Coucion 4 Courcion type inter conversion. Stands C++, Java, C > types emst for variables. Javascrift > types enest for

A = "Shi)

" E veu	y thung	الد من	is an	object"	→ =	False
	(10	et z = hru				
	(,,					

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How JS handles coercion??

Abstract Operations >

-> first abstract operation that we need to Slave is To Primiting + Pu Tolrimitine abstract operation, takes an infent argument and an optional Preferred Type argument. * This operation converts the input to a non-object type value. If an argument is capable of getting Converted into more than one primitive type, then
the func was Preferred type argument to resolution

⇒ As	s we	said, th	lis ie also	an abe tra	et operation
that	mlams	it is	conceptual,	me connot	invoke it,
kut	JS	in ternally	Lan.		



- 1 Assert: *Input* is an ECMAScript language value.
- 2. If Type(input) is Object, then
 - a. If *PreferredType* is not present, let *hint* be "default".
 - b. Else if *PreferredType* is hint String, let *hint* be "string".
 - c. Else *PreferredType* is hint Number, let *hint* be "number".
 - d. Let exoticToPrim be ? GetMethod(input, @@toPrimitive).
 - e. If exoticToPrim is not undefined, then
 - i. Let result be ? Call(exoticToPrim, input, « hint »).
 - ii. If Type(result) is not Object, return result.
 - iii. Throw a **TypeError** exception.
 - f. If hint is "default", set hint to "number".
 - g. Return? OrdinaryToPrimitive(input, hint).
- 3. Return *input*.

hint "default"

> "Str.'n"

> "Number"

4 the Tolrimitive function preferes string & number Conversion.

hint methody ["value 0;", to Strip"] method Namus -> ["to String", value Of"]

- if hint/ preferred type is number then on our infut argument me call valur 0f () function toget a number & if it does n't genes a primitie me call to Stoing 1) function. if hint argument is "String" then un fant call wskig () & then value Of ()

hint > Number hint > "String" 405 pring () value Of () value Of () Win20 (value of): fun () 9

- hint Str. 4

To Number

" 123" - 123 "O" -> O "12+3" - NaN " -0" → -D [null] >0 "3.145" -> 3.14S [undefun] → O " O • " → O ["0"] 70 "." - Nan [""] > 0 [1,2,3] > NO

$$ku - 8 = -7$$
 $1 - 8 = -2$

"123"
$$\rightarrow 123$$
"6 $+ 340$ " $\rightarrow 687340$
"6 $+ 347$ " $\rightarrow NaN$
" $a6c^4 \rightarrow NaN$

Whenver in an numere operation we don't have a number, ToN umber() is called. for example tria Subtrachen operation.

22 (Key: valu 3

2= C value of () L 33

Svalue Of: () 6 3 3

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object totrimtive value Of to Shiry

