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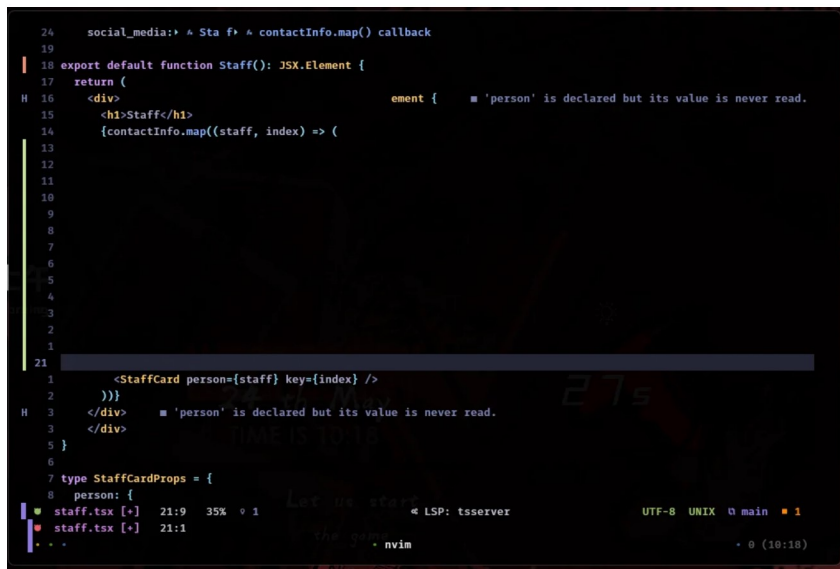
r/tmux • 1 mo. ago   Join   •••
by 16bitMustache

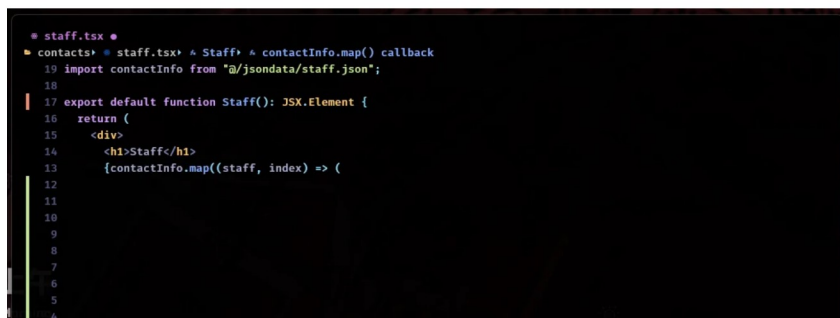# Rendering errors when using Neovim inside of Tmux [WSL2]

Hey, I have started using Tmux a couple of days ago and safe to say that I have fallen in love already. But I am also struggling with a problem.

When I use Neovim inside of Tmux, when scrolling up and down in insert mode especially, it starts to duplicate lines in places where it definitely shouldn't. This will spill onto my tabline and even multiplies my lualine. The following picture is an example of the problem.

Misrendered Neovim after inserting 13 newlines.

Here is in contrast, how it is supposed to look like and how it does, when it is not inside of Tmux.

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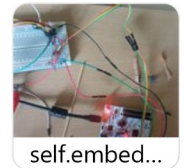
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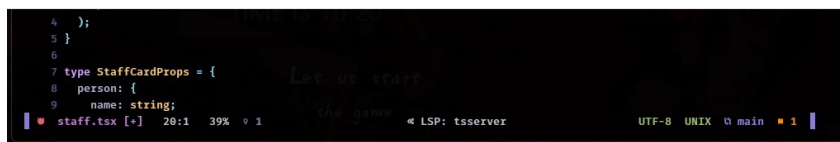
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Correctly rendered Neovim after inserting 12 inlines.

