

Bonnes pratiques pour une recherche reproductible en écologie numérique.  
Montpellier, 20 novembre 2023

# git from scratch



**CESAB**  
CENTRE DE SYNTHÈSE ET D'ANALYSE  
SUR LA BIODIVERSITÉ

Iago Bonnici   
Institut des Sciences de l'Evolution-Montpellier

# The Various Git Clients

---

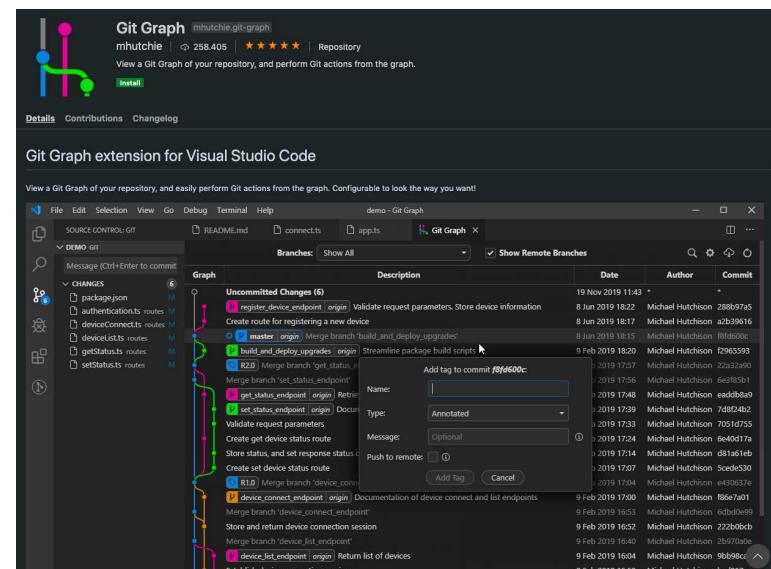
# Git Clients

Use the tools you prefer



# Git Clients

Use the tools you prefer



VSCode extension

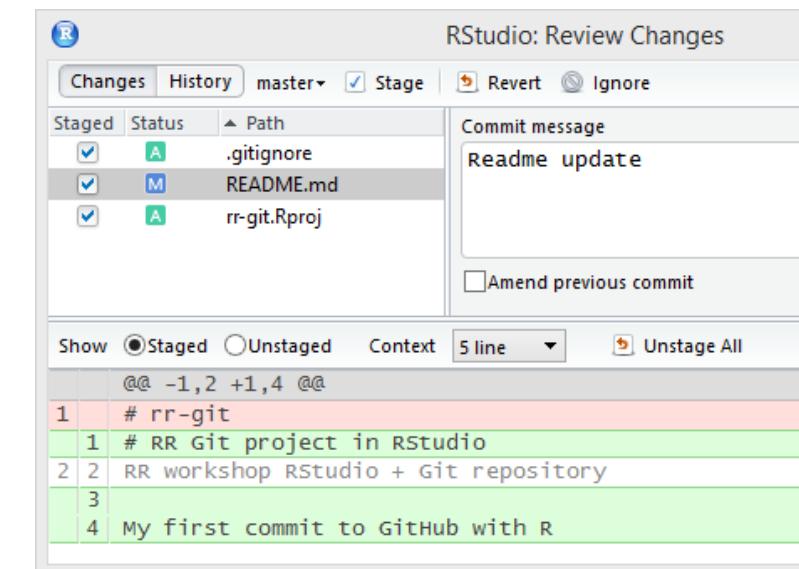
```
* Sacc482 2012-09-11 (staging) Merge branch
a0c2b86 2012-09-11 (HEAD, master) ridu ju
8cc08af 2012-09-11 (s4) staging uus konf
5c97afc 2012-09-11 Merge branch 'master'

088ef93 2012-09-11 (m3) masteri confipara
3e43a8b 2012-09-11 (s2) Merge branch 'mas

e67c45e 2012-09-11 (m2) parandus kolmando
aa1b0c6 2012-09-11 Merge branch 'master'

dc7db82 2012-09-11 (m1) kolmas fail maste
f616952 2012-09-11 (s1) Staging 2 config
2af9eaa 2012-09-11 staging_conf (Laas Tool
7c15756 2012-09-11 (initial) initial (Laas
```

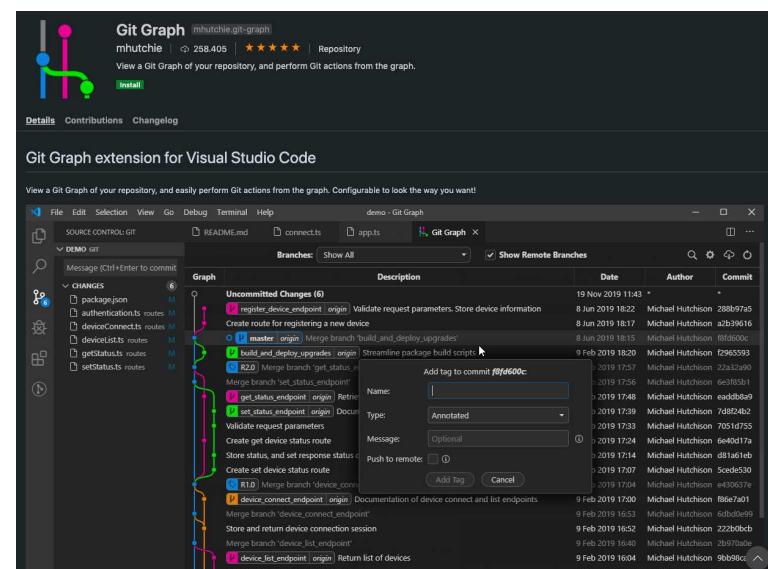
command-line console



RStudio extension

# Git Clients

Use the tools you prefer



VSCode extension

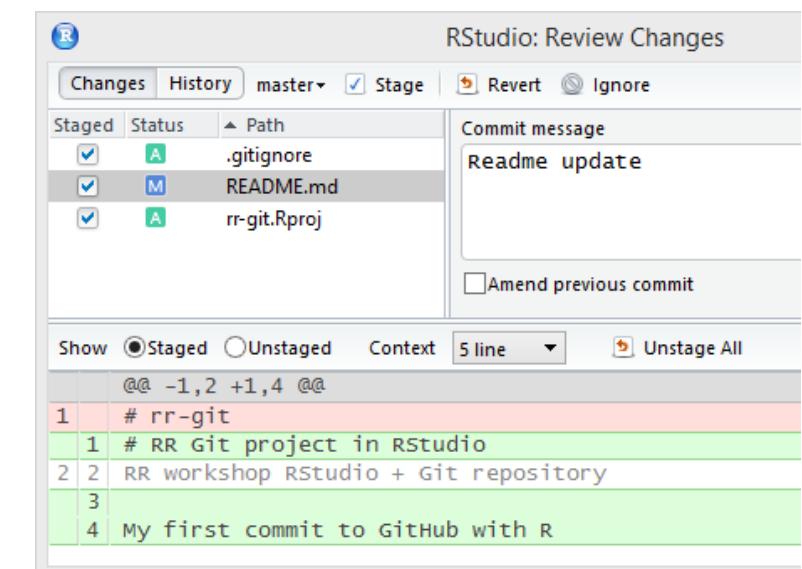
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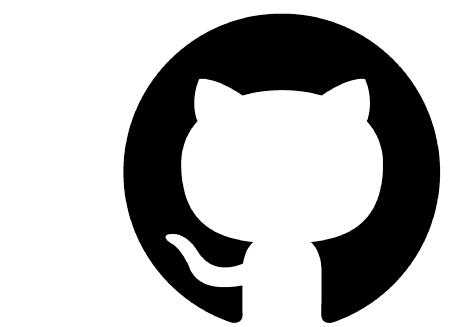
e67c45e 2012-09-11 (m2) parandus kolmando
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command-line console



RStudio extension



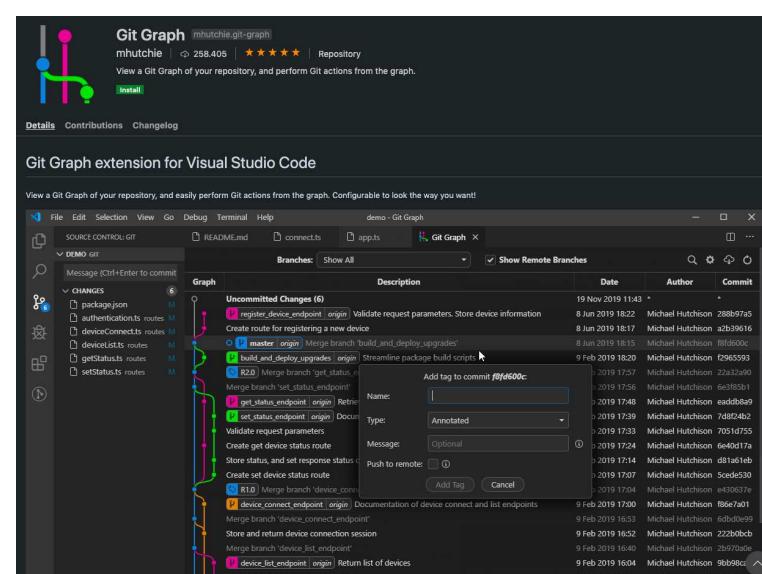
GitHub



GitLab

# Git Clients

Use the tools you prefer



VSCode extension

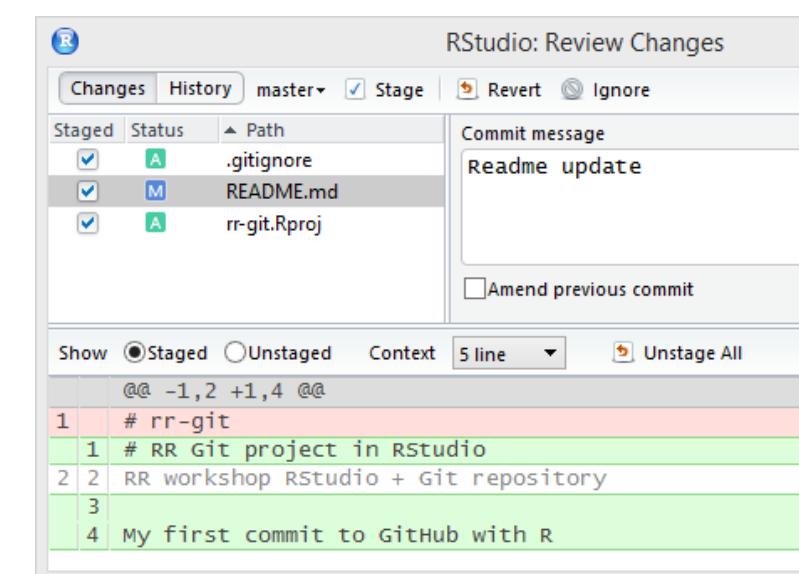
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* Sacc482 2012-09-11 (staging) Merge branch
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  2af9eaa 2012-09-11 staging_conf (Laas Tool
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command-line console



RStudio extension



# Pizzas with Git

---

# The Pizzas Repository

Crafting your First Commits



# The Pizzas Repository

Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.



# The Pizzas Repository

Crafting your First Commits



pizzas/



  └ README.md

README.md

Collect and distribute the best pizzas recipes.

# The Pizzas Repository

## Crafting your First Commits

 pizzas/

 README.md

README.md

Collect and distribute the best pizzas recipes.

```
$ git init
```

# The Pizzas Repository

## Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

```
$ git init
```

# The Pizzas Repository

## Crafting your First Commits

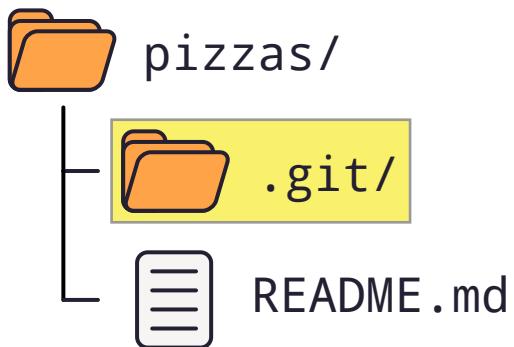


**README.md**

Collect and distribute the best pizzas recipes.

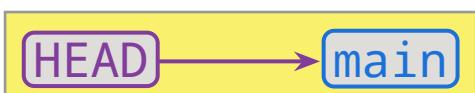
# The Pizzas Repository

Crafting your First Commits



README.md

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# The Pizzas Repository

Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

HEAD → main

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Crafting your First Commits



README.md

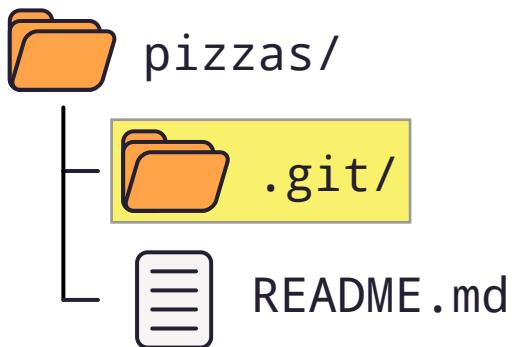
Collect and distribute the best pizzas recipes.

```
$ git commit
```

HEAD → main

# The Pizzas Repository

## Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

```
$ git commit
```

HEAD → main

d1e8c8c ⚡ First commit, the intent.

# The Pizzas Repository

Crafting your First Commits



README.md

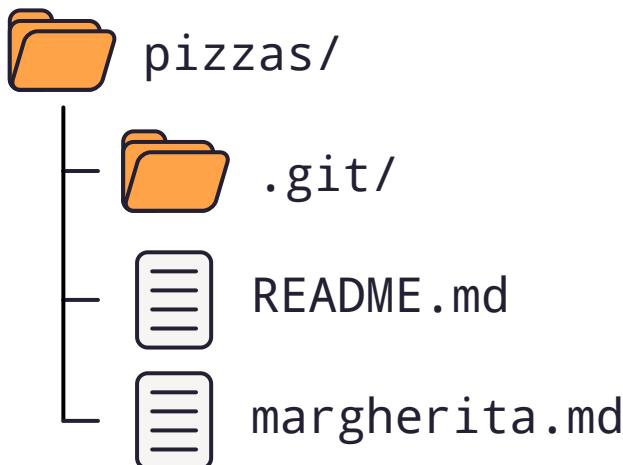
Collect and distribute the best pizzas recipes.

HEAD → main

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# The Pizzas Repository

## Crafting your First Commits



**README.md**

Collect and distribute the best pizzas recipes.

**margherita.md**

# Margherita

The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.

Base:\_\_ tomato sauce

Topping:

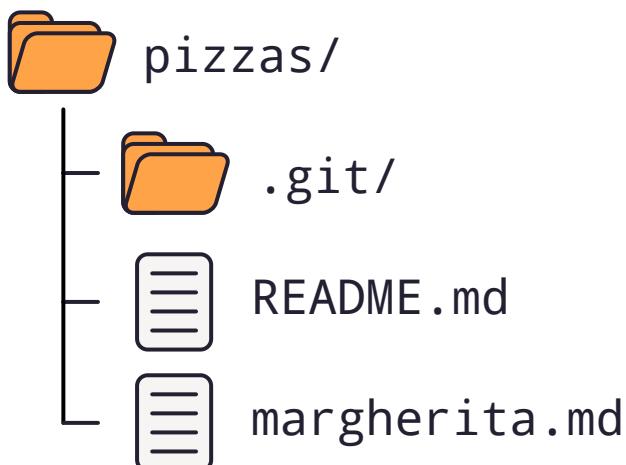
- Mozzarella
- Basil

HEAD → main

d1e8c8c ⚡ First commit, the intent.

# The Pizzas Repository

## Crafting your First Commits



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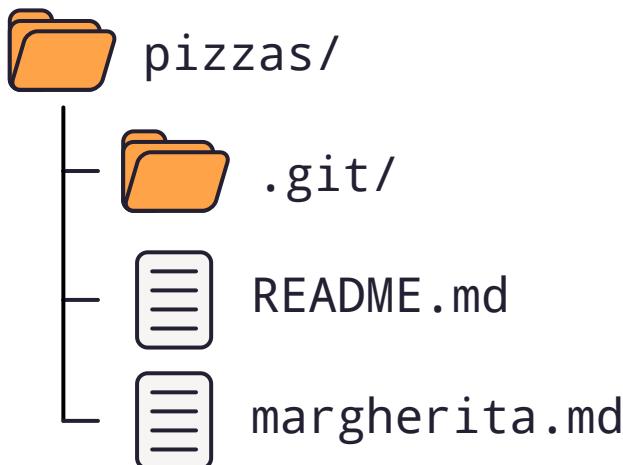
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## Crafting your First Commits



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Base: tomato sauce

Topping:

- Mozzarella

- Basil

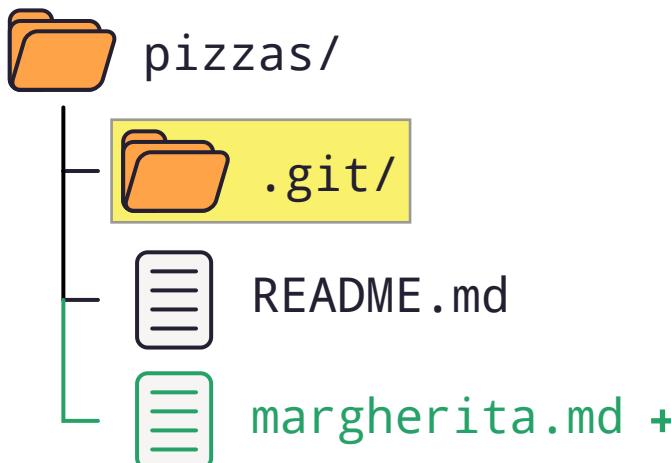
```
$ git diff
```

HEAD → main

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# The Pizzas Repository

## Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

```
+ margherita.md
+ # Margherita
+
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+ the one to pick when you're unsure
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+
+ Base:__ tomato sauce
+ Topping:
+ - Mozzarella
+ - Basil
```

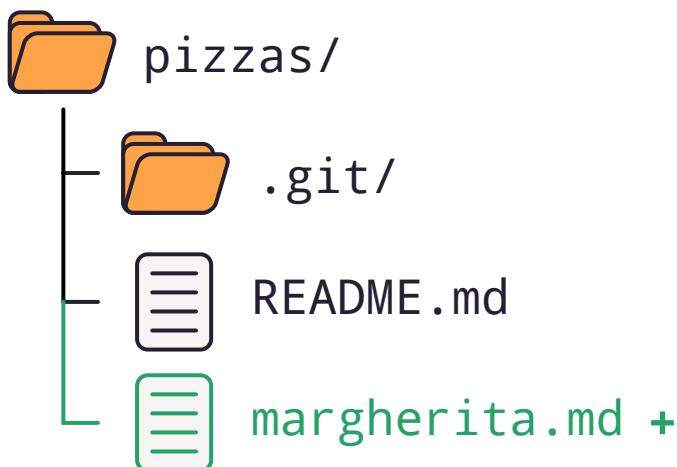
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# The Pizzas Repository

## Crafting your First Commits



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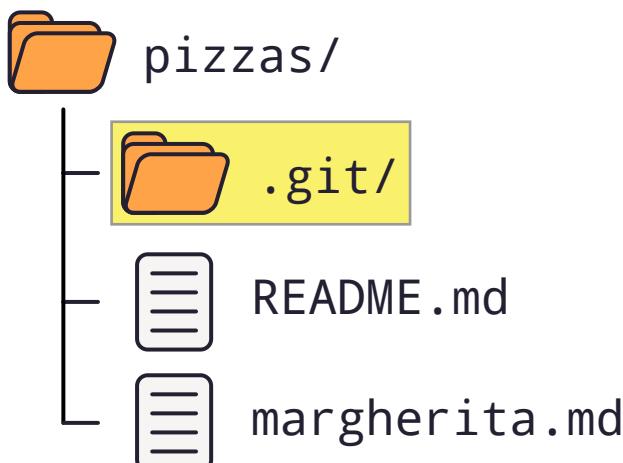
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# The Pizzas Repository

## Crafting your First Commits



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Base: tomato sauce

Topping:

- Mozzarella
- Basil

\$ git commit

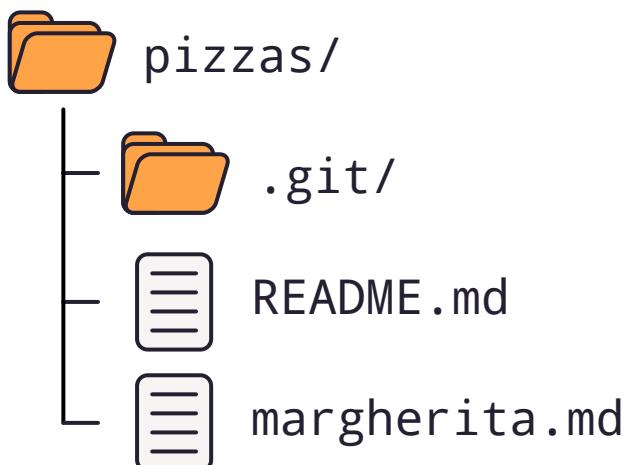
HEAD → main

4e29052 ⚡ First pizza: Margherita.

d1e8c8c 🍕 First commit, the intent.

# The Pizzas Repository

## Crafting your First Commits



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margherita.md

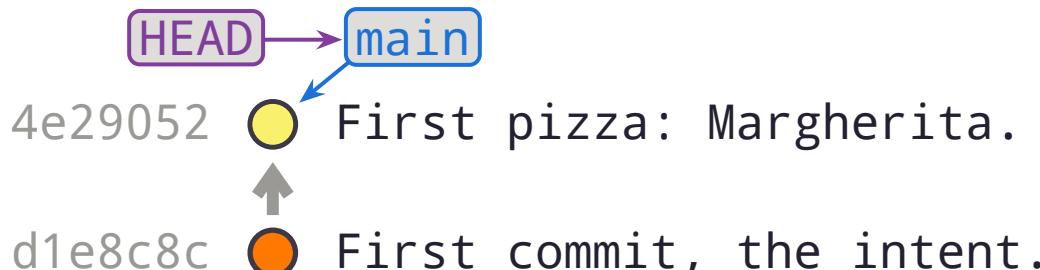
# Margherita

The simplest and most famous,  
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whether the cook is good.

Base: tomato sauce

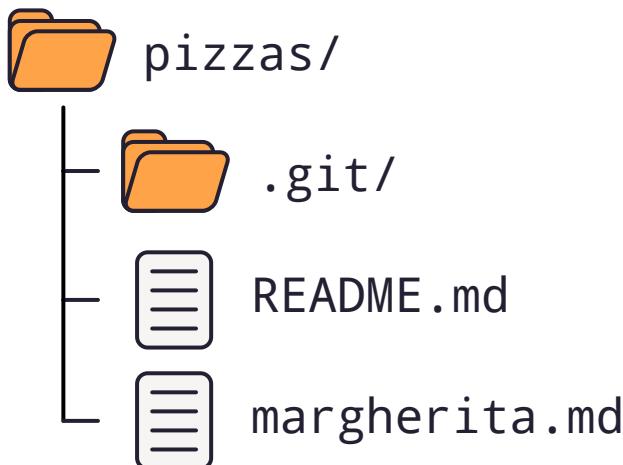
Topping:

- Mozzarella
- Basil



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## Crafting your First Commits



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Base:\_\_ tomato sauce

Topping:

- Mozzarella

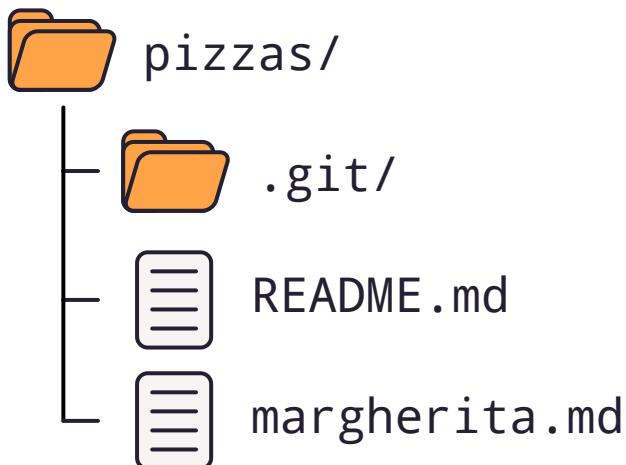
\*Note:\*

It is said that this pizza  
has only three ingredients  
corresponding to the three colors  
on the Italian flag.  
Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.  
- Basil

HEAD → main  
4e29052 ⚡ First pizza: Margherita.  
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## Crafting your First Commits



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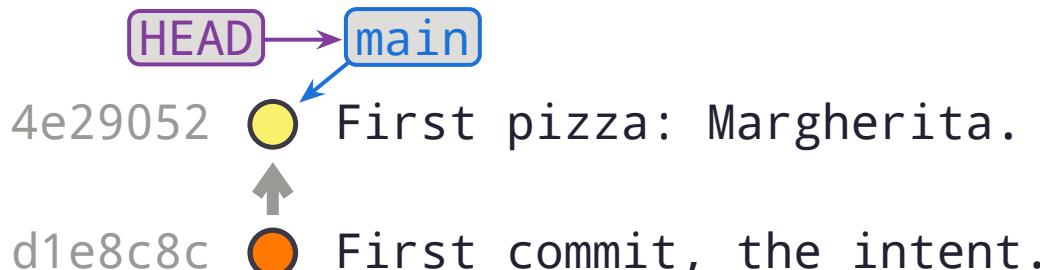
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## Crafting your First Commits



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~ margherita.md

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+ olive oil, salt, or oregano.

+ - Basil

\$ git diff

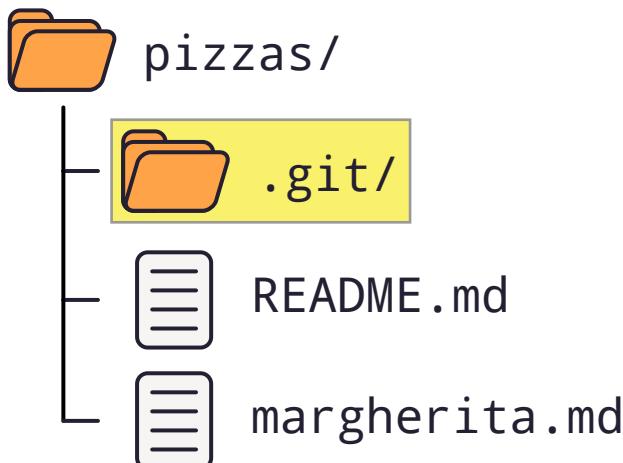
HEAD → main

4e29052 ⚡ First pizza: Margherita.

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# The Pizzas Repository

## Crafting your First Commits



```
$ git commit
```

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Collect and distribute the best pizzas recipes.

