Jeffrey's JavaScript Handout

– History
- When Created : 1995
- Who Creator : Brenden Eich
- Where : Netscape
- Standard for the web : Ecmascript

– Design Goals
- Client-Side Scripting
- Create dynamic HTML
- Reasons for prospering
  - The fail of Java Applets for computation upon HTML
  - Dominant scripting language of internet browsers

– Syntax
- Described in ECMAScript using Context-Free Grammar
- Case-sensitive

– Data Types
- Dynamic Typing
- Simple Types
  - Number
  - String
  - Boolean
  - Undefined
  - Null
- Complex Types
  - Object
    - No ordinal-types such as enumeration
    - Arrays
      - Supports Associative
      -

– Data Structures
- JSON
- Soon to come with ECMAScript 6 – Classes

– Data Abstractions
- JSON
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– Conditionals
- if-else

- if-elif
- while
- do-while
- for
- switch
- case
  – Subprograms
    - functions
  – Parameter Passing
  – Concurrency
    - Yes
    - Frameworks that implement this
      ○ AJAX
      ○ Web Workers
  – Recursion
    - Fully supported
  – Exception Handling
    - Try/Catch
  – Expressions and Assignment Statements
    -
  – I/O
  – Unusual Features
    - LISP functions
  – Contributions to the Programming Language Landscape
    - Pragmatic approach to form validation

Have a nice day!