



* What is a callback function in JS?

→ A function which is passed into another function is called callback function.

→ It gives access to asynchronous ^{world} in a synchronous single threaded language.

* Blocking the Main Thread in JS :-

Q. What is the main Thread?

This is where JS code runs in a web browser. It's responsible for executing scripts, handling user events, updating the UI, and performing other tasks.

Q. What does "Blocking the Main Thread" mean?

→ When a task takes too long to complete on the main thread, it prevents other tasks from being executed. This can make the webpage slow or unresponsive.

Solution :- Use asynchronous operations to keep the main thread responsive.

→ Some async operations are: set Timeout, set Interval, Promises/async await.



Event listeners :-

→ They are heavy

↳ Garbage Collection & removeEventListener :-

→ Event listeners are heavy and consume memory

→ Event listeners form closures and cannot be freed until they are removed.

→ Event listeners are heavy because they create closures that hold onto memory.

A good practice is to remove event listeners when they are not in use.