

Configuring Playwright Tests



Andrejs Doronins

```
.launch(new BrowserType.LaunchOptions()  
    .setHeadless(false)  
    .setSlowMo(1000)  
    .setAcceptDownloads(true)  
);
```

```
page.setViewportSize(1920, 1080);
```

```
.newContext(new Browser.NewContextOptions()  
    .setStorageStatePath(Paths.get("state.json")));
```

Overview



Configuring at every level

```
Playwright pw = Playwright.create();
```

// OR


```
Playwright pw2 = Playwright.create(new Playwright.CreateOptions()  
    .setEnv(Map.of("var1", "key1")));
```

“The variables that you set are normal environment variables that get passed to the browser when we launch them as a sub-process.”

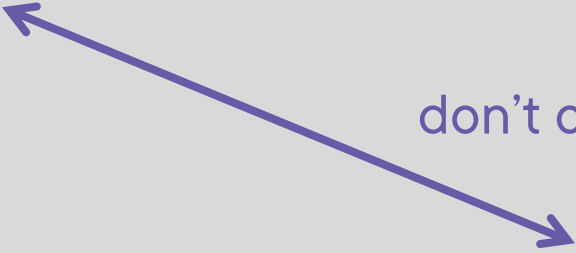
Playwright Team

```
Browser br = browserType.launch(new BrowserType.LaunchOptions()  
    .setHeadless(false).setSlowMo(1000)  
    // Max waiting time for the browser to start  
    .setTimeout(5000)  
    .setDownloadsPath(Path.of(URI.create("...")))  
);  
  
br.newContext(new Browser.NewContextOptions().setAcceptDownloads(true));
```

gets cleaned up



don't confuse



```
Browser br = browserType.launch(new BrowserType.LaunchOptions()  
    .setHeadless(false).setSlowMo(1000)  
    // Max waiting time for the browser to start  
    .setTimeout(5000)  
    .setDownloadsPath(Path.of(URI.create("...")))  
    .setChannel("chrome") // or "msedge" and other  
);
```

```
// init a browser
```

```
.launch();
```

```
// for web sockets
```

```
.connect("wsEndpoint")
```

```
.connect("wsEndpoint", new BrowserType.ConnectOptions()
```

```
    .setSlowMo(200)
```

```
    .setTimeout(1000));
```




```
BrowserContext ctx = browser.newContext(new Browser.NewContextOptions()  
    .setAcceptDownloads(true)  
    .setStorageStatePath(...)  
    .setBaseURL("https://base.com/")  
    .setStrictSelectors(true)  
    .setViewportSize(1920, 1080)  
    .setJavaScriptEnabled(false)  
    .setLocale("...")  
    .setGeolocation()  
    .setTimezoneId("...")  
    // etc.  
);
```

```
String baseUrl = "http://somewhere.com";
```

Test 1

```
page.navigate(baseUrl);
```

Test 2

```
page.navigate(baseUrl + endpoint);
```

```
BrowserContext ctx = browser.newContext(new Browser.NewContextOptions()  
                                         .setBaseURL("https://somewhere.com/")  
);
```

```
// factory method
```

```
BrowserContext createCtxWithBaseUrl(Browser browser, String baseUrl) {  
    return browser.newContext(new Browser.NewContextOptions()  
        .setBaseUrl(baseUrl));  
}
```

```
page.isVisible(new Page.IsVisibleOptions());  
page.isChecked(new Page.IsCheckedOptions());  
page.isDisabled(new Page.IsDisabledOptions());  
page.isEnabled(new Page.IsEnabledOptions());  
page.isHidden(new Page.IsHiddenOptions());  
page.isEditable(new Page.IsEditableOptions());
```



setStrict(true);

Saw an **error**? Report it!



```
page.isVisible("text=error");
```



you want this

ERROR! Complete meltdown!

```
assertTrue(page.isVisible("#a", new Page.IsVisibleOptions()  
                                .setStrict(true)));  
assertTrue(page.isVisible("#b", new Page.IsVisibleOptions()  
                                .setStrict(true)));  
assertTrue(page.isVisible("#c", new Page.IsVisibleOptions()  
                                .setStrict(true)));
```

```
browser.newContext(new Browser.NewContextOptions()  
                    .setStrictSelectors(true));
```

```
browser.newContext(new Browser.NewContextOptions()  
    .setViewportSize(1920, 1080));
```




If you must always use
several primitive types
together, then you're
missing a domain object

```
public class ViewportSize {
```

```
    int width;
```

```
    int height;
```

```
IPHONE_X = new ViewportSize(375, 812);
```



```
public ViewportSize(int width, int height) {
```

```
    this.width = width;
```

```
    this.height = height;
```

```
}
```

```
}
```

```
browser.newContext(new Browser.NewContextOptions()  
    . setJavaScriptEnabled(false));
```



