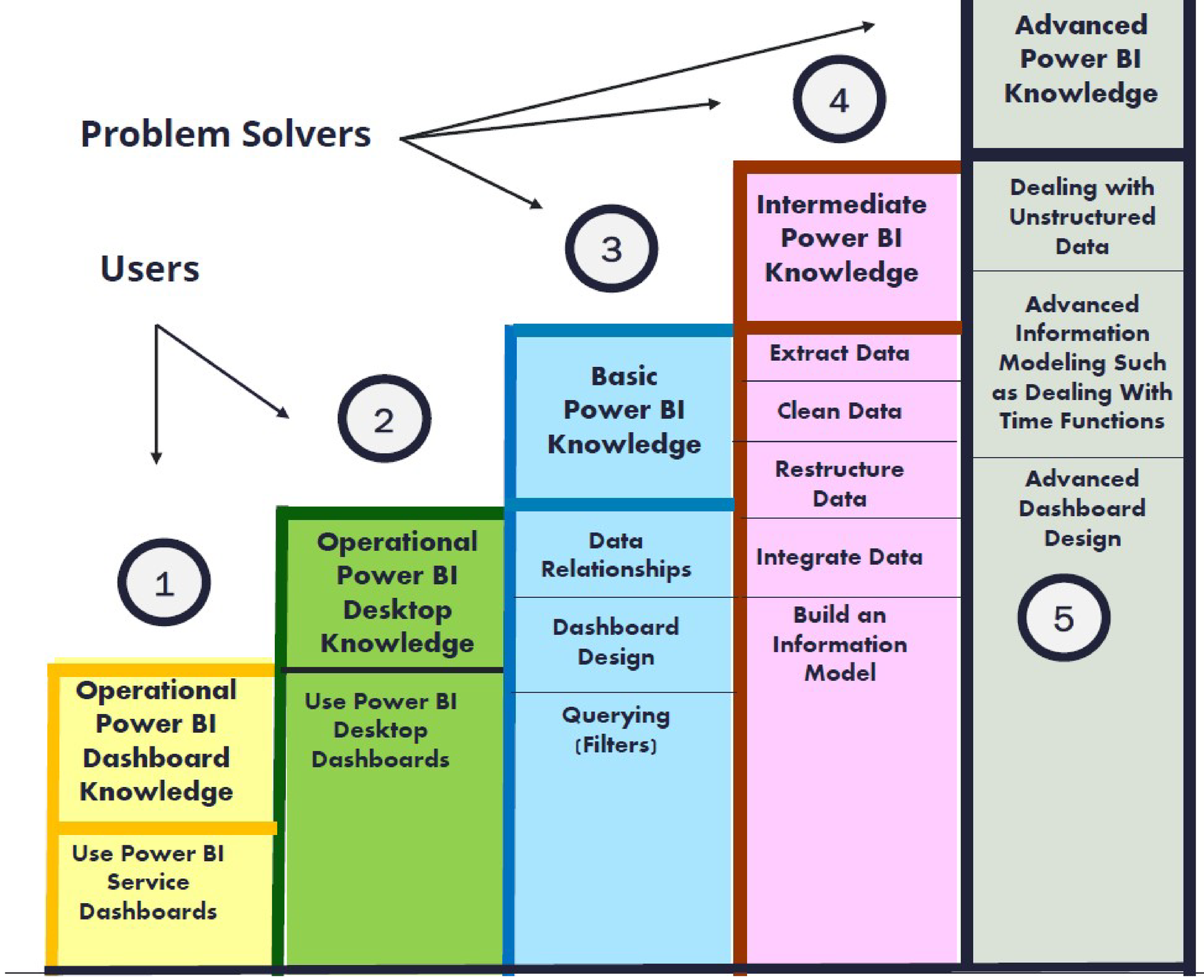
DATA3750
DATA VISUALIZATION BUSINESS REPORTING

A LEADING POLYTECHNIC COMMITTED TO YOUR SUCCESS



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Importing JSON Data

JSON (JavaScript Object Notation, pronounced /ˈdʒeɪsən/; also /ˈdʒeɪˌsɒn/) is an **open standard file format and data interchange format** that uses human-readable text to store and transmit data objects consisting of attribute–value pairs and arrays (or other serializable values).

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CASE STUDY

Wk6_data.json

- What is the sales in Quarter 2 in Japan?
- Show a map of the Sales

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Custom Visuals

- What are “Custom Visuals”
- Development Setup & How it Works
- An Example Visual
- Q & A

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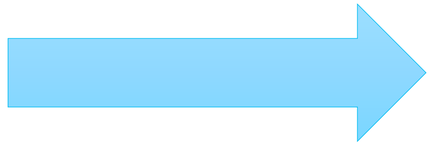
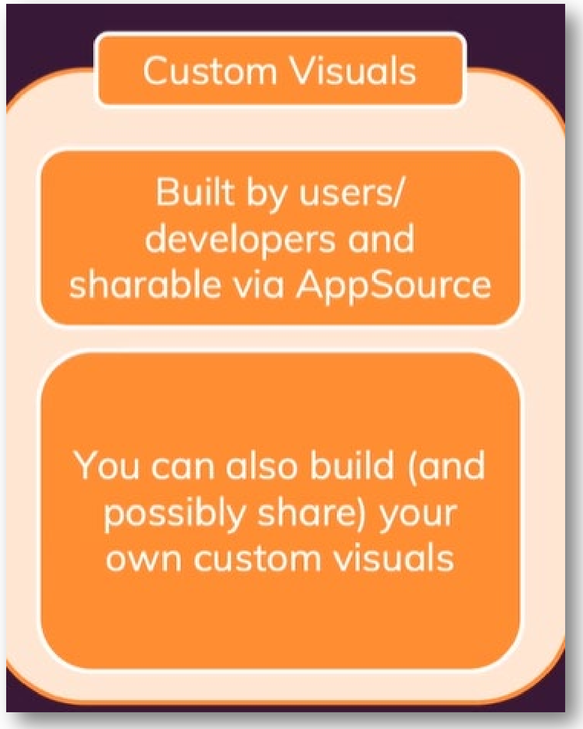
Custom Visuals?





