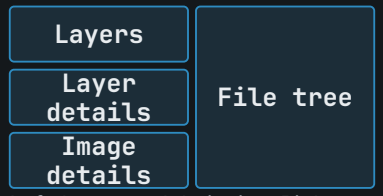
dive Explore image layers

CONCEPTS

Left pane lists the image layers, right pane the file tree at the selected layer. Tab moves the focus between them.



Left: layers and their size. Right: files, coloured by change.

Tree colours: green added, red removed, yellow modified, plain unchanged.

dive reads the image from a container engine or an archive; pick one with --source. Keys below are the defaults and can be remapped in the config.

RUN DIVE

dive *<image>*
Analyze a local image

dive build -t *<tag>* **.**
Build with docker, then analyze

dive --source *<engine>* *<image>*
Choose the image source

RUN DIVE (cont.)

dive *<engine>*://*<image>*
Same, as a URL-style prefix

dive docker-archive:// *<file.tar>*
Analyze a saved image tarball

dive --ci-config *<file>* *<image>*
Use another .dive-ci file

dive --ignore-errors *<image>*
Carry on after archive parse errors

dive --version
Show the version

CI=true dive *<image>*
Skip the UI, exit code gives pass or fail

MOVE AROUND

Tab
Switch between layers and file tree

Up / **Down**
Move selection (also K / J)

Left / **Right**
Move left / right (also H / L)

PageUp / **PageDown**
Scroll a page (also U / D)

Ctrl + **C** / **Q** Quit

LAYERS

Ctrl + **L**
Show changes of the selected layer only

Ctrl + **A**
Layers: aggregate / tree: show added files

The image details panel shows the total size, wasted space and an efficiency score.

FILE TREE

Space
Collapse or expand a directory

Ctrl + **Space**
Collapse or expand all directories

Ctrl + **F**
Filter files by path

Esc Close the file filter

Ctrl + **R**
Toggle removed files

Ctrl + **M**
Toggle modified files

Ctrl + **U**
Toggle unmodified files

Ctrl + **B**
Toggle file attributes (mode, owner, size)

CI MODE

Put rules in .dive-ci at the repo root; exit code is non-zero when a rule fails.

lowestEfficiency: 0.95
Fail below this efficiency ratio

highestWastedBytes: 20MB
Fail at or above this wasted size

highestUserWastedPercent: 0.20
Fail at or above this wasted share

highestUserWastedPercent ignores the base image layer when computing the share.

CONFIG

Config is read from $XDG_CONFIG_HOME/dive/, ~/.config/dive/ or ~/.dive.yaml.

~/.config/dive/dive.yaml

```
container-engine: podman
diff:
  hide: [unmodified]
filetree:
  collapse-dir: true
  pane-width: 0.4
keybinding:
  quit: ctrl+c, q
```

CONFIG (cont.)

Remappable actions have names such as toggle-view, filter-files, page-up and toggle-unmodified-files; several keys are separated by commas.

DOCKER_HOST points dive at a non-default engine socket (Colima and similar).

RECIPES

Find what bloats an image

```
dive <image>
# Ctrl+L on a big layer
# Ctrl+U to hide unchanged files
# Ctrl+F to filter by path
```

Gate a build in CI

```
cat > .dive-ci <<'EOF'
rules:
  lowestEfficiency: 0.95
  highestWastedBytes: 20MB
EOF
CI=true dive <image>
```

Analyze a podman image

```
dive --source podman <image>
# make it the default in the config file:
# container-engine: podman
```

Inspect an image without a daemon

```
docker save <image> -o image.tar
dive docker-archive://image.tar
```