Javascript II

The issue of 'this' key word

More About Event

- [addEventListener for options usage](#)
- [Create custom event (new Event)](#)

- Get data with - **XMLHttpRequest** (Asynchronous Javascript XMLHttpRequest -AJAX)

```
var xhrRequest = new XMLHttpRequest()
xhrRequest.open('GET', 'https://api.themoviedb.org/3/movie/top_rated?api_key=4bef8838c2fd078bd13d7127d8dedcd4&language=en-US&page=1')
xhrRequest.onloadend = function (e) {
            console.log('on load end')
}
xhrRequest.onprogress = function (e) {
            console.log('onprogress')
}
xhrRequest.onloadstart = function (e) {
            console.log('on load Start')
}
xhrRequest.onload = function (e) {
            console.log('loaded')
}
xhrRequest.send()
```

- **HTTP request methods**
- **About Restful Api**
- **Promise** ➜ Promise for Xhr or timer
- JSON to object, object to JSON string JSON.parse() / JSON.stringify()

Call Stack and Event Queue

```
console.log('script start')

const interval = setInterval(() => {
  console.log('setInterval')
}, 0)

setTimeout(() => {
  console.log('setTimeout 1')
  Promise.resolve().then(() => {
    console.log('promise 3')
  }).then(() => {
    console.log('promise 4')
  }).then(() => {
    setTimeout(() => {
      console.log('setTimeout 2')
      Promise.resolve().then(() => {
        console.log('promise 5')
      }).then(() => {
        console.log('promise 6')
      }).then(() => {
        clearInterval(interval)
      })
    }, 0)
  })
}, 0)

Promise.resolve().then(() => {
  console.log('promise 1')
}).then(() => {
  console.log('promise 2')
})
```

1. Storage in javascript (local, session, cookie)
2. Date and time in javascript new Date() (moment.js - format time and date)
3. [Regular Expression](https://www.regextester.com/) - https://www.regextester.com/