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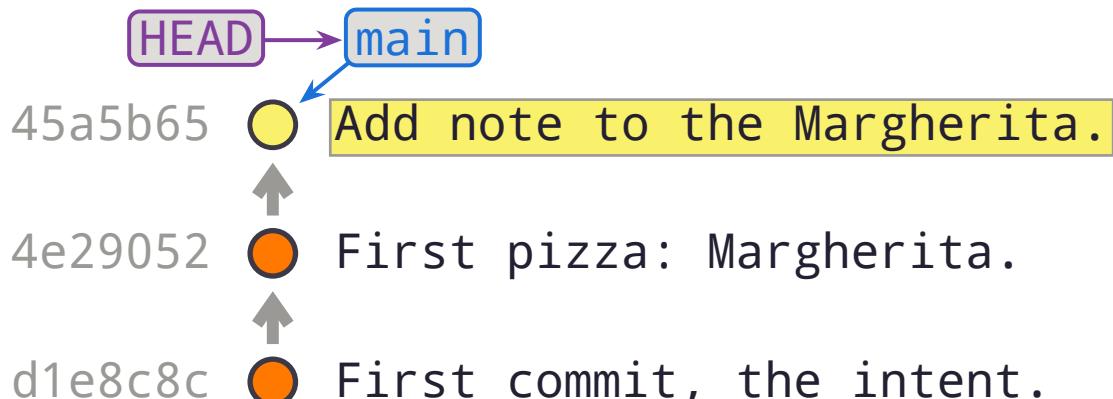
- Mozzarella

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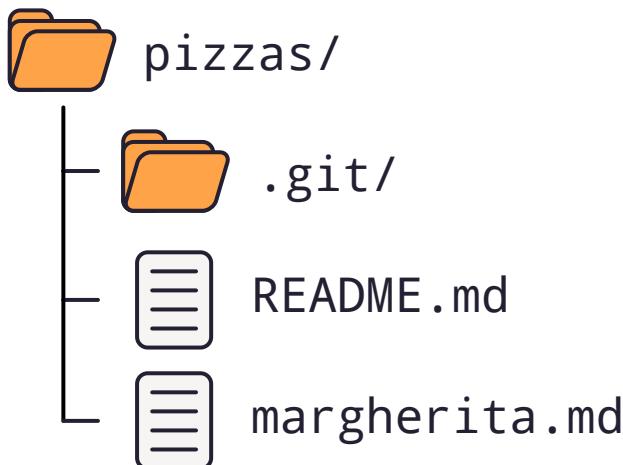
Nevertheless, it is always good  
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# The Pizzas Repository

## Crafting your First Commits



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The simplest and most famous,  
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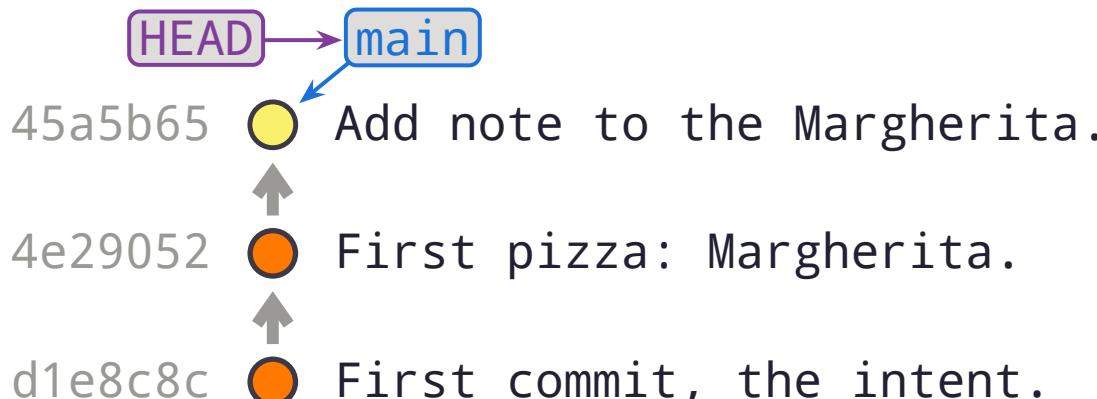
Topping:

- Mozzarella

\*Note:\*

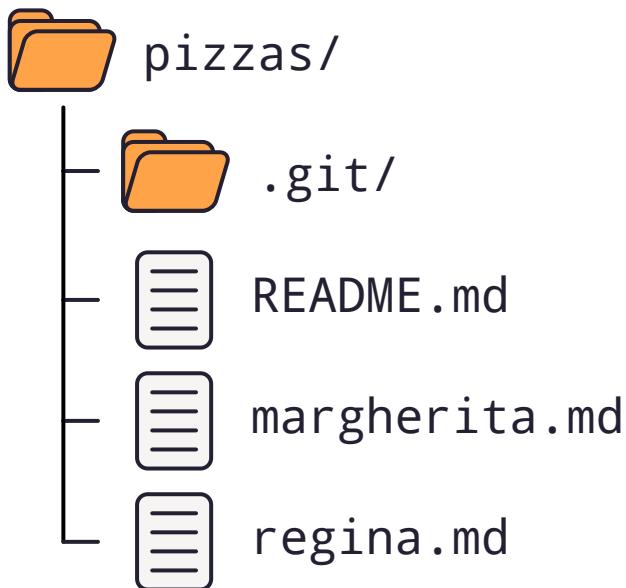
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Nevertheless, it is always good  
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- Basil



# The Pizzas Repository

## Crafting your First Commits



### README.md

Collect and distribute the best pizzas recipes.  
Where to find the pizzas in the project:

- Margherita: `./margherita.md`
- Regina: `./regina.md`

### margherita.md

#### # Margherita

The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.

Base: tomato sauce

Topping:

- Mozzarella

#### \*Note:\*

It is said that this pizza  
has only three ingredients  
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Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.

- Basil

### regina.md

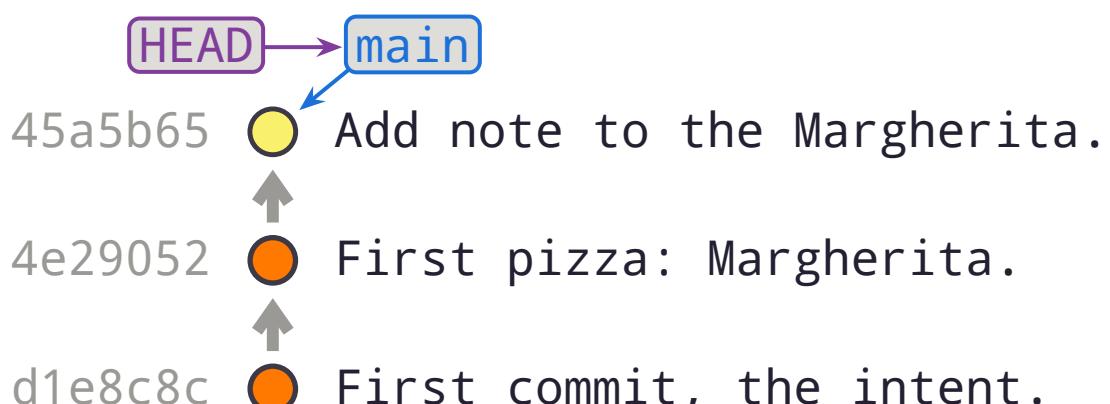
#### # Regina

This audacious pizza  
would be named from queen  
Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.

Base: tomato sauce

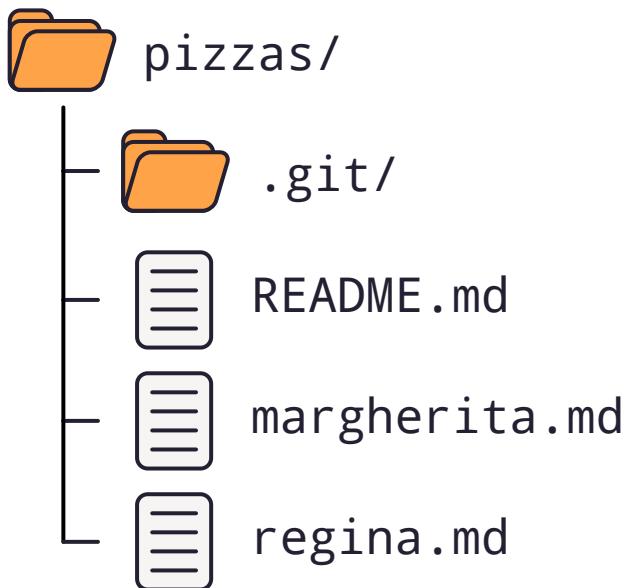
Topping:

- Mozzarella
- Ham
- Mushrooms



# The Pizzas Repository

## Crafting your First Commits



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Collect and distribute the best pizzas recipes.  
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- Margherita: `./margherita.md`
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### margherita.md

# Margherita  
  
The simplest and most famous,  
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whether the cook is good.

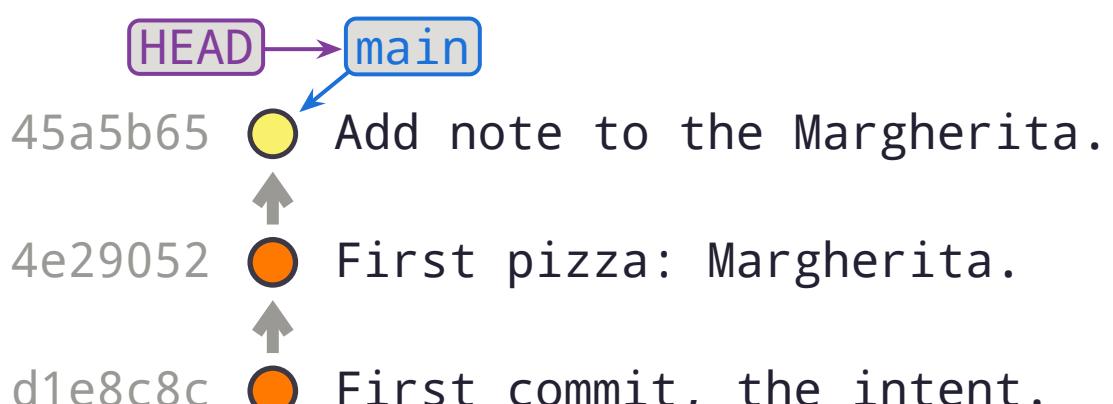
Base: tomato sauce  
Topping:  
- Mozzarella

\*Note:  
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has only three ingredients  
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Nevertheless, it is always good  
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olive oil, salt, or oregano.  
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### regina.md

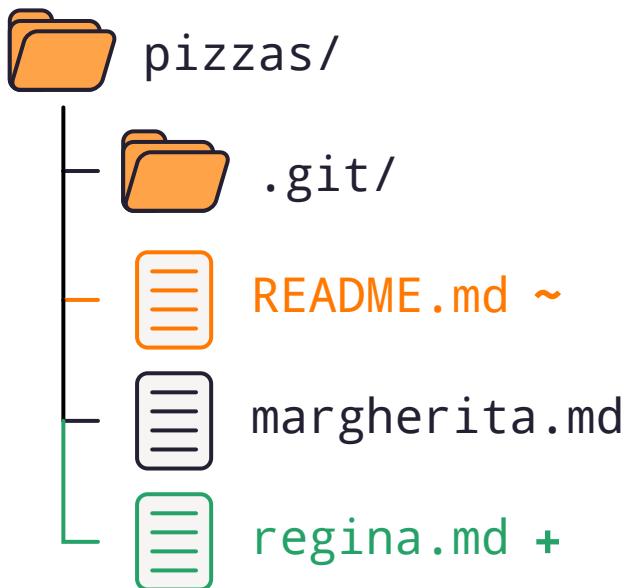
# Regina  
  
This audacious pizza  
would be named from queen  
Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.

Base: tomato sauce  
Topping:  
- Mozzarella  
- Ham  
- Mushrooms



# The Pizzas Repository

## Crafting your First Commits



### ~ README.md

Collect and distribute the best pizzas recipes.  
+ Where to find the pizzas in the project:  
+ - \_\_Margherita\_\_: `./margherita.md`  
+ - \_\_Regina\_\_: `./regina.md`

### margherita.md

```
# Margherita  
The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.
```

```
__Base:__ tomato sauce  
__Topping:  
- Mozzarella
```

\*Note:\*  
It is said that this pizza  
has only three ingredients  
corresponding to the three colors  
on the Italian flag.  
Nevertheless, it is always good  
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olive oil, salt, or oregano.  
- Basil

\$ git diff

HEAD → main

45a5b65 Add note to the Margherita.

4e29052 First pizza: Margherita.

d1e8c8c First commit, the intent.

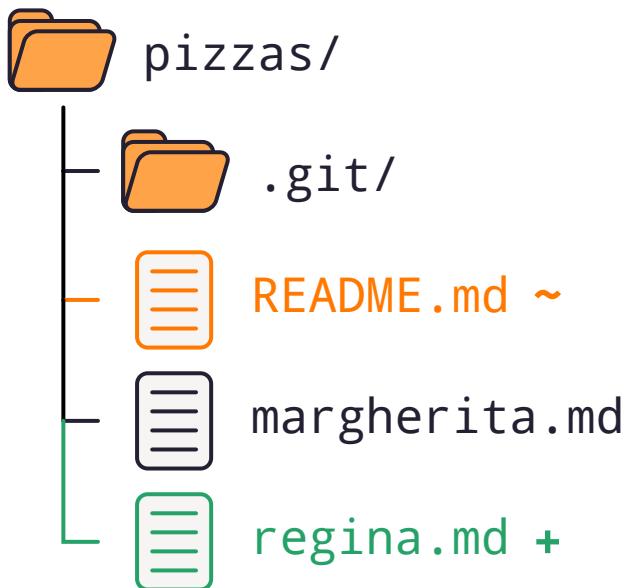
### + regina.md

+ # Regina  
+  
+ This audacious pizza  
+ would be named from queen  
+ Elena of Montenegro.  
+ Created by pizzaiolo  
+ Raffaele Esposito.  
+

```
+ __Base:__ tomato sauce  
+ __Topping:  
+ - Mozzarella  
+ - Ham  
+ - Mushrooms
```

# The Pizzas Repository

## Crafting your First Commits



```
$ git status
```

HEAD → main  
45a5b65 Add note to the Margherita.  
4e29052 First pizza: Margherita.  
d1e8c8c First commit, the intent.

A git commit history diagram showing three commits. The first commit 'First commit, the intent.' is at the bottom, followed by 'First pizza: Margherita.' and then 'Add note to the Margherita.'. The 'HEAD' pointer is at the tip of the 'Add note...' commit. Arrows indicate the flow from the base commit up to the tip.

### README.md

Collect and distribute the best pizzas recipes.  
Where to find the pizzas in the project:  
- Margherita: `./margherita.md`  
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### margherita.md

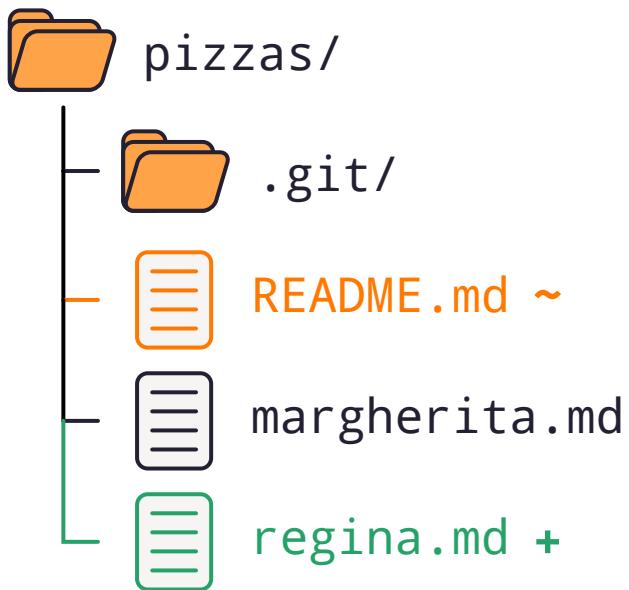
# Margherita  
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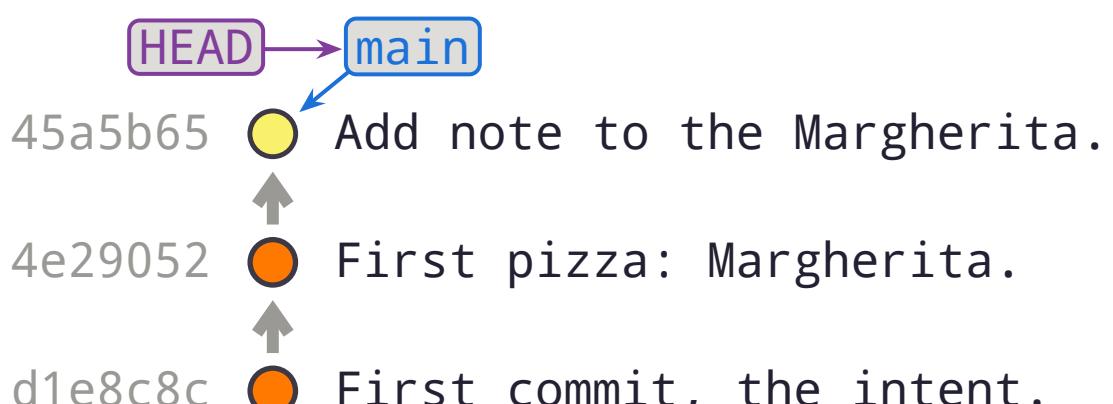
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### regina.md

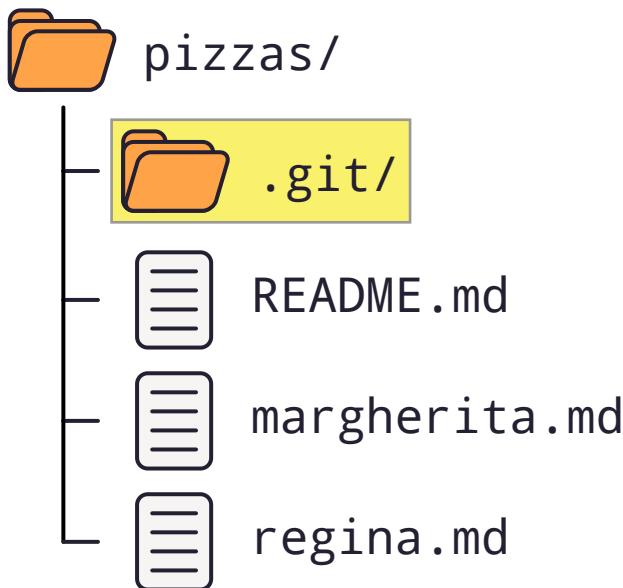
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Raffaele Esposito.

Base: tomato sauce  
Topping:  
- Mozzarella  
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# The Pizzas Repository

## Crafting your First Commits



\$ git commit

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whether the cook is good.

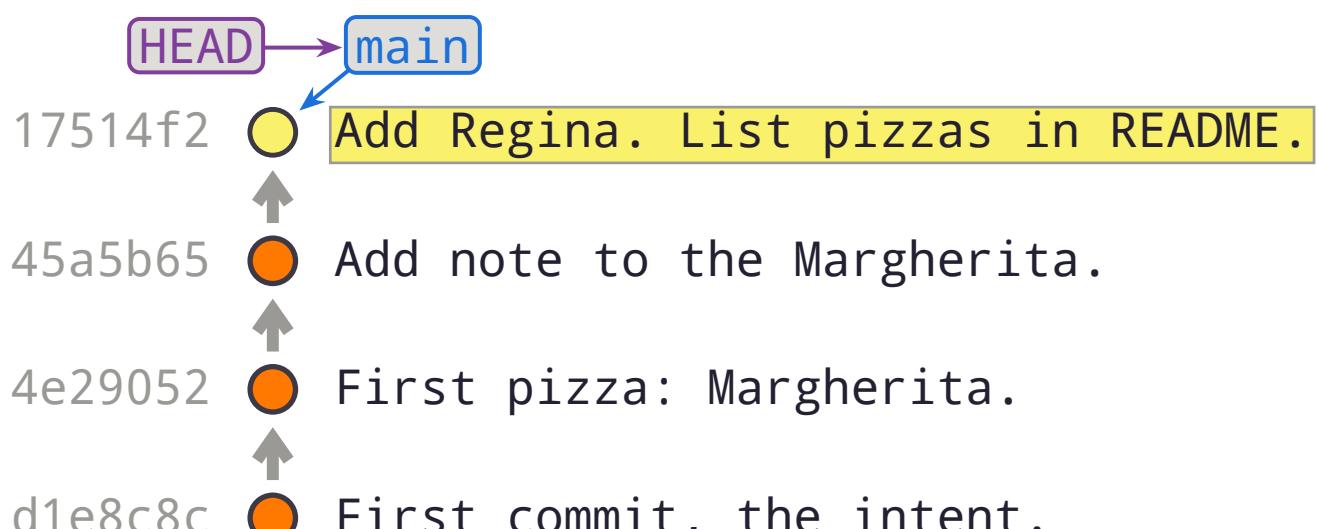
Base: tomato sauce  
Topping:  
- Mozzarella

\*Note:  
It is said that this pizza  
has only three ingredients  
corresponding to the three colors  
on the Italian flag.  
Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.  
- Basil

### regina.md

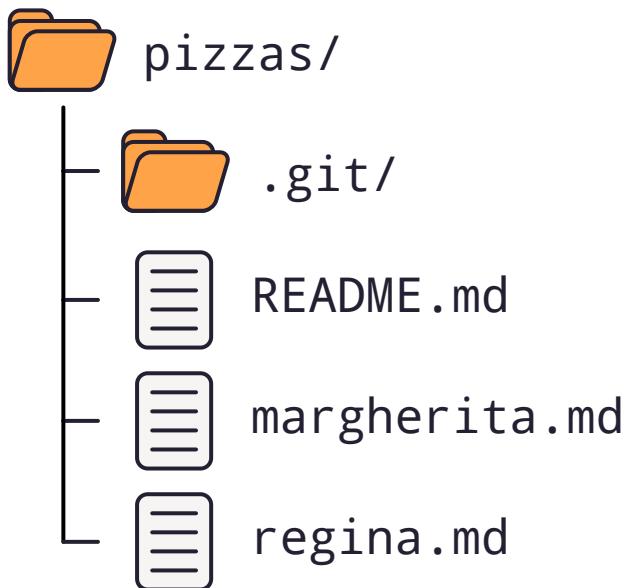
# Regina  
This audacious pizza  
would be named from queen  
Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.

Base: tomato sauce  
Topping:  
- Mozzarella  
- Ham  
- Mushrooms



# The Pizzas Repository

## Crafting your First Commits



### README.md

Collect and distribute the best pizzas recipes.  
Where to find the pizzas in the project:

- \_\_Margherita\_\_: `./margherita.md`
- \_\_Regina\_\_: `./regina.md`

### margherita.md

# Margherita  
  
The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.

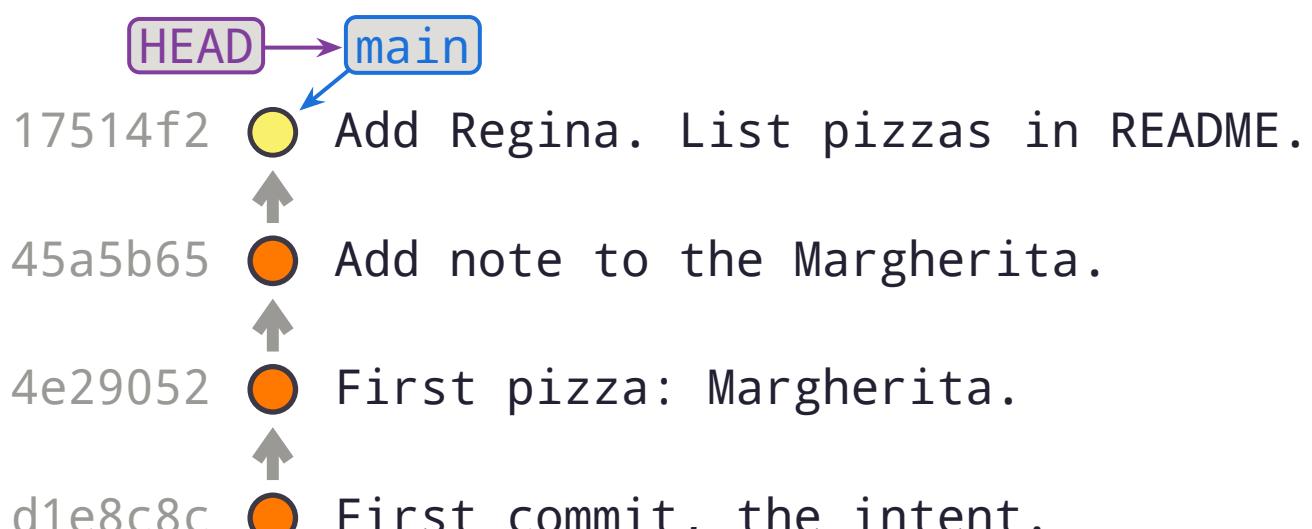
\_\_Base:\_\_ tomato sauce  
\_\_Topping:  
- Mozzarella

\*Note:  
It is said that this pizza  
has only three ingredients  
corresponding to the three colors  
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Nevertheless, it is always good  
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olive oil, salt, or oregano.  
- Basil

### regina.md

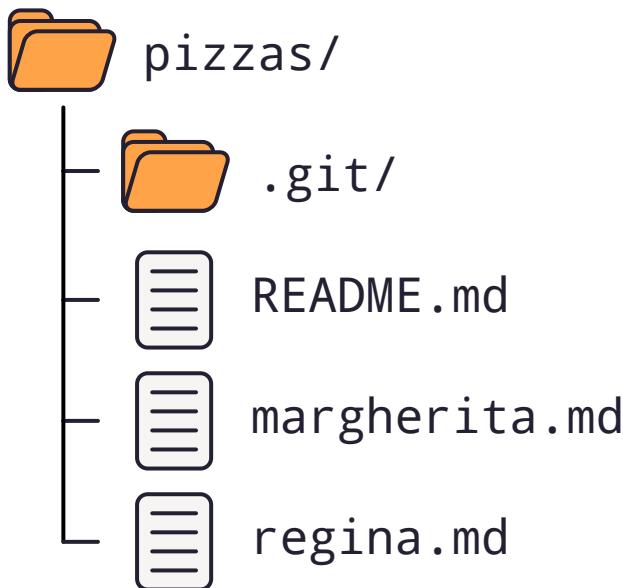
# Regina  
  
This audacious pizza  
would be named from queen  
Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.

\_\_Base:\_\_ tomato sauce  
\_\_Topping:  
- Mozzarella  
- Ham  
- Mushrooms



# The Pizzas Repository

## Crafting your First Commits



### README.md

Collect and distribute the best pizzas recipes.  
Where to find the pizzas in the project:

- Margherita: `./margherita.md`
- Regina: `./regina.md`

### margherita.md

# Margherita  
  
The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.

Base: tomato sauce  
Topping:  
- Mozzarella

\*Note:  
It is said that this pizza  
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on the Italian flag.  
Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.  
- Basil

```
$ git checkout 45a5b65
```

HEAD → main

17514f2 ⚡ Add Regina. List pizzas in README.  
45a5b65 ⚡ Add note to the Margherita.  
4e29052 ⚡ First pizza: Margherita.  
d1e8c8c ⚡ First commit, the intent.

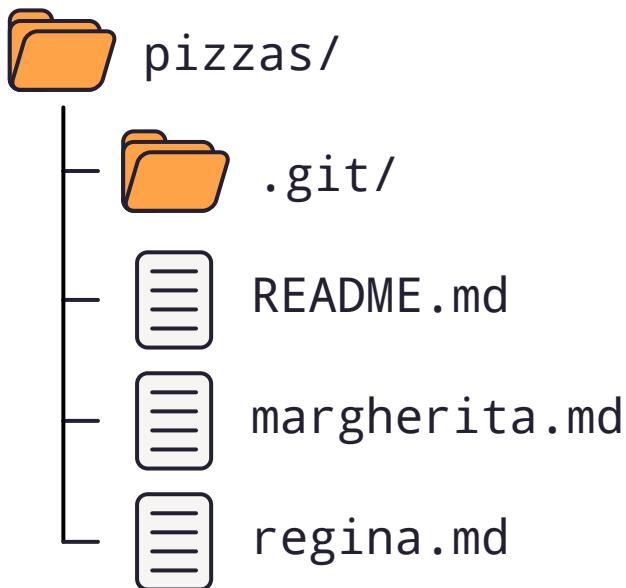
### regina.md

# Regina  
  
This audacious pizza  
would be named from queen  
Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.

