

# page.metrics()

The `page.metrics` method belongs to the `Page` class in the Puppeteer library for `node.js`. The method returns the performance metrics of a web page. The performance metrics include the number of various elements in the web page and the time taken to load these elements.

## Syntax

```
page.metrics()
```

## Parameter

None.

The `page.metrics` method computes the metrics of the page that the `async` function opened most recently.

## Return Value

The method returns a promise object that contains the metrics. The following table describes the keys along with the datatype.

Key	Datatype	Description
Timestamp	number	The timestamp at which the metrics was generated.
Documents	number	The number of documents in the web page.
Frames	number	The number of frames in the web page.
JSEventListeners	number	The number of events in the web page.
Nodes	number	The number of DOM nodes in the web page. A node translates to an HTML element in the web page.
LayoutCount	number	Total number of full or partial page layouts.
RecalcStyleCount	number	Total number of page style recalculations.
LayoutDuration	number	Combined duration of all page layouts in milliseconds.
RecalcStyleDuration	number	Combined duration of all page style recalculations in milliseconds.
ScriptDuration	number	Combined duration of to execute all the JavaScript elements in milliseconds.
TaskDuration	number	Combined duration to complete all the tasks performed by the browser in milliseconds.
JSHeapUsedSize	number	JavaScript heap size used to load the web page completely.
JSHeapTotalSize	number	Total JavaScript heap size available to the browser.

## Example

The following example shows an implementation of the method that accepts a URL as a parameterized keyboard input and generates the performance metrics of the web page.

### Implementation

```
const puppeteer = require('puppeteer');

(async () => {
  const browser = await puppeteer.launch();
  const page = await browser.newPage();
  const url = 'https://' + process.argv.slice(2);
  await page.goto(url);
  const perf = await page.metrics();
  console.log(JSON.stringify(perf));
  await browser.close();
})();
```

### Output

```
E:\md> node perf.js thebeatles.com
{"Timestamp":23486.936345,"Documents":12,"Frames":11,"JSEventListeners":190,"Nodes":3246,"LayoutCount":29,"RecalcStyleCount":82,"LayoutDuration":1.288257,"RecalcStyleDuration":0.921157,"ScriptDuration":1.065484,"TaskDuration":4.302352,"JSHeapUsedSize":7203624,"JSHeapTotalSize":18006016}
```

### Similar Methods

```
page.evaluate()
```