# *Ng6PwaSample* PWA sample project created by Angular6

*Ng6PwaSample* is a sample project for those who want to realize PWA (Progressive Web Apps) in Angular6.

*This full source code*,
https://github.com/Ohtsu/ng6-pwa-sample

*Video Explanation (Japanese)*,
https://youtu.be/XMA1gyyYEr8

*Video Explanation (English)*,
https://youtu.be/b1SUOBI1CiA

## Overview

- *Ng6PwaSample* is a sample PWA project created by `ng add @angular/pwa` command in Angular6.

- *Ng6PwaSample* uses mat-grid, mat-card, mat-menu, mat-icon and so on.

- *Ng6PwaSample* uses d3.js(ver4.3) and ng6-o2-chart.

## Prerequisite

- node.js
- Typescript2
- Angular6
- http-server

## Installation

To install this project, run simply:

```
$ npm install
```

## Build project

You need to build the project in production mode.

```
$ ng build --prod
```

# Start local server

You will find `dist` directory. Change directory into `dist/Ng6PwaSample`.
If you have not installed *http-server* yet, install it as follows.

```
$ npm install http-server -g
```
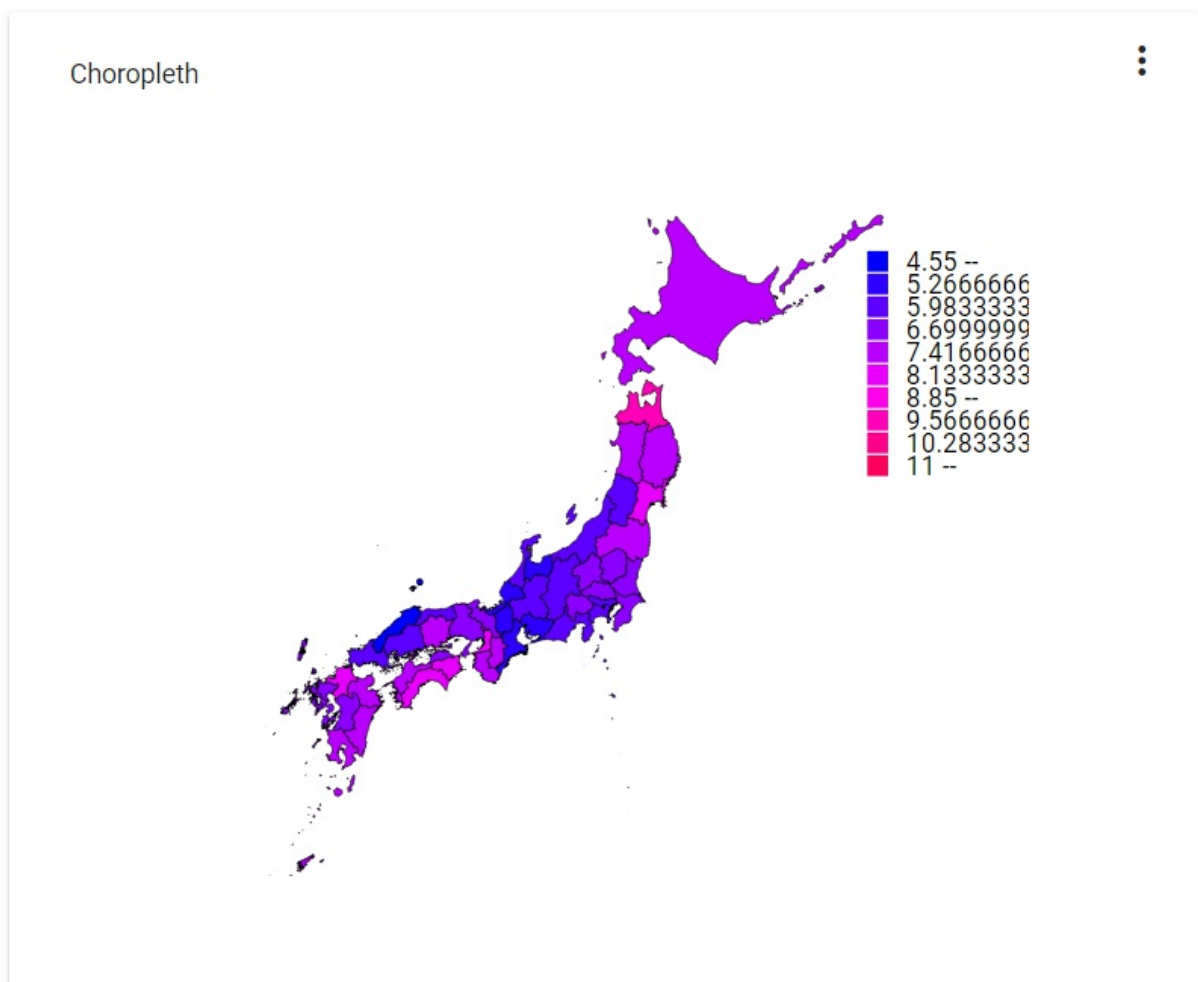
Then type as follows.

```
$ http-server --port 8080
```

