

# BUILDING DESKTOP APPLICATIONS WITH



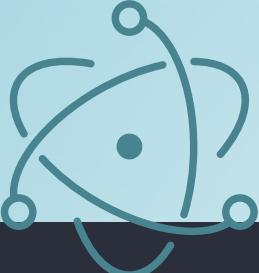
# ELECTRON

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# WHO AM I?







# ELECTRON



Build cross platform desktop apps with JavaScript, HTML, and CSS



# **DEMO!**

**WHY?**



# BENEFITS OF DESKTOP APPS

- Local File System Access
- Network Access
- Frameless Windows
- Multi-Threaded Processes
- Access to OS Features (clipboard, notifications, etc.)
- Database Access (Directly via NodeJS)
- Start/Stop/Interact with Native/OS Services
- Develop Native-Feeling User Experiences
- Fixes Age Old "Back Button" Issue
- NO MORE BROWSER WARS!!
- Too Many To List

# **HOW?**

```
# Clone the Quick Start repository
$ git clone https://github.com/electron/electron-quick-start

# Go into the repository
$ cd electron-quick-start

# Install the dependencies and run
$ npm install && npm start
```

# **DEMO!**

# PROCESSES

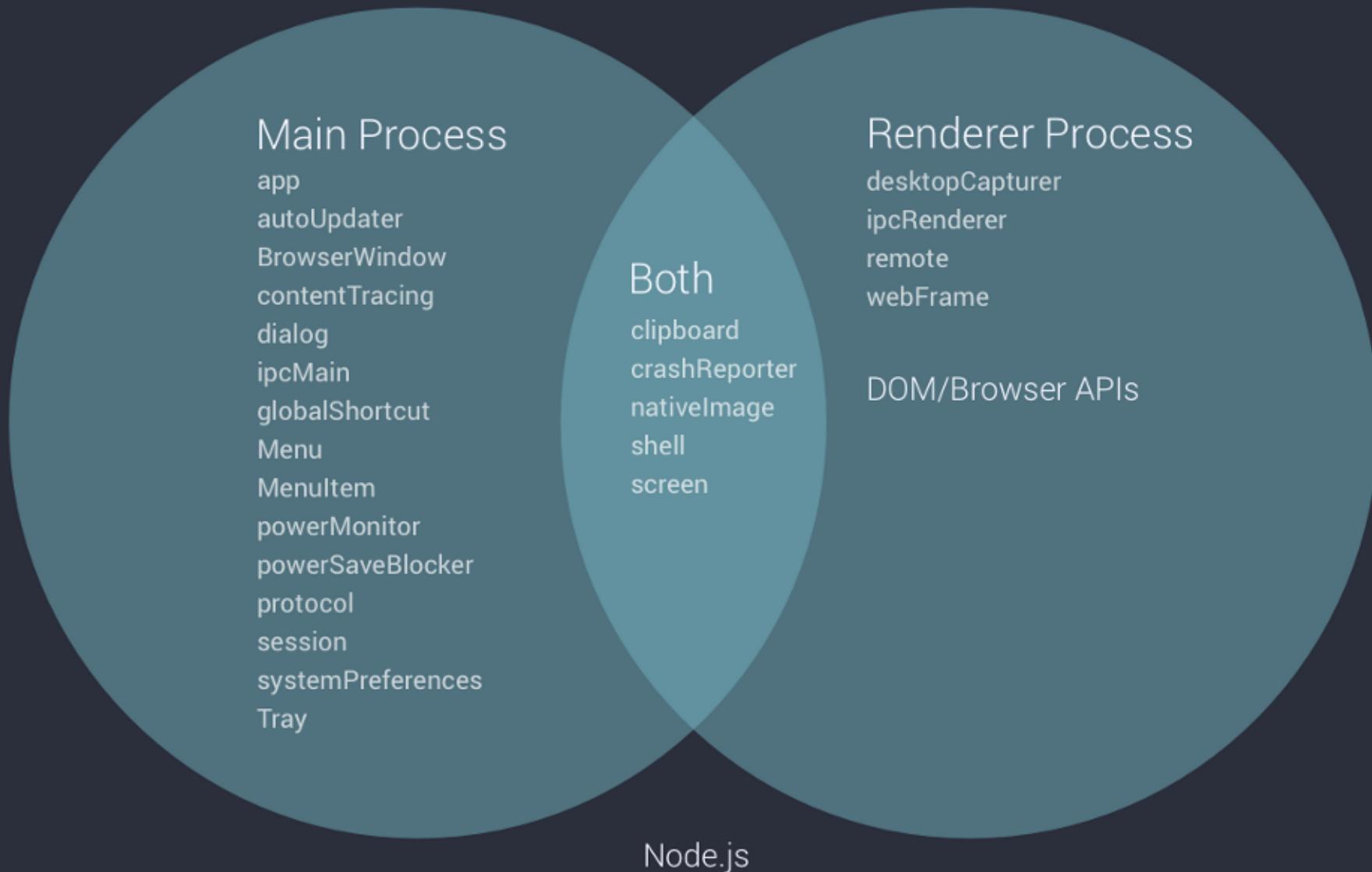
## MAIN PROCESS

The main process is responsible for creating and managing *BrowserWindow* instances and various application events.

## RENDER PROCESS

The render process is responsible for running the user-interface of your app, or in other words, a web page which is an instance of *webContents*.

Credit: <https://medium.com/@ccnokes/deep-dive-into-electrons-main-and-renderer-processes-7a9599d5c9e2>



```
// main.js (MAIN PROCESS)
function createWindow () {
  // Create the browser window.
  mainWindow = new BrowserWindow({width: 800, height: 600}

  // and load the index.html of the app.
  mainWindow.loadURL(url.format({
    pathname: path.join(__dirname, 'index.html'),
    protocol: 'file:',
    slashes: true
  }))}

//...
}
```

```
<!-- index.html --->
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Hello World!</title>
  </head>
  <body>
    <h1>Hello cf.Objective() World!</h1>
    <!-- All of the Node.js APIs are available in this ren-
        We are using Node.js <script>document.write(process.ve-
        Chromium <script>document.write(process.versions.chrom-
        and Electron <script>document.write(process.versions.e-
    </body>

    <script>
      // You can also require other files to run in this pro-
      require('./renderer.js')
    </script>
</html>
```

# **DEMO!**

**BUT WAIT, THERE'S MORE!**

# **DEMO!**

# **CONCLUSION**

## **RESOURCES**

- <https://electron.atom.io/community/>