

Pw auto waits internally for every action or step.

For example, for `locator.click()`, Playwright will ensure that:

- locator resolves to an exactly one element
- element is **Visible**
- element is **Stable**, as in not animating or completed animation
- element **Receives Events**, as in not obscured by other elements
- element is **Enabled**

Default timeout is 30000 ms.

Auto-waiting

Introduction

Playwright performs a range of actionability checks on the elements before making actions to ensure these actions behave as expected. It auto-waits for all the relevant checks to pass and only then performs the requested action. If the required checks do not pass within the given `timeout`, action fails with the

`TimeoutError`.

For example, for `locator.click()`, Playwright will ensure that:

Click on checkbox - working code –

```
mytest > await.spec.ts 1 x  await2.spec.ts 1  await3.spec.ts 1  await4.spec.ts 1  await5.spec.ts 1  await7.
1  import {test, expect, Browser, Page, Locator, FrameLocator} from '@playwright/test'
2  import { log } from 'console';
3  import path from 'path';
4  import { webkit, chromium, firefox } from 'playwright'
5
6  test('auto wait checks ', async()=>{
7      const browser: Browser = await chromium.launch({headless: false, channel: 'chrome'});
8      const page: Page = await browser.newPage();
9
10     await page.goto("https://classic.freecrm.com/register/");
11
12     //wait for the locator and click on checkbox of i agree.
13     await page.locator('input[name="agreeTerms"]').check();
14
15 });
16
```

Fail the locator to see if waiting for 30 seconds is the default timeout -

```
...  autowait2.spec.ts 1 x  autowait3.spec.ts 1  autowait4.spec.ts 1  autowait5.spec.ts 1  autowait7.spec.ts 1  aut
mytest > autowait2.spec.ts > test('auto wait checks ') callback
1  import {test, expect, Browser, Page, Locator, FrameLocator} from '@playwright/test'
2  import { log } from 'console';
3  import path from 'path';
4  import { webkit, chromium, firefox } from 'playwright'
5
6  test('auto wait checks ', async()=>{
7      const browser: Browser = await chromium.launch({headless: false, channel: 'chrome'});
8      const page: Page = await browser.newPage();
9
10     await page.goto("https://classic.freecrm.com/register/");
11
12     //fail the locator to see if we get 30000 ms as default timeout.
13     //click i agree checkbox.
14     await page.locator('input[name="agreeTerm1212"]').check();
15
16 });
17
```

Time out error comes after 30 seconds -

```
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE

Running 1 test using 1 worker
1) autowait.spec.ts:11:5 > auto wait checks  —
    Test timeout of 30000ms exceeded.

1 failed
autowait.spec.ts:11:5 > auto wait checks  —
```

Change default time out of playwright –

```
...  autowait3.spec.ts 1 x  autowait4.spec.ts 1  autowait5.spec.ts 1  autowait7.spec.ts 1  autowait6.spec.ts 1
mytest > autowait3.spec.ts > test('auto wait checks ') callback
1  import {test, expect, Browser, Page, Locator, FrameLocator} from '@playwright/test'
2  import { log } from 'console';
3  import path from 'path';
4  import { webkit, chromium, firefox } from 'playwright'
5
6  test('auto wait checks ', async()=>{
7      const browser: Browser = await chromium.launch({headless: false, channel: 'chrome'});
8      const page: Page = await browser.newPage();
9
10     //change default timeout from 30000 to 15000 ms.
11     page.setDefaultTimeout(15000)
12
13     await page.goto("https://classic.freecrm.com/register/");
14
15     //click i agree checkbox.
16     await page.locator('input[name="agreeTerm1212"]').check();
17
18 });
19
```

Default time out overridden in output–

```
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE  TEST RESULTS  PORTS

Running 1 test using 1 worker
1) autowait.spec.ts:11:5 > auto wait checks
   TimeoutError: locator.check: Timeout 15000ms exceeded.
   Call log:
     - waiting for locator('input[name=\'agreeTerms11\'']')
```