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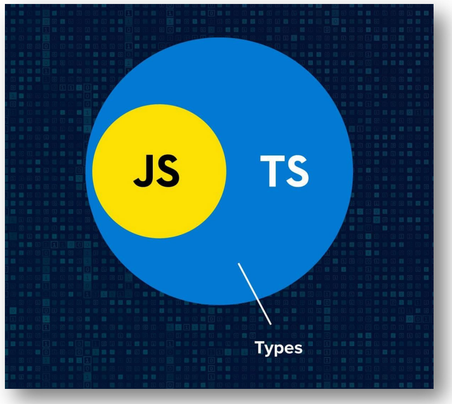
Custom Visuals = TypeScript

TypeScript is JavaScript with syntax for types.

https://www.typescriptlang.org/



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Custom Visuals: Setup

Install Node.js = Enable us to test the visual & Install further packages

Install PowerBI Custom Visuals Tools & Packages = Create projects & build visuals

Create & Install a Certificate = Test visual via Power BI Service

Install an IDE = Write codes for the custom visual

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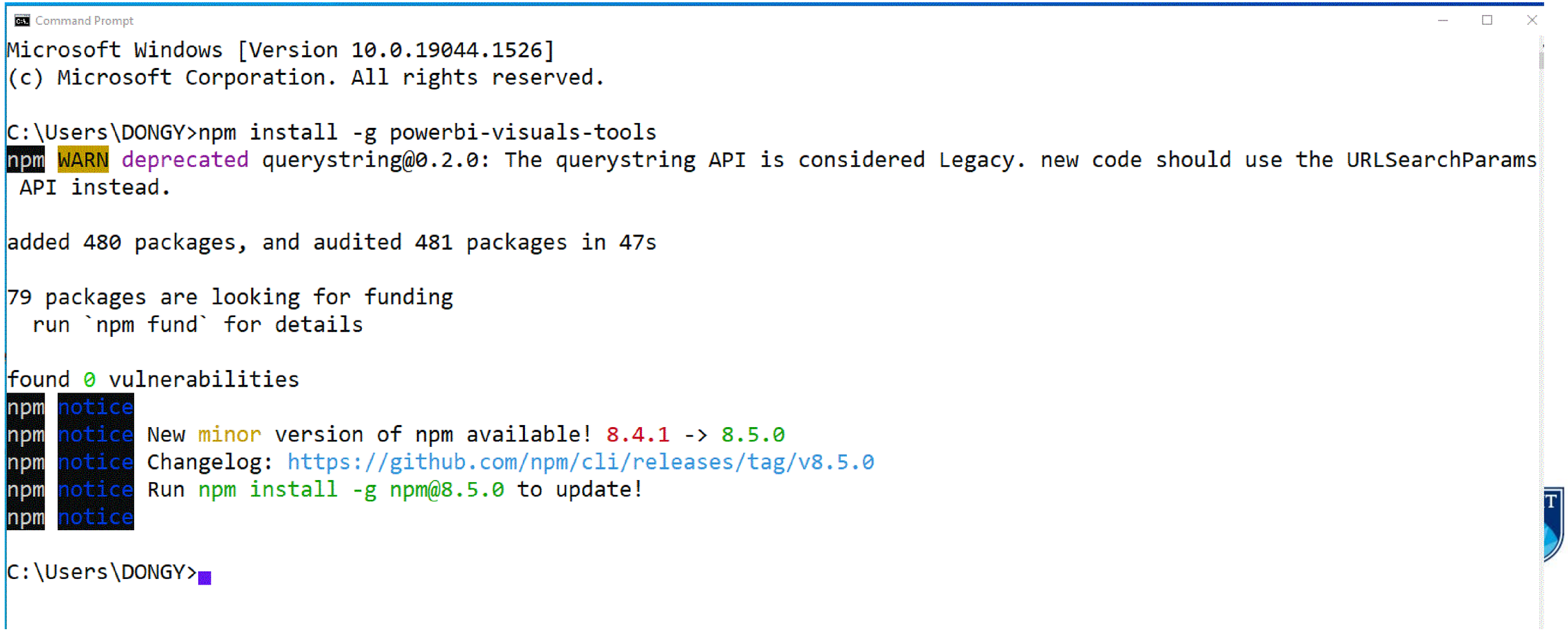
Custom Visuals: Setup

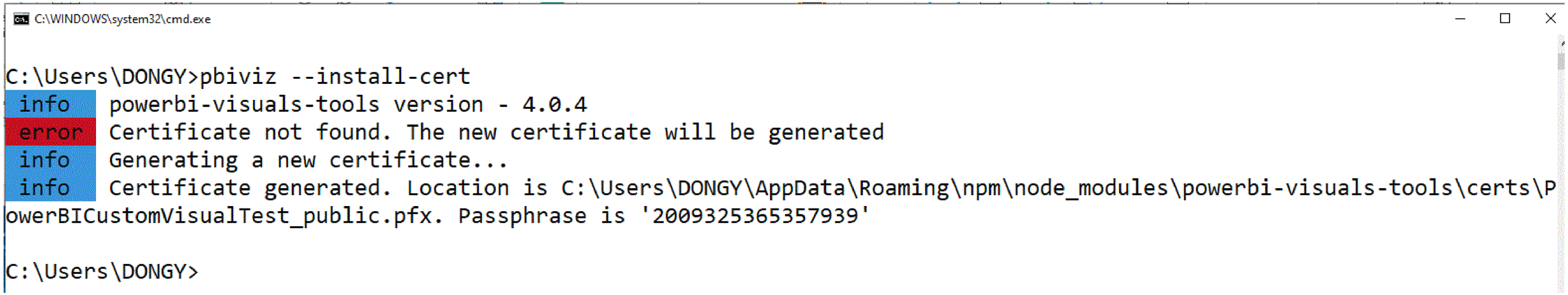
Install Node.js = Enable us to test the visual & Install further packages

