

Justfile Cheat Sheet

by linux_china via cheatography.com/141366/cs/30282/

Simple justfile

```
#!/usr/bin/env just --justfile
# hello is recipe's name
hello:
    echo " Hello World! "
```

default Recipe

```
default: lint build test
# default recipe to display help
inform ation
default:
    @just --list
# if no default recipe, first
recipe will be default
```

Aliases

```
alias t := test
alias c := check
```

Settings

```
set shell := ["zsh", "-cu"]
#set shell := ["bu n", " exe c"]
set dotenv -re quired
set dotenv -load := true
serv:
    echo " $DA TAB ASE _AD -
DRESS from .env"
set positi ona l-a rgu ments :=
true
foo:
    echo $0
    echo $1
```

Strings - escape with Double-quoted

```
string-with-tab := "\t"
string -wi th- newline := " \n"
escapes := '\t\n \r\"\\'
# this string will evaluate to
`foo\n bar\n`
x := '''
foo
bar
```

just command line

```
# run recipe
```

\$ just hello param1

list recipes in alphabetical order

\$ just --list

\$ just --summary

Show full information about recipe

just --show test

select recipes to run interactively

\$ just --choose

shell completion

just -- completions zsh

GitHub Actions

```
- uses: extractions/setup-
just@v1
    with:
        jus t-v ersion: 1.32.0
```

IDE integration

VS Code: https://marketplace.visualstudio.com/items?itemName=skellock.just

JetBrains: https://plugins.jetbrains.com/plugin/18658-just

Just module

```
# load bar/justfile,
bar/.justfile, bar.just
mod bar
```

just --unstable bar::hello

Recipe with parameters

```
filter PATTERN:
     echo {{PATTERN}}
# param with default value
email addres s=' mas ter @ex -
amp le.c om':
     echo {{address}}
# param with expression
test triple = (a rch() + " -un -
kno wn- unk now n"):
   ./test {{triple}}
# variadic param: '+' aceept one
or more values
[doc(' Backup files')]
backup +FILES:
   scp {{FILES}}me@exa mpl -
# variadic param with *: zero or
more values
commit MESSAGE *FLAGS:
   git commit {{FLAGS}} -m "
{ {MESSAGE} } "
```

C

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Recipe with env variable for command

```
# recipe param as env variable
with $ sign
hello $name:
    echo $name
```

Recipe Dependencies - Before, After &

```
# execution sequence: a -> b ->
c -> d
b: a && c d
# execute recipe 'a' around
b:
    echo 'B start!'
    just a
    echo 'B end!'
# depend with params by
expression
default: (build " mai n")
build target:
    @echo 'Building
{{target}}...'
```

Command annotate: quiet(@), suppress(-), invert(!)

```
hello:
    @ echo " command will not be echoed "
    - echo " ignore none-zero exit status and contin ue"
@hello2:
    echo " command will not be echoed "
# Invert command exit status by ! - shell feature
hello3:
    # if command succee ds(exit status is 0), exit just
    ! git branch | grep '*
master'
```

Recipe with other Languages

```
bash-test:
    #!/ usr /bi n/env bash
    set -euxo pipefail
    hel lo='Yo'
    echo " $hello from bash!"
[scrip t("b ash ")]
bash-t est2:
    set -euxo pipefail
    hel lo='Yo'
    echo " $hello from bash!"
```

Private Recipes - name starts with _

```
test: _test-helper
    ./b in/test
# ommited from 'just --list'
_test- helper:
    ./b in/ sup er- sec ret -te -
st- hel per -stuff
```

Recipes as shell alias

```
for recipe in `just -f
    ~/.justfile --summary`; do
     alias $recip e="just -f
    ~/.jus tfile -d. $recip e"
done
```

Recipe with Python venv

```
venv:
    [ -d .venv ] || uv venv
run: venv
    ./.v en v/b in/ python3
main.py
```

Variable and Substitution

```
version := "0.2.7"
tardir := " awe som esa uce -" +
version
tarball := tardir + ".ta r.g z"
test:
     echo {{version}}
# set/ov erride variables from
just command line
$ just --set version 1.1.0
```

Environment variable for commands

```
export RUST_BACKTRACE := "1"
test:
     # will print a stack
trace if it crashes
     cargo test
```

backtick - capture output from evaluation

```
JAVA_HOME := `jbang jdk home 11`
# backtick code block
stuff := ```
    foo ="he llo "
    echo $foo " wor ld"
    ```

done BRANCH = `git rev-parse --
abbr ev-ref HEAD`:
 git checkout master
sloc:
 @echo "`wc -l *.c` lines
of code"
backtick works anywhere:
string /va ria ble /params
```



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# Justfile Cheat Sheet

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### Just functions

```
hello name:
 echo {{os()}}
 echo {{uppercase(name)}}

function categories

* System Inform ation

* Enviro nment Variables

* Justfile and Justfile
Directory

* String Manipu lation

* Path Manipu lation

String contact: (key + " :" + value)
```

### Attention (cont)

```
> if true; then \
 echo 'True!'; \
 fi
justfile is case insensitive: Justfile,
JUSTFILE etc
justfile could be hidden: '.justfile'
Call recipe from sub dir: `~/app1/target>$
just build`
```

### Conditional expressions: if, loop and while

```
regular expression match
fo := if " hi" =~ 'h.+' { " -
mat ch" } else { " mis mat ch" }
test:
 if true; then echo 'True!';
fi
 for file in `ls .`; do echo
$file; done
 while `serve r-i s-d ead`;
do ping -c 1 server; done
foo bar:
 echo {{ if bar == " bar " {
 hel lo" } else { " bye " } }}
```

## Attention

```
Each command line is executed
by a new shell.
If a command line failed, just
will exit, \
and subsequent command lines
will not be executed.
change -wo rki ng-dir:
 cd bar && pwd
 # multi-line construct -
escape newline with slash
```



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