

# SYSTEM TOOLS WITH CINCOM® OBJECTSTUDIO®

By Andreas Hiltner

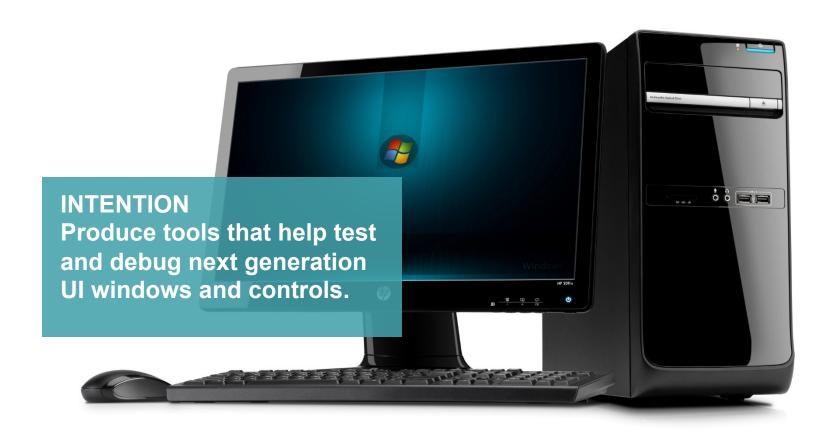




#### **Overview**

- Intention
- Power Capabilities / State
  - BatteryMeter
- GUID Generator
- Windows
  - Window Spy
  - Window Finder
- Processes
  - Process Exlorer
  - GDI Log
- Questions





### **Power Capabilities**

Class PowerCapabilities Contains information about the power capabilities of the system. e.g.

- is there a system power button
- is there a lid present
- is a battery present
- Is a thermal control present
- (...)

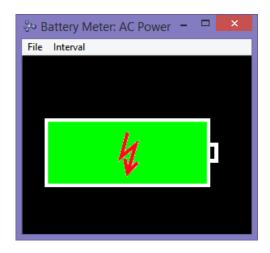
#### **Power State**

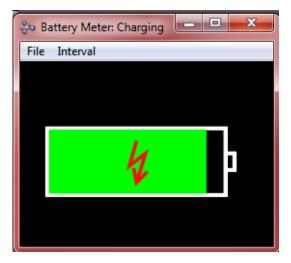
Class PowerState provides a system-wide set of power management features. The class retrives the power status, notify the application of power management events and notify the system of the application's power requirements.

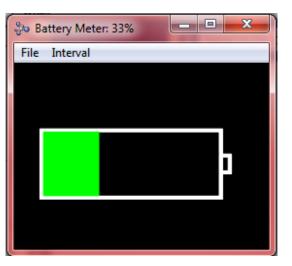
#### Power State (con't)

- Away Mode required
- Display required
- System required
- Suspend / Hibernate
- Announcements for
  - Suspend operations
  - Resume from Suspend
- Battery state (charging/high/low/critical)

## **Battery Meter**

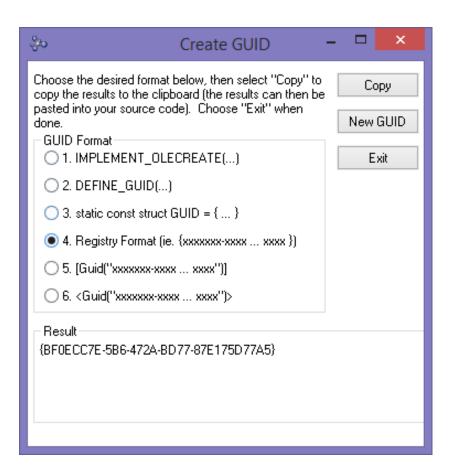






#### **GUID Generator**

Generate GUIDS with different styles.



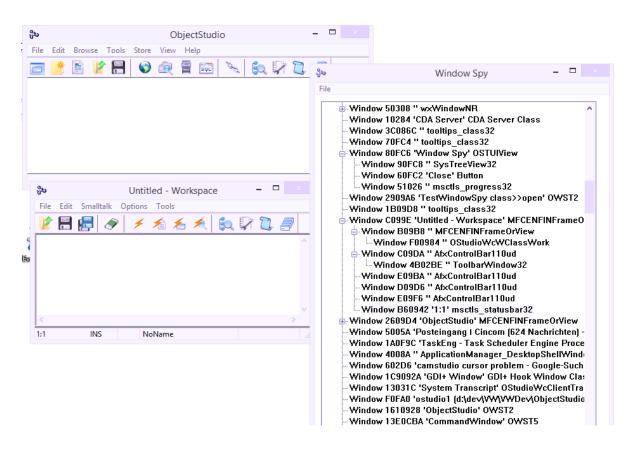
### **Window Spy**

Window Spy shows <u>all</u> registered windows, that exist at the present time in a hierarchical view.

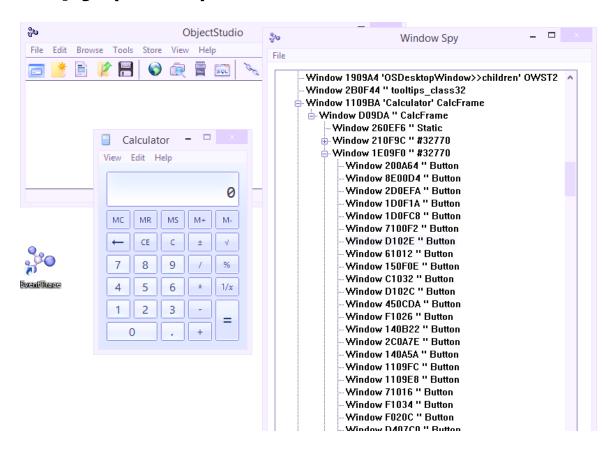
Not just of its own Smalltalk process, but <u>all</u> existing processes, starting with the Windows Desktop.

