

## Один вызов с коллбэком

The screenshot shows a web browser at the URL `https://kodaktor.ru/?!=js01_b2371`. The page contains a button with the text "Hit me!". The JavaScript code is as follows:

```
1 <button>Hit me!</button>
2 <script type="text/javascript">
3   //
4     ((b,c) =&gt; {
5       c.clear();
6       b.style.zoom = '200%';
7       b.addEventListener(
8         'click',
9         e =&gt; {
10          c.time('S1');setTimeout(() =&gt; {c.log('Done 1'); c.timeEnd('S1');}, 1000);
11        }
12      )
13    })(document.querySelector('button'), console);
14  //]]&gt;
15 &lt;/script&gt;</pre><p>The browser's developer console is open, showing the following log entries:</p><ul><li>Console was cleared</li><li>Done 1</li><li>S1: 1003.083740234375ms</li></ul></div><div data-bbox="140 781 472 808" data-label="Text"><p>Mon, 26 Mar 2018 05:28:32 +0300 js01_b2371</p></div><div data-bbox="140 806 472 832" data-label="Text"><p>Mon, 26 Mar 2018 05:29:12 +0300 js01_d08c3</p></div><div data-bbox="140 831 674 858" data-label="Text"><p>Mon, 26 Mar 2018 05:30:41 +0300 js01_96704 в более красивой форме</p></div><div data-bbox="140 856 545 883" data-label="Text"><p>Mon, 26 Mar 2018 05:36:05 +0300 js01_20d65 promise</p></div><div data-bbox="140 882 524 908" data-label="Text"><p>Mon, 26 Mar 2018 05:44:45 +0300 js01_c2d98 await</p></div>
```

```
1 <button>Hit me!</button>
2 <script type="text/javascript">
3   //
4     ((b,c) =&gt; {
5       c.clear();
6       b.style.zoom = '200%';
7       b.addEventListener(
8         'click',
9         e =&gt; {
10          c.time('S1');setTimeout(() =&gt; {c.log('Done 1');
11            c.time('S2');setTimeout(() =&gt; {c.log('Done 2'); c.timeEnd('S2');}, 2000);
12            c.timeEnd('S1');}, 1000);
13        }
14      );
15    })(document.querySelector('button'), console);
16  //]]&gt;
17 &lt;/script&gt;
18
19
20
21
22</pre></div>
<div data-bbox="40 568 105 601" data-label="Text"><p>Hit me!</p></div>
<div data-bbox="31 641 138 654" data-label="Text"><p>(c)2013 Gossoudarev. - About</p></div>
<div data-bbox="31 654 966 866" data-label="Complex-Block">
<p>Console Audits Network Sources Elements Memory Performance Application Security</p>
<p>top Filter Default levels Group similar</p>
<table border="1">
<tr><td>Console was cleared</td><td>VM1772:4</td></tr>
<tr><td>Done 1</td><td>VM1772:9</td></tr>
<tr><td>S1: 1002.885986328125ms</td><td>VM1772:11</td></tr>
<tr><td>Done 2</td><td>VM1772:10</td></tr>
<tr><td>S2: 2005.794189453125ms</td><td>VM1772:10</td></tr>
</table>
<p>Console What's New Rendering Animations</p>
</div>
```

```
1 <button>Hit me!</button>
2 <script type="text/javascript">
3   //
4     ((b,c) =&gt; {
5       c.clear();
6       b.style.zoom = '200%';
7       b.addEventListener(
8         'click',
9         e =&gt; {
10          c.time('S1');setTimeout(() =&gt; {c.log('Done 1');
11            c.time('S2');setTimeout(() =&gt; {c.log('Done 2');
12              c.time('S3');setTimeout(() =&gt; {c.log('Done 3'); c.timeEnd('S3');}, 3000);
13                c.timeEnd('S2');}, 2000);
14                c.timeEnd('S1');}, 1000);
15          }
16        }
17      );
18    })(document.querySelector('button'), console);
19  //]]&gt;
20 &lt;/script&gt;</pre></div><div data-bbox="40 565 105 598" data-label="Text"><p>Hit me!</p></div><div data-bbox="31 638 138 652" data-label="Text"><p>(c)2013 Gossoudarev. - About</p></div><div data-bbox="31 652 970 858" data-label="Complex-Block"><p>Console Audits Network Sources Elements Memory Performance Application Security</p><p>top Filter Default levels Group similar</p><table border="1"><tr><td>S1: 1000.988037109375ms</td><td>VM1874:13</td></tr><tr><td>Done 2</td><td>VM1874:10</td></tr><tr><td>S2: 2003.333984375ms</td><td>VM1874:12</td></tr><tr><td>Done 3</td><td>VM1874:11</td></tr><tr><td>S3: 3001.05810546875ms</td><td>VM1874:11</td></tr></table><p>Console What's New Rendering Animations</p></div>
```

```
1 <button>Hit me!</button>
2 <script>
3     ((b,c) => {
4         c.clear();
5         b.style.zoom = '200%';
6         b.addEventListener(
7             'click',
8             e => {
9                 c.time('S1');
10                setTimeout(() => {
11                    c.log('Done 1');
12                    c.time('S2');
13                    setTimeout(() => {
14                        c.log('Done 2');
15                        c.time('S3');
16                        setTimeout(() => {
17                            c.log('Done 3');
18                            c.timeEnd('S3');
19                        }, 3000);
20                        c.timeEnd('S2');
21                    }, 2000);
22                    c.timeEnd('S1');
23                }, 1000);
24            }
25        );
26    })(document.querySelector('button'), console);
27 </script>
28
```



