Shell

Links

- SHELLdorado: Shell Scripts
- en.wikibooks.org: Bourne Shell Scripting
- fahd.blog: Shell Scripting - Best Practices
- Eta Labs: Rich’s sh (POSIX shell) tricks

Helpful Aliases

```
alias ..='cd ..'
alias ...='cd ../..'
alias +='pushd .'
alias -- -='popd'

alias ll='ls -lF'
alias la='ls -AF'
alias l='ls -CF'

alias e='/usr/bin/emacsclient -a /usr/bin/emacs -n'
```

Optional source another script

```
if [ -f ~/.bashrc-rho ]; then
    . ~/.bashrc-rho
fi
```

How to "source" an environment for a command

```
$SHELL -c "( source env-of-cmd.sh ; $* )"
```

How to "daemonize" a script

```
if [ "x$1" != "x--" ]; then
    echo "restarting as daemon..."
    $0 -- &
    exit 0
fi
```

```
# stuff to do
```

Kill a child after timeout

```
    TIMEOUT=5
    echo -n "executing app... "
    app &
    PID_APP=$!
    ( sleep $TIMEOUT && kill -9 $PID_APP ) 2>/dev/null &
    PID_WATCHER=$!

    if wait $PID_APP 2>/dev/null; then
        echo "done."
         kill -9 $PID_WATCHER
         wait $PID_WATCHER 2>/dev/null
    else
        echo "error."
    fi
```

Read/Write number binary

```
# write to file (example: 1st byte in file)
    echo -ne "$(printf '\\x%x' $number)" | dd of=<file> count=1 bs=1c
2>/dev/null

# read from file
    number="$(dd if=<file>" count=1 bs=1c 2>/dev/null | od -i | tr -s ' ' |
cut -s -d ' ' -f 2)"
    if [ $(echo "$number" | grep -c -E "^[0-9]+$") -ne 0 ] ; then
    # success
    fi
```

Generate a "C" source from binary file

```
echo "/* HEADER */"
echo
:
:
echo "static int binarray = {"
od -v -t x1 -A n $FILE | sed -e 's/\([0-9a-f][0-9a-f]\)/0x\1,/g'
echo "};"
```

Compare two directory listings (regarding names and size)

```
ls -lL <path/to/dir1> | sed -e 's/ [ ]*/ /g' | cut -d ' ' -f '5,9-' | sort -k 2 > dir1.lst
ls -lL <path/to/dir2> | sed -e 's/ [ ]*/ /g' | cut -d ' ' -f '5,9-' | sort -k 2 > dir2.lst
diff dir1.lst dir2.lst
```

From:
https://wiki.rho62.de/ - **rho62 Wiki**

Permanent link:
https://wiki.rho62.de/doku.php?id=development:scripts:shell

Last update: **2025/07/22 20:16**