Open *http://localhost:8080* in your browser.
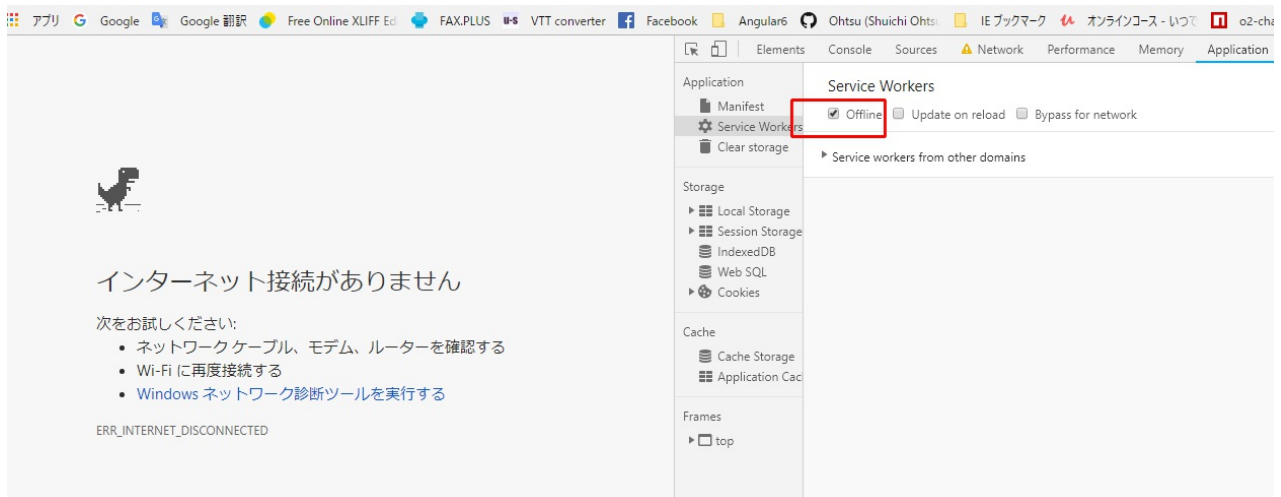
- ***First Page***