Secure | [https://kodaktor.ru/?!=js01\\_20d65](https://kodaktor.ru/?!=js01_20d65)

is01\_20d65



Refresh

Album

HTML5

Refresh

```
1 <button>Hit me!</button>
2 <script>
3     ((b,c) => {
4         c.clear();
5         b.style.zoom = '200%';
6         b.addEventListener(
7             'click',
8             e => {
9                 const t = x => new Promise(res => setTimeout(()=>res(), x));
10                c.time('S1');
11                t(1000)
12                .then(() => { c.log('Done 1'); c.timeEnd('S1'); c.time('S2'); return t(2000);})
13                .then(() => { c.log('Done 2'); c.timeEnd('S2'); c.time('S3'); return t(3000);})
14                .then(() => { c.log('Done 3'); c.timeEnd('S3'); });
15            }
16        );
17    })(document.querySelector('button'), console);
```

Hit me!

← → ↻ Secure | https://kodaktor.ru/?!=js01\_c2d98

is01\_c2d98 + Refresh Album | HTML5 | Refresh

```
3      ((b,c) => {
4          c.clear();
5          b.style.zoom = '200%';
6          b.addEventListener(
7              'click',
8              async e => {
9                  const t = x => new Promise(res => setTimeout(() => res((x === 3000) ? 'Done 3' : ''), x));
10                 c.time('S1');
11                 await t(1000); c.log('Done 1'); c.timeEnd('S1'); c.time('S2');
12                 await t(2000); c.log('Done 2'); c.timeEnd('S2'); c.time('S3');
13                 c.log(await t(3000)); c.timeEnd('S3');
14             }
15         );
16     })(document.querySelector('button'), console);
17 </script>
18
```

Hit me!

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🔍 📄 Console Audits Network Sources Elements Memory Performance Application Security

▶ 🔇 top Filter Default levels ▾  Group similar

Console was cleared

Done 1

S1: 1006.01513671875ms

Done 2

S2: 2002.42724609375ms

Done 3

```
1 <button>Hit me!</button>
2 <script>
3   ((b,c) => {
4     c.clear();
5     b.style.zoom = '200%';
6     b.addEventListener(
7       'click',
8       async e => {
9         const t = x => new Promise(res => setTimeout(() => res(x), x));
10        c.time('S');
11        await Promise.all([t(1000), t(2000), t(3000)]);
12        c.timeEnd('S'); // 300x
13        c.time('S');
14        await Promise.race([t(1000), t(2000), t(3000)]);
15        c.timeEnd('S'); // 100x
16      }
17    });
18  })(document.querySelector('button'), console);
```

all  
race

Hit me!

Console was cleared  
S: 3001.19287109375ms  
S: 1001.31201171875ms

```
Secure | https://kodaktor.ru/js01_98bca
Refresh Album HTML5 script Refresh
1 <button>Hit me!</button>
2 <script>
3     ((b,c) => {
4         c.clear();
5         b.style.zoom = '200%';
6         b.addEventListener(
7             'click',
8             e => {
9
10                [1000, 2000, 3000].forEach(async x => {
11                    const t = x => new Promise(res => setTimeout(() => res(), x));
12                    c.time('S'+x);
13                    await t(x);
14                    c.timeEnd('S'+x);
15                });
16            });
17        });
18    })(document.querySelector('button'), console);
```

параллельно

Hit me!

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Console Audits Network Sources Elements Memory Performance Application Security

top Filter Default levels Group similar

Console was cleared

S1000: 1000.92822265625ms
S2000: 2002.998046875ms
S3000: 3005.572998046875ms





```
1 <button>Hit me!</button>
2 <script>
3     ((b,c) => {
4         c.clear();
5         b.style.zoom = '200%';
6         b.addEventListener(
7             'click',
8             async e => {
9                 for (const x of [1000, 2000, 3000]) {
10                    const t = x => new Promise(res => setTimeout(() => res(), x));
11                    c.time('S'+x);
12                    await(t(x));
13                    c.timeEnd('S'+x);
14                };
15            }
16        );
17    })(document.querySelector('button'), console);
18 </script>
19
```

one lambda  
to rull them all

for await of

Hit me!