

How to Download Images from a **Website Using Puppeteer**

This article will take you through steps to download images from a website using Puppeteer.

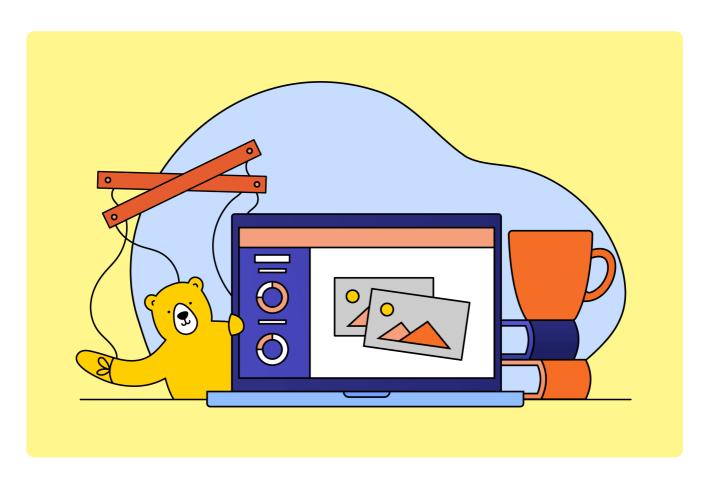
by Josephine Loo · June 2022











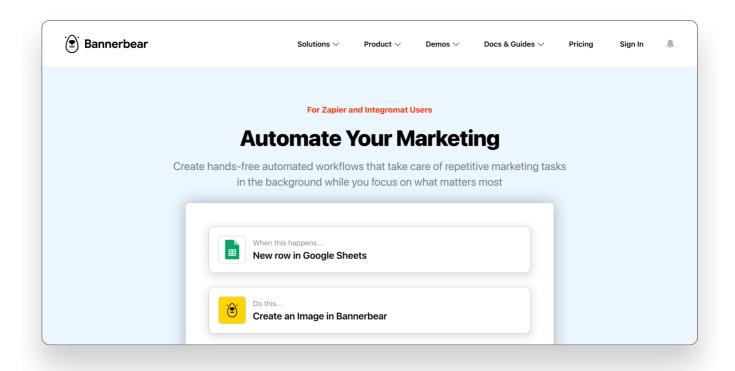
Contents

- What is Puppeteer
- Pre-requisites
- Getting Started
 - Step 1. Create a New Node.js Project
 - Step 2. Install Puppeteer
- Testing Puppeteer
 - Step 1. Write the Code
 - Step 2. Run the Code
- Downloading Images from a Website
 - Step 1. Create a New File
 - Step 2. Import Modules
 - Step 3. Write the Code for Downloading Images
 - Step 4. Create a New Folder for Images
 - Step 5. Run the Code
- Using the Bannerbear API

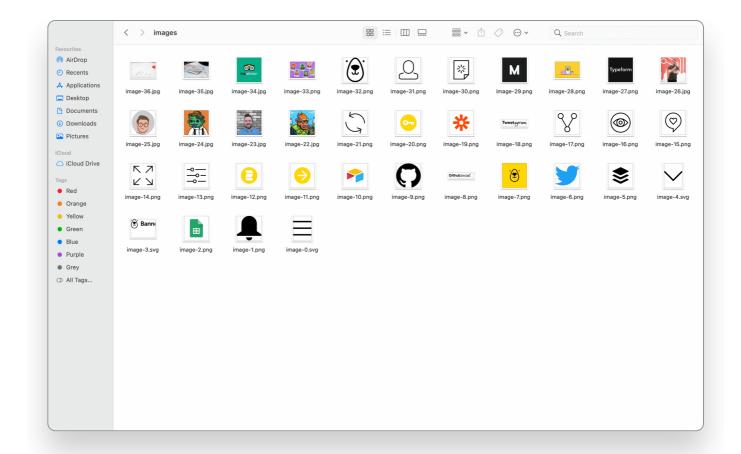
Why use Puppeteer to download images? We can just right-click and save. It's simple.

That's only true if you're only downloading a few images. Imagine if you're downloading 100+ images from a website manually, that's a dreadful task. Fret not! We can do this by using automation and save all images from a website to a folder IN ONE GO.

In this tutorial, we will be guiding you step-by-step on how to download images (.jpg, .png, .svg, .gif) from a website using an automation tool called Puppeteer. You can use it on any website that you want but we will be using this Bannerbear page for this tutorial:



At the end of this tutorial, you will have images from a website downloaded to a folder:



Images downloaded from the Bannerbear page using Puppeteer

What is Puppeteer

Puppeteer ✓ is a Node library which provides a high-level API to control Chrome or Chromium over the DevTools Protocol. It is very useful for automating the Chrome browser to run website tests. Puppeteer runs headless by default, which means you won't see the browser running but it can be configured to run full (non-headless) Chrome or Chromium.