Give timeout to individual elements–

```
...  autowait4.spec.ts 1 x  autowait5.spec.ts 1  autowait7.spec.ts 1  autowait6.spec.ts 1

mytest > autowait4.spec.ts > test('auto wait checks ') callback
1  import {test, expect, Browser, Page, Locator, FrameLocator} from '@playwright/test'
2  import { log } from 'console';
3  import path from 'path';
4  import { webkit, chromium, firefox } from 'playwright'
5
6  test('auto wait checks ', async()=>{
7      const browser: Browser = await chromium.launch({headless: false, channel: 'chrome'});
8      const page: Page = await browser.newPage();
9
10     //change default timeout from 30000 to 15000 ms.
11     page.setDefaultTimeout(15000)
12
13     await page.goto("https://classic.freecrm.com/register/");
14
15     //give your own time out for specific action.
16     //click i agree checkbox.
17     await page.locator('input[name="agreeTerm1212"]').check({timeout:5000});
18
19 });
20
```

Timeout message–

```
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Call log:
- waiting for locator('input[name=\`agreeTerms11\`']')

17 |         await page.goto("https://classic.freecrm.com/register/");
18 |
> 19 |         await page.locator("input[name='agreeTerms11']").check({timeout: 5000});
    |                                     ^
20 |
21 |
22 |
```

Note–

When we see question mark, thats optional parameter to pass to method–

```

3 import path from 'path';
4 import { webkit, chromium, firefox } from 'playwright'
5
6
7 // test.use({
8 //   actionTimeout: 10000 // Set the action
9 // });
10
11 test('auto wait checks ', async()=>{
12   const browser: Browser = await chromium.l
13   const page: Page = await browser.newPage(
14     // page.setDefaultTimeout(15000);
15     //default time out = 30 secs
16
17     await page.goto("https://classic.freecrm
18
19     await page.locator("input[name='agreeTerms11']").check({timeout: 5000}); - 5003ms
20

```

(method) Locator.check(options?: {
 force?: boolean | undefined;
 noWaitAfter?: boolean | undefined;
 position?: {
 x: number;
 y: number;
 } | undefined;
 timeout?: number | undefined;
 trial?: boolean | undefined;
 } | undefined): Promise<...>
 Ensure that checkbox or radio element is checked.
 Details

Add more test-
 Set time out for all tests-

```

...  await5.spec.ts 1 x  await7.spec.ts 1  await6.spec.ts 1
mytest > await5.spec.ts > ...
1 import {test, expect, Browser, Page, Locator, FrameLocator} from '@playwright/test'
2 import { log } from 'console';
3 import path from 'path';
4 import { webkit, chromium, firefox } from 'playwright'
5
6 //set the timeout at global level for all actions.
7 //so all test in this file will have the timeout.
8 //this timeout is not for other classes.
9 //this timeout is for this file only.
10 test.use({
11   actionTimeout: 5000});
12
13 test('auto wait checks 1 ', async()=>{
14   const browser: Browser = await chromium.launch({headless: false, channel: 'chrome'});
15   const page: Page = await browser.newPage();
16
17   await page.goto("https://classic.freecrm.com/register/");
18
19   //click i agree checkbox.
20   await page.locator('input[name="agreeTerm1212"]').check();
21
22 });
23
24 test('auto wait checks 2 ', async()=>{
25   const browser: Browser = await chromium.launch({headless: false, channel: 'chrome'});
26   const page: Page = await browser.newPage();
27
28   await page.goto("https://classic.freecrm.com/register/");
29
30   //click i agree checkbox.
31   await page.locator('input[name="agreeTerm1212"]').check();
32

