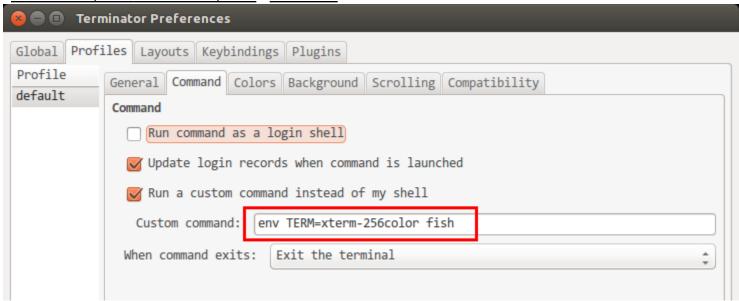
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Notes and marginalia from a programmer's journal

How to set TERM to xterm-256color

MARCH 18, 2015MARCH 18, 2015 / ASHWIN



(https://choorucode.files.wordpress.com/2015/03/20150318_terminator_xterm256color.png)

Problem

GNOME Terminal, Terminator and other terminal programs in X that are based on **VTE** set the TERM environment variable to Xterm. Since they support 256 colors, TERM should actually be set to Xterm-256color.

Why is this important? Vim and other terminal programs decide how many colors to support based on TERM . So, if Vim sees xterm it reverts to using 8 colors, instead of 256 colors. That is it sets its t_Co variable to 8 instead of 256 .

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Wrong solution 1

One common solution to this problem is to add $set t_Co=256$ to .vimrc.

This is a crude solution because you are overriding the capability of Vim to set colors based on the terminal type. For example, if you run Vim under the **virtual terminal (VT)** which supports only 8 colors, your .vimrc is now setting t_Co erroneously to 256!

Wrong solution 2

Another common solution is to set TERM=xterm-256color in .bashrc or similar shell initialization script. This is a wrong solution because you are setting a terminal capability in a shell!

Also, think what happens if you now run screen or tmux inside the shell. It will set its own terminal type in TERM and overrides your setting.

Correct solution

We first need to identify that this problem lies in VTE and the GNOME-based terminals that use it. This is a well known problem and distributions are mulling (https://fedoraproject.org/wiki/Features/256 (https://bugzilla.gnome.org/show/bug.cgi?id=640940) it. In the meanwhile, we can at least make sure that TERM is set to xterm-256color before a shell is invoked.

For example, in Terminator I do this by right-click -> Preferences -> Profiles -> Command -> Custom command and adding a env TERM=xterm-256color fish to set it before calling the Fish shell. You can add similar custom commands for Bash or in GNOME Terminal.

Reference: TERM Strings (http://blog.sanctum.geek.nz/term-strings/)

Tried with: Terminator 0.97 and Ubuntu 14.04

Tags: color, gnome terminal, term, terminator, vte, xterm

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