Base: tomato sauce  
Topping:  
- Mozzarella  
- Ham  
- Mushrooms

# The Pizzas Repository

## Crafting your First Commits



### README.md

Collect and distribute the best pizzas recipes.  
Where to find the pizzas in the project:

- Margherita: `./margherita.md`
- Regina: `./regina.md`

### margherita.md

# Margherita  
  
The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.

Base: tomato sauce  
Topping:  
- Mozzarella

\*Note:  
It is said that this pizza  
has only three ingredients  
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on the Italian flag.  
Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.  
- Basil

```
$ git checkout 45a5b65
```



17514f2 (Yellow circle) Add Regina. List pizzas in README.  
45a5b65 (Orange circle) Add note to the Margherita.  
4e29052 (Orange circle) First pizza: Margherita.  
d1e8c8c (Orange circle) First commit, the intent.

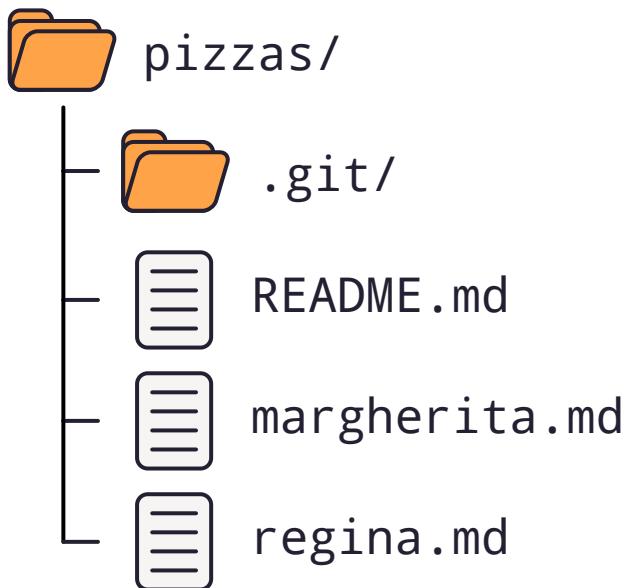
### regina.md

# Regina  
  
This audacious pizza  
would be named from queen  
Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.

Base: tomato sauce  
Topping:  
- Mozzarella  
- Ham  
- Mushrooms

# The Pizzas Repository

## Crafting your First Commits



### README.md

Collect and distribute the best pizzas recipes.  
Where to find the pizzas in the project:

- Margherita: `./margherita.md`
- Regina: `./regina.md`

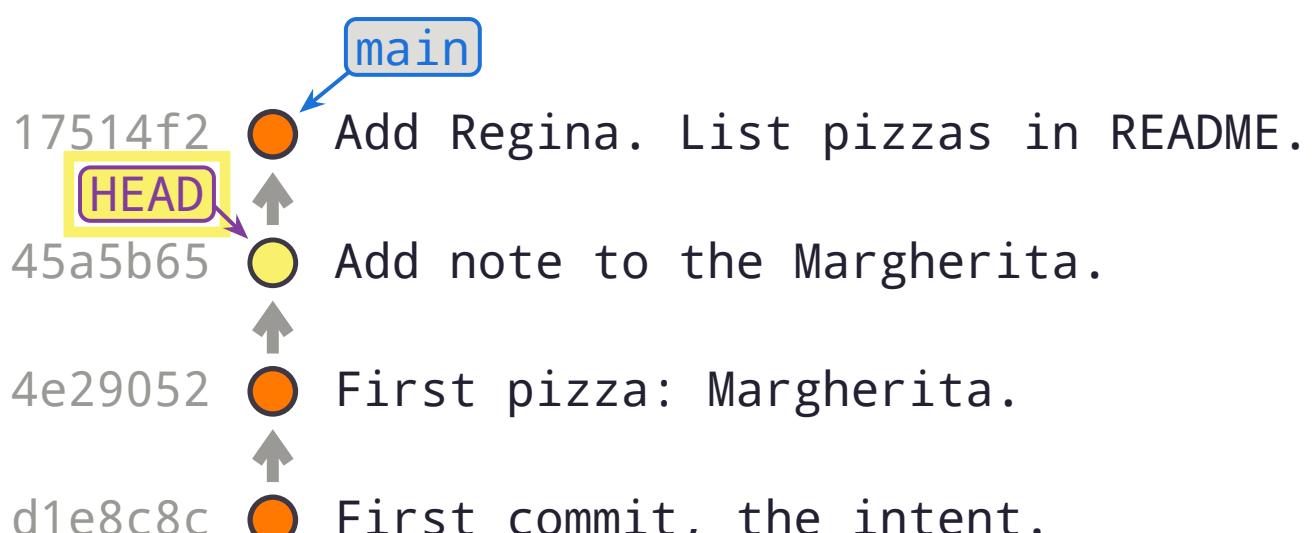
### margherita.md

# Margherita  
  
The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.

Base: tomato sauce  
Topping:  
- Mozzarella

\*Note:  
It is said that this pizza  
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corresponding to the three colors  
on the Italian flag.  
Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.  
- Basil

```
$ git checkout 45a5b65
```



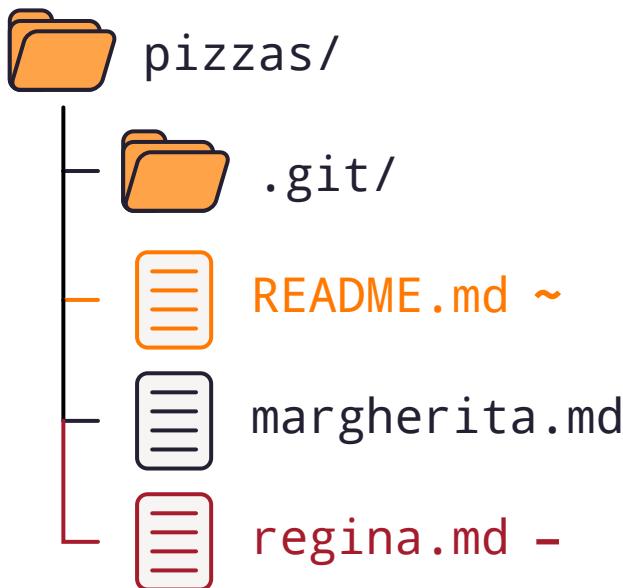
### regina.md

# Regina  
  
This audacious pizza  
would be named from queen  
Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.

Base: tomato sauce  
Topping:  
- Mozzarella  
- Ham  
- Mushrooms

# The Pizzas Repository

## Crafting your First Commits



### ~ README.md

Collect and distribute the best pizzas recipes.  
Where to find the pizzas in the project:  
- Margherita: `./margherita.md`  
- Regina: `./regina.md`

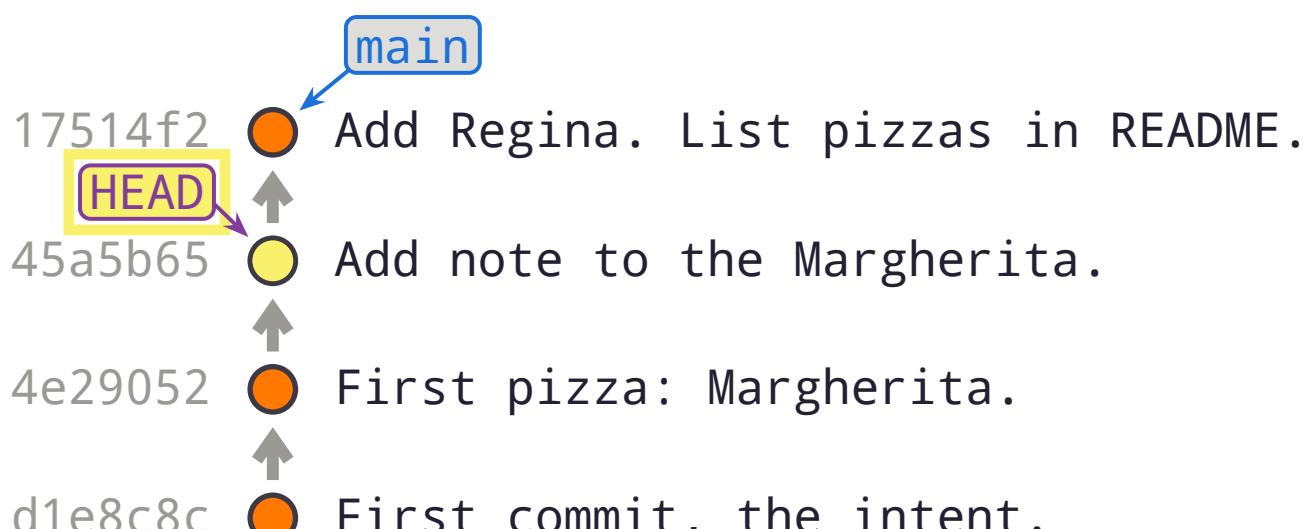
### margherita.md

# Margherita  
The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.

Base: tomato sauce  
Topping:  
- Mozzarella

\*Note:\*  
It is said that this pizza  
has only three ingredients  
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and \*authorized\* to add  
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- Basil

```
$ git checkout 45a5b65
```



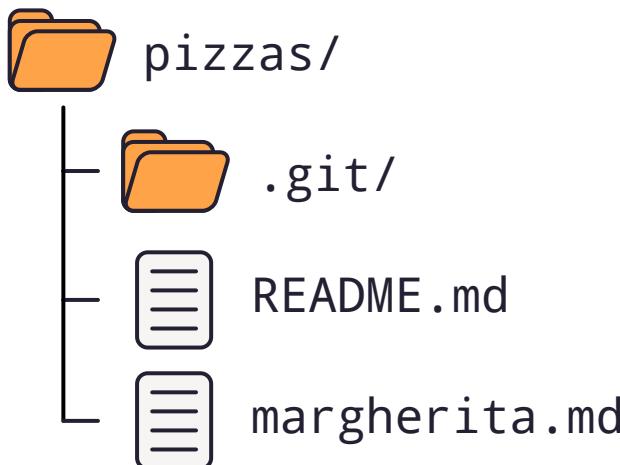
### - regina.md

# Regina  
This audacious pizza  
would be named from queen  
Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.

Base: tomato sauce  
Topping:  
- Mozzarella  
- Ham  
- Mushrooms

# The Pizzas Repository

## Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

margherita.md

# Margherita

The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.

Base: tomato sauce

Topping:

- Mozzarella

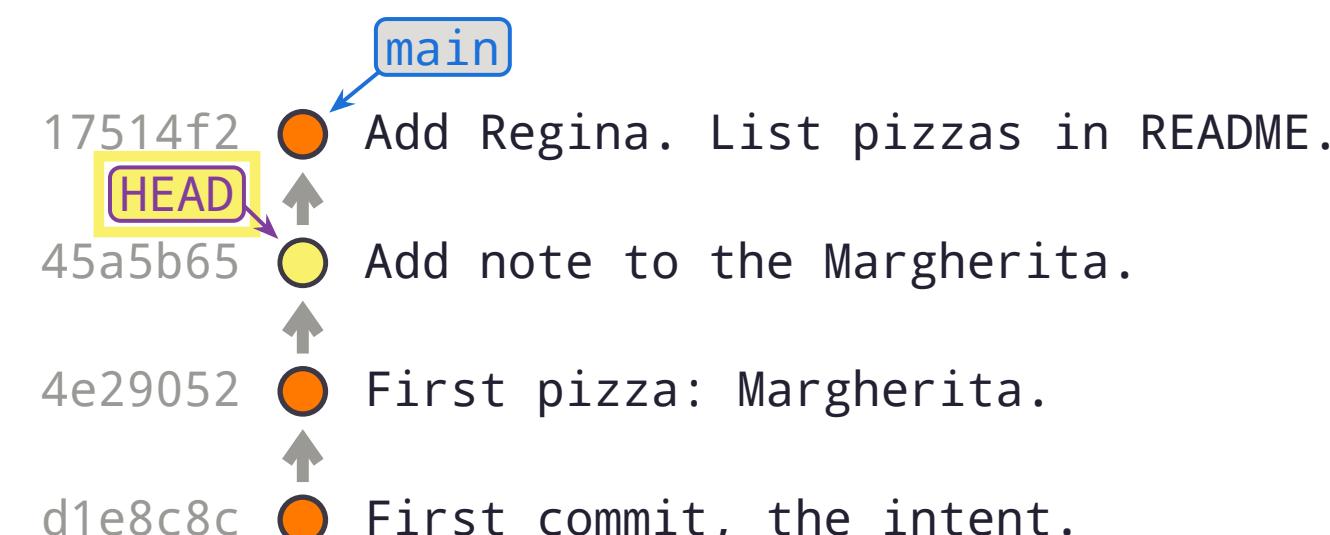
\*Note:\*

It is said that this pizza  
has only three ingredients  
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on the Italian flag.

Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.

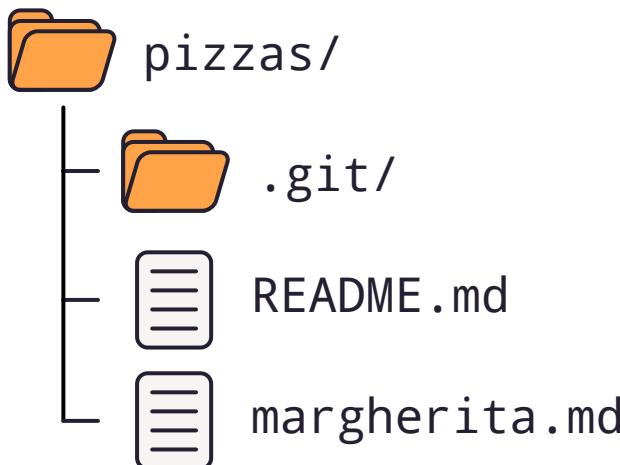
- Basil

```
$ git checkout 45a5b65
```



# The Pizzas Repository

## Crafting your First Commits



### README.md

Collect and distribute the best pizzas recipes.

### margherita.md

# Margherita

The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.

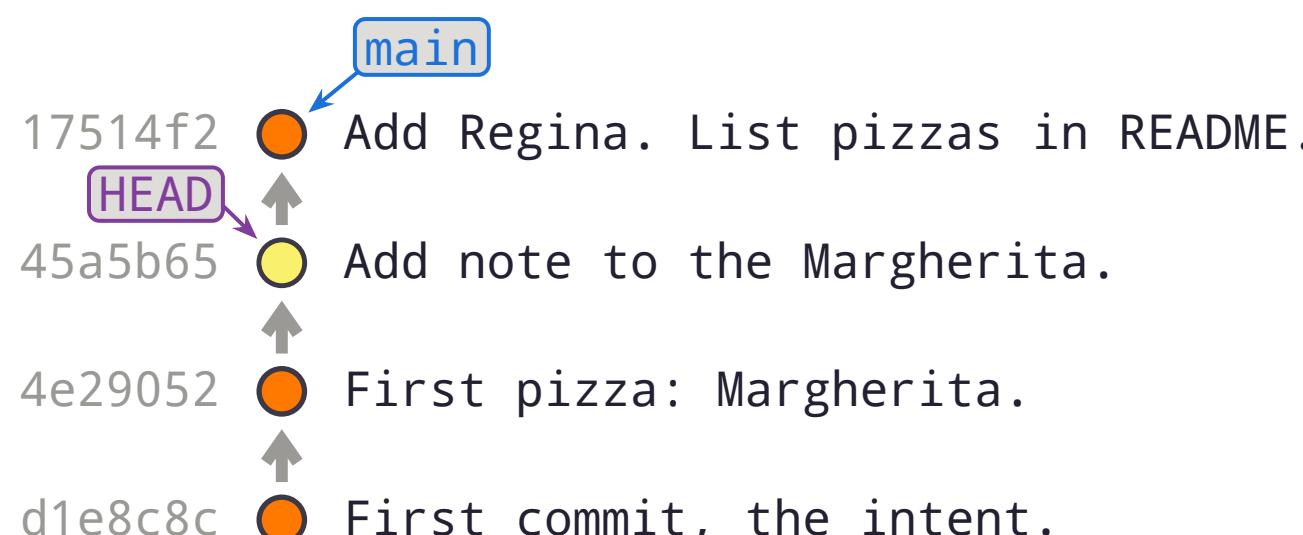
Base: tomato sauce

Topping:

- Mozzarella

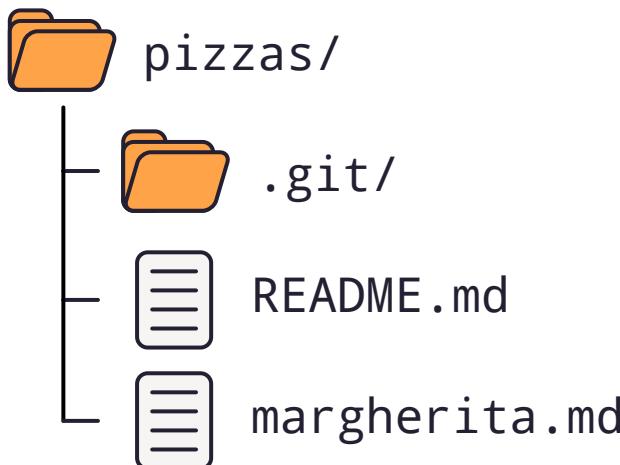
\*Note:\*

It is said that this pizza  
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- Basil



# The Pizzas Repository

## Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

margherita.md

# Margherita

The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.

Base: tomato sauce

Topping:

- Mozzarella

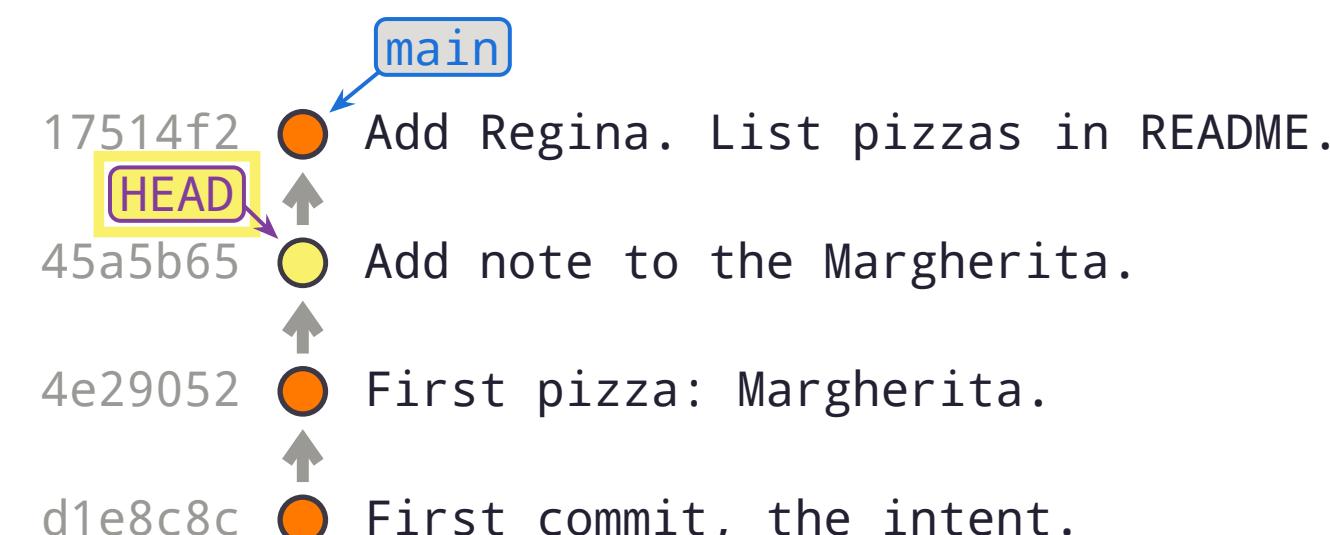
\*Note:\*

It is said that this pizza  
has only three ingredients  
corresponding to the three colors  
on the Italian flag.

Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.

- Basil

```
$ git checkout d1e8c8c
```



# The Pizzas Repository

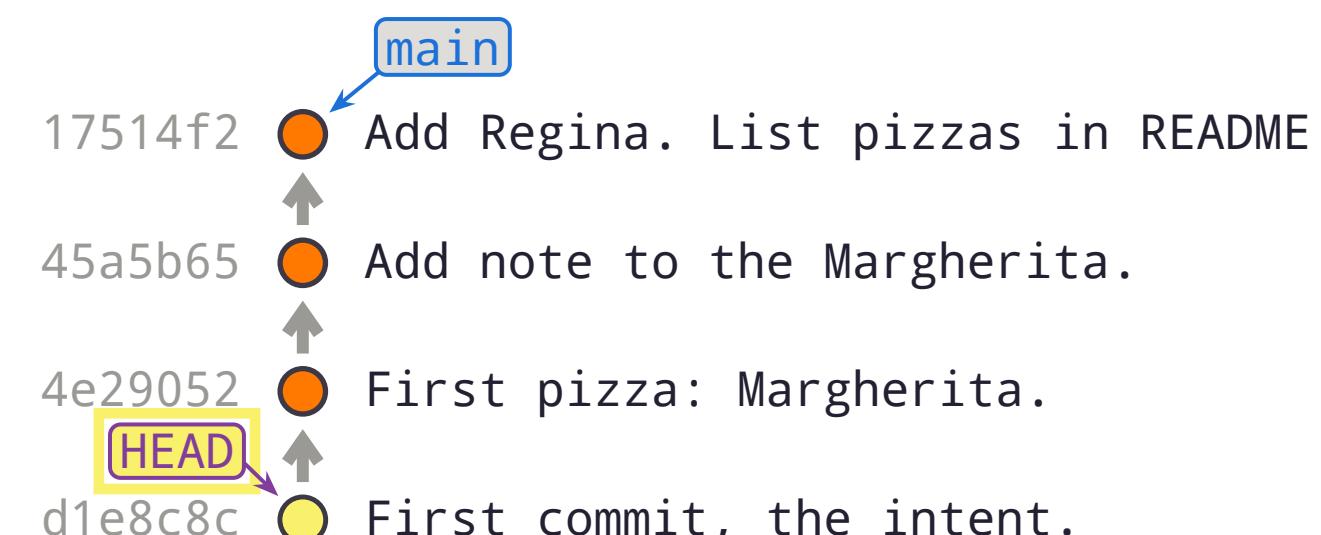
## Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

```
$ git checkout d1e8c8c
```



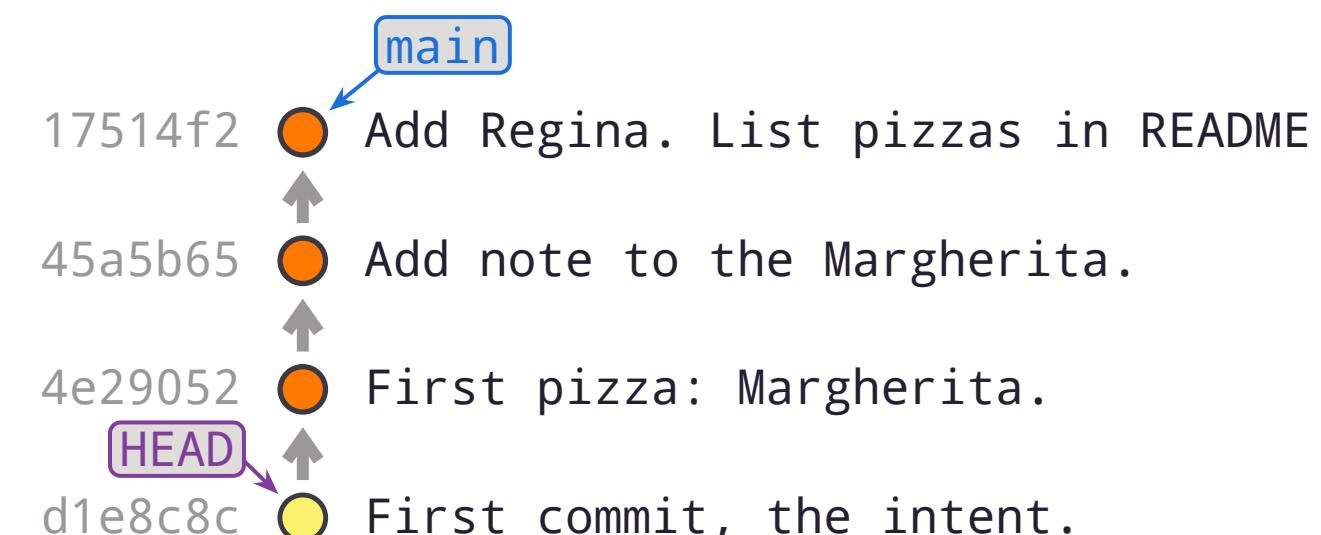
# The Pizzas Repository

Crafting your First Commits



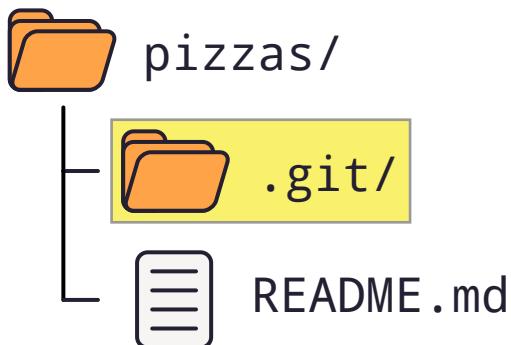
README.md

Collect and distribute the best pizzas recipes.



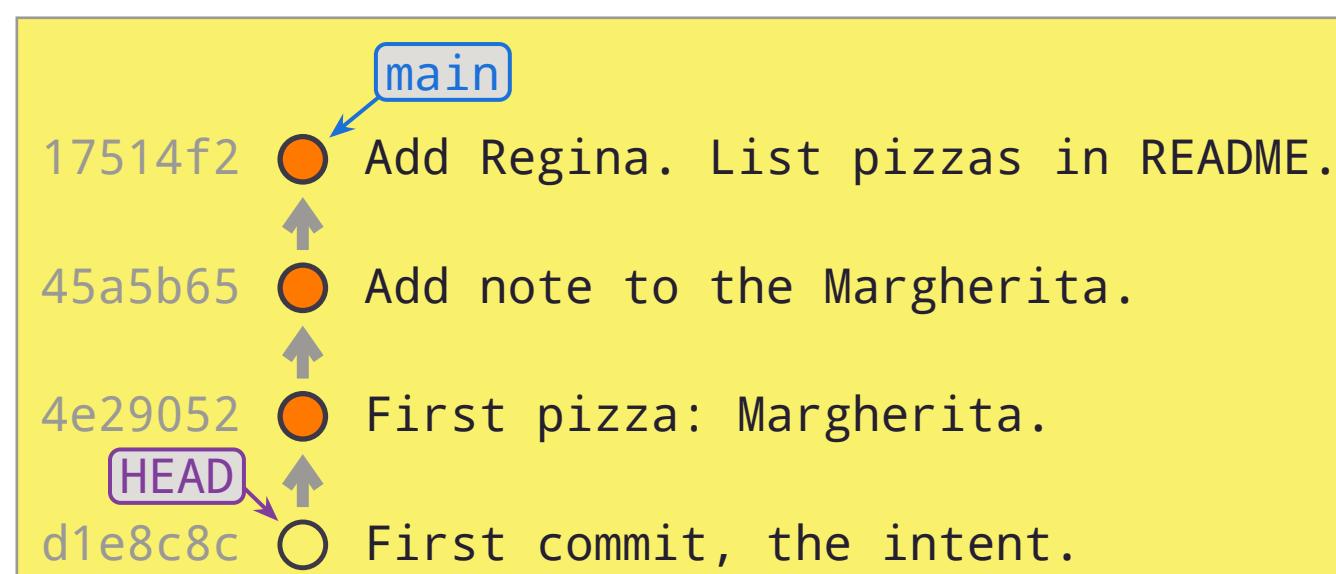
# The Pizzas Repository

## Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.