I have added the following lines to my .tmux.conf, to fix the colors matching inside and outside tmux. While they have worked towards making my Neovim colors normal, they have not fixed the rendering issues.

```
# .tmux.conf
set -s default-terminal "xterm-256color"
set-option -sa terminal-overrides ",xterm*:Tc"
```

When checking the $TERM variables, I get the following:

```
# Outside of tmux
xterm-256color
# Inside of tmux
xterm-256color
```

And inside of my Neovim configuration I have added the following lines for truecolors and utf-8

```
# lua/sakuexe/core/options.lua
vim.opt.termguicolors = true
vim.opt.encoding = "utf-8"
```

I am using the Windows Terminal and WSL2, Ubuntu 22.10. And my .dotfiles can be found in full from this link.

Thank you in advance for your time.

EDIT (24.5.2023): As of the time of writing this, the new Nerfont V3 icons do not match well with Windows, so you have to go through your Neovim configs and find the icons that give you problems and replace them. For me it was the lualine icons for diagnostics and git status.

Thank you to everyone for helping me come to the conclusion so that I could fix this problem for now. Sometimes I do wonder though if I should just dual boot to an actual Linux machine instead

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markuspeloquin • 1 mo. ago

Your TERM inside of tmux should be tmux-256color. Just the
default terminal, not the overrides.

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     16bitMustache   •   1 mo. ago

     Thanks for the reply! How do I make my TERM into
     tmux-256color? I changed the line in the .tmux.conf as
     follows.

```
set -s default-terminal "tmux-256color"
set-option -sa terminal-overrides ",xterm*:Tc"
```

     But when I restart tmux (tmux kill-server && tmux), I still
     get the same value from TERM.

```
❯ echo $TERM
xterm-256color
```

     Does my .zshenv affect this? I have the following line
     inside of there:

```
TERM=xterm-256color
```

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     16bitMustache   •   1 mo. ago

     Update: I changed the terminal inside of tmux to say
     "tmux-256"

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pysan3 • 1 mo. ago

I'm also having quite a hit or miss situation but it should be caused by nvim and tmux guessing the width of some character (especially an icon) in your status line wrong. Nvim thinks it's one width character while tmux thinks it's two width.

The solution I have right now is to disable some icons in the statusline and figure out which section is the cause, and choose a different icon for that part.

Sorry that this is not a clear solution (and I believe there should be a silver bullet somewhere) but I hope this can lead you towards the solution.

Would the situation change if you configure `ambiwidth`?

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FreeAd7233 • 1 mo. ago

It's the implementation problem of the CONPTY (Windows's terminal infrastructure).

See a recent github issue in alacritty (which is issued by me). The problem mostly comes from nerd font v3 symbols whch windows doesn't handle well.

There's nothing you can do until MS makes the conpty more robust. Or you can try windows terminal preview, where they ships with the nightly build of conpty

So again, MS is **NOT** unix. Even MS has tried hard to fake them to be unix friendly, like giving you a chocolate tasted shit (WSL). You give WSL a try, it is awesome at the first try, but after tons days of heavy use, you find that it is essentially a shit, because it runs on the windows system.

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2 more replies

16bitMustache • 1 mo. ago

That is intriguing, thank you for the insight!

```
:set ambiwidth=double
```

But it didn't seem to work and just crashes my neovim anytime I use it.

I will definitely have to look into which characters/icons make this happen, thank you for the help!

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FreeAd7233 • 1 mo. ago

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16bitMustache • 1 mo. ago

Thank you for the explanation, that would make sense.

It is very weird though, how it starts working fine after a second window of tmux gets added next to it. I even have it working okay on an older version of ubuntu and even debian. Very weird.

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Coolin96 • 21 days ago

~~After hours of troubleshooting I stumbled upon this post, and it's the exact issue I'm having! I'm using Astronvim so I don't know if I can easily turn off individual icons. Might be out of luck on WSL + TMUX + Neovim :(~~

EDIT: FreeAd7233's suggestion of using Windows Terminal Preview completely fixed my issue!

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AstroVim's configs and you are able to change your icons too! Do for the future, heres the link to the file I meant in the config. lua/plugins/ui.lua

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2 more replies