

#javascript : 5 common error messages

Debugging is a skill to learn. It takes time, it takes practice. It starts by reading error/warning messages.

```
> function test() {  
  let a = 0;  
}  
  
console.log(a);  
  
✖ ▶ Uncaught ReferenceError: a is not defined  
   at <anonymous>:5:13
```

In JS following 2 messages are not same:

- 1) undefined
- 2) uncaught ReferenceError: x is not defined

✖ undefined -> During memory creation phase, memory is allocated to each variable. If a variable is not initialized, undefined is assigned to that variable.

✖ ReferenceError -> uncaught ReferenceError: x is not defined -> It means x is not defined, When JS is in code execution phase and it looks for x in memory but x is not found so it throws this error.

✖ TypeError -> Uncaught TypeError: Assignment to constant variable.

```
const name = 'JavaScript'
```

```
name = 'typescript'
```

Above code throws following error: Uncaught TypeError: Assignment to constant variable.

✖ TypeError -> Uncaught TypeError: (intermediate value).disply is not a function

```
class Main {
```

```
display() {  
  console.log("Hello World");  
}  
}
```

`new Main().disply();` // it is not a method of Main class

If we are trying to call a method that is not present or callable, then JS will throw a `TypeError`.

✗ `SyntaxError` -> `Uncaught SyntaxError: Missing initializer in const declaration`

`const javascript`

Above code throws following error: `Uncaught SyntaxError: Missing initializer in const declaration`

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