Classes and structures

class Animation: header source

Animation helper class with two easing-in animations: linear and exponential.

class AsyncMessageQueue: header

Header-only asynchronous message queue. Used by TwoWayPipeMessageIPC .

class TwoWayPipeMessageIPC: header

Header-only asynchronous IPC messaging class. Used by the runner to communicate with the settings window.

class DPIAware: header source

Helper class for creating DPI-aware applications.

struct MonitorInfo: header source

Class for obtaining information about physical displays connected to the machine.

class Settings, class PowerToyValues, class CustomActionObject: <u>header source</u>

Classes used to define settings screens for the PowerToys modules.

class Tasklist: header source

Class that can detect the position of the windows buttons on the taskbar. It also detects which window will react to pressing WinKey + number .

struct WindowsColors: header source

Class for detecting the current Windows color scheme.

Helpers

Common helpers: header source

Various helper functions.

Settings helpers: <u>header</u>

Helper methods for the settings.

Start visible helper: header source

Contains function to test if the Start menu is visible.

Toast Notifications

Notifications API <u>header</u> <u>source</u>

To use UWP-style toast notifications, simply include the header and call one of these functions:

We might add more functions in the future if the need arises, e.g. <code>show_toast_xml</code> which will accept raw XML for rich customization.

Description:

- #1 is for sending simple notifications without any callbacks or buttons
- #2 is capable of showing a toast with multiple buttons and background activation
- message is a plain-text argument

Implement a toast activation handler/callback as a function in handler functions.cpp and register its background handler id via handlers map , e.g.:

```
const std::unordered_map<std::wstring_view, handler_function_t> handlers_map = {
    // ...other handlers...
    {L"awesome_toast", awesome_toast_handler}
};}
```

Note: since *background activation* implies that your toast handler will be invoked in a separate process, you can't share data directly from within a handler and your PT process. Also, since PT is currently a Desktop Bridge app, *foreground activation* is <u>handled the same as background</u>, therefore we don't make a dedicated API for it. You can read more on the rationale of the current design <u>here</u>.