

# JS Callback Function

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JAVASCRIPT -- NOT a multithreaded Language . Single Thread execution.

Callback function MEANS - **we define** the callback function **but we may not call it**  
Somebody else will call the function

2 types of callback functions

1. **Synchronous** callback functions  
These are called sequentially in the flow of code
2. **Asynchronous** callback functions  
These are called later ---- DELAYED execution

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Synchronous callback functions -- function is passed to another function  
And it is called by that function = the execution of callback function completes **before**  
the function calling it - in sequential flow

**Asynchronous** callback functions ---- the execution of callback function is delayed  
and runs after the calling function returns  
The function to which the callback is passed is put in the callback queue  
After the program stack is empty then the callback queue is executed  
Callback queue has lesser priority than program stack

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JS frontend library --- JQuery  
Convenient for programmer !!!

Library = READYMADE code

HTML with JS

1. Embedd JS in html `<script> function f1() { ....} </script>`
2. Use External JS in html  
`<script src="https://code.jquery.com/jquery-3.7.1.min.js" integrity="sha256-/JqT3SQfawRcv/BIHPTThkBvs00EvttFFmqPF/lyl/Cxo=" crossorigin="anonymous"></script>`

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Jquery ----

- Step1 - write an html file  
Step2 -- add the jquery.js as an external script  
Step3 -- start using jquery functions

Jquery API

1	jQuery or \$
2	ready() - this will register a callback function that is called when document is ready for manipulation( DOM is ready)
3	click() /blur()/change() - this will register a callback function that is called when the Selected html element is clicked
4	val() = returns the value of the selected html element
5	text() = adds innertext to selected html element
6	html()= adds innerHtml to selected html element = overwrites the current content of tag

7	append() = adds to the current content of the tag
8	animate() = adds css to the element to give animation effect
9	hide()
10	show()

