Hello,

It's been a while since I posted any news about the Terminal package. I had to focus on my other works fo a while.

The good news is last week I implemented the final missing pieces for the 0.1 release:

- 256 colors support added.
- ANSI colors support added.
- XTerm dynamic colors support added.

- VT 4xx rectangular area operations are added (copy, invert, move, fill, in both selective and normal modes)

- UDK (DEC's user-defined function keys support) added.

- Lazy resize option is added (to reduce flickers on network terminals uch as SSH-based ones)

- Size hint added.

- A .usc file is added to the Terminal package. (The most common options (font, ink, paper, cursor, sizehint etc.) can be set using TheIDE's layout editor. Also it shows a size hint (in calculated cell size) to simplify positiong the widget in the layout ediyor.

- It is also tested on Windows, and it works well. :) (currently as SSH terminal, in the near future as a frontend for Windows power shell too)

Two notes on the upcoming initial release:

1) Terminal package currently does not contain any external code/libaray. It uses U++, and it's plugins. :)

2) Although a virtual terminal requires a pty device, and Terminal pacjage contains one, they are completely decoupled.

Terminal ctrl can be used and compiled without PtyProcess. This gives it a huge flexibility In this regard I will provide 4 basic examples with the package:

- TerminalExample | Uses ptyprocess (currently ptyprocess requires POSIX-compliant operationg systems (or possibly cygwin on Windows.)

- TerminalExampleWithLayout | The same as above.

- SShTerminalExample | Does not use PtyProcess. IT uses Core/SSH package isntead

- SshTerminalExampleWithLayout | The same as above.

Here is the actual code of TerminalExample (36 LOCs total):

#include <Core/Core.h>
#include <Terminal/Terminal.h>

```
using namespace Upp;
const char *nixshell = "/bin/bash";
struct TerminalExample : TopWindow {
Terminal term;
PtyProcess pty;
TerminalExample()
{
 term.WhenBell = [=]() { BeepExclamation(); };
 term.WhenTitle = [=](String s) { Title(s); };
 term.WhenResize = [=]() { pty.SetSize(term.GetPageSize()); };
 term.WhenOutput = [=](String s) { PutGet(s); };
 SetRect(term.GetStdSize()); // 80 x 24 cells (scaled).
 Sizeable().Zoomable().CenterScreen().Add(term.SizePos());
 SetTimeCallback(-1, [=]() { PutGet(); });
 pty.Start(nixshell, Environment(), GetHomeDirectory());
}
void PutGet(String out = Null)
{
 term.Write(pty.Get());
 pty.Write(out);
 if(!pty.lsRunning())
 Break();
}
};
GUI APP MAIN
{
TerminalExample().Run();
}
```

Below was a sort of "final boss" for the first release. It shows the mapscii, an OpenStreetMap implementation for terminal devices, running on the above code and on Gnome-terminal. On the left is TerminalExample, running mapscii. On the right is gnome terminal running mapscii Both are running on 256 colors mode + mouse tracking support. :)

As a final note: Terminal package will be availabe within this weeek.

Best regards, Oblivion

File Attachments 1) Terminal.png, downloaded 1262 times

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