Bashrc   9/12/2022

NOTICE SOURCE TO ACTIVATE NOETIC OR FOXY

echo Alias foxy or noetic

alias foxy='source /opt/ros/foxy/setup.bash' # Load Foxy,7_30_2021 or noetic

alias noetic='source /opt/ros/noetic/setup.bash'

Terminal

Alias foxy or noetic

harman@harman-VirtualBox:~$ **noetic**

ROS_DISTRO was set to 'foxy' before. Please make sure that the environment does not mix paths from different distributions.

harman@harman-VirtualBox:~$ **cat .bashrc**

~/.bashrc: executed by bash(1) for non-login shells.

see /usr/share/doc/bash/examples/startup-files (in the package bash-doc)

for examples

If not running interactively, don't do anything

case $- in

   i) ;;

    *) return;;

esac

don't put duplicate lines or lines starting with space in the history.

See bash(1) for more options

HISTCONTROL=ignoreboth

append to the history file, don't overwrite it

shopt -s histappend

for setting history length see HISTSIZE and HISTFILESIZE in bash(1)

HISTSIZE=1000

HISTFILESIZE=2000

check the window size after each command and, if necessary,

```bash
# update the values of LINES and COLUMNS.

shopt -s checkwinsize

# If set, the pattern "**" used in a pathname expansion context will

# match all files and zero or more directories and subdirectories.

#shopt -s globstar


# make less more friendly for non-text input files, see lesspipe(1)

[ -x /usr/bin/lesspipe ] && eval "$(SHELL=/bin/sh lesspipe)"

# set variable identifying the chroot you work in (used in the prompt below)

if [ -z "${debian_chroot:-}" ] && [ -r /etc/debian_chroot ]; then

    debian_chroot=$(cat /etc/debian_chroot)

fi

# set a fancy prompt (non-color, unless we know we "want" color)

case "$TERM" in

    xterm-color|*-256color) color_prompt=yes;;

esac

# uncomment for a colored prompt, if the terminal has the capability; turned

# off by default to not distract the user: the focus in a terminal window

# should be on the output of commands, not on the prompt

#force_color_prompt=yes

if [ -n "$force_color_prompt" ]; then

    if [ -x /usr/bin/tput ] && tput setaf 1 >&/dev/null; then

                # We have color support; assume it's compliant with Ecma-48

                # (ISO/IEC-6429). (Lack of such support is extremely rare, and such

                # a case would tend to support setf rather than setaf.)

                color_prompt=yes

    else

                color_prompt=

    fi
```

```
    fi

if [ "$color_prompt" = yes ]; then

    PS1='${debian_chroot:+($debian_chroot)}\[\033[01;32m\]\u@\h\[\033[00m\]:\[\033[01;34m\]\w\[\03
3[00m\]\$ '
else

    PS1='${debian_chroot:+($debian_chroot)}\u@\h:\w\$ '

fi

unset color_prompt force_color_prompt

# If this is an xterm set the title to user@host:dir

case "$TERM" in

xterm*|rxvt*)

    PS1="\[\e]0;${debian_chroot:+($debian_chroot)}\u@\h: \w\a\]$PS1"

    ;;

*)

    ;;

esac

# enable color support of ls and also add handy aliases

if [ -x /usr/bin/dircolors ]; then

    test -r ~/.dircolors && eval "$(dircolors -b ~/.dircolors)" || eval "$(dircolors -b)"

    alias ls='ls --color=auto'

    #alias dir='dir --color=auto'

    #alias vdir='vdir --color=auto'

    alias grep='grep --color=auto'

    alias fgrep='fgrep --color=auto'

    alias egrep='egrep --color=auto'

fi
```

```
# colored GCC warnings and errors

#export GCC_COLORS='error=01;31:warning=01;35:note=01;36:caret=01;32:locus=01:quote=01'

# some more ls aliases

alias ll='ls -alF'

alias la='ls -A'

alias l='ls -CF'


# Add an "alert" alias for long running commands.  Use like so:

#   sleep 10; alert

alias alert='notify-send --urgency=low -i "$([ $? = 0 ] && echo terminal || echo error)" "$(history|tail -n1|sed -e '\''s/^\s*[0-9]\+\s*//;s/[;&|]\s*alert$//'\'')"'


# Alias definitions.

# You may want to put all your additions into a separate file like

# ~/.bash_aliases, instead of adding them here directly.

# See /usr/share/doc/bash-doc/examples in the bash-doc package.


if [ -f ~/.bash_aliases ]; then

    . ~/.bash_aliases

fi


# enable programmable completion features (you don't need to enable

# this, if it's already enabled in /etc/bash.bashrc and /etc/profile

# sources /etc/bash.bashrc).

if ! shopt -oq posix; then

 if [ -f /usr/share/bash-completion/bash_completion ]; then

  . /usr/share/bash-completion/bash_completion

 elif [ -f /etc/bash_completion ]; then

  . /etc/bash_completion
```

```
 fi

fi
```

#source /opt/ros/foxy/setup.bash   # 6_21_2021 Load Foxy

echo Alias foxy or noetic

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```
export _colcon_cd_root=~/ros2_install

source /usr/share/colcon_cd/function/colcon_cd.sh

alias nb='nano ~/.bashrc'

alias sb='source ~/.bashrc'

alias gs='git status'

alias gp='git pull'

alias cw='cd ~/colcon_ws'

alias cs='cd ~/colcon_ws/src'

alias cb='cd ~/colcon_ws && colcon build --symlink-install && source ~/.bashrc'

source ~/colcon_ws/install/local_setup.bash

export ROS_DOMAIN_ID=231 #TURTLEBOT3    # ID of PI


source ~/turtlebot3_ws/install/setup.bash

export
GAZEBO_MODEL_PATH=$GAZEBO_MODEL_PATH:~/turtlebot3_ws/src/turtlebot3_simulations/turtlebot
3_gazebo/models

harman@harman-VirtualBox:~$
```