https://nodejs.org/en/



Custom Visuals: Setup

Create & Install a Certificate = Test visual via Power BI Service



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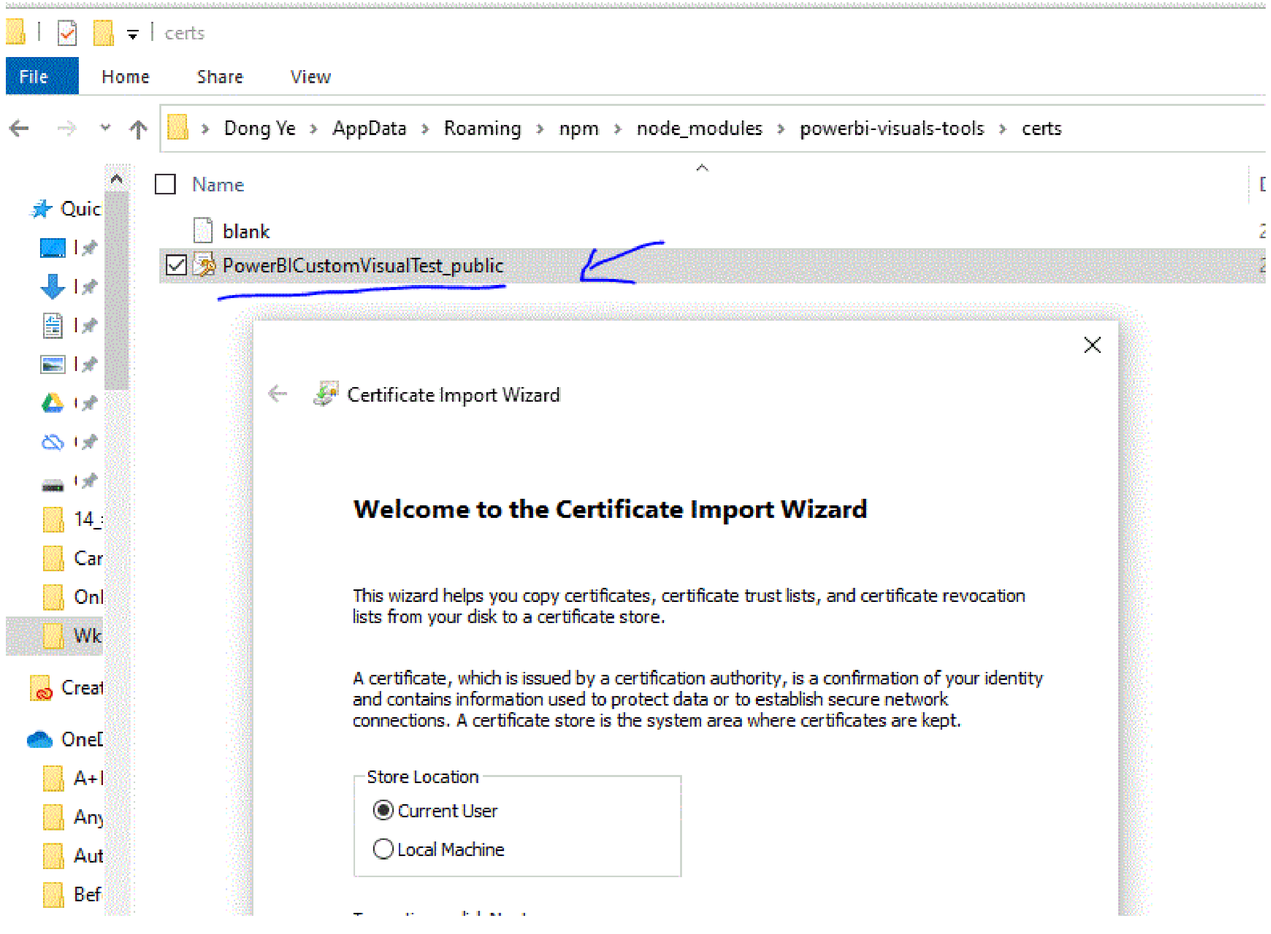

Password is the passphrase.

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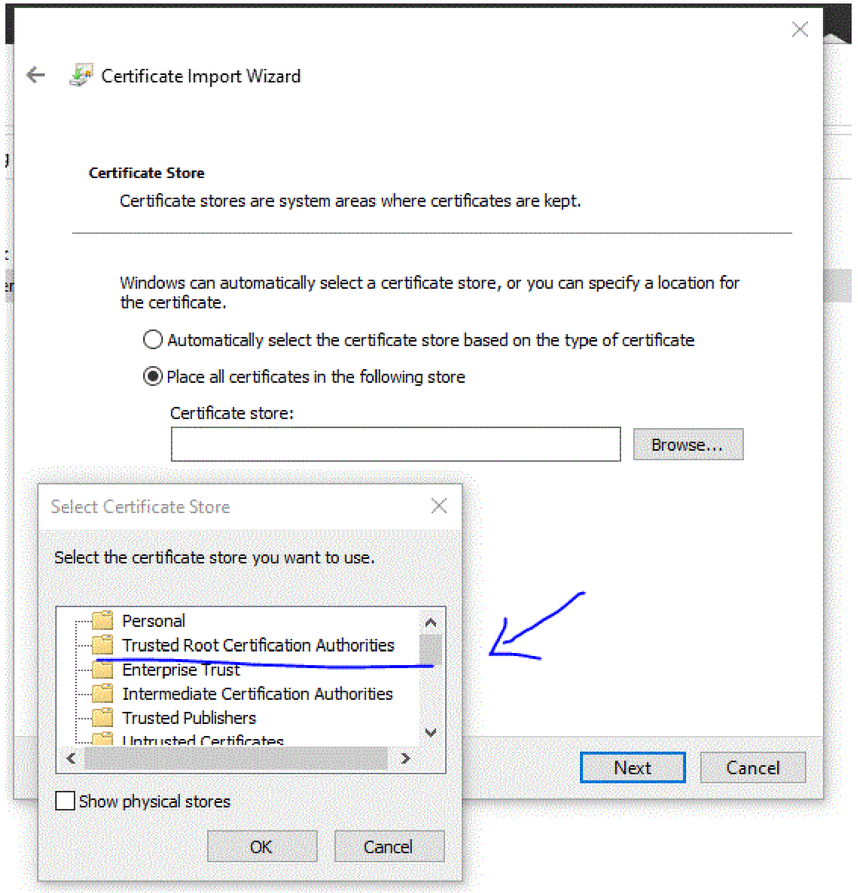
Custom Visuals: Setup

