

Simple justfile

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

Attention: don't use keywords as recipe name, such as "import", "export", "alias" etc.

default Recipe - first or [default]

```
default: lint build test
# default recipe to display help
information
default:
    @just --list
# default recipe with [default]
attribute
[default]
hello:
    echo hello
# if no default recipe, first
recipe will be default
```

Aliases

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

Settings

```
set shell := ["zsh", "-cu"]
#set shell := ["bash", "-x"]
set dotenv -required
set dotenv -load := true
serv:
    echo " $DA TAB ASE _AD -
DRESS from .env"
set positiona l-a rguments :=
true
foo:
```

Settings (cont)

```
> echo $0
echo $1
```

Strings - escape with Double-quoted

```
string-with-tab := "\t"
string -with- newline := " \n"
escapes := '\t\n\r\"\\'
shell- exp and ed-path :=
x'~/${ FOO }/$ {BAR}'
message := f'hello {{name}}'
# 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: 1.45.0
```

IDE integration

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

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

PROJECT_DIR env variable available for JetBrains IDEs

Just module/import

```
# load bar/justfile,
bar/.justfile, bar.just
mod bar
# include the contents of
another justfile
import 'foo/b ar.j ust'
just --unstable bar::hello
```

Recipe with parameters

```
filter PATTERN:
    echo "{{PATTERN}}"
# param with default value
email address s=' mas ter @ex -
amp le.c om':
    echo "{{address}}"
# param with validation pattern
[arg('n', patter n=' \d+')]
double n:
    echo $(({{n}} * 2))
# param with expression
test triple =(a rch() + " -un -
kno wn- unk now n"):
    ./test "{{triple}}"
```



Recipe with parameters (cont)

```
> # variadic param: '+' accept one or more values
[doc("Backup files")]
backup +FILES:
  scp {{FILES}} me@example.com
# variadic param with *: zero or more values
commit MESSAGE *FLAGS:
  git commit {{FLAGS}} -m "{{MESSAGE}}"
```

If possible, please put param in quotation mark and friendly for syntax highlight.

Recipe with env variable for command

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

Recipe Dependencies - Before, After & Around

```
# 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 "main")
build target:
  @echo 'Building {{target}}...'
```

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

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

Recipe with other Languages

```
bash-test:
  #!/usr/bin/env bash
  set -euxo pipefail
  hello='Yo'
  echo " $hello from bash!"
[script("bash")]
bash-test2:
  set -euxo pipefail
  hello='Yo'
[script('bun', 'run')]
[extension('.ts')]
bun-hello:
  let name: string = "Jackie"
  console.log(`${name}!`)
[script("duckdb", "-f")]
query:
  select version()
  echo " $hello from bash!"
```

Private Recipes - name starts with _

```
test: _test-helper
  ./bin/test
# omitted from 'just --list'
_test-helper:
  ./bin/super-secret-test-stuff
```

Recipes as shell alias

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

Recipe with Python venv

```
venv:
  [ -d .venv ] || uv venv
run: venv
  ./venv/bin/python3 main.py
```

Variables

```
version := "0.2.7"
tardir := "awesome- + version
tarball := tardir + ".tar.gz"
path := "a" / "b" # join path
var1 := ' ' && 'goodbye' # ' '
var2 := 'hello' && 'goodbye' # 'goodbye'
var3 := ' ' || 'goodbye' # 'goodbye'
var4 := 'hello' || 'goodbye' # 'hello'
test:
  echo "{{version}}"
# set/override variables from just command line
$ just --set version 1.1.0
```

- Substitutions: {{NAME}}

- Logical Operators: || &&

- Joining Path: /

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 /variable /params
```

Just functions

```
hello name:
    echo "{{os()}}"
    echo "{{uppercase(name)}}"
# function categories
* System Information
* Environment Variables
* Justfile and Justfile
Directory
* String Manipulation
* Path Manipulation
# String contact: (key + " :" +
value)
```

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 -working-dir:
    cd bar && pwd
    # multi-line construct -
    escape newline with slash
    if true; then \
        echo 'True!'; \
    fi
# justfile is case insensitive:
Justfile, JUSTFILE etc
# justfile could be hidden:
'.just file'
# Call recipe from sub dir:
`~/app 1/t arg et>$ just build`
```



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Page 3 of 3.

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