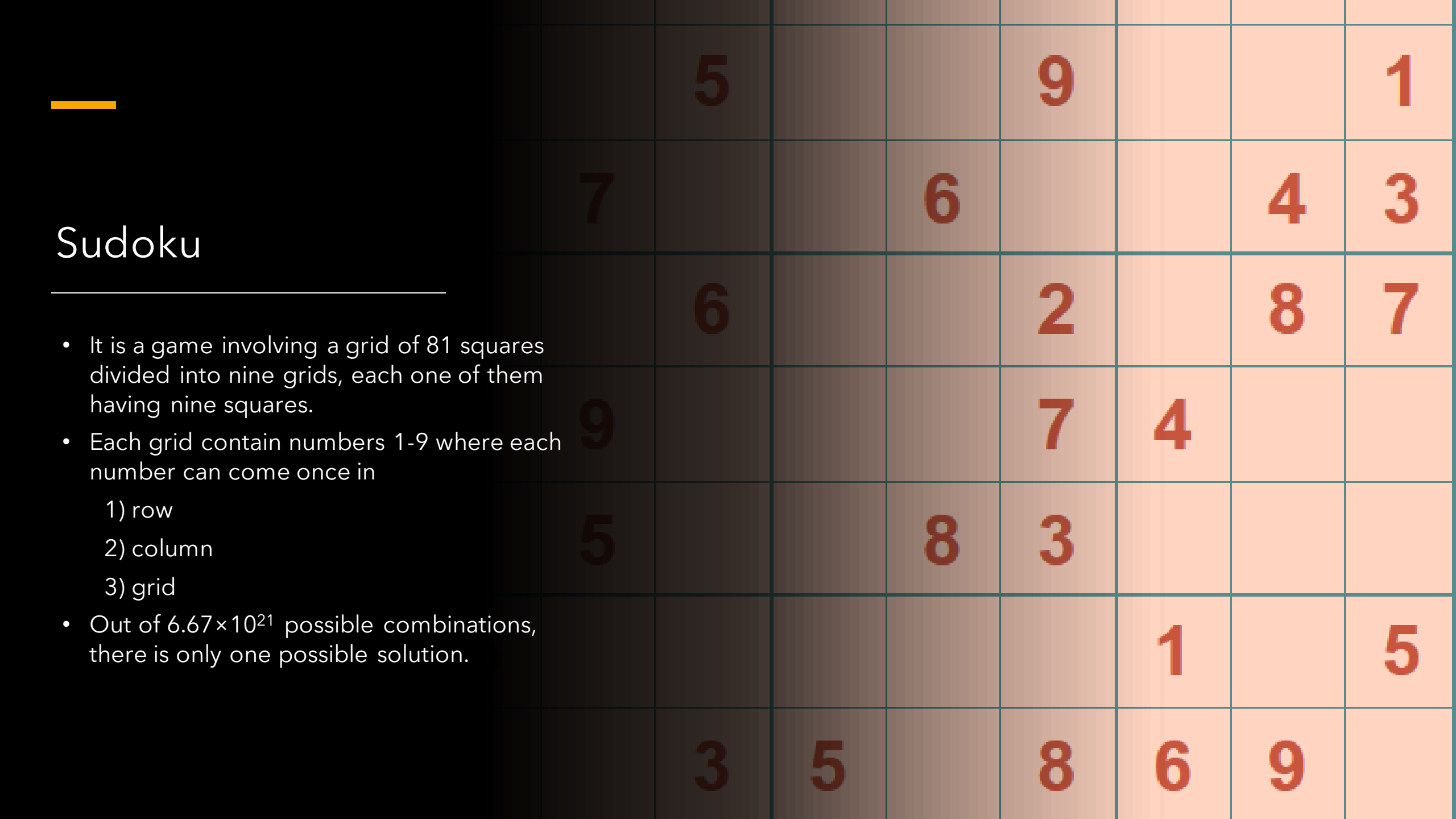
- Object-oriented Programming
- Functional Style
- Async Processing
- Client-side Validations
- More control in browser

Applications

- Web Development
- Web Applications
- Server Applications
- Mobile Applications

Project

Sudoku Solver

Sudoku

- It is a game involving a grid of 81 squares divided into nine grids, each one of them having nine squares.
- Each grid contain numbers 1-9 where each number can come once in
  1) row
  2) column
  3) grid
- Out of 6.67×10^{21} possible combinations, there is only one possible solution.