Create & Install a Certificate = Test visual via Power BI Service



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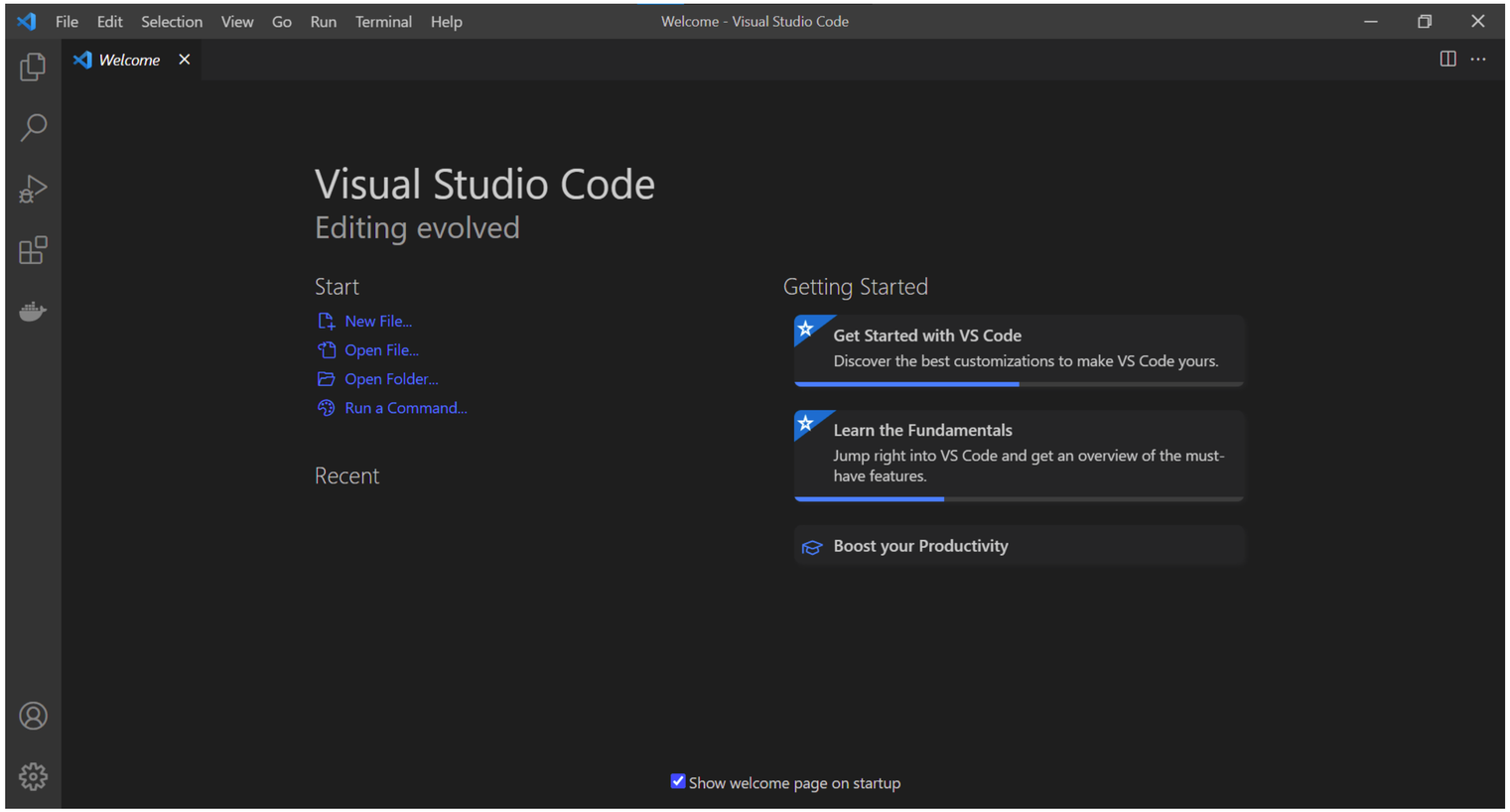
Custom Visuals: Setup

