- who.when(what)
- button.addEventListener("click", function callback () {})

who : buttonwhen : click

- what : callback function

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This style of coding is known as "Imperative programming", where everything is specified in a single programming statement and in-particular order (*who-when-what*)

Add. Notes to refer:				
PubSub pattern old way, mediator pattern is more suitable for Observable				
Observable achieves/de-couples same functionality by it splits who, when and what across multiple statements				
It calls "Who" with a new name - Observable, It calls "When" with a new name - Data/Emitted Data/Event/ Emitted Event It calls "What" with a new name - is implemented by Observer(internally it has sub-methods each of which is called as a sub event handlers, Next() will always be there, and additionally can have error() , complete() .				
In Reactive Programming, all the three (who, what, when) can be specified in any order across different program statements separated by other program statements, spread across the code/components/business logic.				

Use case#1:

Every time a event happens, directly do not trigger the event handler, mediate by using an observable in between which has a subscribed observer which has a next method. Every time event happens you trigger observable.next, which trigger observer.next inside which you write event handler logic

Though it appears as an imperative style of programming, but one should notice who and when may be imported from other file/service/component.

Use case#2:

Similarly run some code after some time elapses(imperative programming -> setTimeOut())

```
Who = implicit context(Javascript runtime context)
When = timer event
What = some code/logic
```

Observable.timer(1000ms).subscribe(

```
() => { what; }
);
```

setTimeOut

Observable.timer(3000ms, 1000ms).subscribe(

```
() => { what; }
);
```

setInterval(1000ms) inside setTimeOut(3000ms) implementations

Observable.timer(3000ms, 1000ms, 2).subscribe(

```
() => { what; }
);
```

$setInterval (1000ms)\ inside\ setTimeOut (3000ms)\ for\ 2\ times$ implementations

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```
Observable.timer(3000ms, 1000ms).pluck(2).subscribe(
```

```
() => { what; }
);
```

Different syntax for Use case#2 last operation.

'pluck' is one type of RxJs operator

Use case #4:

Subject is a special type of Observable which is also an Observer.

x.next('JAi Pathala Bhairavi');

Non-chained, non-complicated where Observable and Observer are merged into a single entity called 'Subject'

In Angular component.html template DOM, you can bind @Input(s) to not just data variables/ getter/setters, but also you can bind @Input(s) to Observable streams.

<div [innerText]="someDataVariable"></div>

But if you bind @Input(s) in template DOM to Observable streams, you need to use additional syntax

<div [innerText]="someStreamVariable\$ | async"></div>