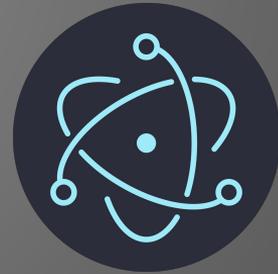


Angular and Electron - More than just a desktop app

Aristeidis Bampakos





GitHub

Learning Angular 10

Third Edition

A no-nonsense beginner's guide to building web applications
with Angular and TypeScript



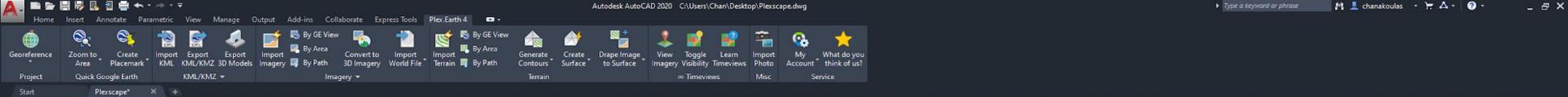
Aristeidis Bampakos

Packt

www.packt.com

<https://www.amazon.com/Learning-Angular-no-nonsense-applications-TypeScript/dp/1839210664>

<https://www.packtpub.com/eu/web-development/learning-angular-10-third-edition>



Plex.Earth

Plex.Earth is a hybrid desktop/cloud-based software, developed by Plexscape, that accelerates the design process of architectural, engineering and construction (AEC) projects.

The application, which is used by some of the most notable firms worldwide, such as Hellenic Petroleum, F1, AECOM and Garver, enables designers to have the complete 3D geographical view of their real-world project sites within minutes, through Google Earth and other satellite data providers.

Import imagery



A MAXAR COMPANY



Google Maps



Plex.Earth



Map Explorer

Electron

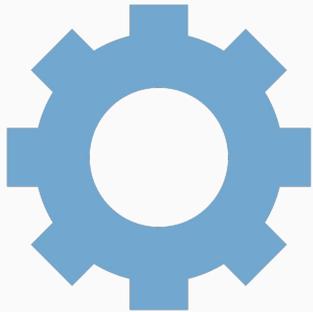


```
> npm install -D electron
```

- Cross platform framework to create desktop apps using web technologies
- Built on top of Chromium, Node.JS and Chrome v8 engine
- Popular apps (VSCode, Slack, Skype, Whatsapp)

Electron architecture

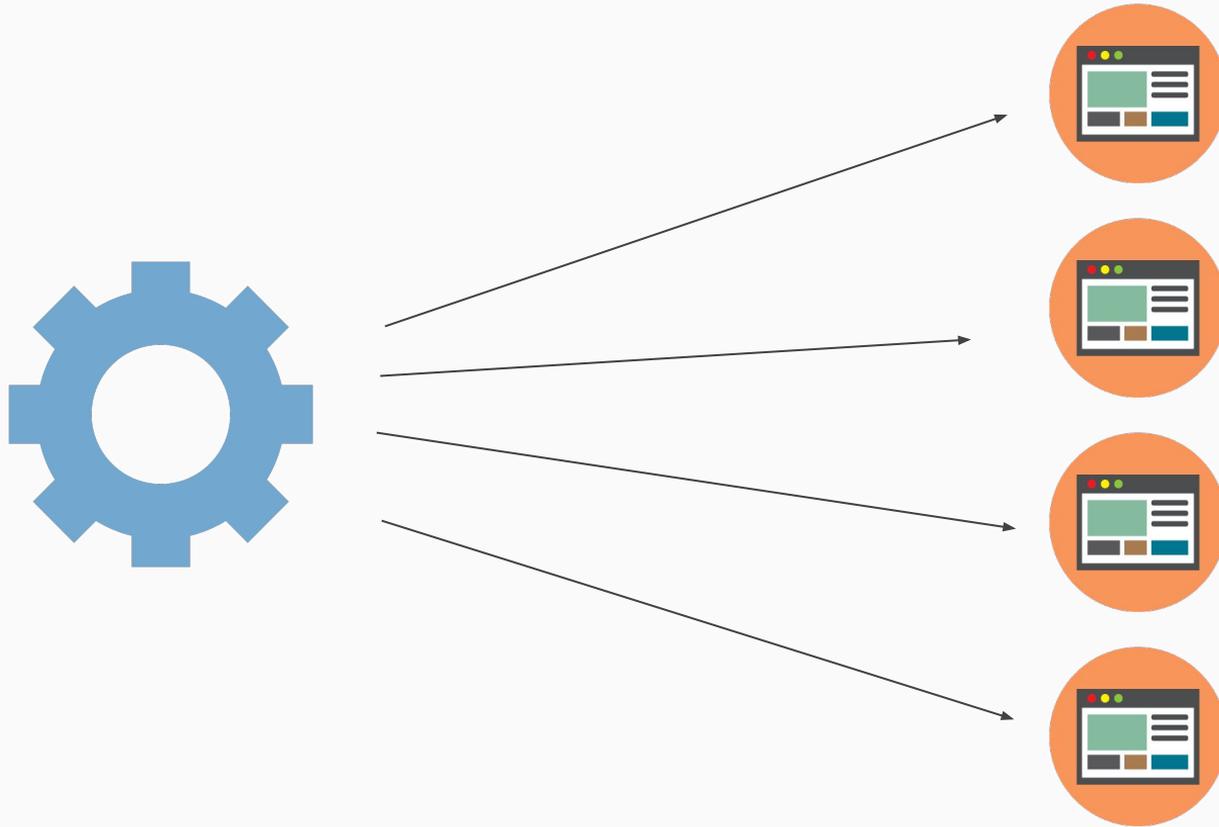
Main



Renderer



Electron architecture



main.ts



```
import { app, BrowserWindow } from 'electron';

function createWindow () {
  const mainWindow = new BrowserWindow({
    width: 800,
    height: 600
  });

  mainWindow.loadFile('index.html');
}

app.whenReady().then(() => {
  createWindow();
});
```

Map Explorer



1. Desktop vs web
2. Serverless
3. Inter-process communication

remote



```
import * as fs from 'fs';  
  
global['fs'] = fs;
```



```
require('electron').remote.getGlobal('fs');
```

remote

```
const mainWindow = new BrowserWindow({  
  width: 800,  
  height: 600,  
  webPreferences: {  
    enableRemoteModule: false  
  }  
});
```



Episode 89: Building Secure Electron Apps with Aristeidis Bampakos

JUNE 23RD, 2020 | 50:40 | E89

<https://realtalkjavascript.simplecast.com/episodes/episode-89-building-secure-electron-apps-with-aristeidis-bampakos>

IPC communication



```
import { ipcMain } from 'electron';

ipcMain.handle('getData', () => {
  return 'Hello World';
});
```



```
async () => {
  const renderer = require('electron').ipcRenderer;
  return await renderer.invoke('getData');
}
```

Thank you!



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- Demo <https://github.com/bampakoa/angular-electron-sample>
- Plex.Earth <http://plex.earth/>
- Electron <https://www.electronjs.org/>
- Electron getting start <https://www.electronjs.org/docs/tutorial/first-app>
- [Electron's 'remote' module considered harmful](#)
- ngx-electron <http://github.com/ThorstenHans/ngx-electron/>