Window Spy also retrieves information about the process, the window belongs to.

#### Window Spy (con't)



#### Window Spy (con't)

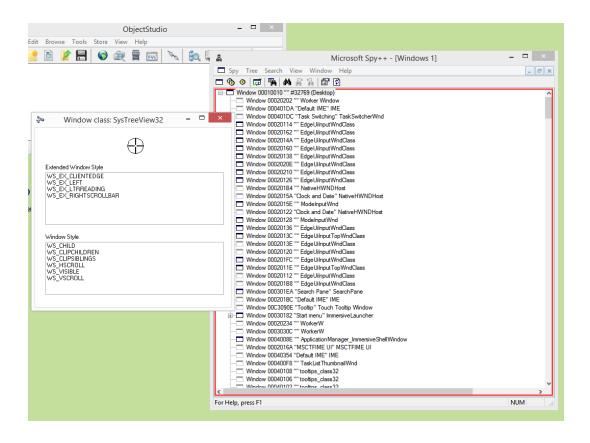


#### Window Finder

Window Finder locates and retrieves styles and extended styles of any open window in the system.

It works in conjunction with Window Spy.

#### Window Finder (con't)

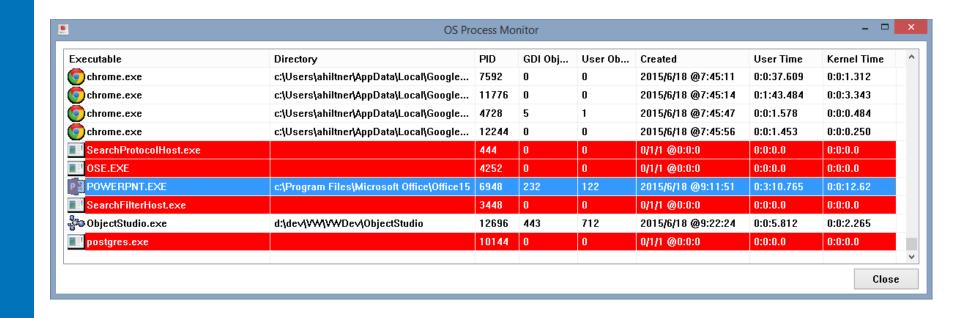


#### **Process Explorer**

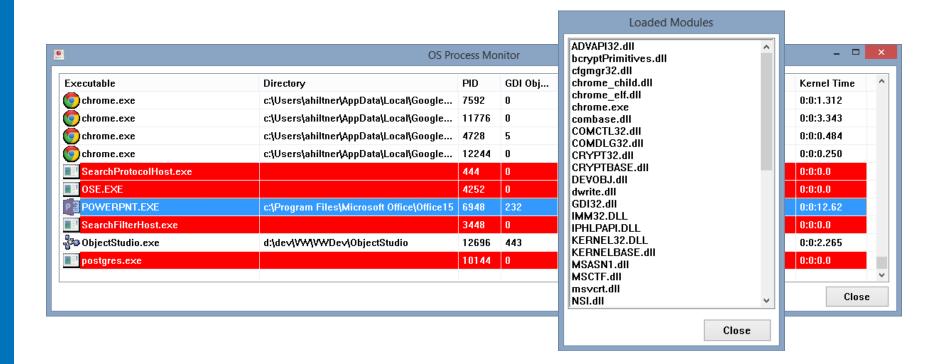
ProcessExplorer displays all existing processes and information about

- Process ID (PID)
- Number of GDI objects
- Number of User Objects
- Creation time
- Time spend in User Mode
- Time spend in Kernel Mode
- Search for the Executable Name

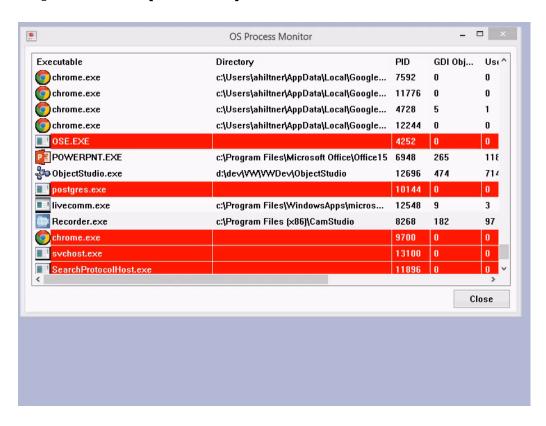
#### **Process Explorer (con't)**



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#### **Process Explorer (con't)**

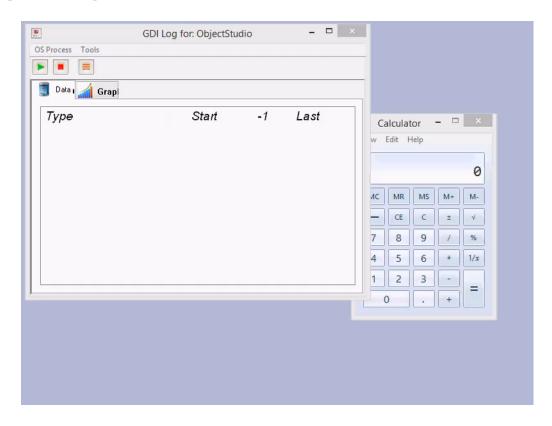


#### **GDI** Log

GDI Log shows the usage of the various GDI resources over time.

It can help to identify resource leaks and indicate, which resources are used during operations.

## GDI Log (con't)



# **Questions?**

# **Contact Information**

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