
Subject: Re: Please check the list of 2019.1 changes
Posted by [Tom1](#) on Tue, 12 Feb 2019 11:44:32 GMT
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Hi,

I composed some code to pick up the Windows 10 light/dark theme and accent/colorization colors:

```
bool IsSystemThemeDark(){
#ifdef WIN32
    HKEY SWKey;
    HKEY MSKey;
    HKEY WINKey;
    HKEY CVKey;
    HKEY ThemesKey;
    HKEY PersonalizeKey;

    LONG Status;
    bool darkTheme=false;

    Status =
    RegOpenKeyEx(HKEY_CURRENT_USER,TEXT("Software"),0,KEY_READ,&SWKey);
    if(Status == ERROR_SUCCESS){
    Status = RegOpenKeyEx(SWKey,TEXT("Microsoft"),0,KEY_READ,&MSKey);
    if(Status == ERROR_SUCCESS){
    Status = RegOpenKeyEx(MSKey,TEXT("Windows"),0,KEY_READ,&WINKey);
    if(Status == ERROR_SUCCESS){
    Status = RegOpenKeyEx(WINKey,TEXT("CurrentVersion"),0,KEY_READ,&CVKey);
    if(Status == ERROR_SUCCESS){
    Status = RegOpenKeyEx(CVKey,TEXT("Themes"),0,KEY_READ,&ThemesKey);
    if(Status == ERROR_SUCCESS){
    Status = RegOpenKeyEx(ThemesKey,TEXT("Personalize"),0,KEY_READ,&PersonalizeKey);
    if(Status == ERROR_SUCCESS){
        DWORD RegType;
        DWORD BufferSize=16;
        char pStr[16];

    Status=RegQueryValueEx(PersonalizeKey,TEXT("AppsUseLightTheme"),NULL,&RegType,(LPB
YTE)pStr,&BufferSize);
        if(Status == ERROR_SUCCESS) if(*(DWORD*)pStr==0) darkTheme=true;
        RegCloseKey(PersonalizeKey);
    }
    RegCloseKey(ThemesKey);
    }
    RegCloseKey(CVKey);
    }
    RegCloseKey(WINKey);
```

```

}
RegCloseKey(MSKey);
}
RegCloseKey(SWKey);
}
if(Status == ERROR_SUCCESS) return darkTheme;
#endif

// Generic solution for GTK and older Windows
Color paper=SColorPaper();

if(paper.GetR()<128 && paper.GetG()<128 && paper.GetB()<128) return true; // Dark
background
return false;
}

RGBA GetSystemColorizationColor(){
RGBA color=Gray(); // Default

#ifdef WIN32
HKEY SWKey;
HKEY MSKey;
HKEY WINKey;
HKEY DWMKey;

LONG Status;

// "Computer\HKEY_CURRENT_USER\Software\Microsoft\Windows\DWM"

Status =
RegOpenKeyEx(HKEY_CURRENT_USER,TEXT("Software"),0,KEY_READ,&SWKey);
if(Status == ERROR_SUCCESS){
Status = RegOpenKeyEx(SWKey,TEXT("Microsoft"),0,KEY_READ,&MSKey);
if(Status == ERROR_SUCCESS){
Status = RegOpenKeyEx(MSKey,TEXT("Windows"),0,KEY_READ,&WINKey);
if(Status == ERROR_SUCCESS){
Status = RegOpenKeyEx(WINKey,TEXT("DWM"),0,KEY_READ,&DWMKey);
if(Status == ERROR_SUCCESS){
DWORD RegType;
DWORD BufferSize=16;
char pStr[16];

Status=RegQueryValueEx(DWMKey,TEXT("ColorizationColor"),NULL,&RegType,(LPBYTE)pStr,
&BufferSize);

if(Status == ERROR_SUCCESS) color=(*(RGBA*)pStr);

```

```

    RegCloseKey(DWMKey);
}
RegCloseKey(WINKey);
}
RegCloseKey(MSKey);
}
RegCloseKey(SWKey);
}
if(Status == ERROR_SUCCESS) return color; // Success

#endif
// TODO solve other sources

return color; // Default
}

RGBA GetSystemAccentColor(){
    RGBA color=Gray(); // Default

#ifdef WIN32
    HKEY SWKey;
    HKEY MSKey;
    HKEY WINKey;
    HKEY DWMKey;

    LONG Status;

    // "Computer\HKEY_CURRENT_USER\Software\Microsoft\Windows\DWM"

    Status =
    RegOpenKeyEx(HKEY_CURRENT_USER,TEXT("Software"),0,KEY_READ,&SWKey);
    if(Status == ERROR_SUCCESS){
        Status = RegOpenKeyEx(SWKey,TEXT("Microsoft"),0,KEY_READ,&MSKey);
        if(Status == ERROR_SUCCESS){
            Status = RegOpenKeyEx(MSKey,TEXT("Windows"),0,KEY_READ,&WINKey);
            if(Status == ERROR_SUCCESS){
                Status = RegOpenKeyEx(WINKey,TEXT("DWM"),0,KEY_READ,&DWMKey);
                if(Status == ERROR_SUCCESS){
                    DWORD RegType;
                    DWORD BufferSize=16;
                    char pStr[16];

                    Status=RegQueryValueEx(DWMKey,TEXT("AccentColor"),NULL,&RegType,(LPBYTE)pStr,&Buffer
                    erSize);

                    if(Status == ERROR_SUCCESS) color=*(RGBA*)pStr;

```

```
    RegCloseKey(DWMKey);
}
    RegCloseKey(WINKey);
}
    RegCloseKey(MSKey);
}
    RegCloseKey(SWKey);
}
    if(Status == ERROR_SUCCESS) return color; // Success

#endif
// TODO solve other sources

return color; // Default
}
```

At least this works on relatively current Windows 10, but I do not know how to make U++ tune its colors along these colors, so I'll just drop this here.

Best regards,

Tom
