

Compiler v/s Interpreter

- The main aim of these two are

1. To check errors

2. Convert into machine code

3. **Execution / running a program** : Compiler **does not takes responsibility** of execution , Interpreter is responsible for execution of code

Compiler

- Compiler will convert program into machine code if they are no error
- Compilation from source code to machine code is done only once
- As translation is done once that's why compiler doesn't run codes
- Even if there's one error in the program , it will not compile the full code must be error free to transform into machine code.

Interpreter

- JavaScript is an interpreter based language
- JS runs inside browser , it cannot run independently
- It translate and runs /executes the code line by line
- Translation is done again and again

- Compiler is faster than interpreter
- In interpreter if there is error in one line the code will still execute
- Interpreter language is easy than compiler language