Pre-requisites

To use Puppeteer to download images from a website, you will need to have Node.js > and npm > installed.

For reference, the version of Node.js and npm we are using for this tutorial are 14.17.3 and 6.14.13 respectively. Please check the official documentation \nearrow to check your version compatibility.

Getting Started

Step 1. Create a New Node.js Project

Create a new folder for your project and go to the directory.

```
mkdir puppeteer-download-images
cd puppeteer-download-images
```

Init a new Node.js project in the folder.

```
npm init
```

It will prompt you for input for a few aspects of the project, just press enter if you want to use the default values.

Once you run through the npm init steps above, a package.json
file will be generated and placed in the current directory.

```
| Deptode | Dept
```

Step 2. Install Puppeteer

Run the command below to install Puppeteer.

```
npm i puppeteer
```

A folder named node_modules and a file named package- lock.json will be added to your project after running the command.

```
PORTIONS

PUPPTIER COMMISSION

(i) package joon X

(ii) package joon X

(iii) package joon Y

(iii) package joon A

(iii) package joon Y

(iii) package joon Y

(iii) package joon Joon A

(iiii) package joon Joon A

(iii) package joon Jo
```

When you run the command above to install Puppeteer, a recent version of Chromium which is guaranteed to work with the Puppeteer API is also downloaded.

```
Downloading Chromium r991974 - 117.2 Mb [============] 100% 0.0s
Chromium (991974) downloaded to /Users/josephineloo/puppeteer-download-image/node_modules/puppeteer/.local-chromium/mac-991974
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN puppeteer-download-image@1.0.0 No description
npm WARN puppeteer-download-image@1.0.0 No repository field.
+ puppeteer@14.1.1
added 58 packages from 76 contributors and audited 58 packages in 17.652s

8 packages are looking for funding
run `npm fund` for details

found 0 vulnerabilities
```

Testing Puppeteer

Before we start writing codes to download images from a website, let's try whether Puppeteer is working properly. We will use a simple example from the official documentation > to take a screenshot of a website.

Step 1. Write the Code

Create a new example.js file and paste the following code:

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

(async () => {
   const browser = await puppeteer.launch();
   const page = await browser.newPage();
   await page.goto('https://google.com');
   await page.screenshot({ path: 'example.png' });

await browser.close();
})();
```

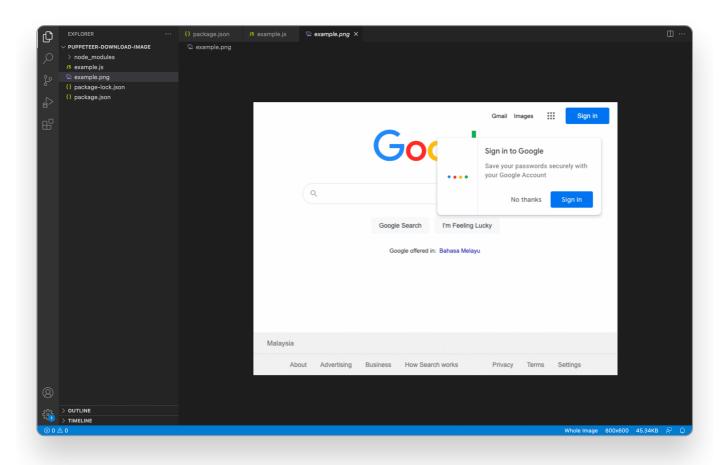
This example creates a page, navigates it to a URL, and then saves a screenshot.

Step 2. Run the Code

Run the example.js file to execute the code.

```
node example.js
```

You will find a new image example.png created inside your folder. This is the screenshot of the page visited by Puppeteer. example.png



Now we know that Puppeteer is working, we can start writing codes to download images!

Downloading Images from a Website

Step 1. Create a New File

In the same project, create <u>index.js</u> file. This is where we will be writing our code to download images from the Bannerbear page.

```
Description of package into the state of the
```

Step 2. Import Modules

Inside the index.js file, we need to require puppeteer and the fs (file system) module. The fs module will allow you to write data fetched from the website into a file.

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

Step 3. Write the Code for Downloading Images

Then, write the following code:

```
(async () => {
 const browser = await puppeteer.launch();
 const page = await browser.newPage();
 let counter = 0;
 page.on('response', async (response) => {
   const matches = /.*\.(jpg|png|svg|gif)$/.exec(response.
   console.log(matches);
   if (matches && (matches.length === 2)) {
     const extension = matches[1];
     const buffer = await response.buffer();
     fs.writeFileSync(`images/image-${counter}.${extension
     counter += 1;
 });
 await page.goto('https://www.bannerbear.com/solutions/auto
 await browser.close();
})();
```

Similar to the previous example, Puppeteer will open a page and navigate to the URL. Then, it will catch responses which match the image file extensions (.jpg, .png, .svg, .gif), rename it and save it to a folder named /images.

The complete code looks like this.

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