Install an IDE = Write codes for the custom visual



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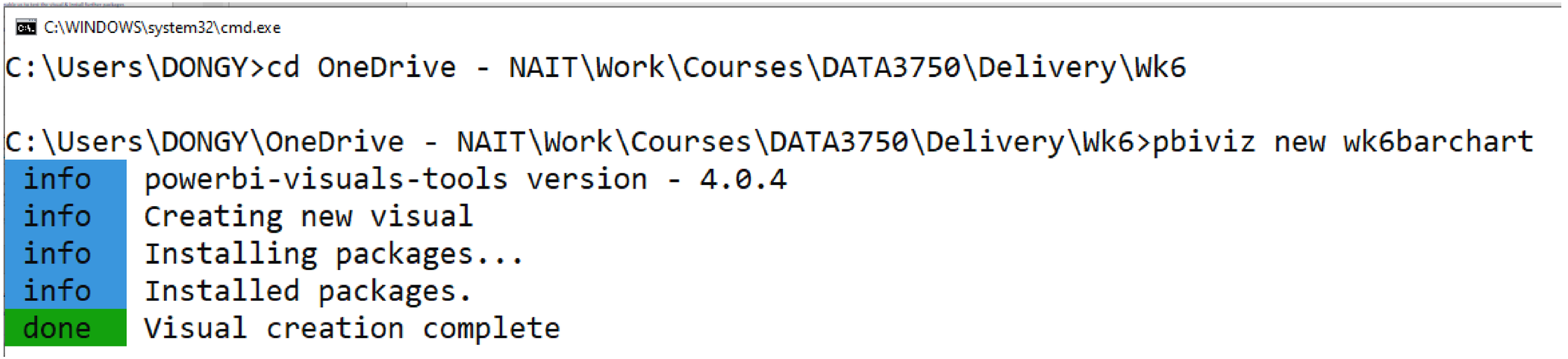
Create a Project



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Create a Project – test the folder

```
npm list powerbi-visuals-api version

C:\Users\DONGY\OneDrive - NAIT\Work\Courses\DATA3750\Delivery\Wk6\wk6barchart>pbiviz start
 info    powerbi-visuals-tools version - 4.0.4
 info    Certificate is valid.

 info    Starting server...
<i> [webpack-dev-server] Generating SSL certificate...
<i> [webpack-dev-server] SSL certificate: C:\Users\DONGY\OneDrive - NAIT\Work\Courses\DATA3750\Delivery\Wk6\wk6barch
node_modules\.cache\webpack-dev-server\server.pem
 info    Start preparing plugin template
<i> [webpack-dev-server] Project is running at:
<i> [webpack-dev-server] Loopback:
<i> [webpack-dev-server] On Your Network (IPv4):
<i> [webpack-dev-server] On Your Network (IPv6):
<i> [webpack-dev-server] Content not from webpack is served from '
                         ' directory
 info    Server listening on port 8080
```

Keep it running when developing the new visual.

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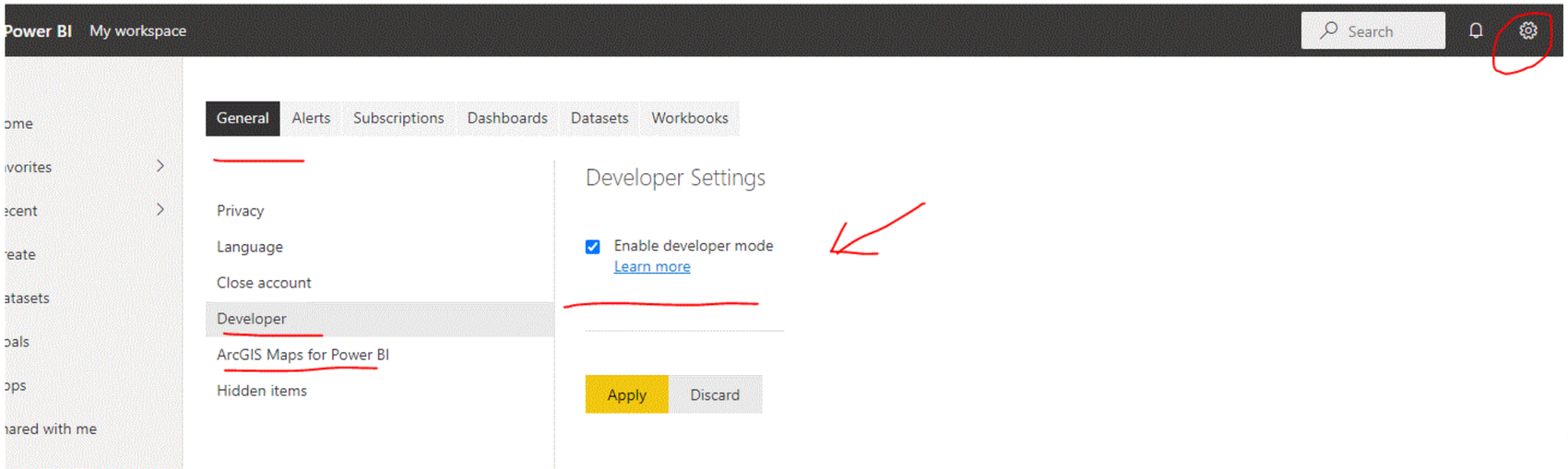
Create a Project – PowerBI Service

