Subject: Re: A terminal emulator widget for U++
Posted by Oblivion on Sun, 22 Sep 2019 10:01:47 GMT
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Hello,

Terminal package is finally updated to v0.2.

Image rendering and handling mechanism is vastly improved. :)

- Terminal: SixelRenderer class is rewritten;
- Terminal: SixelRaster class, a StreamRaster interface for sixel images, is added to the package.
- Terminal: A subset of xterm's window-op reports are implemented.
- Terminal: An I/O synchronization issue with the PtyProcess class that led to artifacts on screen on some setups is fixed.
- Terminal: Inline image support is improved.
- Terminal: Room is made for other inline image protocols.
- Terminal: WhenSixel event is removed in favor of a generic WhenImage event.
- Terminal: Image rendering strategy is changed to cell-level rendering for further flexibility.
- Terminal: An LRU-type shared image data cache is implemented.
- Terminal: Support for Jexer, a modern text user interface (TUI) and windowing system for terminal emulators, is added.
- Terminal: A general purpose data variable is added to the cell structure.
- Terminal: SGR image flag is added to the cell structure.
- Examples: Examples are further simplified.
- Various optimizations and fixes.
- Image gallery is updated.

The "final boss" for this release was the jexer support. Jexer is a modern text user interface and window manager that runs inside terminal emulators. (It is an advanced terminal multiplexer.)

There were only four high-end terminal emulators (xterm, mlterm, rlogin and jexer itself) fully supporting the jexer, Now they are five :)

I've made short videos of Terminal ctrl.
The ssh terminal example on windows also demonstrates the power of Core/SSH package. (It connects to a Linux device over 300 km distance, and runs jexer with inline images support, which is very demanding). 8)

On Linux
- A basic terminal example with sixel graphics, and mouse tracking support.
- Used apps and tools: Jexer text user interface (TUI), GNUPlot, Emacs, Nano, htop, ncurses demos.
- Link: https://vimeo.com/359241367

On Windows
- A basic SSH2 terminal example with sixel graphics, and mouse tracking support.
- Used apps and tools: Jexer text user interface.
- Link: https://vimeo.com/361556973

On Turtle HTML-5 backend (in a web browser)
- A basic terminal example with sixel graphics, and mouse tracking support.
- Used apps and tools: Jexer text user interface.
- Link: https://vimeo.com/361558519

Screenshot (Windows, ssh terminal example):

Terminal@:   https://github.com/ismail-yilmaz/upp-components/tree/master/ CtrlLib/Terminal

Best regards,
Oblivion

File Attachments

1) terminal_jexer_windows_screenshot.jpg, downloaded 1325 times