1. OPARATOR PADA JAVASCRIPT [vid](https://www.youtube.com/watch?v=EnXClrVdpTM&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=10)

ARITMATIKA : +, -, \*, /, %

PENUGASAAN : =, +=, -=, \*=, /=, %=

PERBANDINGAN : ==, !=, ===, !==, >, <, >=,<= (hasil TRUE/FALSE)

1. OPERATOR PADA JAVASCRIPT [vid](https://www.youtube.com/watch?v=_XSeF00qNWE&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=11)

LOGIKA : && (AND), || (OR), ! (NOT)

STRING : +

TYPEOF : typeof(operan)

KONDISIONAL : (kondisi) ? benar : salah -> (x % 2) ? “genap” : “ganjil”

1. TIPE DATA STRING : “ “, ‘ ‘, ESCAPE CHARACTER (\’, \”, \XXXX(unicode)), .length [vid](https://www.youtube.com/watch?v=ud322_5-M3s&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=12)
2. TIPA DATA BOOLEAN : TRUE/FALSE -> Boolean(10<20), truthy, falsy [vid](https://www.youtube.com/watch?v=y1X-JoJMXXA&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=13)
3. VARIABEL PADA JAVASCRIPT (var nama=”sandika”,umur=31,lulus=true;) [vid](https://www.youtube.com/watch?v=X1q_cK0Qv6o&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=14)

DEKLARASI (var/let/const) : Mendaftarkan variable ke dalam lingkup yang sesuai

INISIALISASI : Menyediakan memori untuk variable -> var x; //deklarasi & inisialisasi

ASSIGNMENT : Menetapkan nilai yang spesifik ke dalam variable -> x=20; assignment

1. POPUP BOX PADA JAVASCRIPT : alert, prompt, confirm [vid](https://www.youtube.com/watch?v=4f4Cqr3NSRI&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=16)
2. CONTROL FLOW : Pengulangan (for, while, do while) , Pengkondisian [vid](https://www.youtube.com/watch?v=cL5aeWbIEuk&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=17)
3. PENGULANGAN [vid](https://www.youtube.com/watch?v=61XLzozBj2c&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=18)

WHILE ( while(kondisi) { aksi } ) - > var ulang=true; while (ulang) {

{console.log(‘hello!’);ulang=confirm(‘lagi?’);}

FOR -> for ( var i = 1; i <= 10; i++){console.log(‘hello world’);} [vid](https://www.youtube.com/watch?v=1HussC8jKrk&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=20)

1. PENGKONDISIAN [vid](https://www.youtube.com/watch?v=u0bl5DXNmVw&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=22)

IF ELSE -> if (angka<5) {…} else {…}

IF .. ELSE IF – ELSE

SWITCH -> switch(angka){case 1: …break; case 2: ..break; default:…break;}

1. FUNCTION [intro](https://www.youtube.com/watch?v=6-UqHXBtYkg&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=27)

PARAMETER, ARGUMENTS [vid](https://www.youtube.com/watch?v=MIn5CZhFqKo&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=29)

REFACTORING : mengubah kode agar menjadi lebih baik tanpa mengubah fungsionalitasnya [vid](https://www.youtube.com/watch?v=7LGERCBLUSM&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=30)

VARIABEL SCOPE : variable global, variable fungsi (local) [vid](https://www.youtube.com/watch?v=a3CWDShrh0s&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=31)

REKURSIF : menggantikan looping, Fibonacci, pencarian dan penelusuran data list dan tree [vid](https://www.youtube.com/watch?v=-JV_YbJR1GY&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=32)

DECLARATION(konsep hoisting ) & EXPRESSION (lebih powerfull, sebagai closure) [vid](https://www.youtube.com/watch?v=3-Grei4X2NI&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=33)

1. ARRAY PADA JAVASCRIPT ( var hari = [‘Senin’, ‘Selasa’, ‘Rabu’]) -> pada js array bertipe object [vid](https://www.youtube.com/watch?v=CW5pfpafgDE&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=34)

KENAPA GUNAKAN ARRAY : 1. Mempermudah pencarian 2. Manajemen memori, 3. Array bisa menyimpan data yang berbeda, bahkan menyimpan function atau data array lagi

MANIPULASI ARRAY : 1. Menambah elemen 2. Menghapus elemen 3. Menampilkan isi array [vid](https://www.youtube.com/watch?v=pDSz3sWnPRw&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=35)

METHOD ARRAY: length, join, push/pop, unshift/shift

SLICE ( var arr2 = arr.slice(1,3)) & SPLICE (arr.splice(1,2,’Dody’, ‘Fitri’)) [vid](https://www.youtube.com/watch?v=9aMb10KJhsk&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=36)

FOREACH/MAP (mengakses setiap element array, map mengembalikan array), SORT [vid](https://www.youtube.com/watch?v=PUiEP7PBfh0&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=37)

FILTER (mengembalikan array nilai)& FIND(mengembalikan hanya nilai pertama yg ditemukan) [vid](https://www.youtube.com/watch?v=5leAoG35T14&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=38)

1. LATIHAN FUNGSI DAN ARRAY UTK APLIKASI ANGKOT [vid1](https://www.youtube.com/watch?v=mgRpWhNNGZo&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=39) [vid2](https://www.youtube.com/watch?v=5v9WiGqfdWE&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=40)
2. OBJECT PADA JAVASCRIPT (kumpulan nilai yg mempunyai nama/array yang sakti) [intro](https://www.youtube.com/watch?v=RKsapPaUgww&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=41)

MEMBUAT OBJECT : 1. Object literal 2. Function Declaration 3. Constructor Function [vid](https://www.youtube.com/watch?v=bUZKDBgJFIM&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=42)

THIS [vid](https://www.youtube.com/watch?v=5cGPf1sdTvw&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=43)

LATIHAN OBJECT [vid](https://www.youtube.com/watch?v=JtESnohPUIw&list=PLFIM0718LjIWXagluzROrA-iBY9eeUt4w&index=44)