https://app.powerbi.com/

Publish a PowerBI workbook using Wk6data CSV file to PowerBI Service



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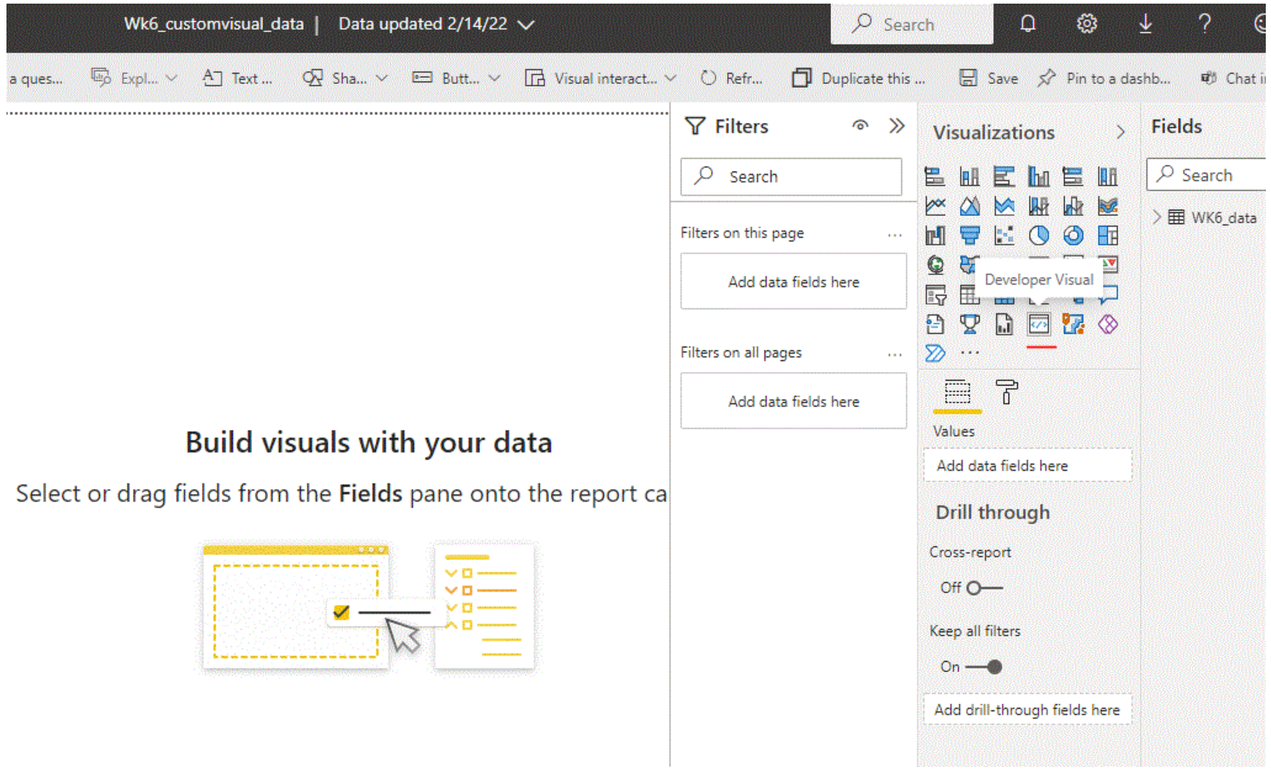

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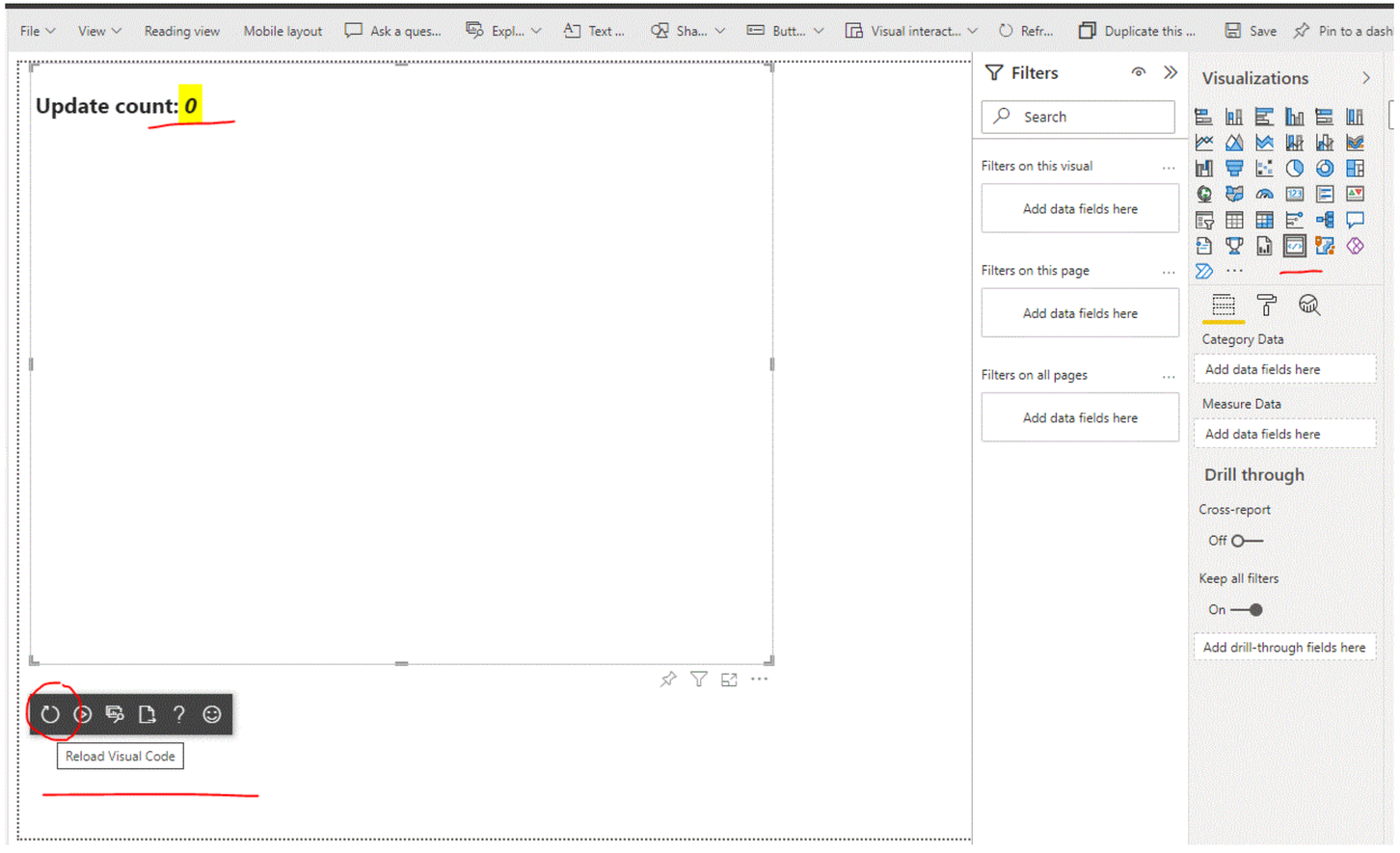
Create a Project –
Test Custom Visual via PowerBI Service