## Dashboard 2

Choropleth ⋮

4.55 --
5.2666666
5.9833333
6.6999999
7.4166666
8.1333333
8.85 --
9.5666666
10.283333
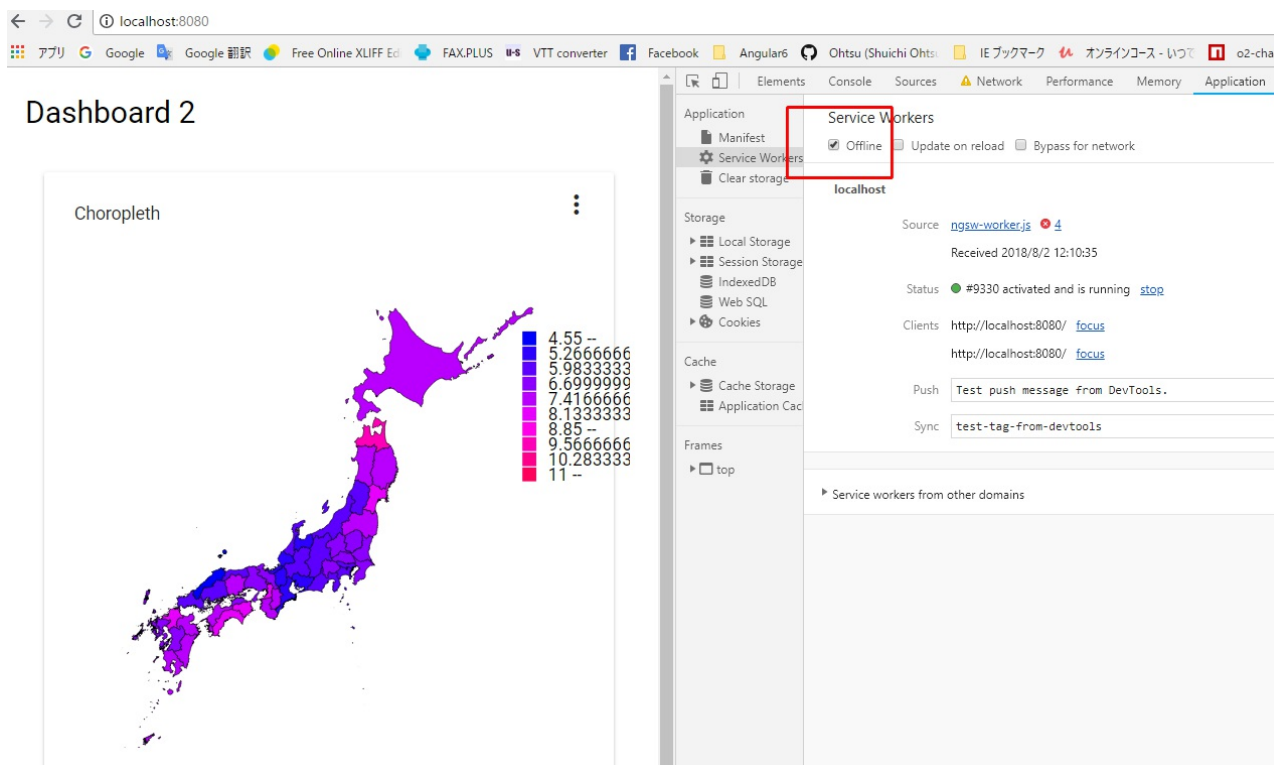11 --

# Check offline mode

Then type `control + shift + i` for opening developer tool in Chrome.
Open `Application Tab` and `Service Workers`.
Try to check `Offline` and refresh the page.

In the case of a normal Web application, when offline, an error message is displayed as follows.



However, if you use the PWA function, such an error message will not be displayed even though it is in offline mode.
Because the service worker detected offline and used the cache.



# Version

- Ng6PwaSample : 0.0
- Angular6 : 6.0.3
- TypeScript : 2.7.2
- @angular/material : 6.2.1
- @angular/pwa : 0.6.8
- @angular/service-worker : 6.0.3

- d3.js : 4.3.0
- ng6-o2-chart : 0.4.0

## Reference

- "PWAで何ができるようになるのか",
  https://speakerd.s3.amazonaws.com/presentations/c9b547f51eed4304ad1c6aa5f9024c1d/PWA%

- "PWA 入門 〜iOS SafariでPWAを体験するまで〜 2018年6月版",
  https://qiita.com/umamichi/items/0e2b4b1c578e7335ba20

- "Great Progressive Web App Experiences with Angular",
  https://www.youtube.com/watch?v=C8KcW1Nj3Mw&feature=share

- "Angular Service Worker Tutorial",
  https://www.youtube.com/watch?v=5YtNQJQu31Y&feature=share

- "Build your First Angular PWA from Scratch (Angular 6 PWA Tutorial)",
  https://www.youtube.com/watch?v=othhfZ0mGjU&feature=share

- "Schematics",
  https://material.angular.io/guide/schematics

- "Angular 5, Angular 6 Custom Library: Step-by-step guide",
  https://www.udemy.com/angular5-custom-library-the-definitive-step-by-step-guide/

- "Angular 5, Angular 6用 カスタムライブラリの作成: 完全ステップ・バイ・ステップ・ガイド",
  https://www.udemy.com/angular5-l/

## Change Log

- 2018.8.2 version 0.0 uploaded

## Copyright

copyright 2018 by Shuichi Ohtsu (DigiPub Japan)

## License

MIT © Shuichi Ohtsu