

Microtasks vs Macrotasks in the Event Loop

- **Microtasks** (like Promise `.then()` callbacks)
have higher priority than macrotasks
- **Macrotasks**
(like `setTimeout()`, I/O operations, and DOM events)
are processed only after the microtask queue is empty

```
1▼ setTimeout(function(){
2    console.info('1. 5s timeout');
3▲ }, 5000);
4
5 let a = Array.from({length: 10000000}, () => Math.random());
6 console.info('2. array created');
7
8▼ const p = new Promise(function(resolve, reject){
9    a.sort();
10    resolve();
11▲ });
12
13▼ p.then(function(){
14    console.info('3. array sorted');
15▲ })
16
17 console.info('4. done');
```

➡ Prints 2, 4, 3, 1