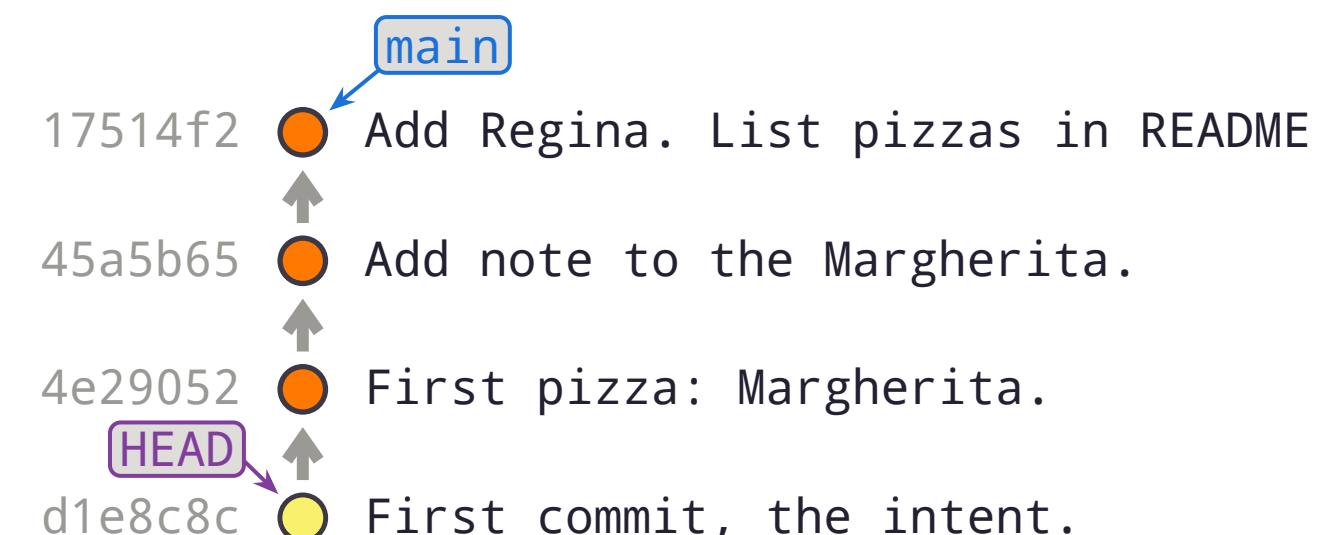
# The Pizzas Repository

Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.



# The Pizzas Repository

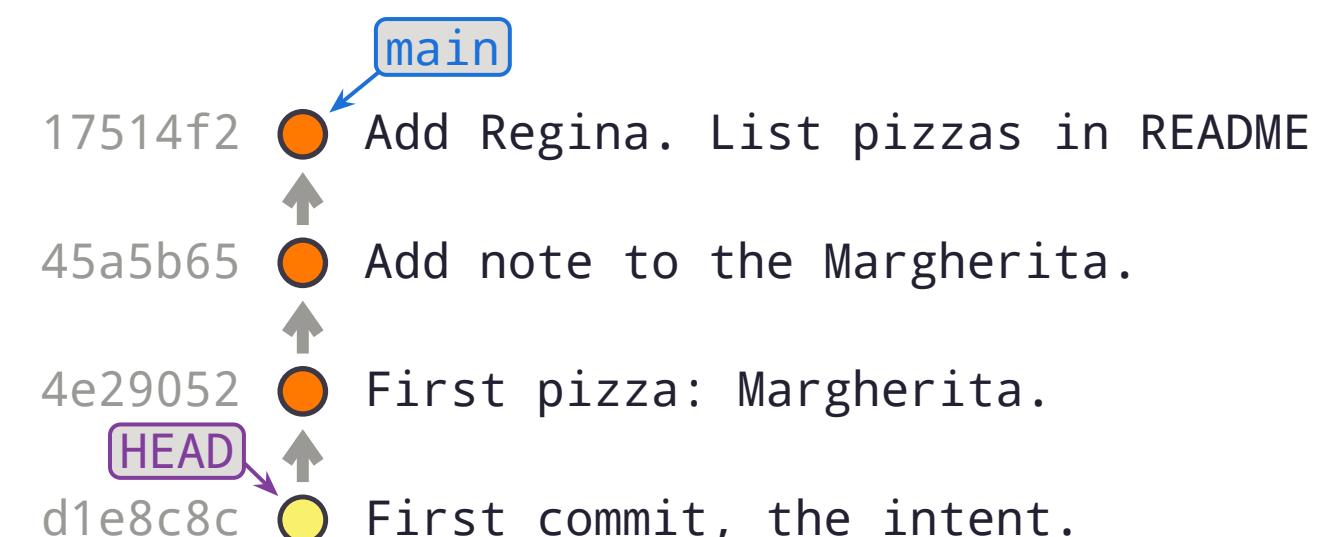
Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

```
$ git checkout 17514f2
```



# The Pizzas Repository

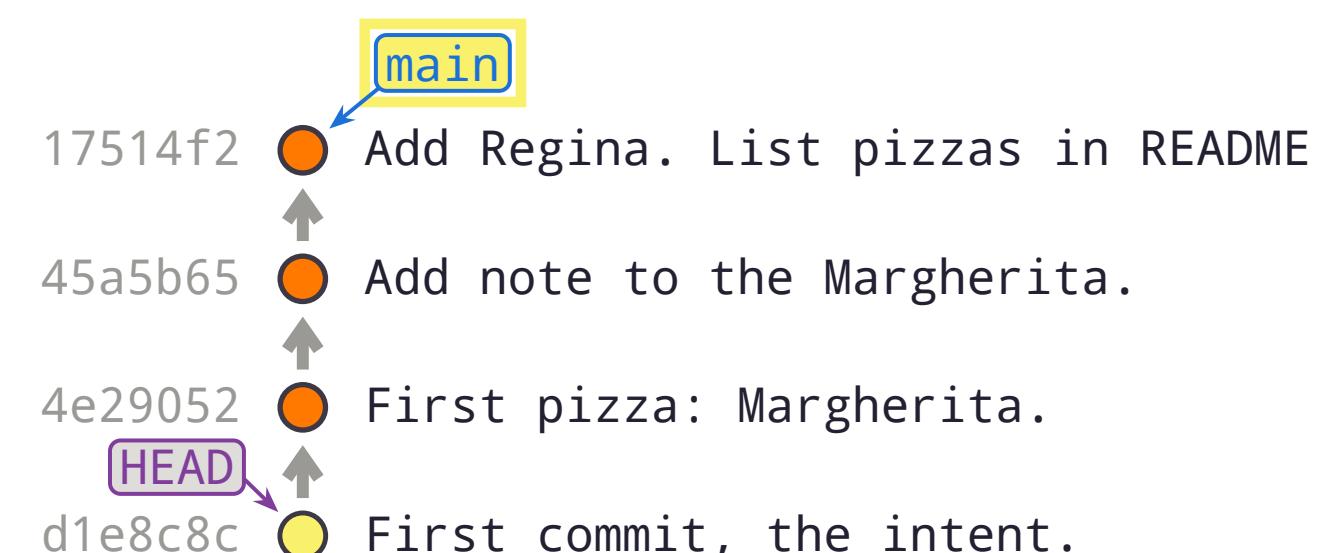
Crafting your First Commits



README.md

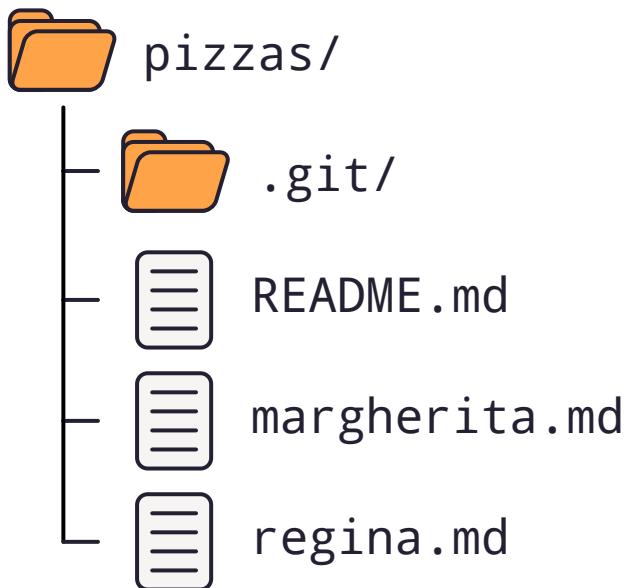
Collect and distribute the best pizzas recipes.

```
$ git checkout main
```



# The Pizzas Repository

## Crafting your First Commits



```
$ git checkout main
```

### README.md

Collect and distribute the best pizzas recipes.  
Where to find the pizzas in the project:

- \_\_Margherita\_\_: `./margherita.md`
- \_\_Regina\_\_: `./regina.md`

### margherita.md

#### # Margherita

The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.

\_\_Base\_\_: tomato sauce  
\_\_Topping\_\_:  
- Mozzarella

#### \*Note:\*

It is said that this pizza  
has only three ingredients  
corresponding to the three colors  
on the Italian flag.  
Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.  
- Basil

### regina.md

#### # Regina

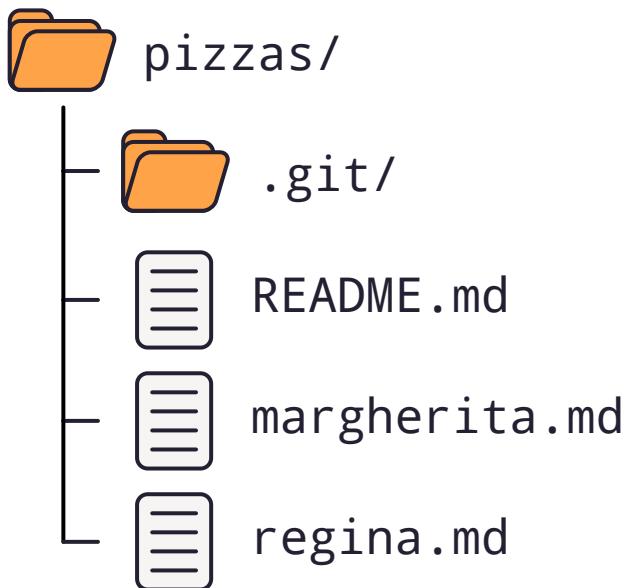
This audacious pizza  
would be named from queen  
Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.

\_\_Base\_\_: tomato sauce  
\_\_Topping\_\_:  
- Mozzarella  
- Ham  
- Mushrooms

HEAD → main  
17514f2 ⚡ Add Regina. List pizzas in README.  
45a5b65 ⚡ Add note to the Margherita.  
4e29052 ⚡ First pizza: Margherita.  
d1e8c8c ⚡ First commit, the intent.

# The Pizzas Repository

## Crafting your First Commits



### README.md

Collect and distribute the best pizzas recipes.  
Where to find the pizzas in the project:

- Margherita: `./margherita.md`
- Regina: `./regina.md`

### margherita.md

# Margherita  
  
The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.

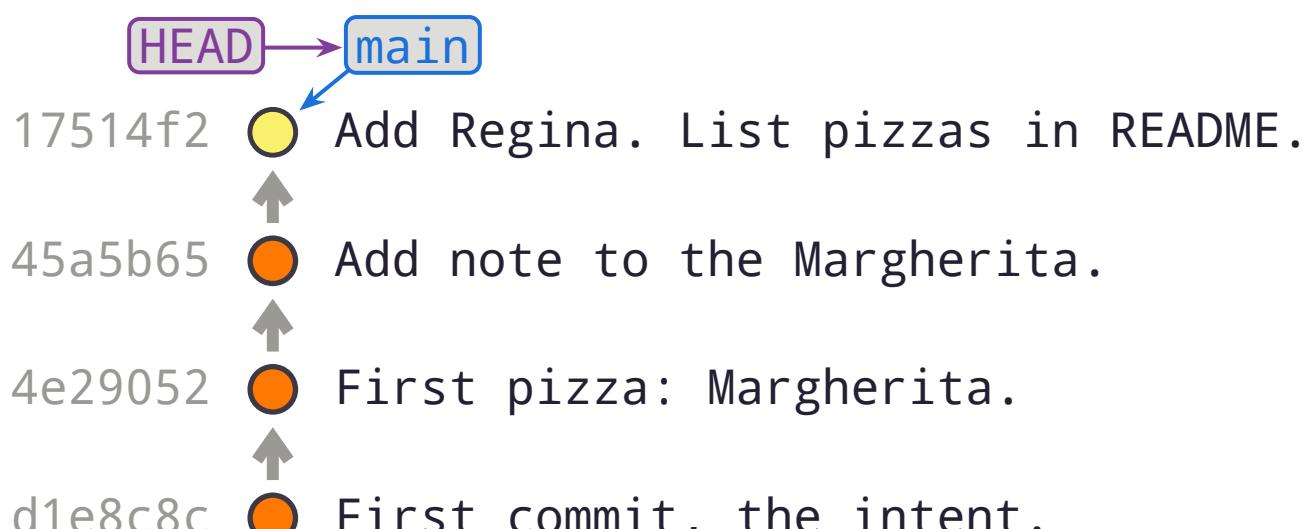
Base: tomato sauce  
Topping:  
- Mozzarella

\*Note:  
It is said that this pizza  
has only three ingredients  
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Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.  
- Basil

### regina.md

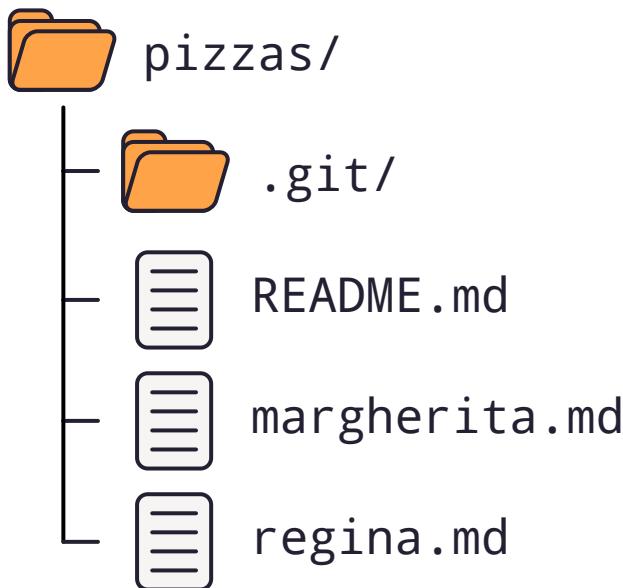
# Regina  
  
This audacious pizza  
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Created by pizzaiolo  
Raffaele Esposito.

Base: tomato sauce  
Topping:  
- Mozzarella  
- Ham  
- Mushrooms



# The Pizzas Repository

## Crafting your First Commits



### README.md

Collect and distribute the best pizzas recipes.  
Where to find the pizzas in the project:

- Margherita: `./margherita.md`
- Regina: `./regina.md`

### margherita.md

# Margherita  
The simplest and most famous,  
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Base: tomato sauce  
Topping:  
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### regina.md

# Regina  
This audacious pizza  
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Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.

Base: tomato sauce  
Topping:  
- Mozzarella  
- Ham  
- Mushrooms

HEAD → main  
17514f2 ⚡ Add Regina. List pizzas in README.  
45a5b65 ⚡ Add note to the Margherita.  
4e29052 ⚡ First pizza: Margherita.  
d1e8c8c ⚡ First commit, the intent.

# How to Make a Commit

---

# Constructing a Commit

The Whole Process

???????

Next commit.



a03a2bb

One commit.

# Constructing a Commit

The Whole Process

???????

Next commit.



a03a2bb

One commit.

in Commit



README.md



margherita.md

# Constructing a Commit

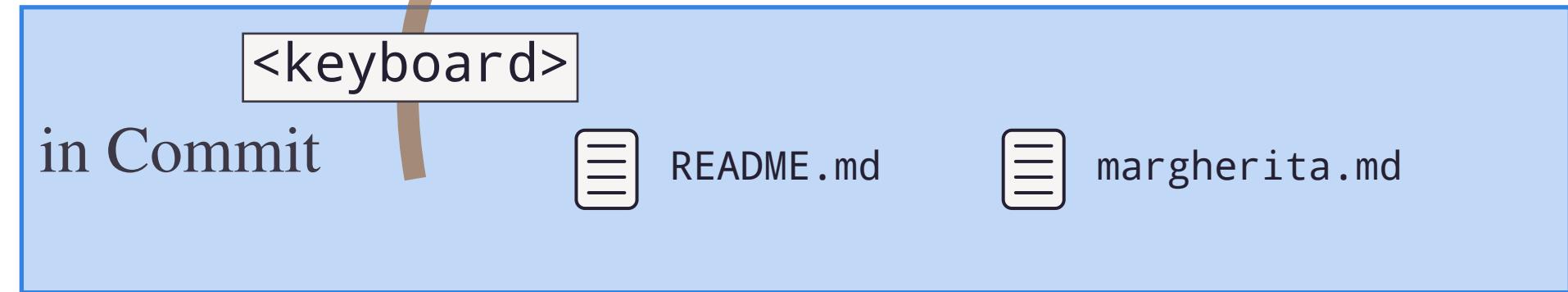
The Whole Process

???????

Next commit.

a03a2bb

One commit.



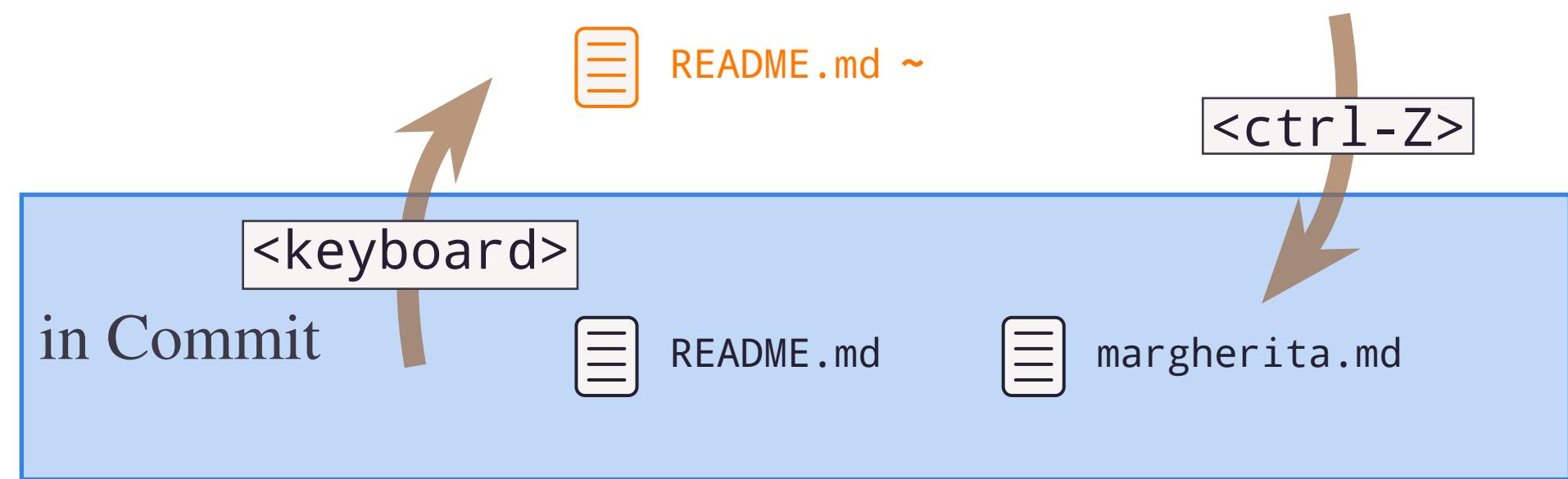
# Constructing a Commit

The Whole Process

???????

● Next commit.

a03a2bb ● One commit.

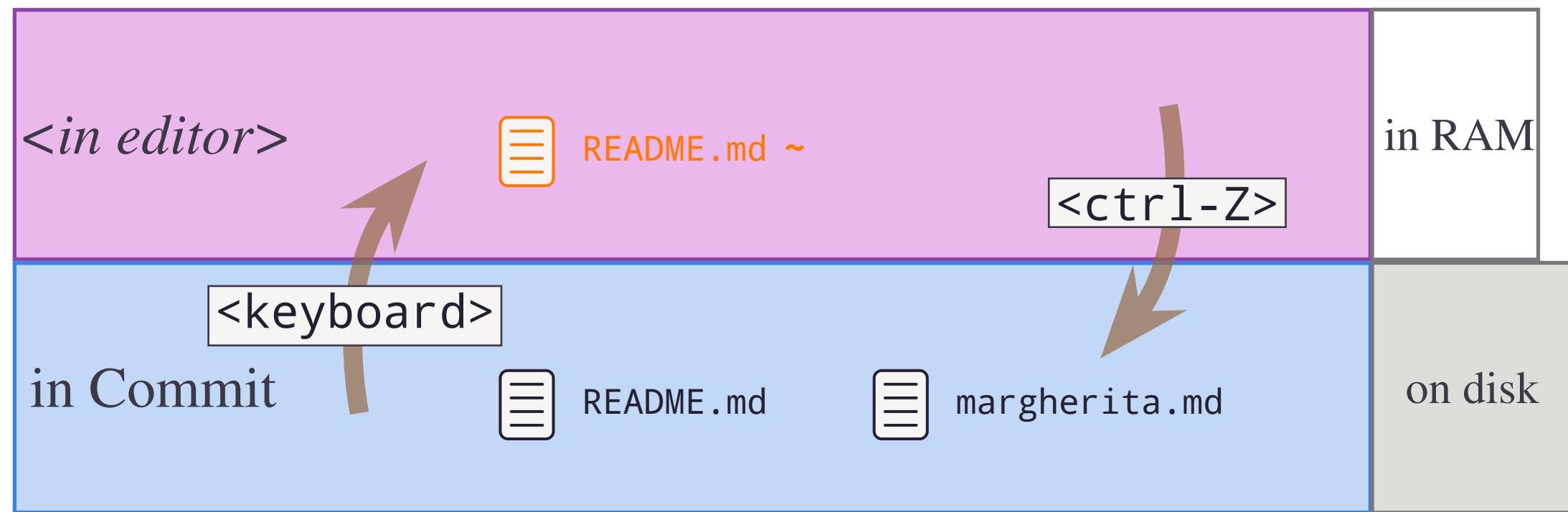


# Constructing a Commit

The Whole Process

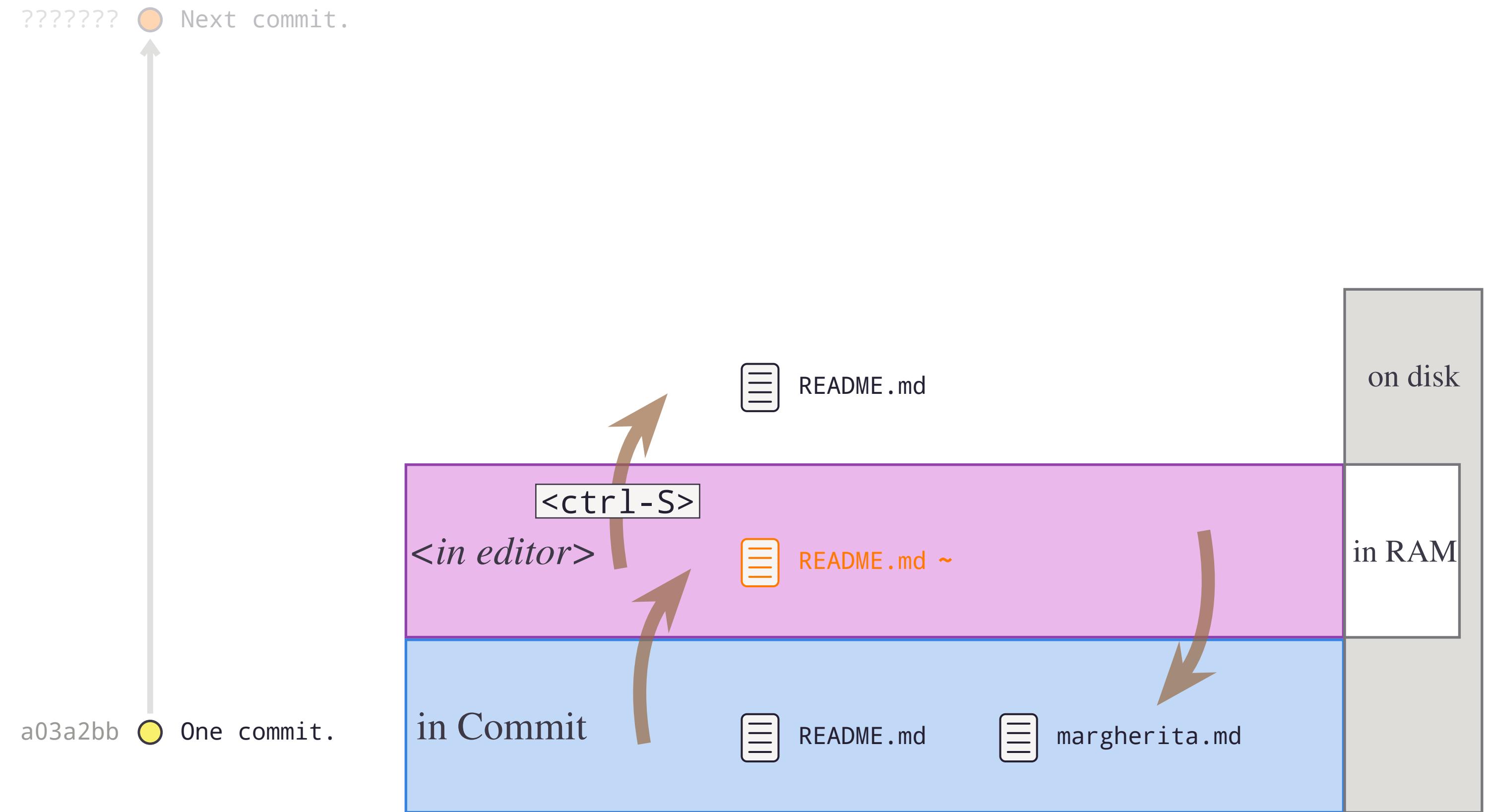
??????  Next commit.

a03a2bb  One commit.