```
(async () => {
 const browser = await puppeteer.launch();
 const page = await browser.newPage();
 let counter = 0;
 page.on('response', async (response) => {
   const matches = /.*\.(jpg|png|svg|gif)$/.exec(response.
   console.log(matches);
   if (matches && (matches.length === 2)) {
     const extension = matches[1];
     const buffer = await response.buffer();
     fs.writeFileSync(`images/image-${counter}.${extension
     counter += 1;
 });
 await page.goto('https://www.bannerbear.com/solutions/auto
 await browser.close();
})();
```

Step 4. Create a New Folder for Images

Before executing the code, create a new /images subfolder in the current directory. This is where the images downloaded from the page will be saved.

Step 5. Run the Code

Now, run index.js and see all images from the page get downloaded into the /images folder.

```
node index.js
```

That's it! All images from the Bannearbear page are now downloaded to the /images folder. 59

You can try this on other websites as well. Simply replace the Bannerbear URL with another URL and then run the node_index.js command.

Using the Bannerbear API

If you want to process the images like applying an overlay or watermark to them, you can try using the Bannerbear API. The Bannerbear API allows you to create a template that can be applied to all images and generate the images in a few seconds by sending modification requests to the API endpoint. There are also tons of templates in our template library to choose from if you don't want to create your own template. All you need to do is sign up for an account and you can start generating images immediately for free!



Josephine Loo

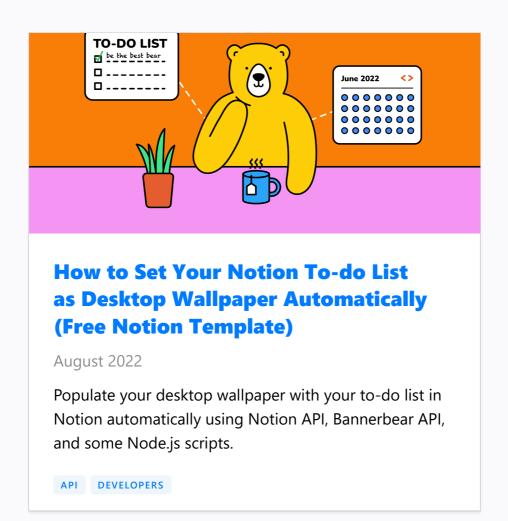
Josephine is an automation enthusiast. She loves automating stuff and helping people to increase productivity with automation.

TAGS developers puppeteer



Related Posts

Other resources on Bannerbear with the tags developers and puppeteer





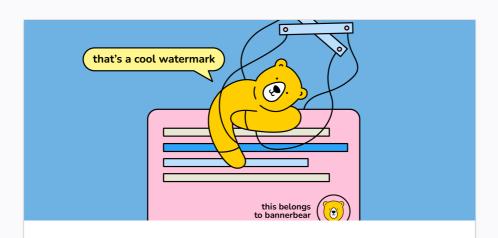


How to Add Subtitles to a Video with FFmpeg (5 Different Styles)

August 2022

Embed hard subtitles with styles like Youtube, Netflix, and Crunchyroll in your videos using FFmpeg.

DEVELOPERS FFMPEG



How to Add a Dynamic Watermark to Puppeteer Screenshots Using **Bannerbear (Part 2: Full-page)**

August 2022

This tutorial shows you how to add a dynamic watermark automatically using Bannerbear when Puppeteer takes a full-page screenshot.

API DEVELOPERS



Follow the Journey

Hello I'm Jon, the founder of Bannerbear — every 2 weeks I send a newsletter with updates from the Product, Marketing and Business sides of my startup, subscribe below to receive it!

Your email Subscribe

Use Cases

Generate Images via API Watermark Videos via API Generate PDFs via API Generate Images with Zapier Watermark Videos with Zapier Generate PDFs with Zapier More Use Cases

Product

Image Generation API
Multi Image Generation API
Video Generation API
PDF Generation API
Template Library
Charts & QR Codes
Bannerbear for Enterprise

Integrations

Airtable Integration
Zapier Integration
Integromat Integration
Forms Integration
Simple URLs
Signed URLs

Demos

Multi Image Demo Al Face Detect Demo Twitter to Instagram Smart Crop Demo
Online Certificate Maker
Online Wedding Invite Maker
Online Event ID Card Maker
Online Photo Collage Maker
Online Invoice Maker

Docs & Guides

Help Articles Blog API Quick Start API Reference

Other

About Bannerbear
Open Startup
\$ \$10K MRR SaaS Journey
\$ \$10K to \$20K MRR
\$ Journey to \$1MM ARR
Changelog
Pricing

Copyright © 2022 Bannerbear

Privacy Policy

Terms and Conditions

Have a question?