https://app.powerbi.com/



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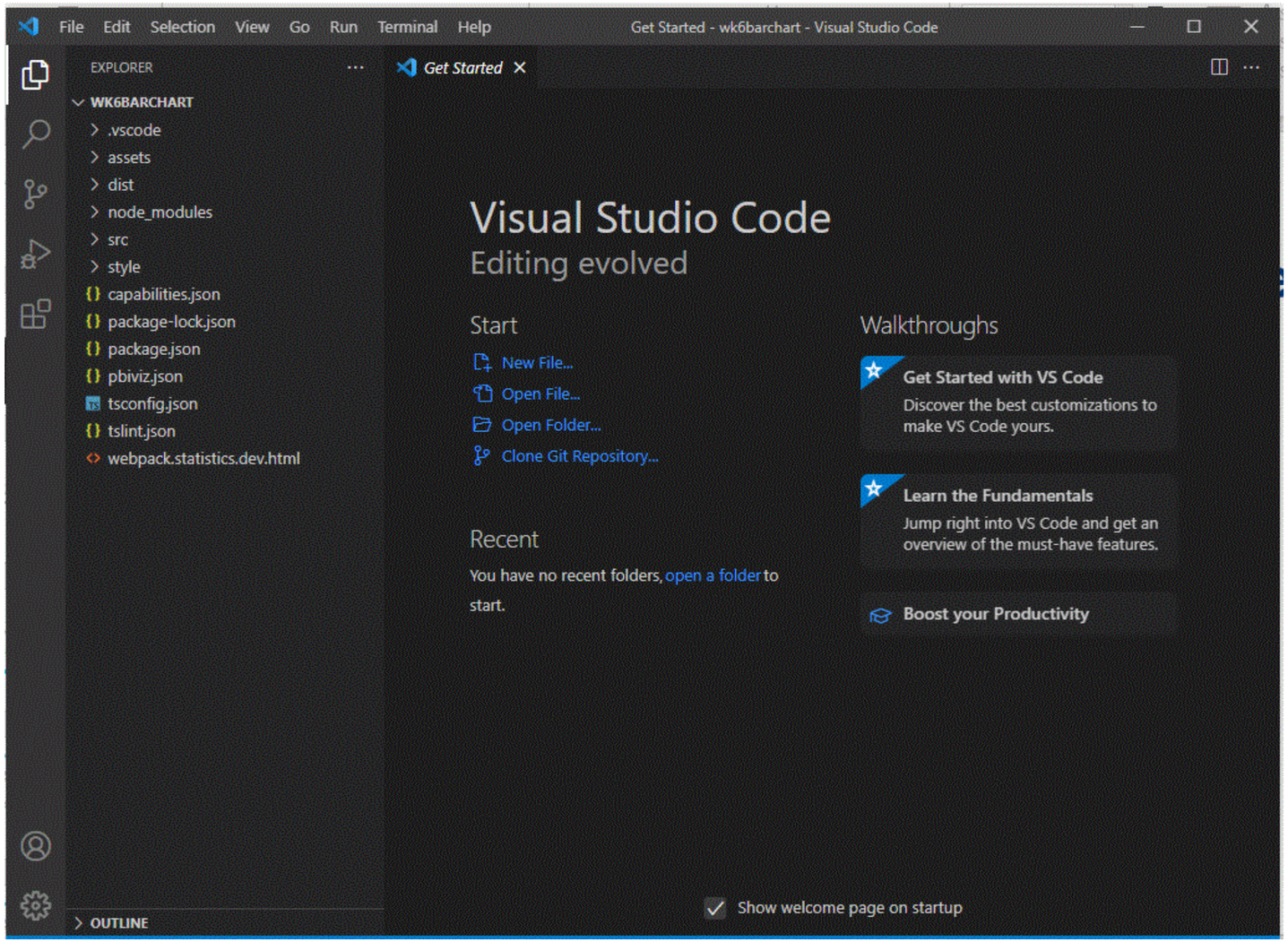
Create a Project – Visual Studio



Change the update count to “My update count”.

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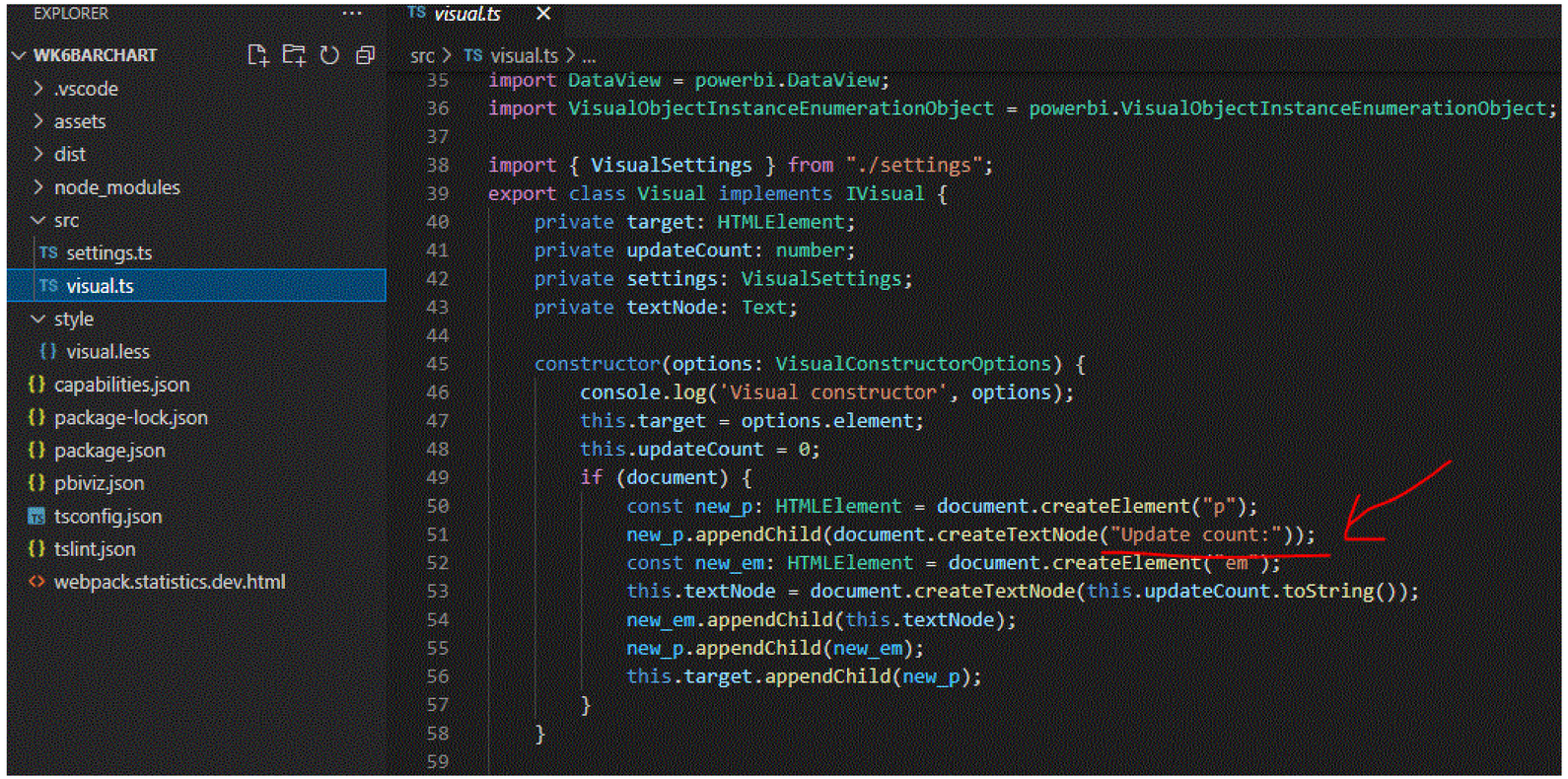
Create a Project – Visual Studio