```

```

31     await page.locator('input[name="agreeTerm1212"]').check();
32
33 });
34
35 test('auto wait checks 3 ', async()=>{
36     const browser: Browser = await chromium.launch({headless: false, channel: 'chrome'});
37     const page: Page = await browser.newPage();
38
39     await page.goto("https://classic.freecrm.com/register/");
40
41     //click i agree checkbox.
42     await page.locator('input[name="agreeTerm1212"]').check();
43
44 });
45

```

```

...  autowait7.spec.ts 1  autowait6.spec.ts 1 X
mytest >  autowait6.spec.ts > ...
1  import {test, expect, Browser, Page, Locator, FrameLocator} from '@playwright/test'
2  import { log } from 'console';
3  import path from 'path';
4  import { webkit, chromium, firefox } from 'playwright'
5
6  //here the global timeout of 30000 ms is applied not the one we set.
7
8  test('auto wait checks 1 ', async()=>{
9      const browser: Browser = await chromium.launch({headless: false, channel: 'chrome'});
10     const page: Page = await browser.newPage();
11
12     await page.goto("https://classic.freecrm.com/register/");
13
14     //click i agree checkbox.
15     await page.locator('input[name="agreeTerm1212"]').check();
16
17 });
18
19 test('auto wait checks 2 ', async()=>{
20     const browser: Browser = await chromium.launch({headless: false, channel: 'chrome'});
21     const page: Page = await browser.newPage();
22
23     await page.goto("https://classic.freecrm.com/register/");
24
25     //click i agree checkbox.
26     await page.locator('input[name="agreeTerm1212"]').check();
27
28 });
29

```

```

28 });
29
30 test('auto wait checks 3 ', async()=>{
31     const browser: Browser = await chromium.launch({headless: false, channel: 'chrome'});
32     const page: Page = await browser.newPage();
33
34     await page.goto("https://classic.freecrm.com/register/");
35
36     //click i agree checkbox.
37     await page.locator('input[name="agreeTerm1212"]').check();
38
39 });
40

```

Change individual timeout for test1-

```

... autowait7.spect.ts 1 x
mytest > autowait7.spect.ts > test('auto wait checks 1 ') callback
1  import {test, expect, Browser, Page, Locator, FrameLocator} from '@playwright/test'
2  import { log } from 'console';
3  import path from 'path';
4  import { webkit, chromium, firefox } from 'playwright'
5
6  test.use({
7      actionTimeout: 15000});
8
9  test('auto wait checks 1 ', async()=>{
10     const browser: Browser = await chromium.launch({headless: false, channel: 'chrome'});
11     const page: Page = await browser.newPage();
12
13     await page.goto("https://classic.freecrm.com/register/");
14
15     //click i agree checkbox.
16     //set the individual timeout also in addition to global timeout.
17     await page.locator('input[name="agreeTerm1212"]').check({timeout:5000}); ⚠️ TimeoutError: locator.check: Timeout 5000ms exceeded.
18
19 });
20
21 test('auto wait checks 2 ', async()=>{
22     const browser: Browser = await chromium.launch({headless: false, channel: 'chrome'});
23     const page: Page = await browser.newPage();
24
25     await page.goto("https://classic.freecrm.com/register/");
26
27     //click i agree checkbox.
28     //here timeout is 15000 ms - global one.
29     await page.locator('input[name="agreeTerm1212"]').check(); ⚠️ TimeoutError: locator.check: Timeout 15000ms exceeded.
30
31 });
32

```

```
31 });
32
33 test('auto wait checks 3 ', async()=>{
34   const browser: Browser = await chromium.launch({headless: false, channel: 'chrome'});
35   const page: Page = await browser.newPage();
36
37   await page.goto("https://classic.freecrm.com/register/");
38
39   //click i agree checkbox.
40   //here timeout is 15000 ms - global one.
41   await page.locator('input[name="agreeTerm1212"]').check();
42
43 });
44
```

⊗ TimeoutError: locator.check: Timeout 15000ms exceeded.