

#### Motivation

When I started developing websites in Go and using gin framework, it was a pity that gin lacked a live-reloading function. So I searched around and tried fresh, it seems not much flexible, so I intended to rewrite it better. Finally, Air's born. In addition, great thanks to pilu, no fresh, no air:)

Air is yet another live-reloading command line utility for developing Go applications. Run air in your project root directory, leave it alone, and focus on your code.

Note: This tool has nothing to do with hot-deploy for production.

### **⊘** Features

- Colorful log output
- Customize build or any command
- Support excluding subdirectories
- Allow watching new directories after Air started
- Better building process

# 

Support air config fields as arguments:

If you want to config build command and run command, you can use like the following command without the config file:

```
air --build.cmd "go build -o bin/api cmd/run.go" --build.bin "./bin/api"
```

Use a comma to separate items for arguments that take a list as input:

```
air --build.cmd "go build -o bin/api cmd/run.go" --build.bin "./bin/api" --
build.exclude dir "templates,build"
```

# 

#### 

```
# binary will be $(go env GOPATH)/bin/air
curl -sSfL https://raw.githubusercontent.com/cosmtrek/air/master/install.sh | sh

# or install it into ./bin/
curl -sSfL https://raw.githubusercontent.com/cosmtrek/air/master/install.sh | sh
air -v
```

### ♂ Via go install

With go 1.16 or higher:

```
go install github.com/cosmtrek/air@latest
```

#### ∂ Docker

Please pull this docker image cosmtrek/air.

```
docker run -it --rm \
    -w "<PROJECT>" \
    -e "air_wd=<PROJECT>" \
    -v $(pwd):<PROJECT> \
    -p <PORT>:<APP SERVER PORT> \
    cosmtrek/air
    -c <CONF>
```

► For example

# 

For less typing, you could add alias air='~/.air' to your .bashrc or .zshrc .

First enter into your project

```
cd /path/to/your_project
```

The simplest usage is run

```
# firstly find `.air.toml` in current directory, if not found, use defaults
air -c .air.toml
```

You can initialize the <code>.air.toml</code> configuration file to the current directory with the default settings running the following command.

```
air init
```

After this, you can just run the <code>air</code> command without additional arguments and it will use the <code>.air.toml</code> file for configuration.

```
air
```

For modifying the configuration refer to the air\_example.toml file.

## **Properties** Runtime arguments

You can pass arguments for running the built binary by adding them after the air command.

```
# Will run ./tmp/main bench
air bench

# Will run ./tmp/main server --port 8080
air server --port 8080
```

You can separate the arguments passed for the air command and the built binary with -- argument.

```
# Will run ./tmp/main -h
air -- -h

# Will run air with custom config and pass -h argument to the built binary
air -c .air.toml -- -h
```

## ♂ Docker-compose

```
services:
    my-project-with-air:
    image: cosmtrek/air
    # working_dir value has to be the same of mapped volume
    working_dir: /project-package
    ports:
        - <any>:<any>
        environment:
        - ENV_A=${ENV_A}
        - ENV_B=${ENV_B}
        - ENV_C=${ENV_C}
    volumes:
        - ./project-relative-path/:/project-package/
```

# ∂ Debug

air -d prints all logs.

# Installation and Usage for Docker users who don't want to use air image

```
Dockerfile
```

```
# Choose whatever you want, version >= 1.16
FROM golang:1.19-alpine

WORKDIR /app
RUN go install github.com/cosmtrek/air@latest

COPY go.mod go.sum ./
RUN go mod download

CMD ["air", "-c", ".air.toml"]
```

docker-compose.yaml

```
version: "3.8"
services:
    web:
    build:
        context: .
        # Correct the path to your Dockerfile
        dockerfile: Dockerfile
    ports:
        - 8080:3000
# Important to bind/mount your codebase dir to /app dir for live reload volumes:
        - ./:/app
```

# ∂Q&A

# 

```
export GOPATH=$HOME/xxxxx
export PATH=$PATH:$GOROOT/bin:$GOPATH/bin
export PATH=$PATH:$(go env GOPATH)/bin <---- Confirm this line in you profile!!!</pre>
```

## 

Should use \ to escape the `' in the bin. related issue: #305

# 

Please note that it requires Go 1.16+ since I use go mod to manage dependencies.

```
# Fork this project
```

```
# Clone it
mkdir -p $GOPATH/src/github.com/cosmtrek
cd $GOPATH/src/github.com/cosmtrek
git clone git@github.com:<YOUR USERNAME>/air.git

# Install dependencies
cd air
make ci

# Explore it and happy hacking!
make install
```

Pull requests are welcome.

### 

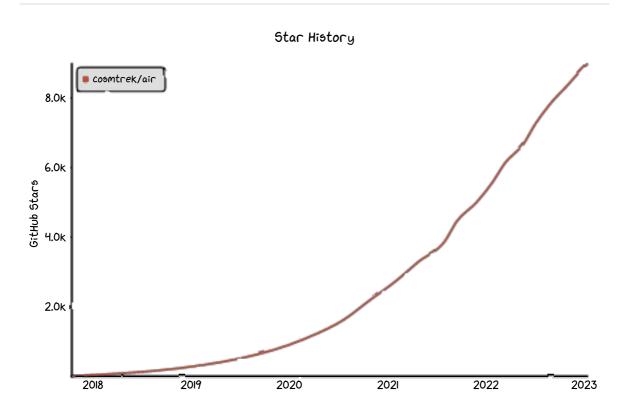
```
# Checkout to master
git checkout master

# Add the version that needs to be released
git tag v1.xx.x

# Push to remote
git push origin v1.xx.x

# The CI will process and release a new version. Wait about 5 min, and you can fe
```

# 



# 



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## 

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