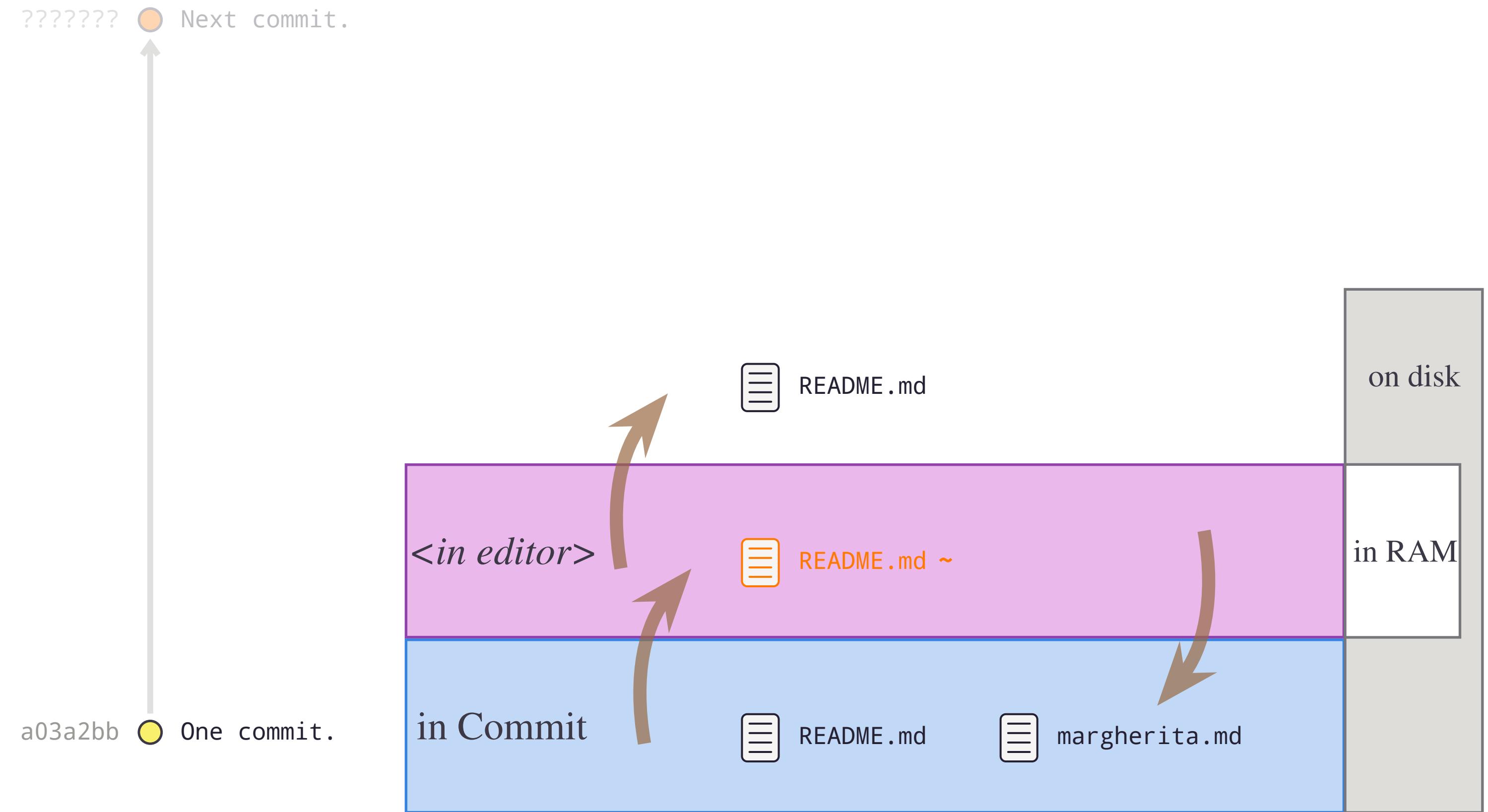
# Constructing a Commit

The Whole Process



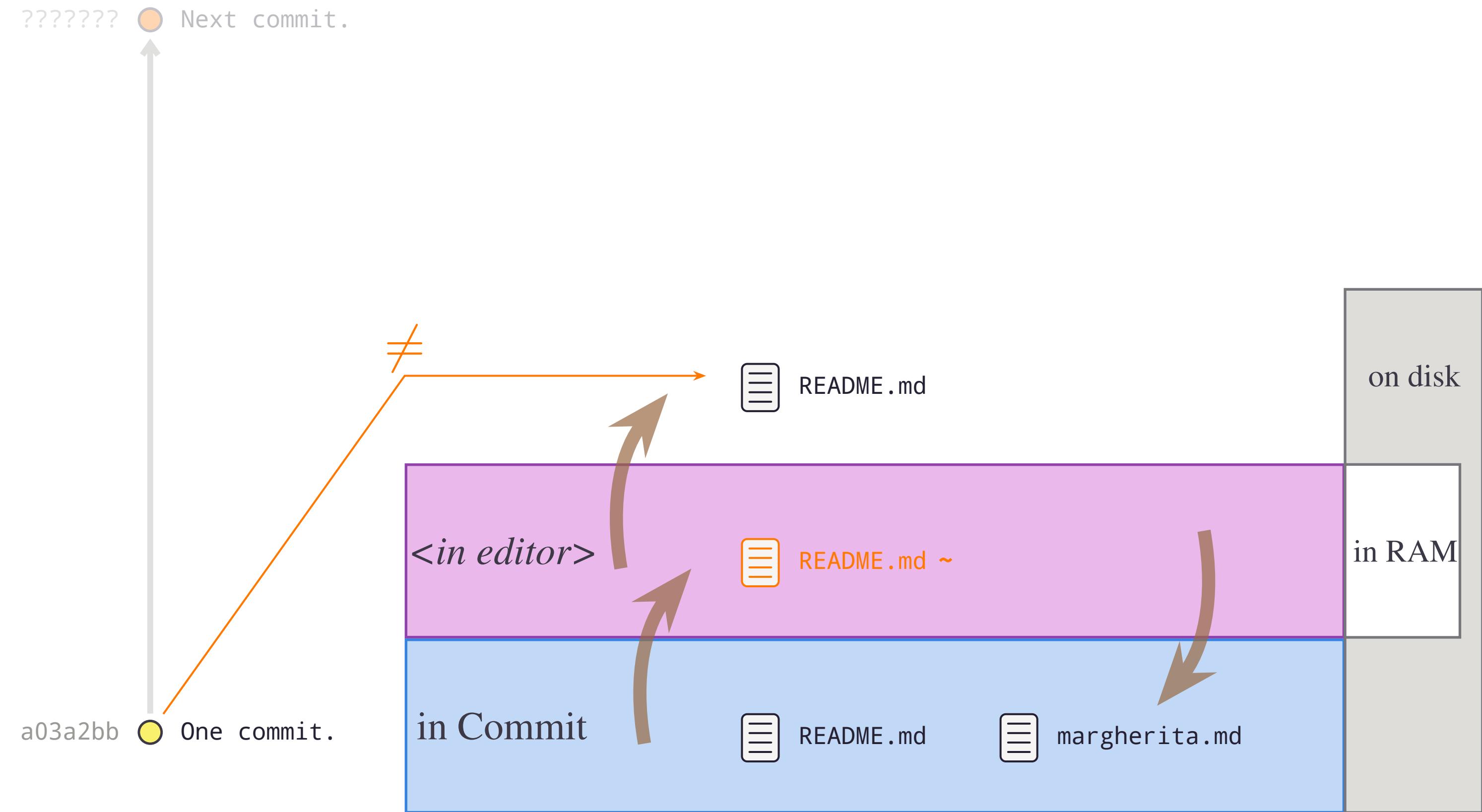
# Constructing a Commit

The Whole Process



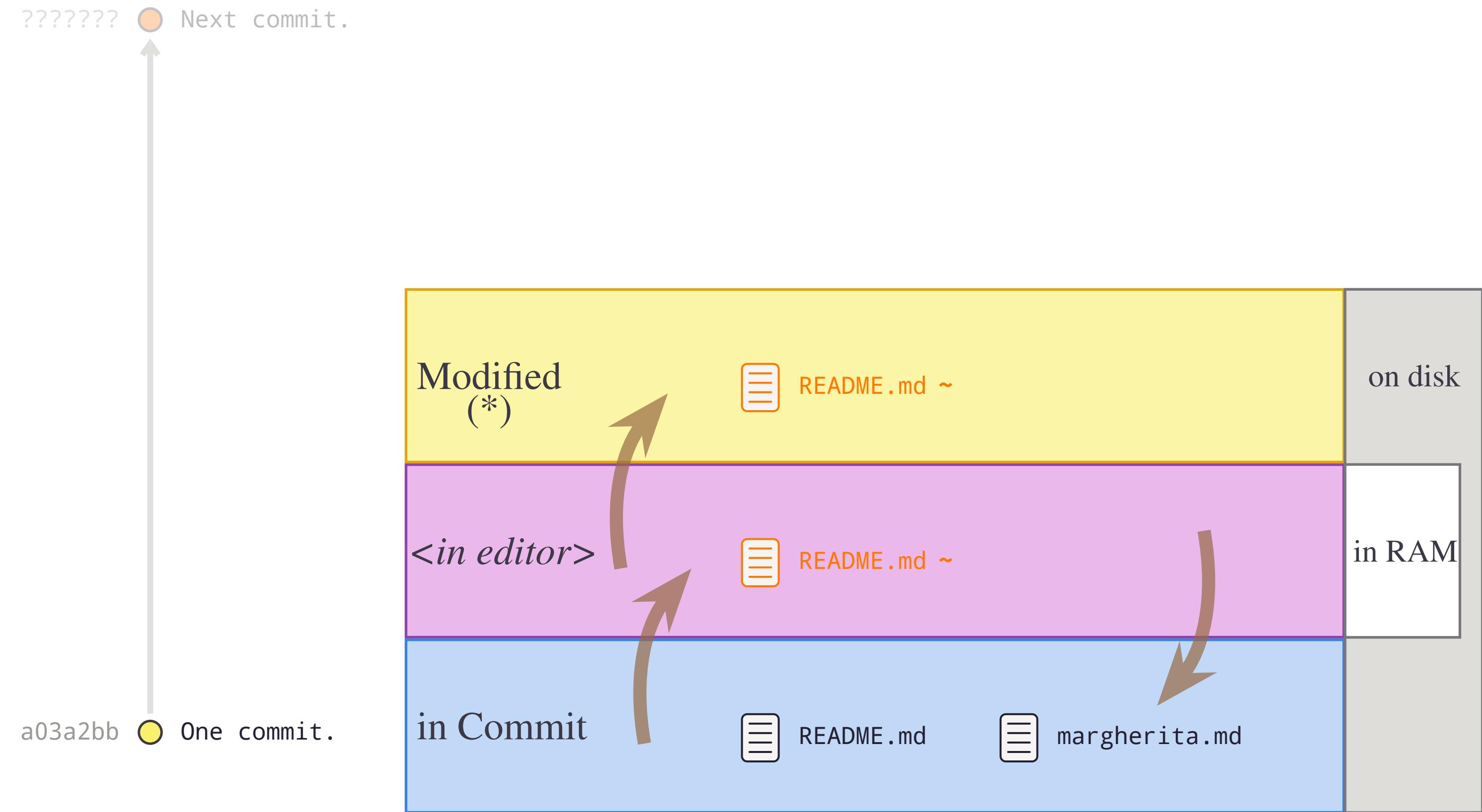
# Constructing a Commit

The Whole Process



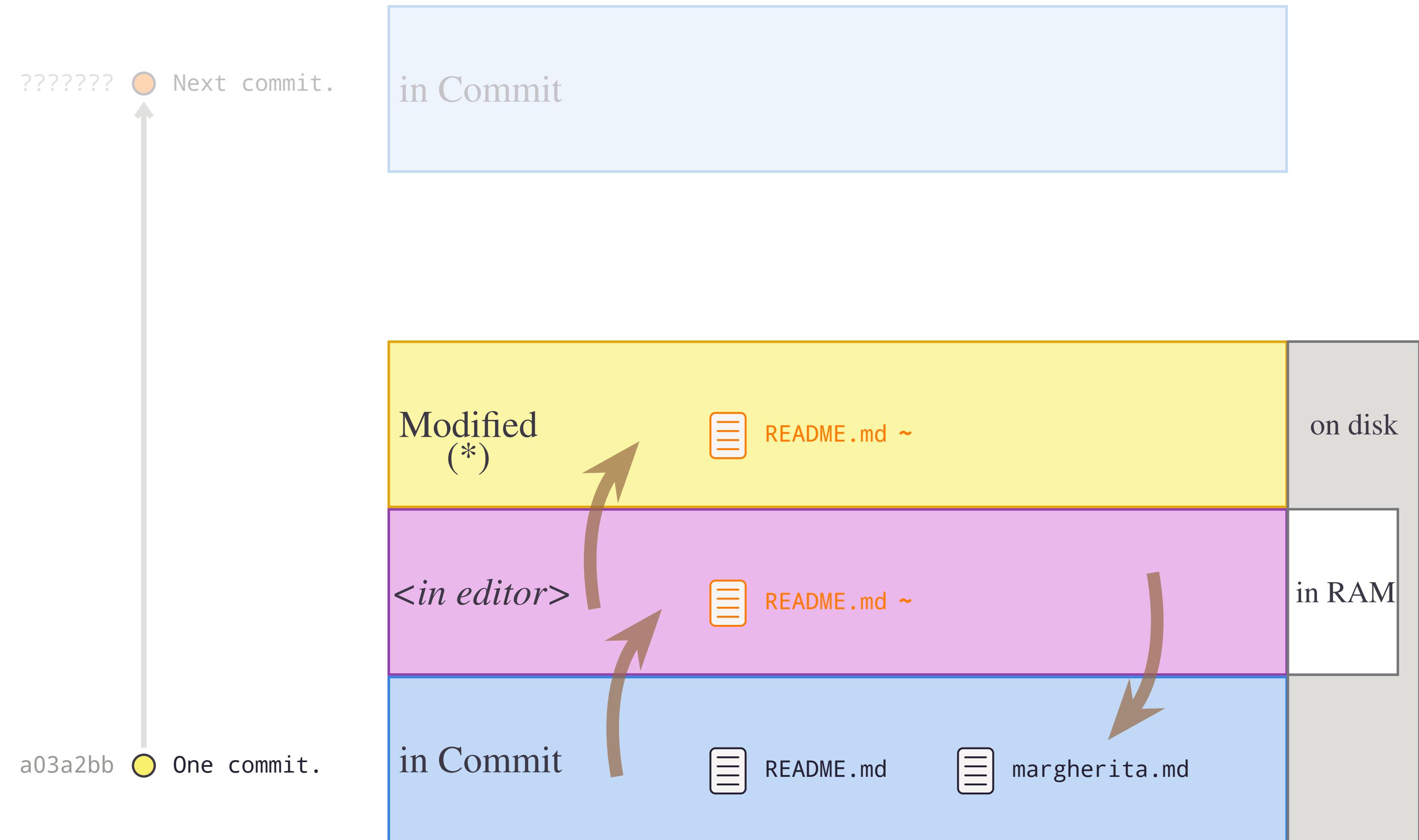
# Constructing a Commit

The Whole Process



# Constructing a Commit

The Whole Process



# Constructing a Commit

The Whole Process

???????

● Next commit.

in Commit

\$ git commit



Modified  
(\*)



README.md ~

<in editor>



README.md ~

in Commit



README.md



margherita.md

on disk

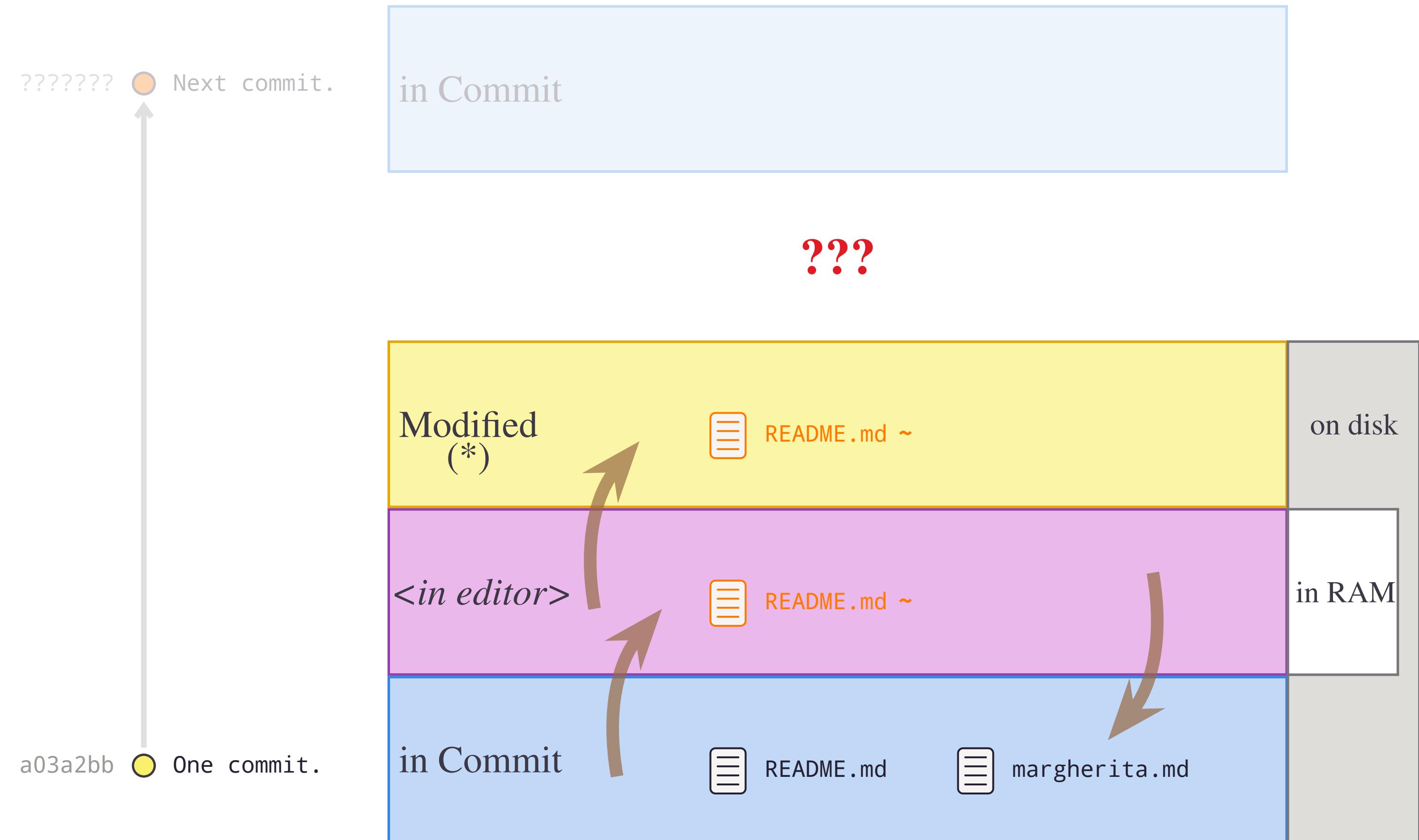
in RAM

a03a2bb

● One commit.

# Constructing a Commit

The Whole Process



# Constructing a Commit

The Whole Process

???????

● Next commit.

in Commit

Modified  
(\*)

README.md ~

<in editor>

README.md ~

in Commit

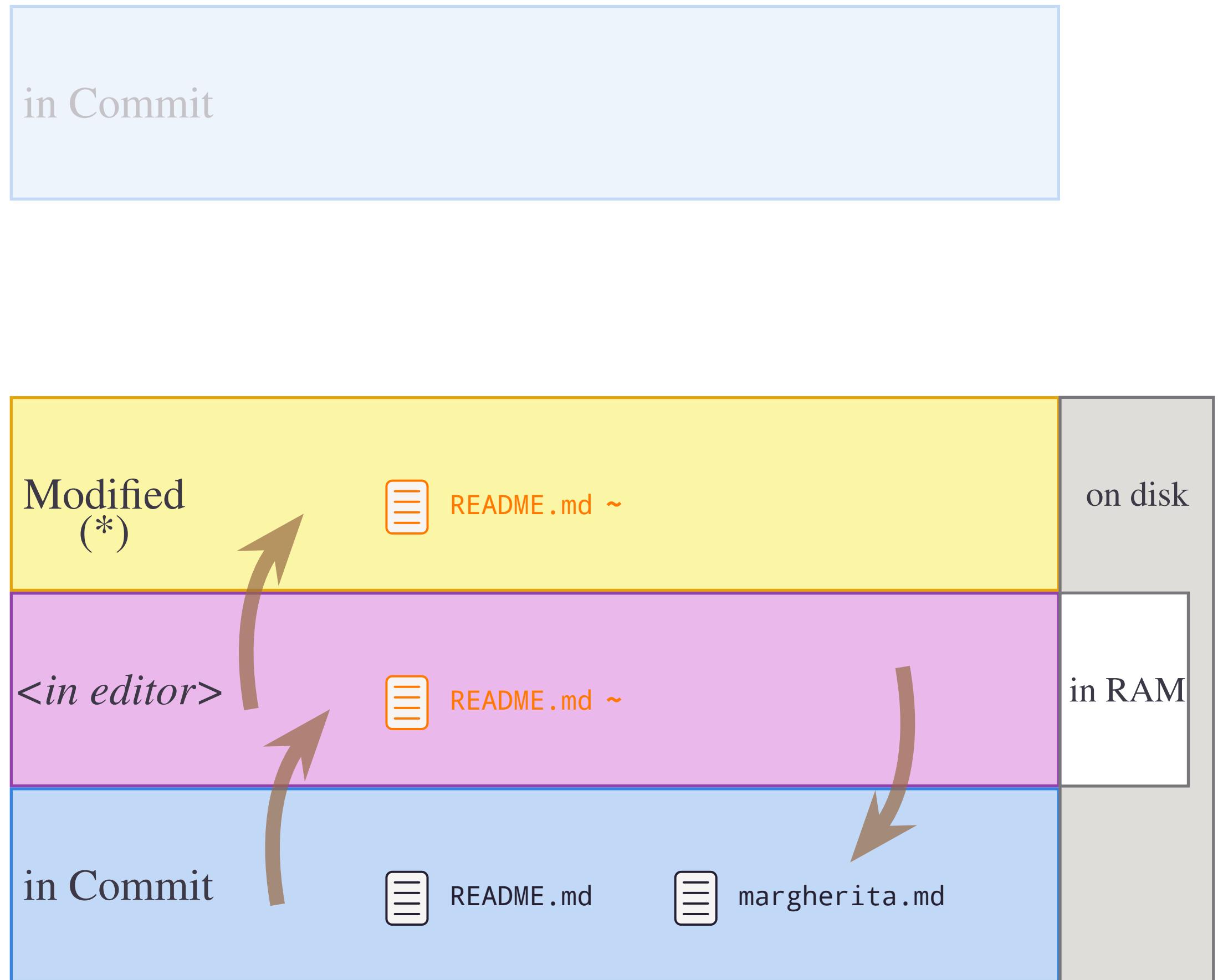
README.md

README.md  
margherita.md

on disk

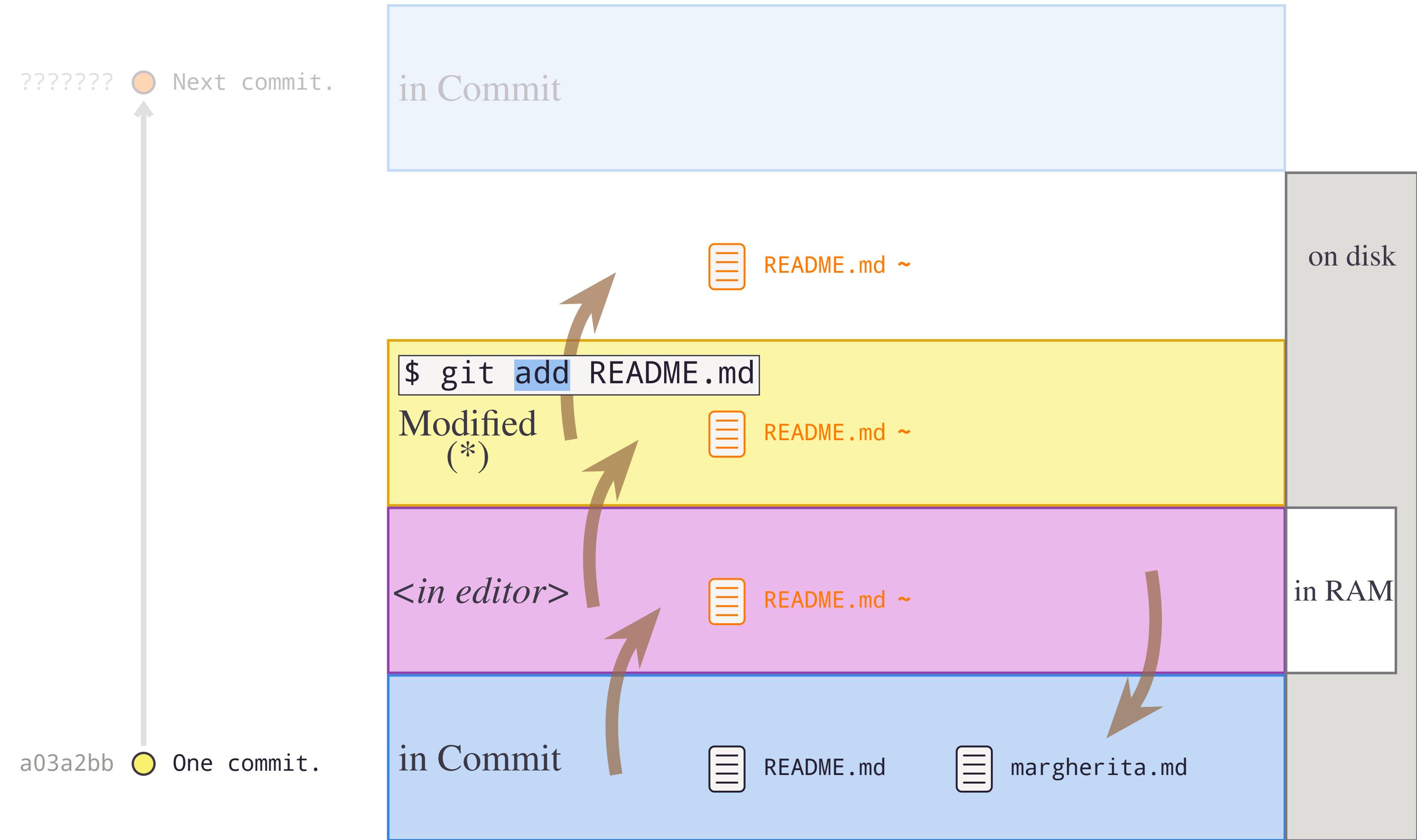
in RAM

a03a2bb ● One commit.



