

ENTRYPOINT VS CMD

Coffee menu example



You are in a coffee shop reading the coffee menu



Coffee Menu

Plain Coffee



Flavored Coffee

(Default Caramel)



Flavored Coffee

(Default Caramel Or one topping for your choice)



Dockerfiles Menu

Coffee Type

Docker File

Run Command

Plain Coffee

```
FROM coffee-shop:latest
ENTRYPOINT ["make_latte","Plain"]
```

```
docker run coffee-shop:latest
```

Flavored Coffee

Default Caramel

```
FROM coffee-shop:latest
ENTRYPOINT ["make_latte"]
CMD ["--topping", "Caramel"]
```

```
docker run coffee-shop:latest
```

Flavored Coffee

Default Caramel

Or
one topping for your choice

```
FROM coffee-shop:latest
ENTRYPOINT ["make_latte"]
CMD ["--topping", "Caramel"]
```

```
docker run coffee-shop:latest --topping vanilla
```

Explanation

- Plain Coffee (**only ENTRYPOINT in the file**)
 - Imagine you have a coffee shop that specializes in making coffee. Your main offering is a coffee, and you don't provide any options for additional toppings. Customers always get a Coffee, and that's it.
- Flavored Coffee (**ENTRYPOINT and CMD together in the file**)
 - Now, let's say you decide to make your Latte even better by adding some default toppings like a swirl of caramel.
- Customized Flavored Coffee (**change the default CMD at the runtime**)
 - Customer comes in and says, "I want my Latte with extra vanilla and no chocolate or caramel." You, as the barista, can make a customized Latte with the specific toppings the customer asked for.

Summary

ENTRYPOINT is used to set the main command and its default options, while **CMD** is used to provide default arguments for that command. When used together.

CMD provides default values that can be overridden by providing a new command at runtime.