# PolygonWPFDemo

**Summary**

This is a basic demo of subscribing and receiving JSON trades, quotes, etc. It uses C# events and event handlers.

* PolygonWPFDemoWindow
  + **Polygon Api key**

1. You can enter your ApiKey in json\PGDemoConfig.json

e,g, "AppValuesRef": { "ApiKey": "mypolygonioapikey"

2. You can use the UI to enter/paste your ApiKey

Start the app then click on the ApiKey label or key image,

Paste or enter the key, then hit Enter to start the app.

3. From your custom app: call PGonApi.SetApiKey( ApiKey ); to set the ApiKey.

4. You can hard-code your ApiKey

(e.g. ApiKey = "mypolygonioapikey";)

Hard-coding your ApiKey will Auto-Start the app using the hard-coded ApiKey.

* + Simulation mode is available for pre/post market hours
    - Uses Testing\PGonJSONTextTest.txt
    - Api key is not required for simulation mode
  + Display of type of text is selectable
    - Raw JSON sent by Polygon servers
    - Values from deserialzed C# classes
  + Streaming/simulation can be paused or restarted
  + Subscribing to symbols
    - Symbols are subscribed on combo box selection
    - Symbols already shown in the combo box selection/text field can be re-subscribed by hitting Enter
    - Symbols can be typed into the Symbol combo box to add them to advised symbols
    - Symbols can be removed by selecting the Symbol and double clicking on the combo box
    - Queueing of symbols until app is ready, subscribed upon ready
    - Filtering of invalid channel types
  + App config data in PGDemoConfig.json
    - Changes to symbols are saved when the app is closed
    - ConfigHelper
      * Modify lists
        + Default symbols
        + To add new channel types
      * AppValues
        + ApiKey
        + Enable/disable

Verbose text info

Escape key closing the window

* PGApi.cs
  + Wrapper for socket functionality in PgonWebInterface.cs
* PgonWebInterface.cs
  + Socket functionality
  + Connectivity management