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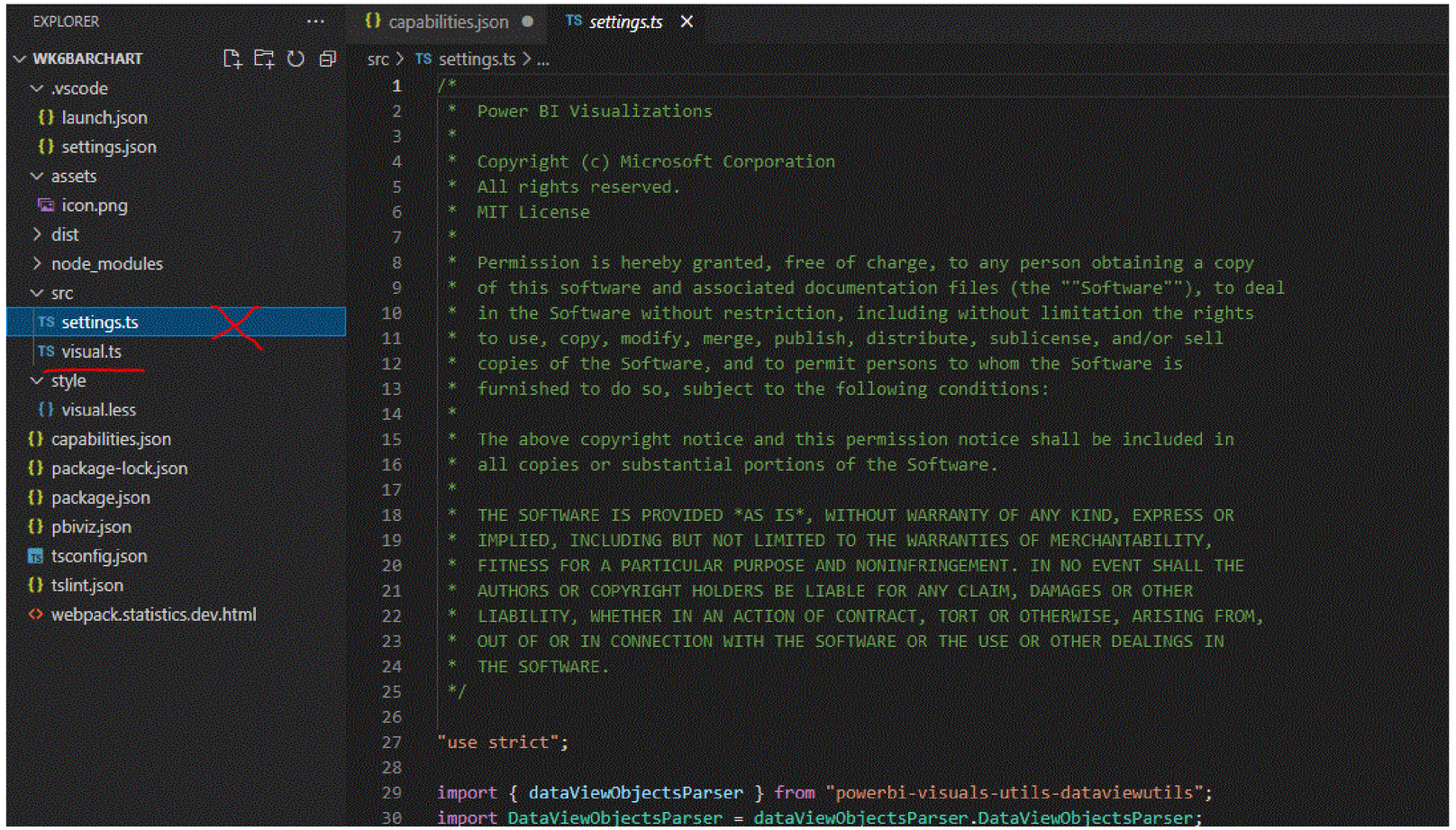
Create a Project – Visual Studio



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