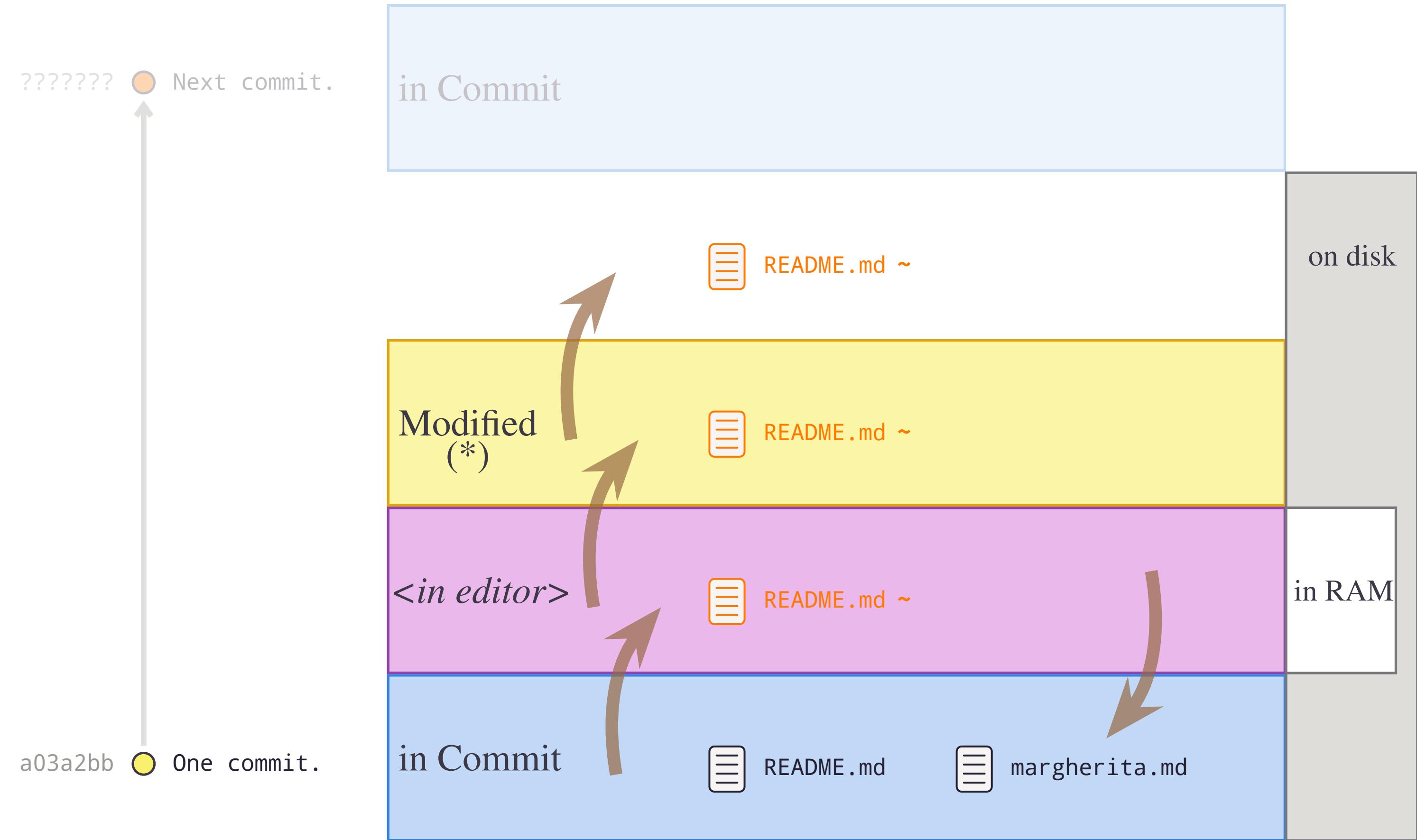
# Constructing a Commit

The Whole Process



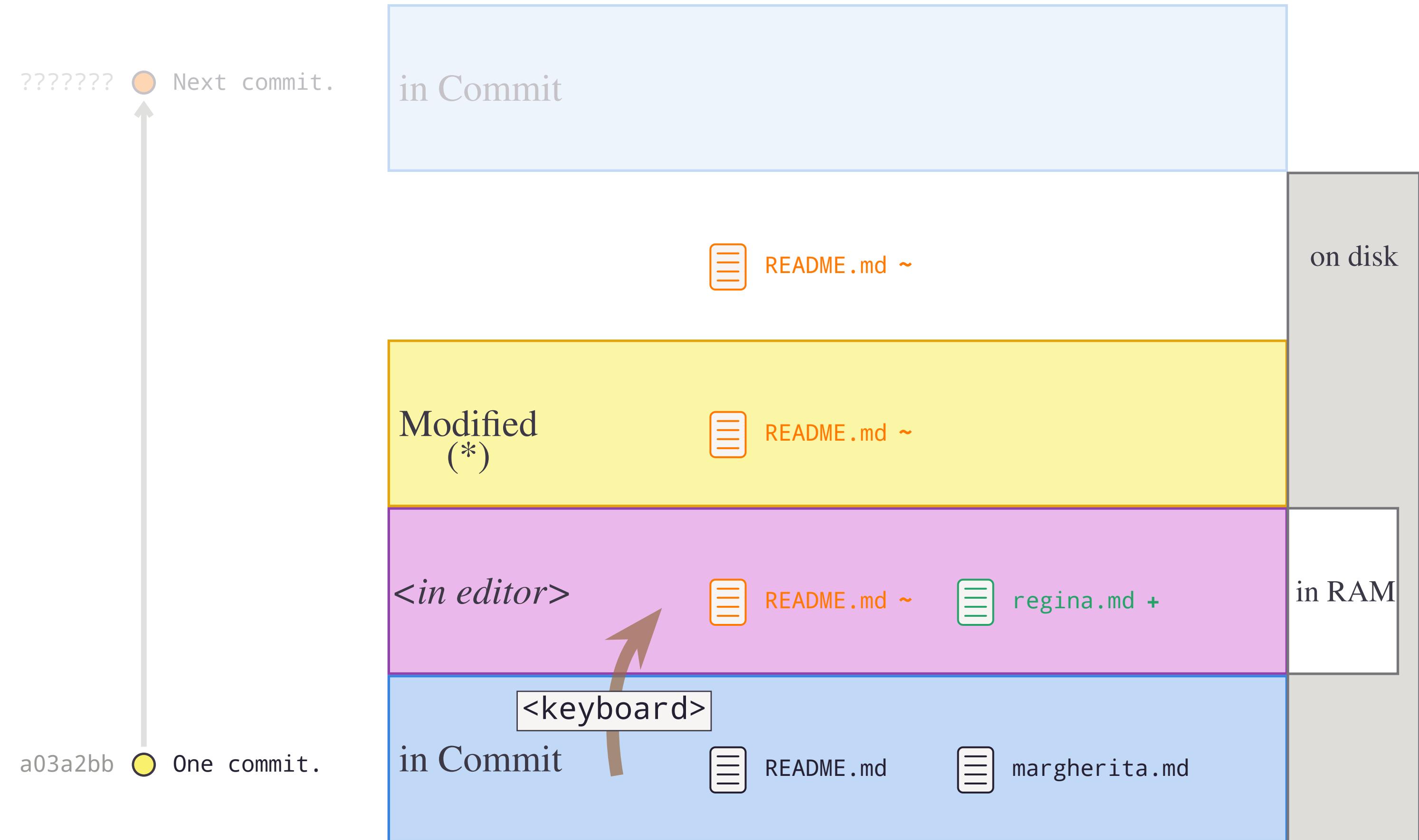
# Constructing a Commit

The Whole Process



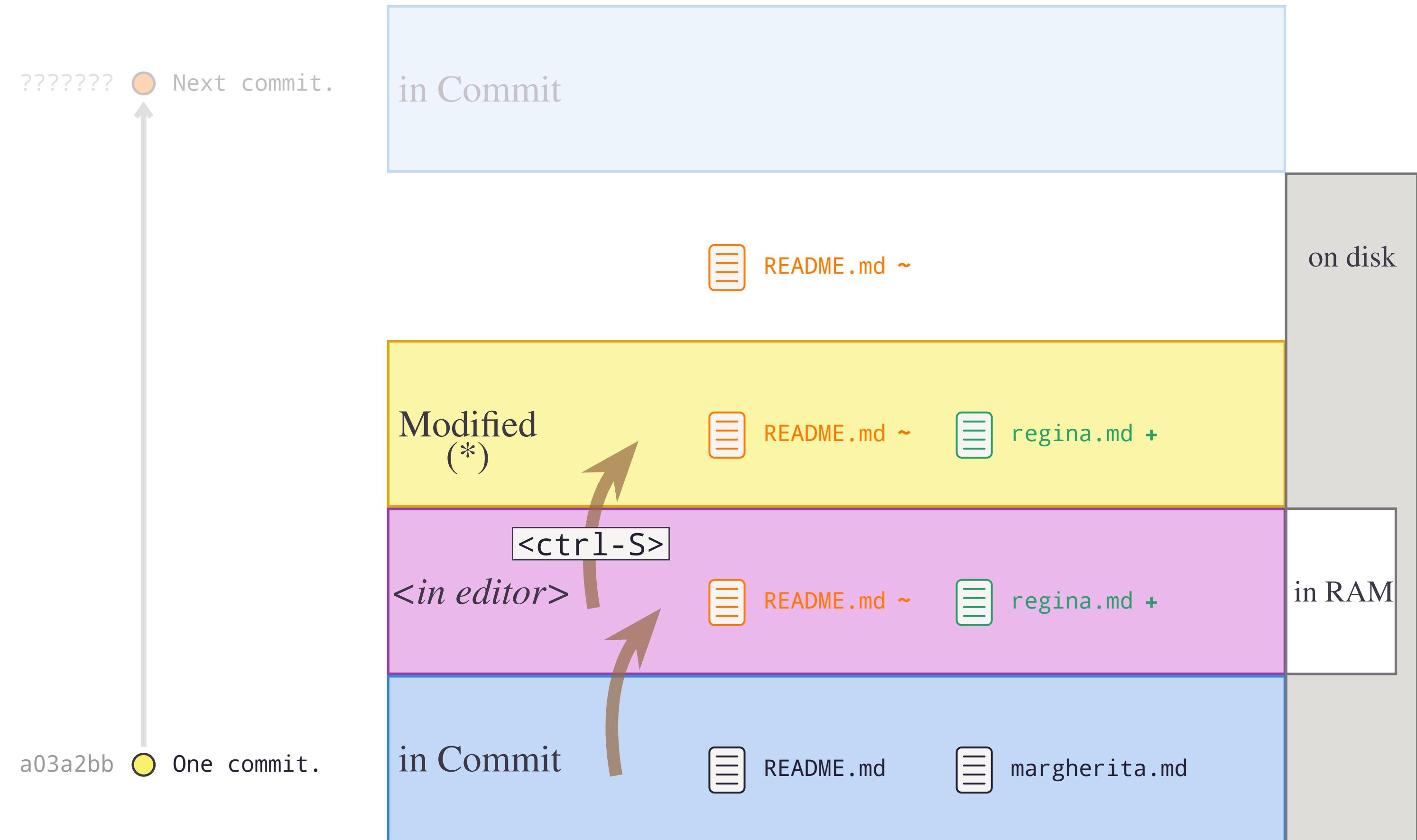
# Constructing a Commit

The Whole Process



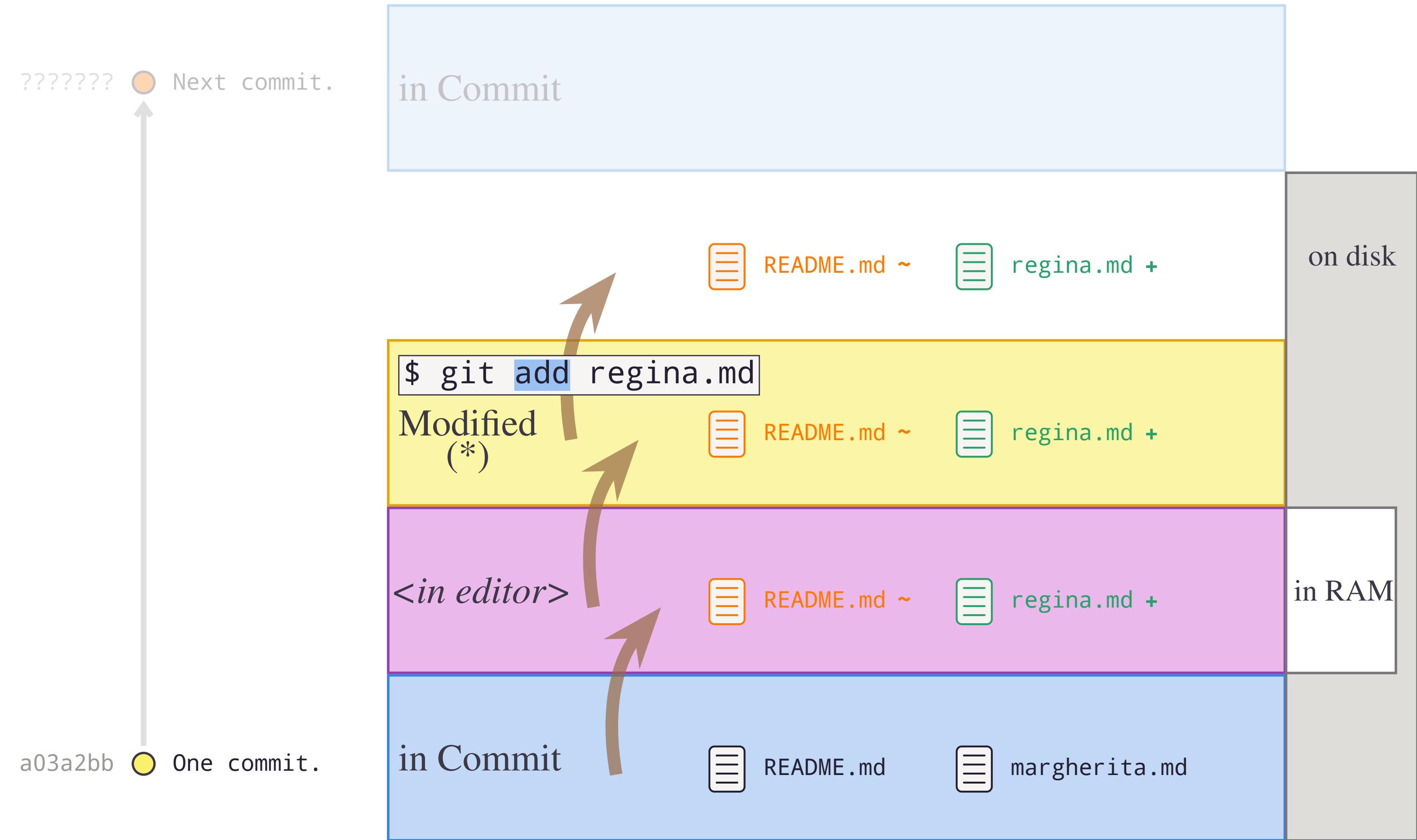
# Constructing a Commit

The Whole Process



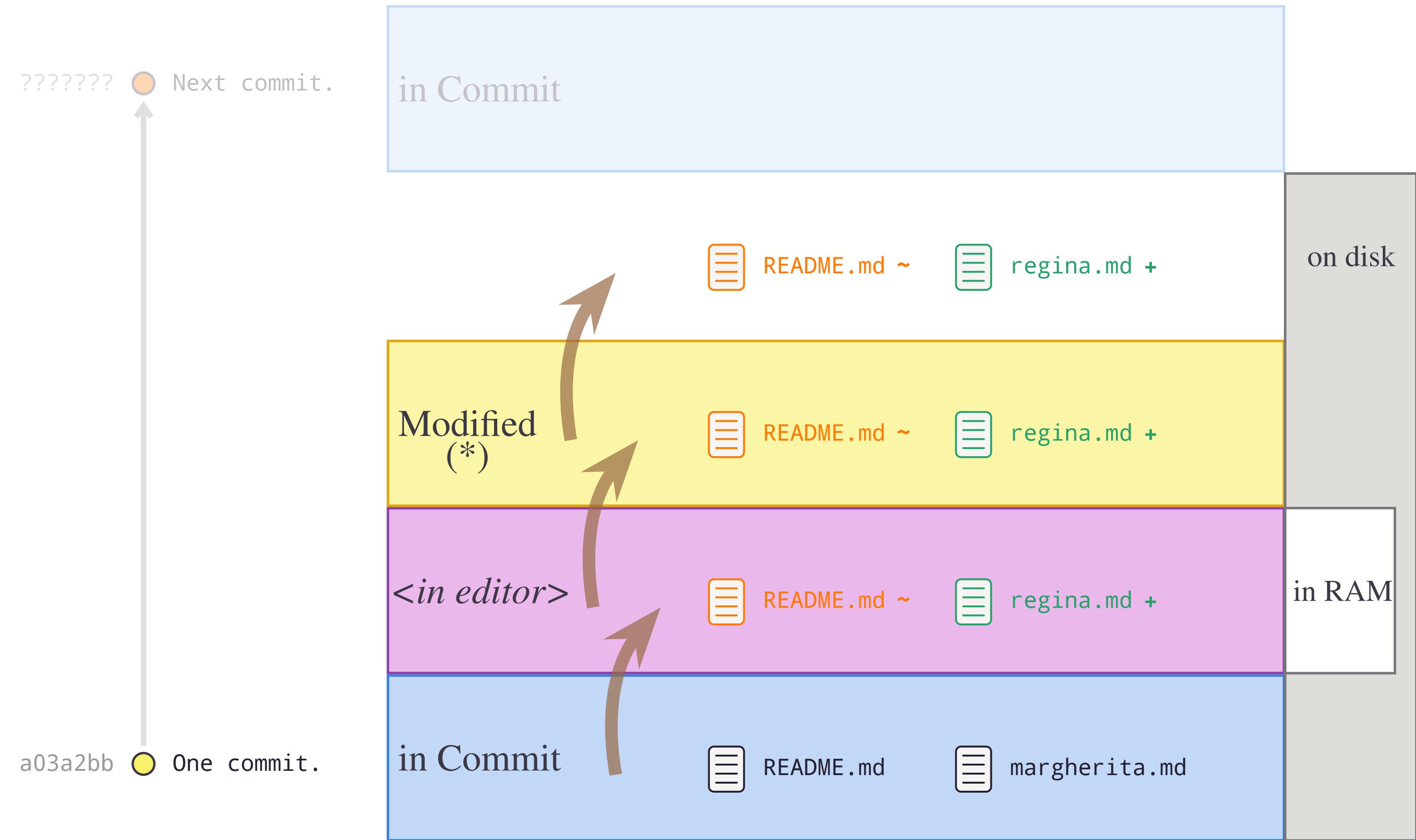
# Constructing a Commit

The Whole Process



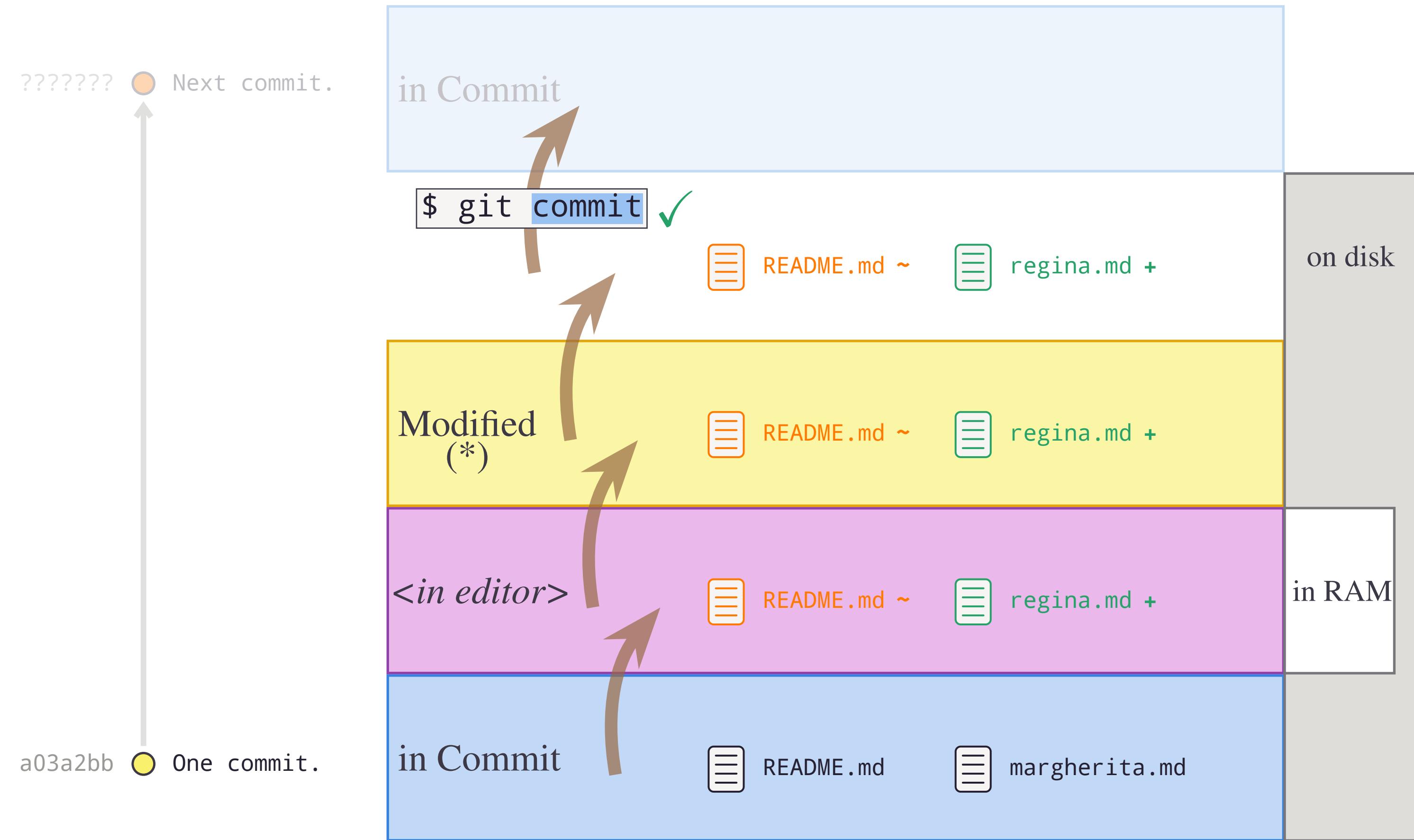
# Constructing a Commit

The Whole Process



# Constructing a Commit

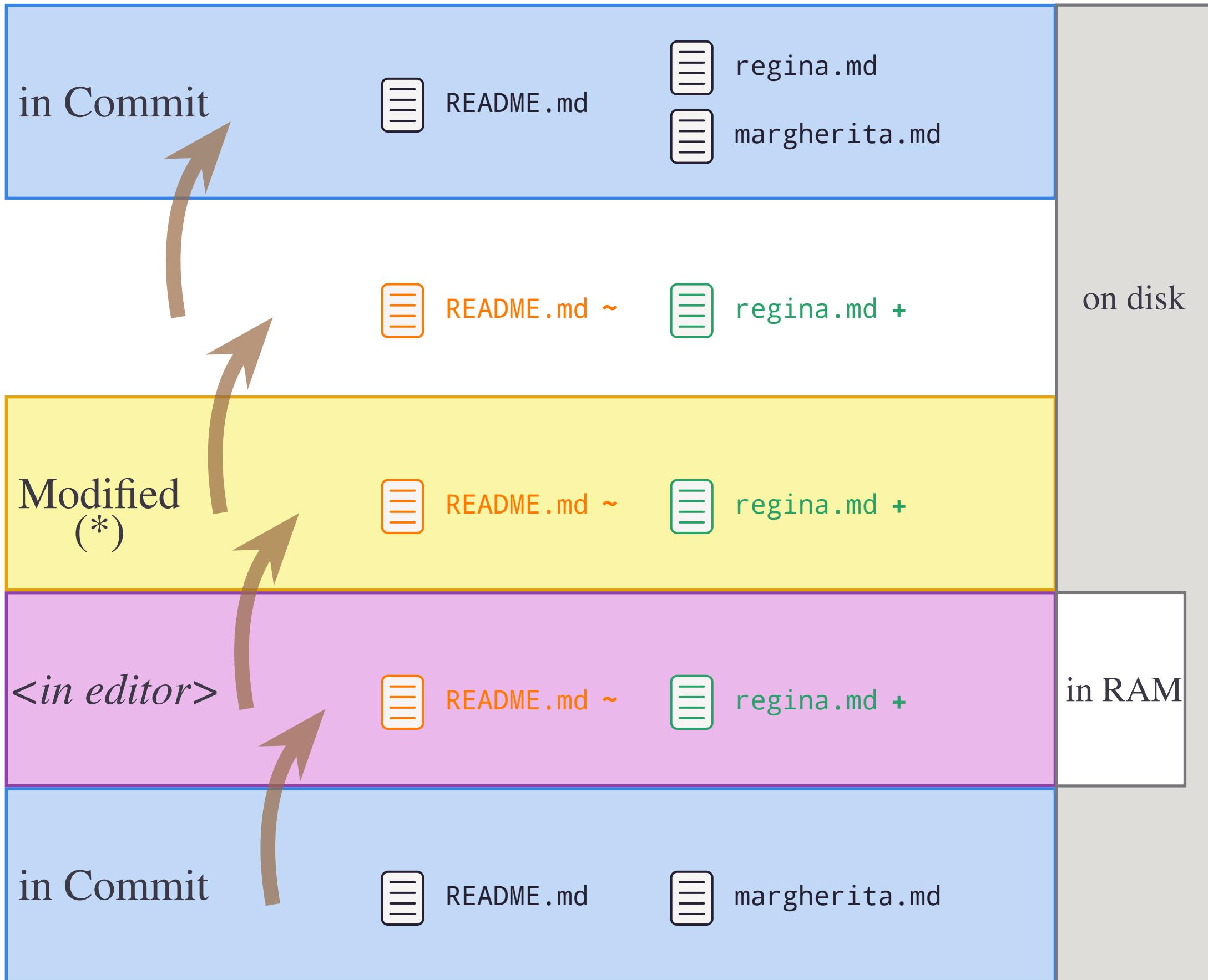
## The Whole Process



# Constructing a Commit

The Whole Process

a03a2bb One commit.

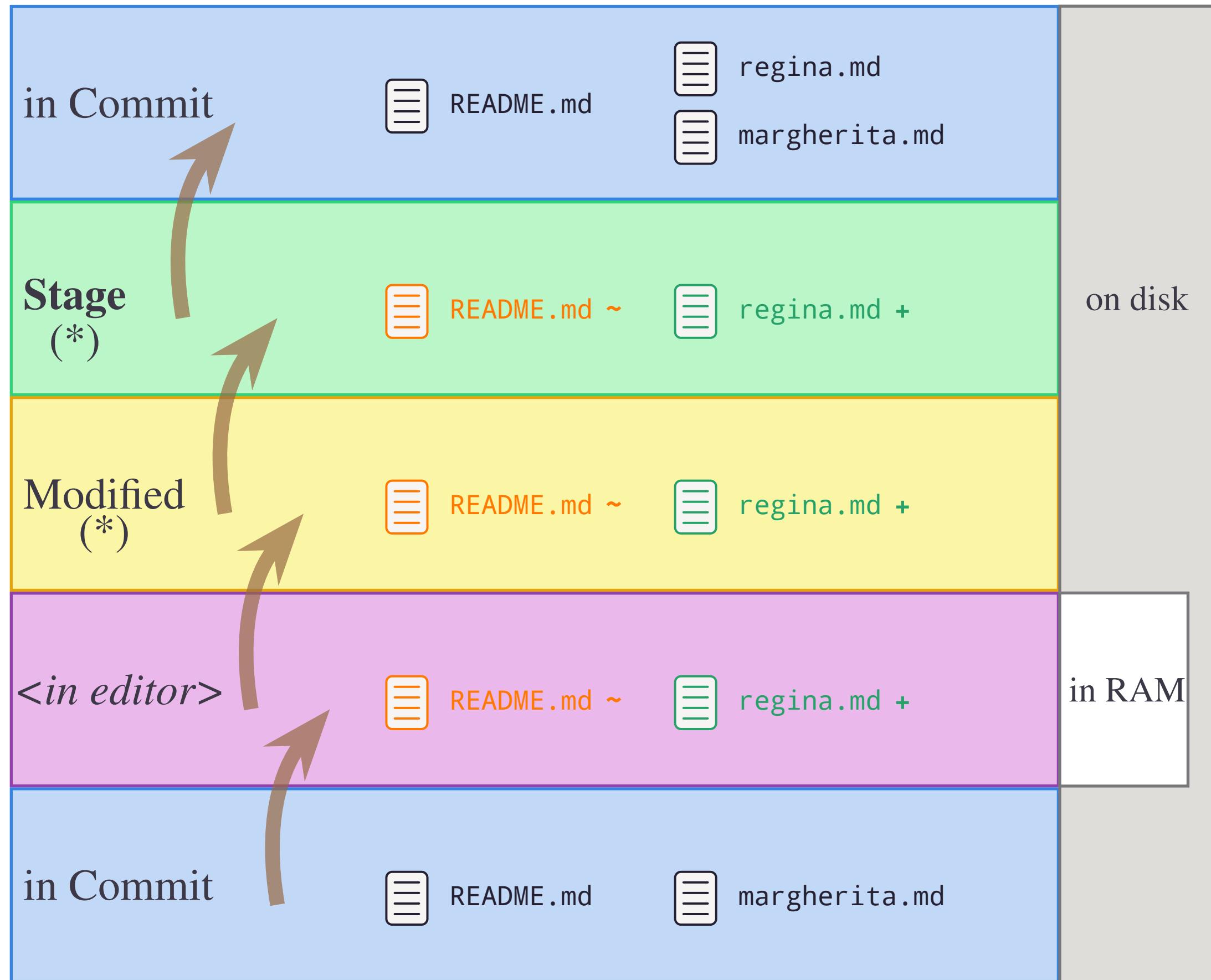


# Constructing a Commit

The Whole Process

a03a2bb One commit.

