

1 Shell CheatSheet

LINUX

- PDF Link: [cheatsheet-shell-A4.pdf](#)
- Blog URL: <https://cheatsheet.dennyzhang.com/cheatsheet-shell>
- Category: languages

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See more CheatSheets from Denny: [#denny-cheatsheets](#)

1.1 Basic

Name	Comment
Redirect stdout/stderr	<code>ls /tmp >/dev/null 2>&1</code>
Deal with filename	<code>basename \$f, dirname \$f</code>
Use timeout: avoid command hang	<code>timeout 10 sh -c "ls -lt"</code>
Long option for command line	<code>challenges-leetcode-interesting</code>
Trap exit signal	<code>challenges-leetcode-interesting</code>
shell retry	<code>challenges-leetcode-interesting</code>

1.2 String

Name	Comment
<code>\${var%pattern}</code>	
<code>\${var%%pattern}</code>	
<code>\${var#pattern}</code>	
<code>\${var##pattern}</code>	
<code>\${#var}</code>	

1.3 Numeric

Name	Comment
<code>*</code>	<code>expr 5 * 4</code>
<code>+</code>	<code>let z=x+y, z=\$((x+y))</code>
<code>==</code>	<code>int1 -eq int2, [\$? -eq 0] && echo "good"</code>
<code>>=</code>	<code>int1 -ge =int2</code>
<code>></code>	<code>int1 -gt =int2</code>
<code><=</code>	<code>int1 -le =int2</code>
<code><</code>	<code>int1 -lt =int2</code>
<code>!=</code>	<code>int1 -ne =int2</code>

1.4 Scripts

- Compare command output

```
[ 0 -eq $(find ./data -name "*.txt" -type f -print | wc -l) ]
```

- get ip from eth0

```
/sbin/ifconfig eth0 | grep 'inet addr:' | cut -d: -f2 | awk '{ print $1}'
```

- Check if a string contains a substring

```
#!/bin/bash
```

```
S="Pineapple"
```

```
if [[ "${S}" == *apple* ]]; then
    echo "Yes"
else
    echo "No"
fi
```

- Check if a string in a list

```
stackoverflow link
```

```
#!/usr/bin/env bash
IAAS_TYPE="gcp|aws"
TYPE="gcp"
```

```
if [[ "gcp|aws" == *${TYPE}* ]]; then
    echo "yes"
else
    echo "no"
fi
```

1.5 More Resources

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