Time Zone Plugin

The Time Zone plugin allows users to search a time zone.

Special functions (differ from the regular functions)

- Search for a country, like Kamchatka, Prince Edward Island, France
- Search for a shortcuts, like WEST, UTC, PST
- Search for a offset, like -12:00, -7, 5, 9:30
- Search for a military time zone name (must activate in plugin settings)

How to add a new time zone or change one

All time zones are located in TimeZone.json in root folder of the project. The TimeZone.json use a JSON schema file that make it easier to edit it.

Key	Optional	Value type
Offset	No	String
Name	Yes	String
MilitaryName	Yes	String
Shortcut	Yes	String
${\tt TimeNamesStandard}$	Yes	List with strings
TimeNamesDaylight	Yes	List with strings
${\tt ShortcutsStandard}$	Yes	List with strings
ShortcutsDaylight	Yes	List with strings
${\tt CountriesStandard}$	Yes	List with strings
${\tt CountriesDaylight}$	Yes	List with strings

A minimum entry for the TimeZone.json looks like:

```
{
   "Offset": "11:55",
   "Name": "My crazy time zone",
}

A full entry for the TimeZone.json looks like:
{
   "Offset": "11:55",
   "Name": "My crazy time zone",
   "Shortcut": "MYTZ",
   "MilitaryName": "Order Time Zone",
   "TimeNamesStandard": [
        "My crazy standard time"
   ],
   "ShortcutsStandard": [
```

```
"MCST"
],
"TimeNamesDaylight": [
    "My crazy daylight time"
],
"ShortcutsDaylight": [
    "MCDT"
],
"CountriesStandard": [
    "Crazy Land East"
],
"CountriesDaylight": [
    "Crazy Land West"
]
```

Remarks

• At minimum one of the optional value should be filled.

Scores

• Scores are not used

Important for developers

General

 The assembly name is cached into _assemblyName (to avoid to many calls of Assembly.GetExecutingAssembly())

Microsoft.PowerToys.Run.Plugin.TimeZone project

Important plugin values (meta-data)

Name	Value
ActionKeyword	&
ExecuteFileName	Microsoft.PowerToys.Run.Plugin.TimeZone.dll
ID	BADD1B06EF0A4B61AD95395F24241D69

Interfaces used by this plugin

The plugin use only these interfaces (all inside the Main.cs):

- Wox.Plugin.IPlugin
- Wox.Plugin.IContextMenu

- Wox.Plugin.IPluginI18n
- Wox.Plugin.ISettingProvider
- IDisposable

Program files

File	Content			
Classes\TimeZonePropertieAs at ass that represent one time zone				
Classes\TimeZones.cs	A wrapper class that only contains a list with			
	time zones (see 1)			
Classes\TimeZoneSettings Asclass that contains all settings for the Time				
	Zone plugin			
Extensions\StringBuilden	Extension nosthods for StringBuilder Objects			
Helper\ContextMenuHelper Ack functions to build the context menu (for each				
-	result entry)			
Helper\JsonHelper.cs	All functions to load the time zones from a JSON			
-	file			
Helper\ResultHelper.cs	All functions to convert internal results into WOX			
_	results			
Helper\TranslationHelper At functions to translate the result in the surface				
-	language			
<pre>Images\timeZone.dark.png</pre>	Symbol for the results for the dark theme			
<pre>Images\timeZone.light.pr</pre>	Symbol for the results for the light theme			
Properties\Resources.Des	silginethatesontain all translatable keys			
Properties\Resources.res	Example 2 in the strings in the			
-	neutral language			
GlobalSuppressions.cs	Code suppressions (no real file, linked via *.csproj)			
Main.cs	Main class, the only place that implement the			
	WOX interfaces			
plugin.json	All meta-data for this plugin			
StyleCop.json	Code style (no real file, linked via *.csproj)			
timezones.json	File that contains all time zone information			
timeZones.schema.json	JSON schema for timezones.json			
StyleCop.json	Code style (no real file, linked via *.csproj)			

1. We need this extra wrapper class to make it possible that the JSON file can have and use a JSON schema file. Because the JSON file must have a object as root type, instead of a array.

Important project values (*.csproj)

 $^{{\}bf TargetFramework\,net6.0-windows}$

Name	Value
Platforms	x64
Output	
${\bf RootName space}$	Microsoft.PowerToys.Run.Plugin.TimeZone
AssemblyName	Microsoft.PowerToys.Run.Plugin.TimeZone

Project dependencies

Packages

Package	Version
StyleCop.Analyzers	1.1.118

Projects

- Wox.Infrastructure
- Wox.Plugin