4b87875 Next commit.

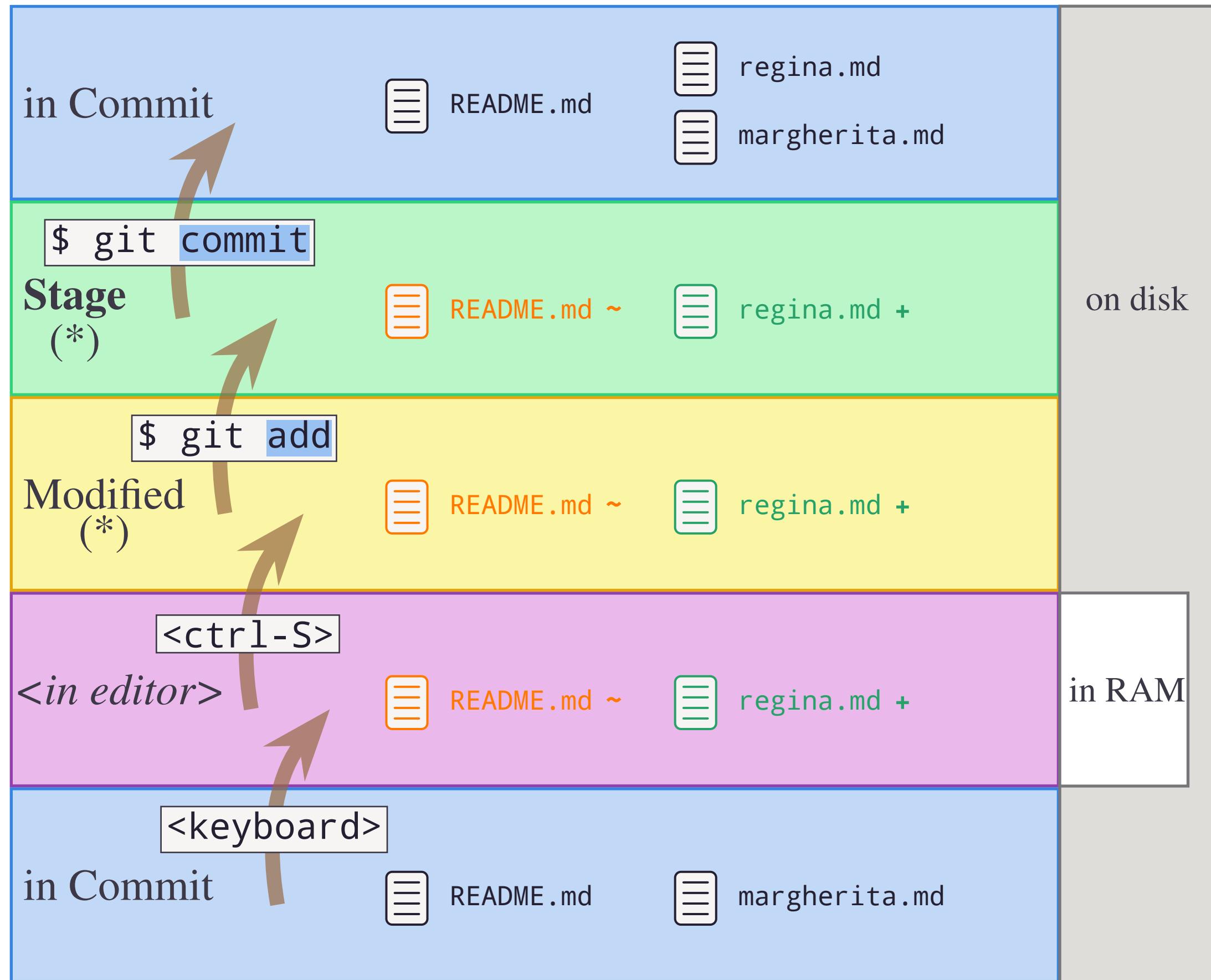


# Constructing a Commit

The Whole Process

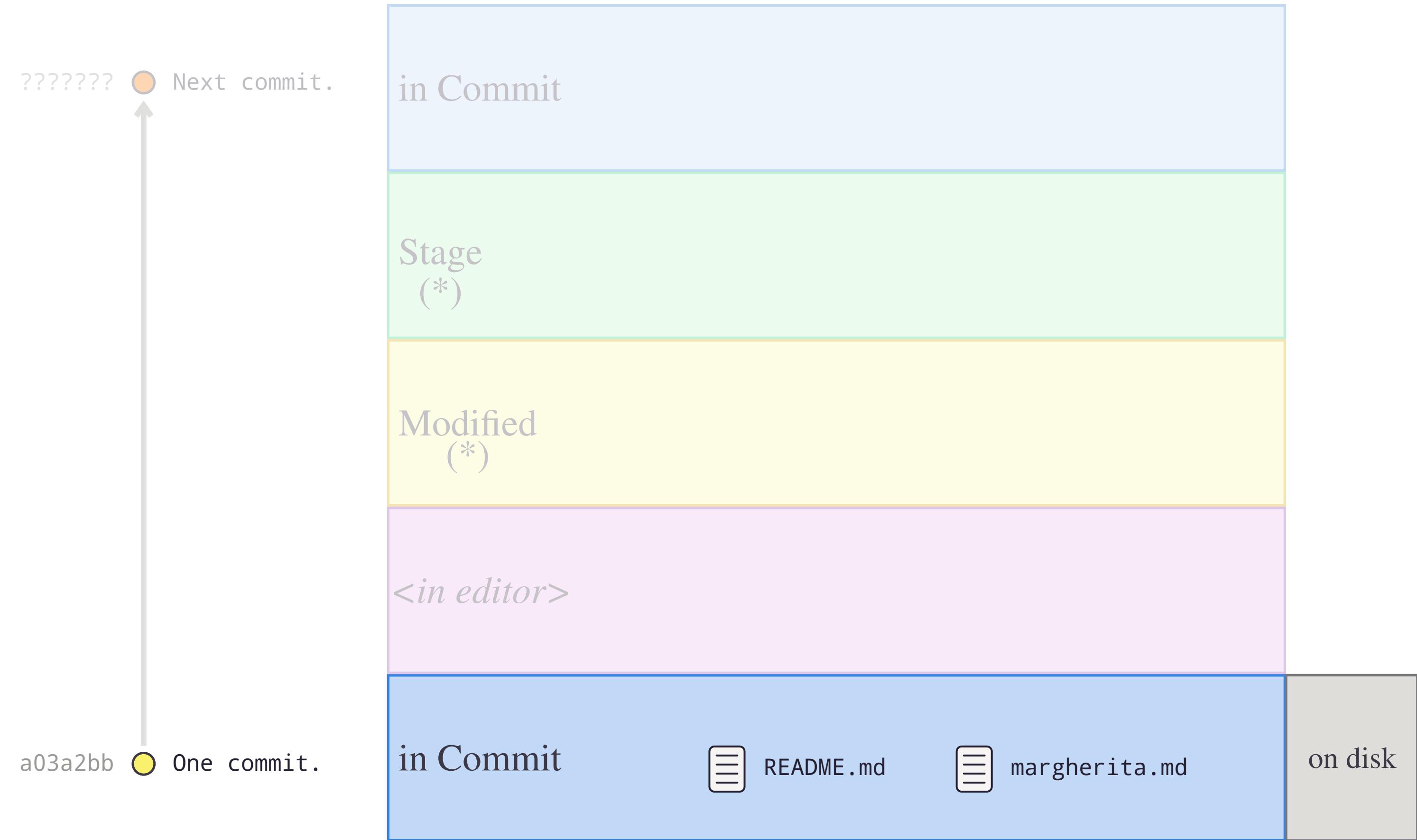
a03a2bb One commit.

4b87875 Next commit.