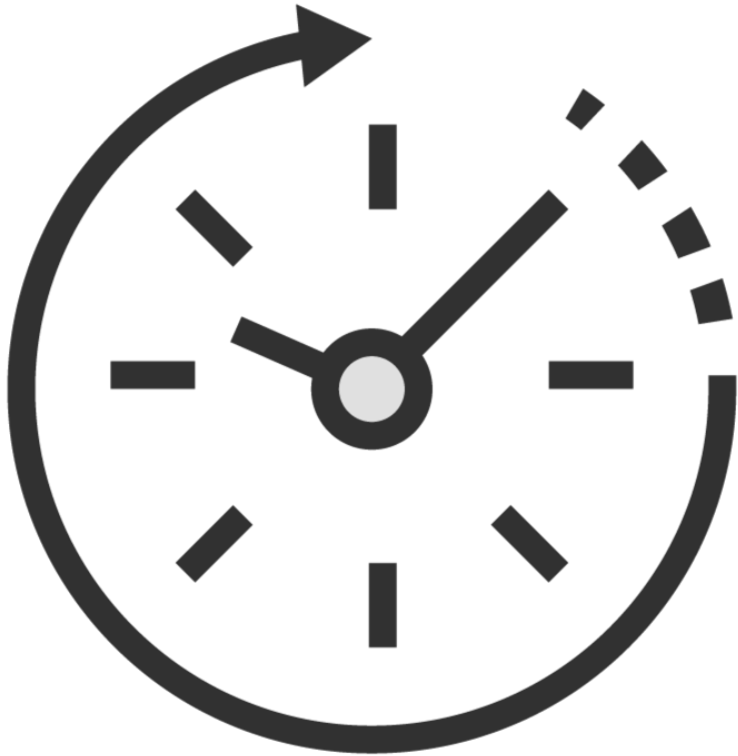
Please turn on JavaScript



```
browser.newContext(new Browser.NewContextOptions()  
    .setLocale("...")  
    .setTimezoneId("...")  
    .setGeolocation(x , y)  
);
```



Time Outs



setTimeout on various interfaces.

Defines max waiting time:

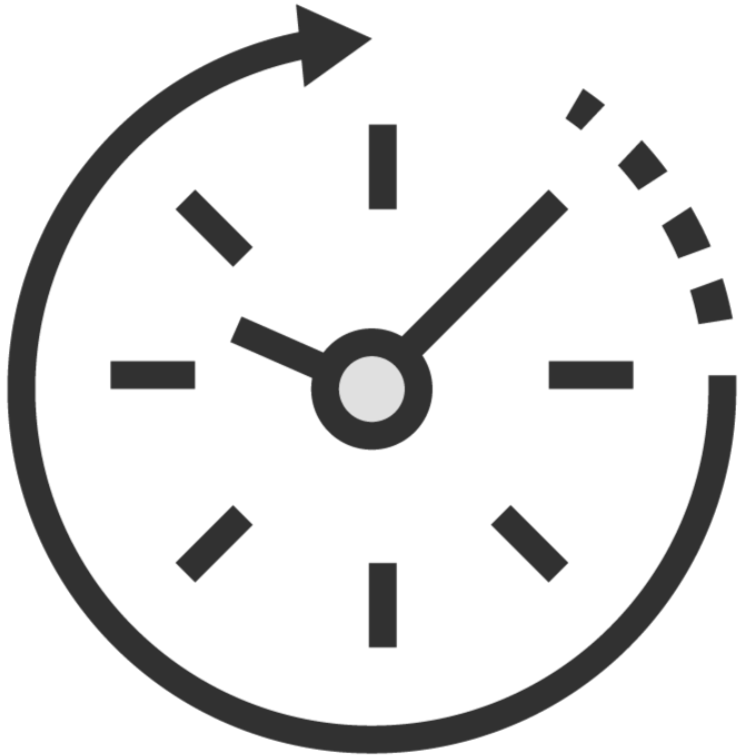
.launch(... .setTimeout(x))

- for browser to start

.connect(... .setTimeout(x))

- for establishing a connection via Web Sockets

Time Outs (Continued)



On BrowserContext and Page:

setDefaultTimeout(x)

- affects timeout of most actions (clicking, selecting...)

setDefaultNavigationTimeout(x)

- how long to wait for loading to end before throwing
- affects all navigation methods

Summary



Configuring Playwright tests:

- Unique to a specific interface
 - `setAcceptDownloads()`, etc.
- Common
 - `setTimeout()`, etc.

Repeating config in tests? Refactor!

Up Next:

Diving into Networking
