Course Overview = {

Introduction and Setup, JS Language Features, Operators,

Functions and Scope, Objects and Arrays, Classes and Modules,

Programming the BOM and DOM, Promises and Error Handling, Data Access Using HTTP,

Forms, Security, Building for Production

}

Introduction = {

Constants, let and var, Rest Parameters, Destructuring,

Spread Syntax, typeof(), Common Type Conversions, Controlling Loops

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| --- | --- | --- |
| **What** | **Why** | **How** |
| Constant | Prevents changing of value. | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.1\1.PNG) |
| Let | Declares and initializes variable. | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.2\2.PNG) |
| Var | Declares and initializes variable that can be accessed as undefined before actual declaration of said variable. | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.3\3.PNG) |
| Rest Parameters | Refers to rest of the parameters or remainder. | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.4\4.PNG) |
| Destructuring Arrays | Assigns the index values within an array to variables. | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.5\5.PNG) |
| Destructuring Objects | Assigns an object’s properties to variables. | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.6\6.PNG) |
| Spread Syntax | Takes the index values of arrays and strings and breaks it apart into parameters to initialize a variable. | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.7\7.PNG) |
| typeof() | Return the type of data entered into this function. | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.8\8.PNG) |
| for() Loop | Allows looping of a line or lines of code until a condition is proven true. | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.9\9.PNG) |

}

Operators = {

Equality Operators Unary Operators Logical Operators Relational Operators

Conditional Operators Assignment Operators Operator Precedence

}

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| --- | --- | --- |
| **What** | **Why** | **How** |
| Equality | Converts the values being compared to the same data type. | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.10\10.PNG) |
| Strict Equality | Does not do type conversion | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.10\10.PNG) |
| Not Equal to | Converts the values being compared to the same data type. | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.10\10.PNG) |
| Not Double Equal to | Does not do type conversion | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.10\10.PNG) |
| Unary Operators | incrementing (++), decrementing (--), plus (+), minus (-) | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.11\11.PNG) |
| Logical (Boolean) Operators | AND (&&), OR (||) | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.12\12.PNG) |
| Relational Operators | Greater Than (>), Less Than (<), Greater Than Equal To (>=), Less Than Equal To (<=) | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.13\13.PNG) |
| Conditional Operator | Conditional Operators give you the option to short hand an if-statement. | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.14\14.PNG) |
| Assignment Operators | Addition (+=), Subtraction (-=), Division (/=), Multiplication (\*=), Modulus (%=), Byte Shift Left(<<=), Byte Shift Right (>>=), Shift Right and Keep Sign (>>>=) | [*.png*](file:///\\Naeast.ad.jpmorganchase.com\home\amerxbus\XBUS\nacdc1vdihome12\R666050\jpmDesk\Desktop\My%20Stuff\Proficiency;%20JavaScript\2\2.15\15.PNG) |
| [Operator Precedence](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Operators/Operator_Precedence) | | |
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