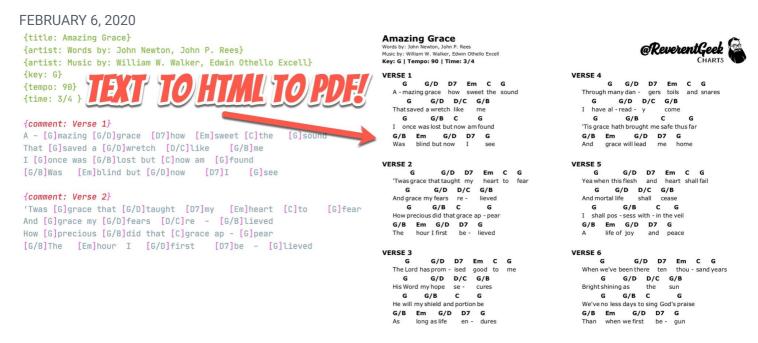


Create PDFs with Node.js and Puppeteer



I love to play music, especially in a band. There's something amazing about the synergy of multiple people harmonizing voices and instruments. However, for a band to be successful, everyone needs to be on the *same page* or it just sounds like a mess.

Come to think of it, I could make a lot of comparisons between a group of people that play well together in a band and a productive, highly-performing software team. But, I digress. Maybe another time!

One way a band to be on the same page is to follow sheet music or chord charts.

I recently updated a personal project named <u>Charter</u> that uses Node.js to convert ChordPro formatted text files into PDF chord charts. It was a lot of fun!

Now, you may be thinking,

Regardless of your personal need for chord charts, you might find the source code for this project useful. Here are a few things you might learn:

- · Create a CLI app using Node.js and Yargs
- Load a text file and parse text
- Use Jest to test Node.js code
- Use handlebars to turn text into HTML
- Use Puppeteer to convert HTML into a PDF

Regarding PDF rendering, I tried lots of solutions including <u>wkhtmltopdf</u>, <u>electron-pdf</u>, <u>phantomjs</u>, <u>automating Chrome</u> with command-line switches, and finally landed on using the latest version of <u>Puppeteer</u>. Puppeteer supports a <u>ton of options</u> for generating PDFs. There's a lot of untapped potential here for doing lots of cool things!

Save Any Web Page to PDF using Node.js

Assuming you already have <u>Node.js</u> installed, open your terminal or command line, create a new project folder, and initialize it.

```
mkdir pdf-test
cd pdf-test
npm init -y
```

Next, install Puppeteer as a dependency.

```
npm install puppeteer
```

Here is an example of how to use Puppeteer to turn the Google home page into a PDF. Create a new file named index.js and paste the following code.

```
"use strict";
const puppeteer = require("puppeteer");
```

```
(async () => {
  const browser = await puppeteer.launch();
  const page = await browser.newPage();
  await page.goto("https://google.com");
  await page.pdf({ path: "./google.pdf", format: "Letter" });
  await browser.close();
})();
```

Run the application using the following command.

```
node .
```

You can change URL to something else. However, keep in mind that some pages load dynamically with JavaScript, so without setting more options, the resulting PDF could appear incomplete.

Convert a Local HTML File to PDF

Puppeteer is not limited to loading web pages. You can also load local HTML files. This is how the Charter application creates a chord chart. The Charter app first parses a ChordPro text file, generates an HTML file, and then uses Puppeteer to render the HTML and save as a PDF.

Create a new file named sample.html and paste the following HTML.

```
<h1>Hello World!</h1>
Yay! My own PDF generator!
</body>
</html>
```

Create a new file named local.js and paste the following code.

```
"use strict";

const path = require("path");
const puppeteer = require("puppeteer");

(async () => {
   const htmlFile = path.resolve("./sample.html");
   const browser = await puppeteer.launch();
   const page = await browser.newPage();
   await page.goto("file://" + htmlFile);
   await page.pdf({ path: "./sample.pdf", format: "Letter" });
   await browser.close();
})();
```

Next, run the code from the command line.

```
node local.js
```

You should now have your very own "Hello World!" PDF in your project folder!

Create a Chord Chart with Charter

If you have Node.js 12.x or higher installed and want to take the CLI app for a spin, you can use npx to run the application directly. Of course, you will need a ChordPro text file to test. Here's an example, or you can find others on the Internet.

```
{title: Amazing Grace}
{artist: Words by: John Newton, John P. Rees}
```

```
{artist: Music by: William W. Walker, Edwin Othello Excell}
{key: G}
{tempo: 90}
{time: 3/4 }

{comment: Verse 1}
A - [G]mazing [G/D]grace [D7]how [Em]sweet [C]the [G]sound
That [G]saved a [G/D]wretch [D/C]like [G/B]me
I [G]once was [G/B]lost but [C]now am [G]found
[G/B]Was [Em]blind but [G/D]now [D7]I [G]see
```

npx will take a little while to download the first time, due to Puppeteer using Chromium.

```
npx chord-charter -f amazing-grace.chordpro
```

I hope you find the project useful! Get out there and be awesome!

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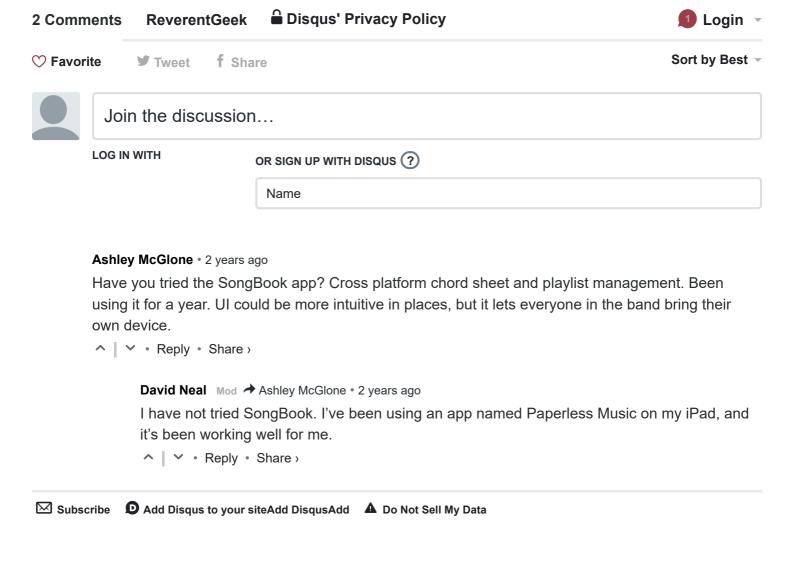
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