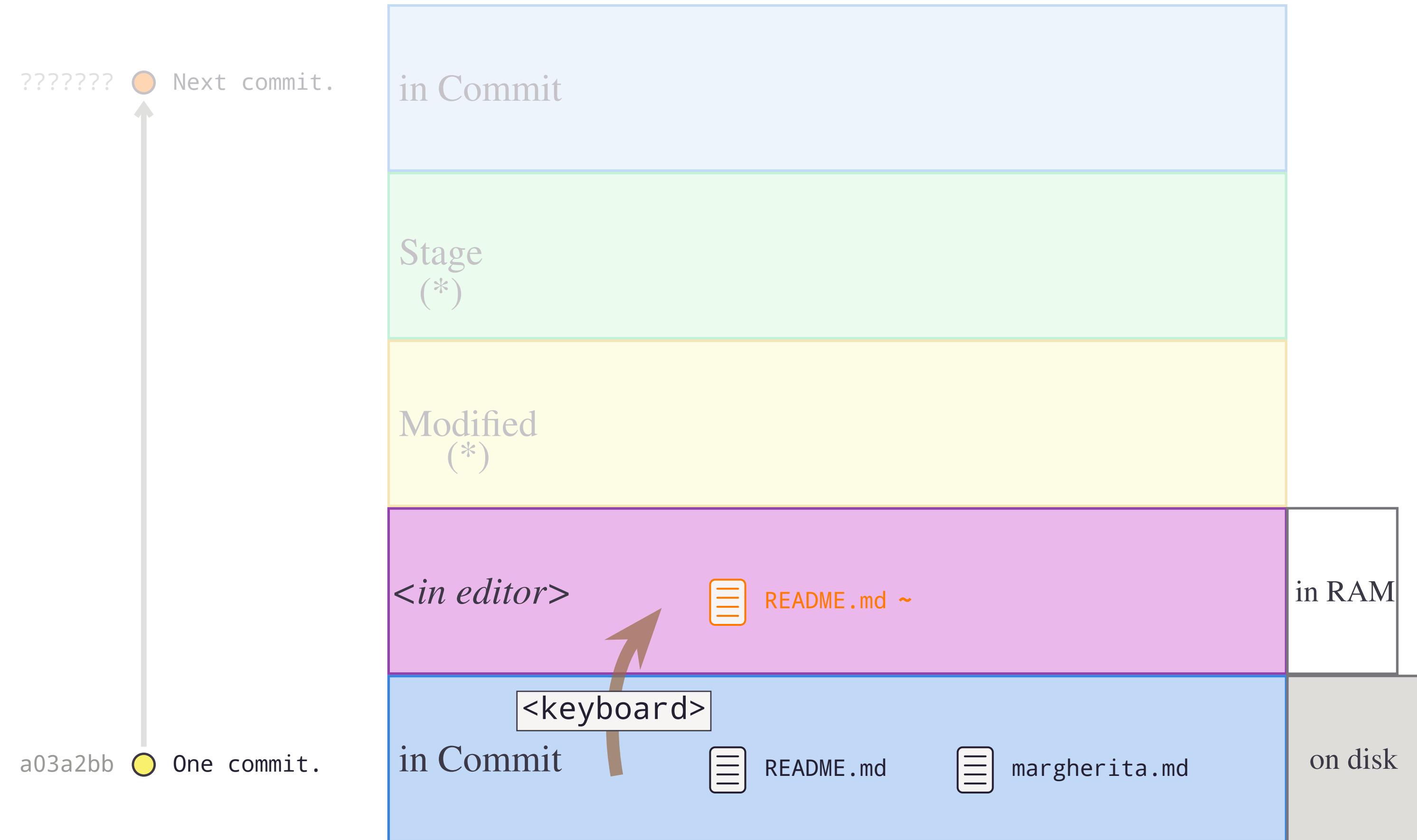
# Constructing a Commit

The Whole Process



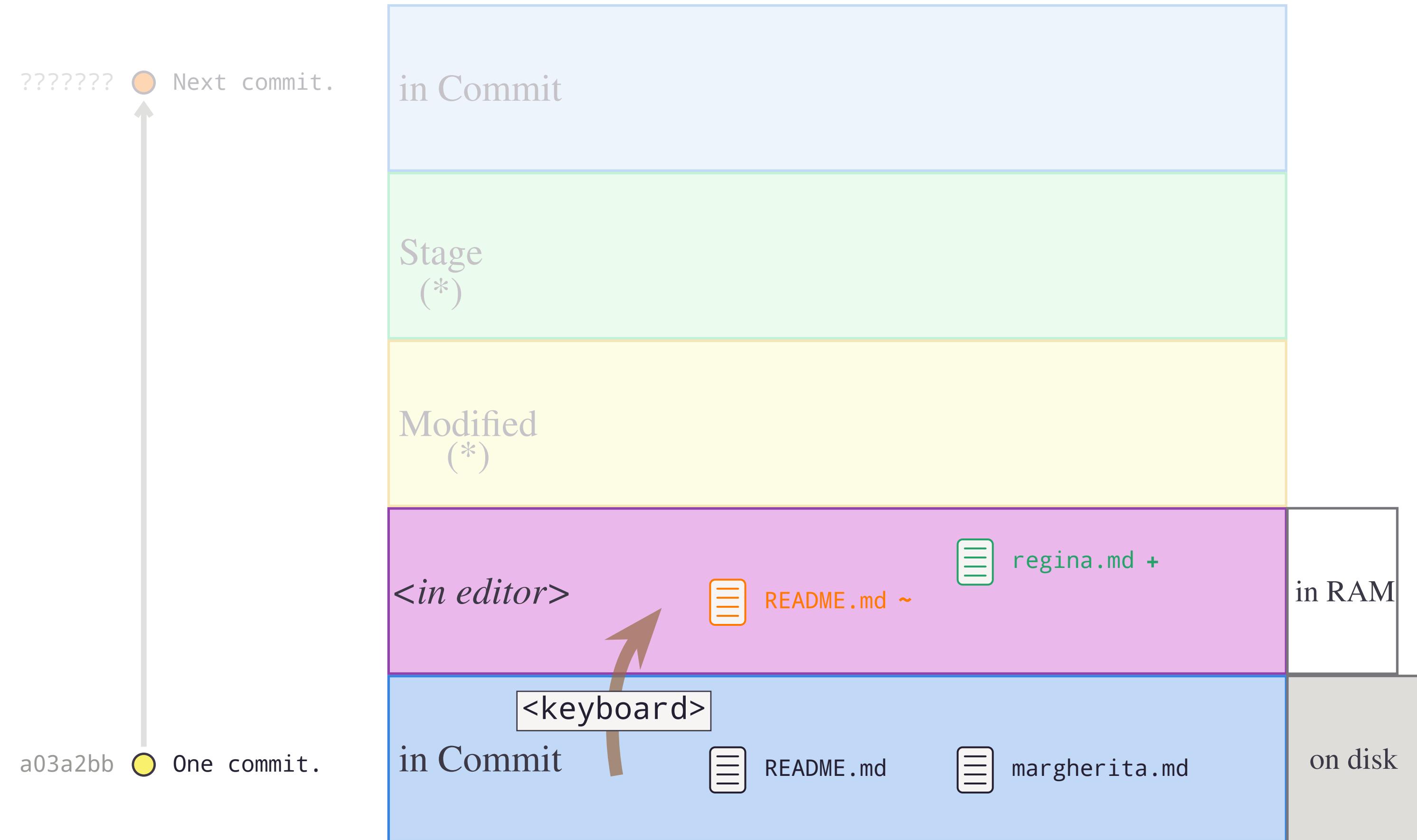
# Constructing a Commit

The Whole Process



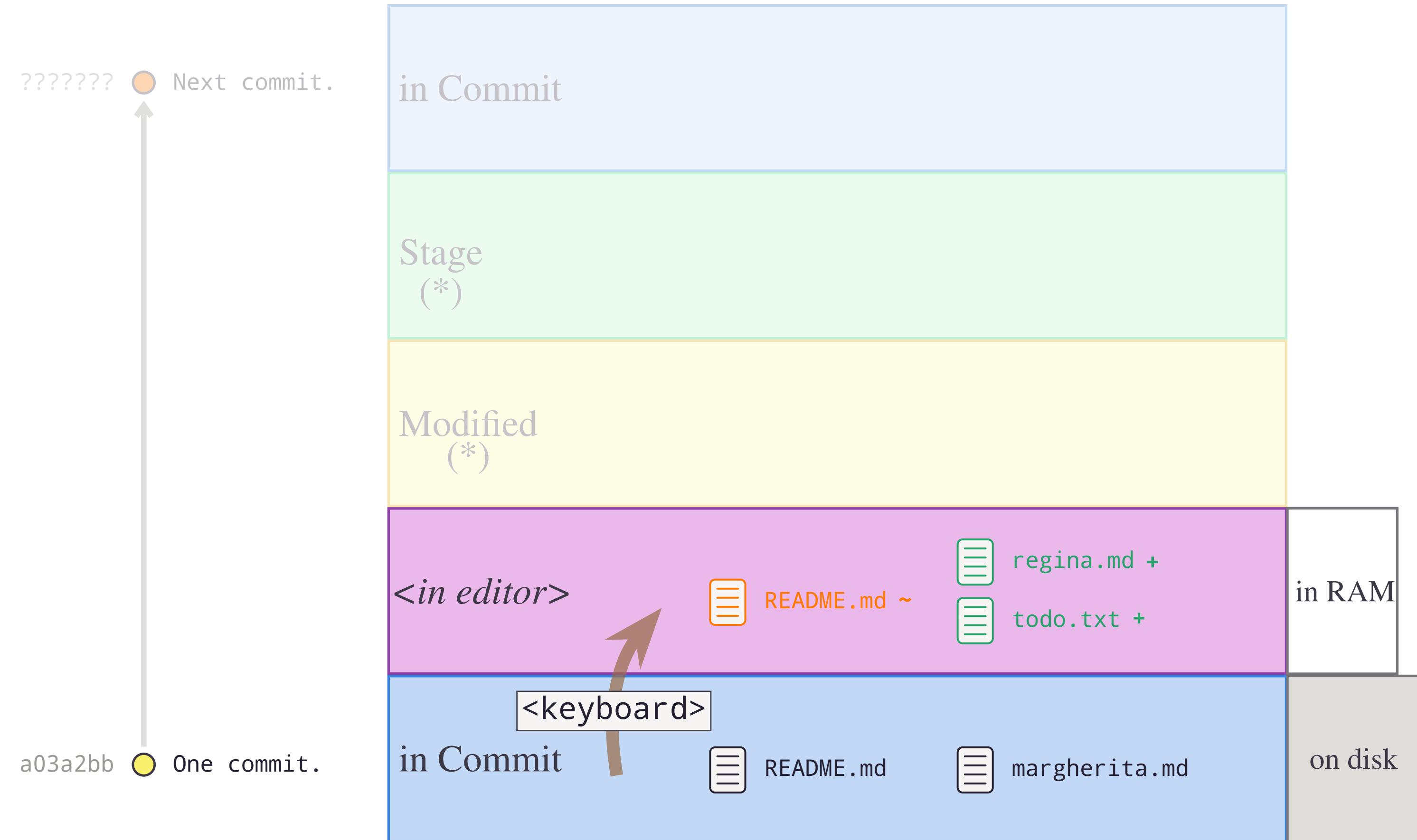
# Constructing a Commit

The Whole Process



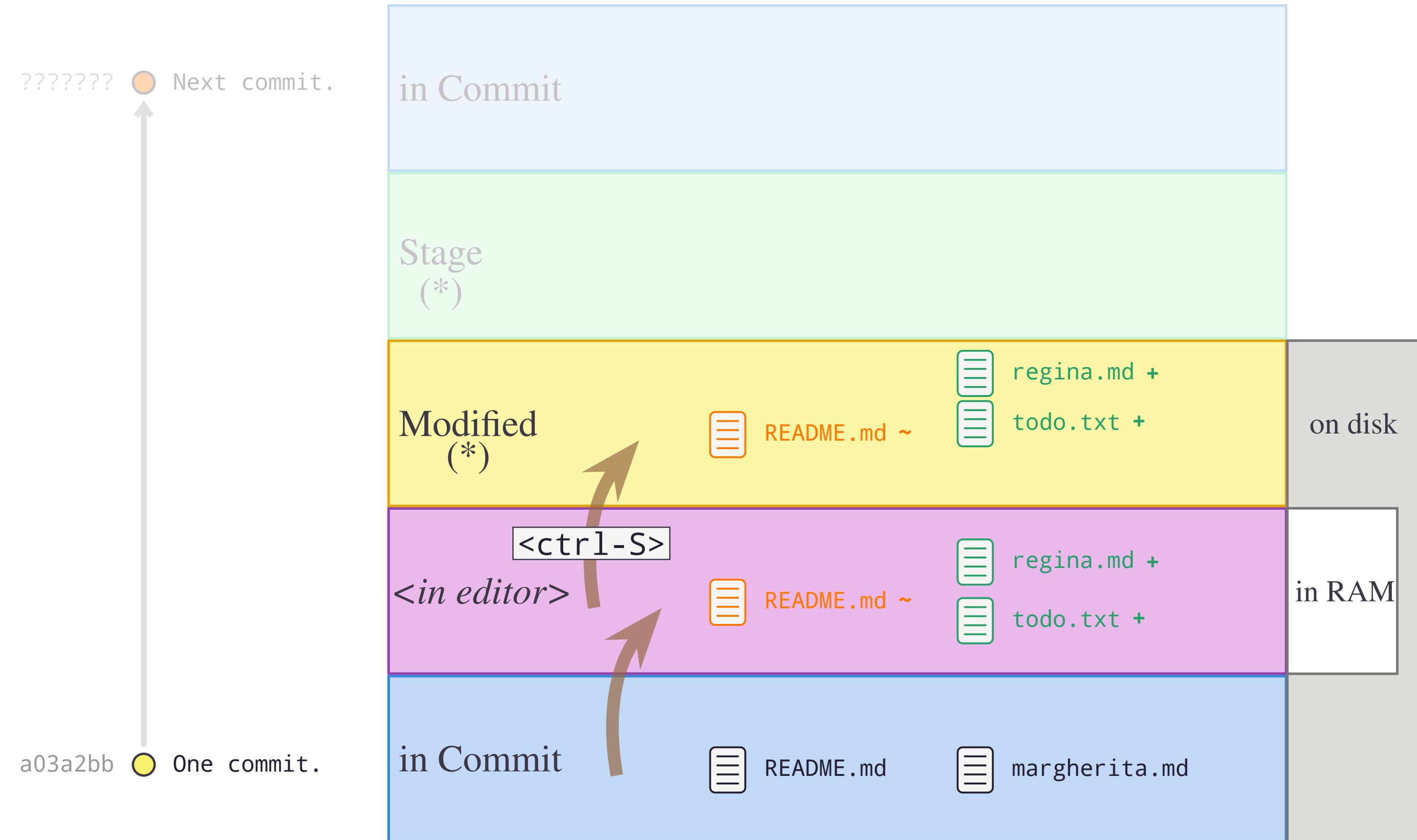
# Constructing a Commit

The Whole Process



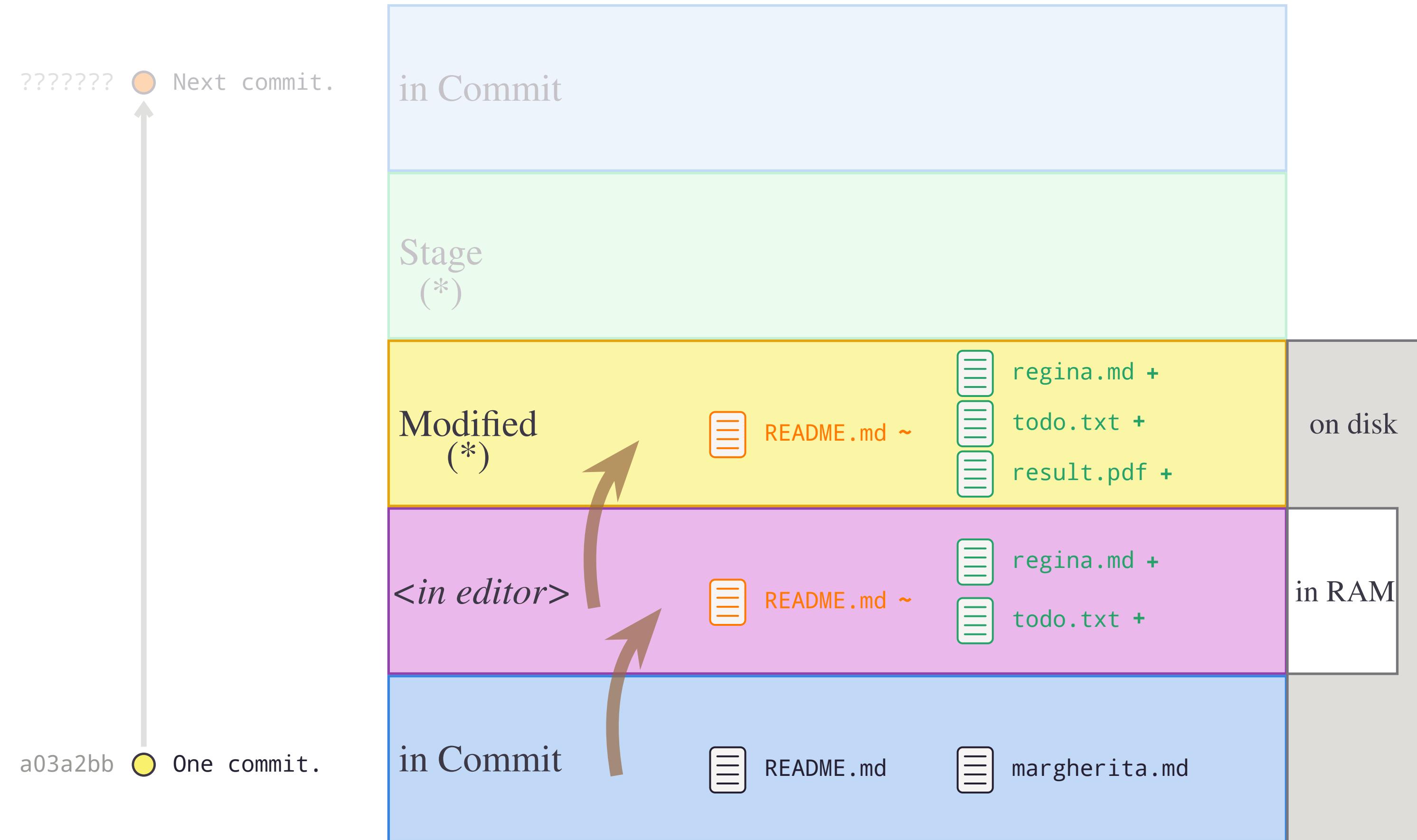
# Constructing a Commit

The Whole Process



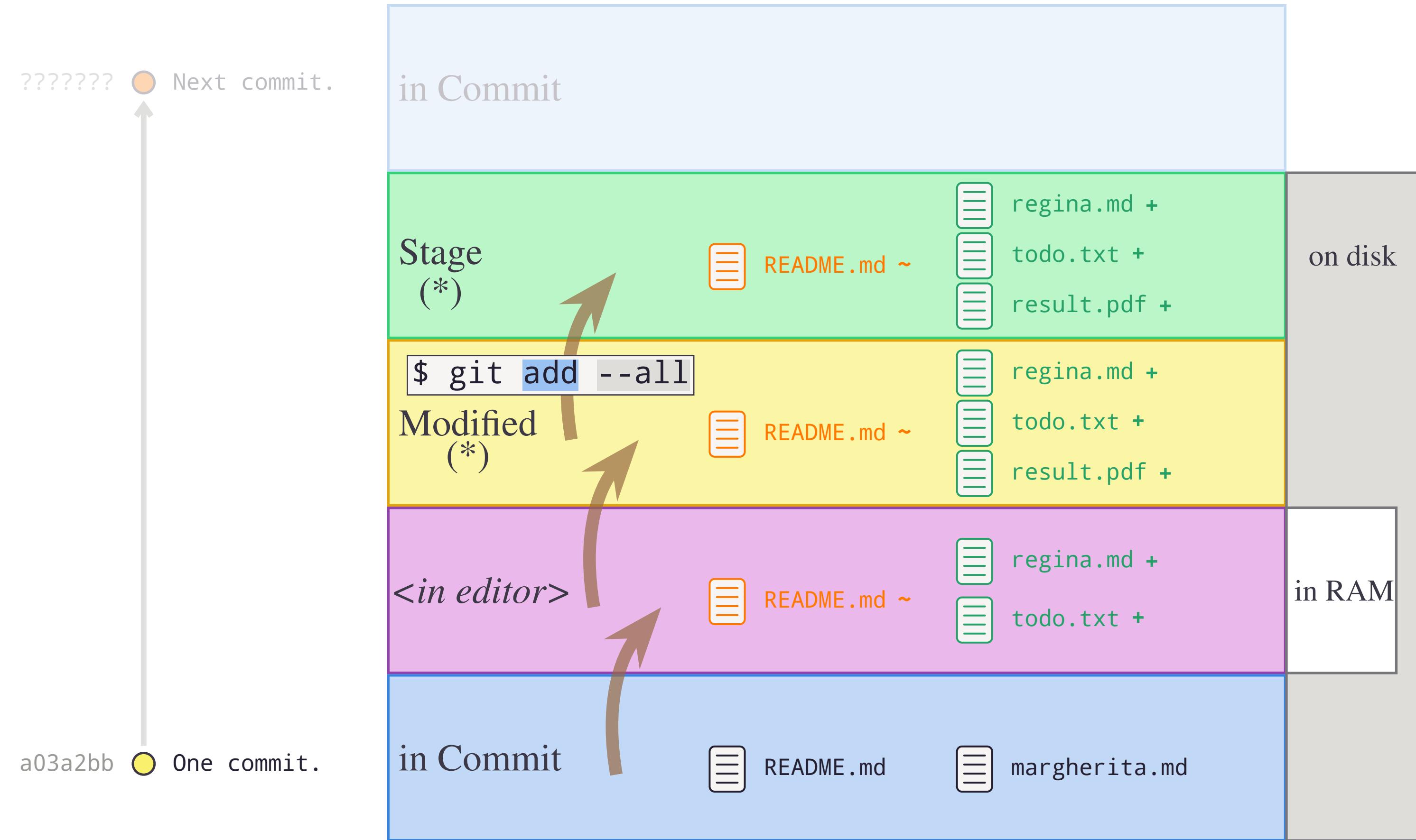
# Constructing a Commit

The Whole Process



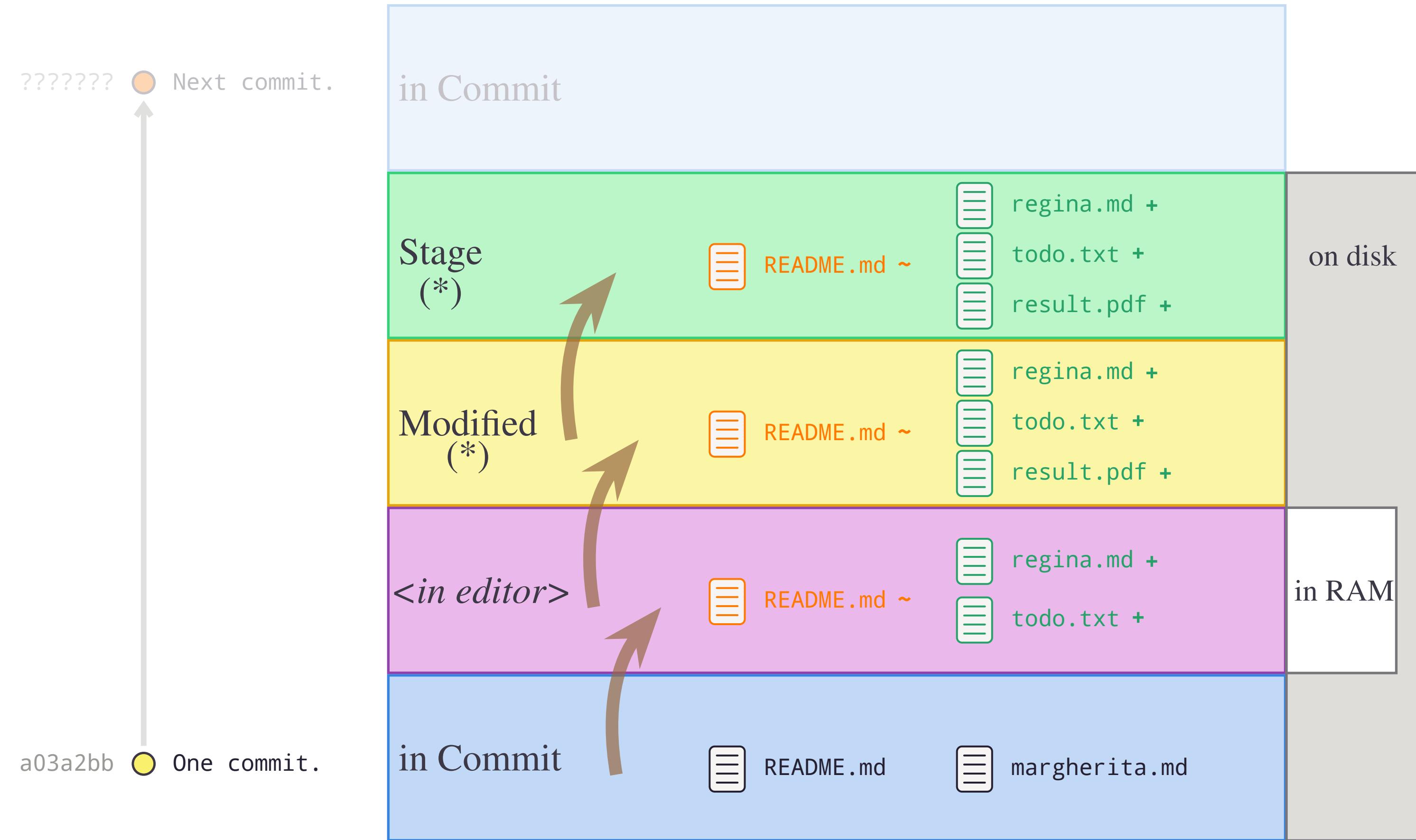
# Constructing a Commit

The Whole Process



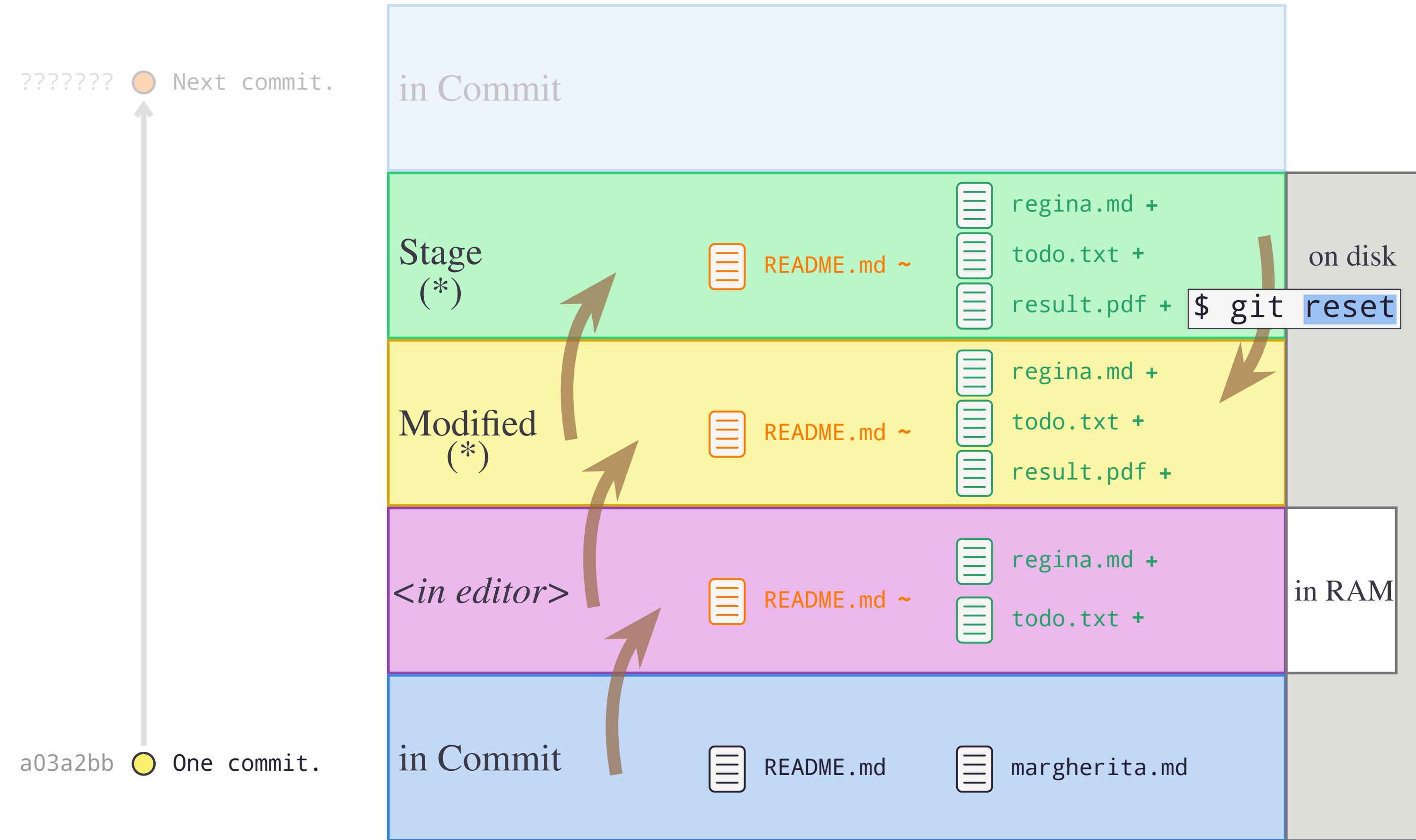
# Constructing a Commit

The Whole Process



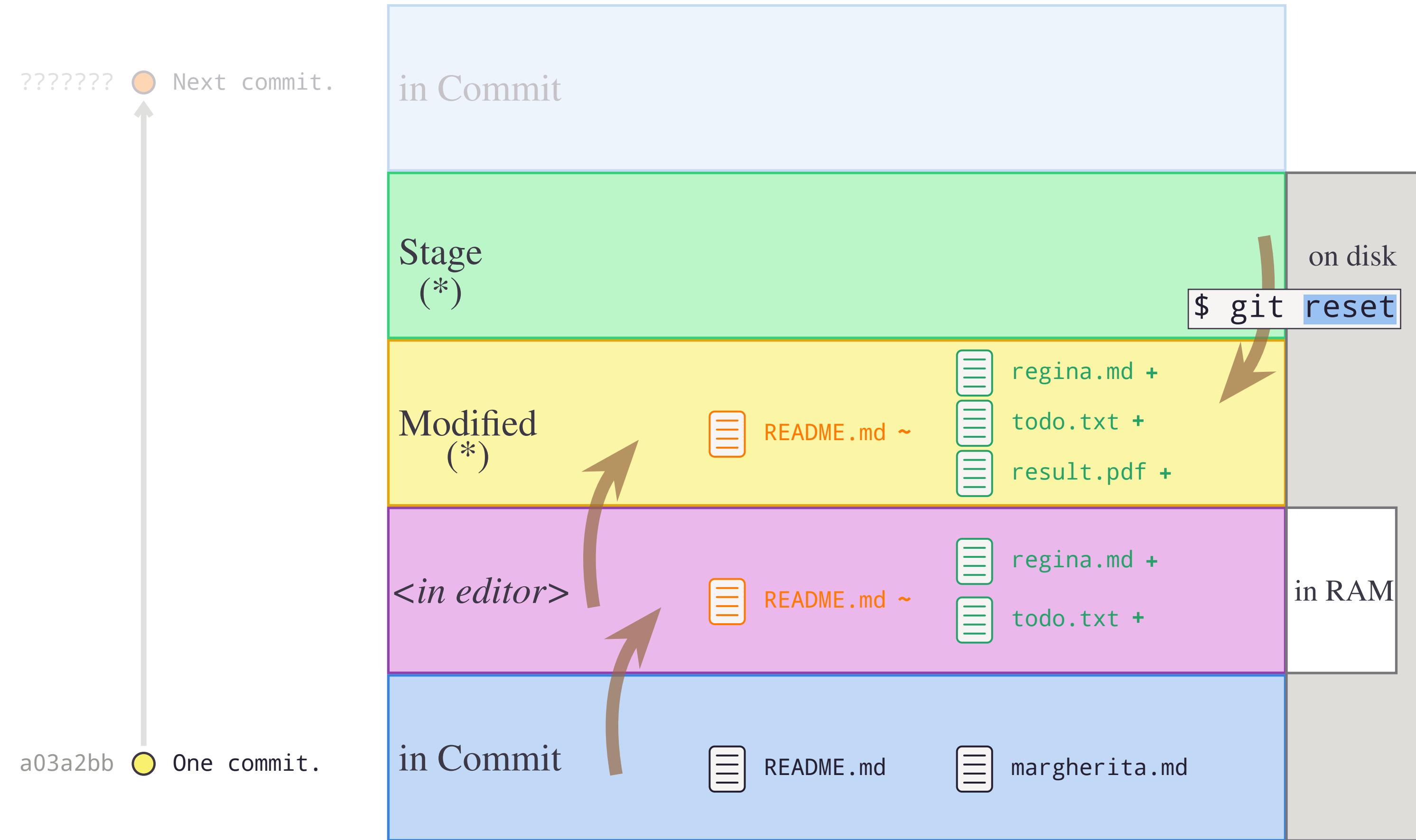
# Constructing a Commit

The Whole Process



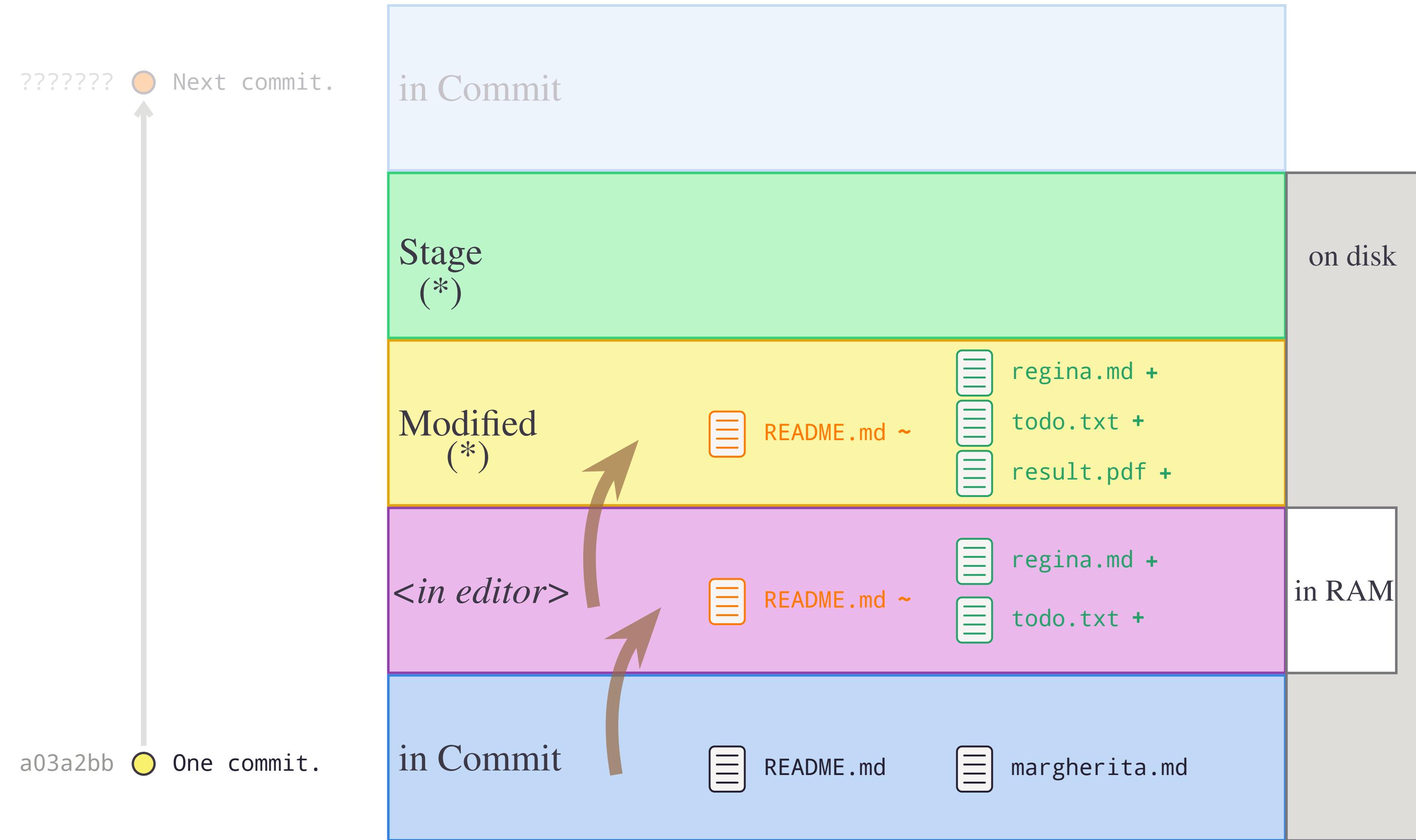
# Constructing a Commit

The Whole Process



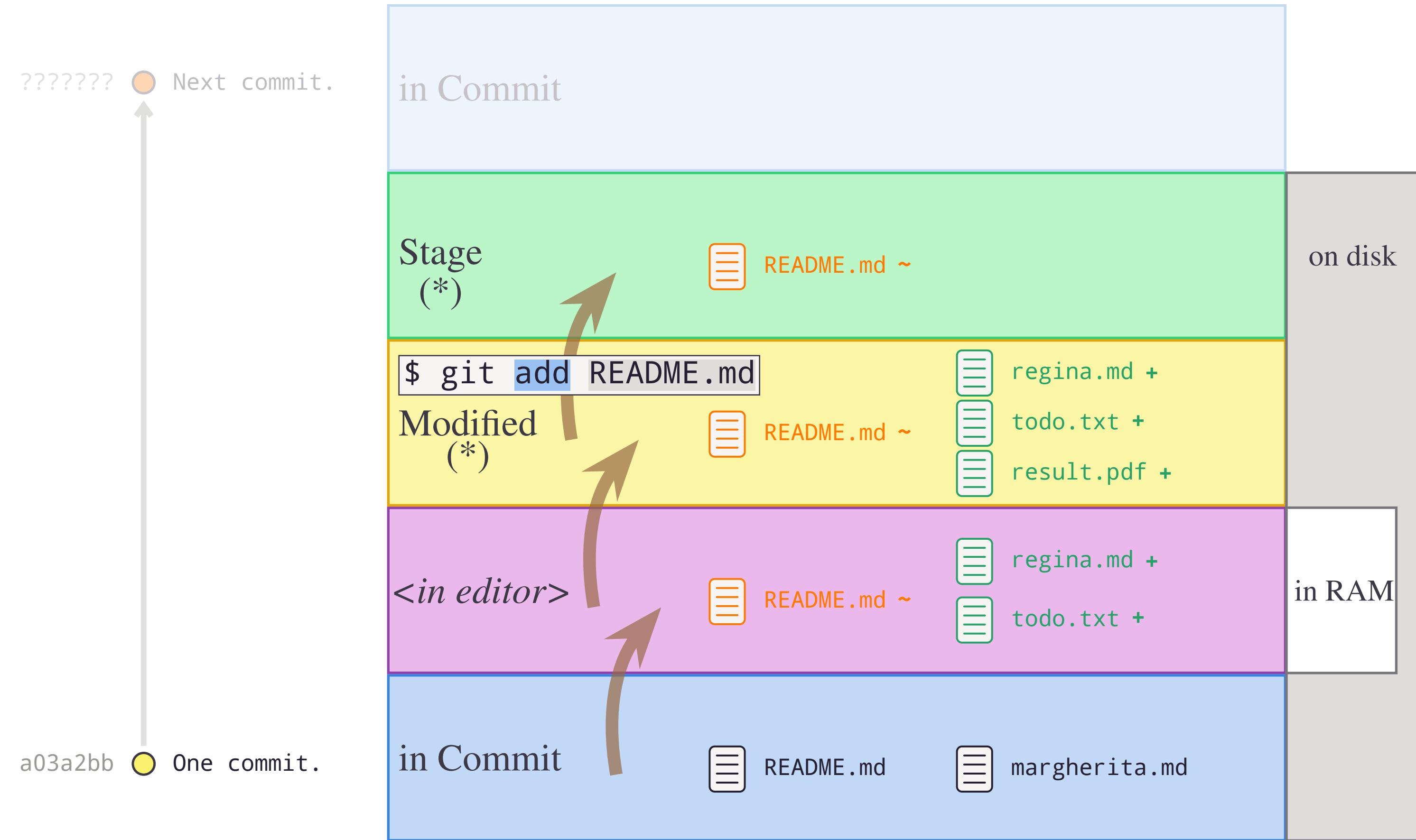
# Constructing a Commit

The Whole Process



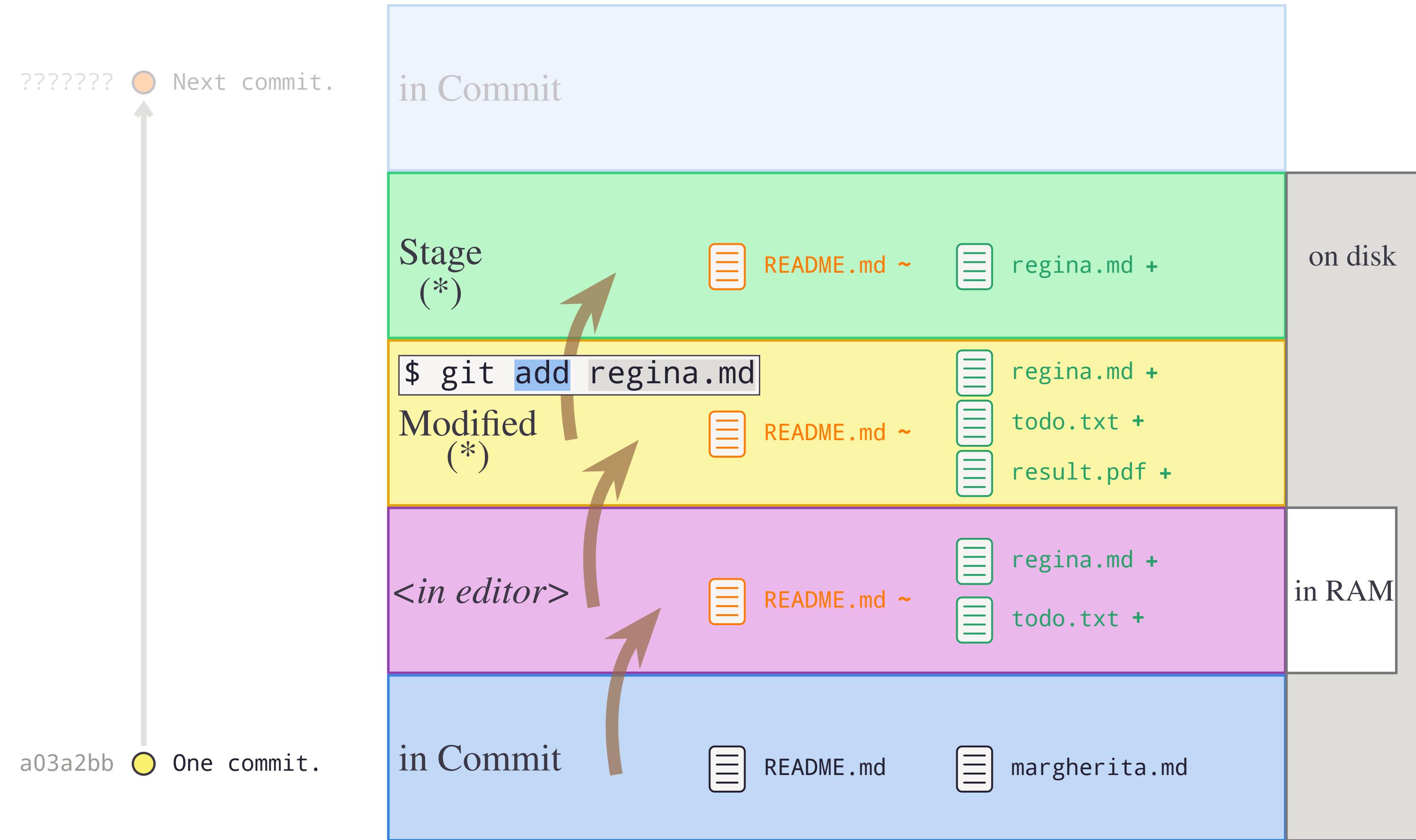
# Constructing a Commit

The Whole Process



# Constructing a Commit

The Whole Process



# Constructing a Commit

The Whole Process

???????

Next commit.

in Commit

Stage  
(\*)

README.md ~

regina.md +

Modified  
(\*)

README.md ~

regina.md +  
todo.txt +  
result.pdf +

<in editor>

README.md ~

regina.md +  
todo.txt +

in Commit

README.md

margherita.md

on disk

in RAM

a03a2bb

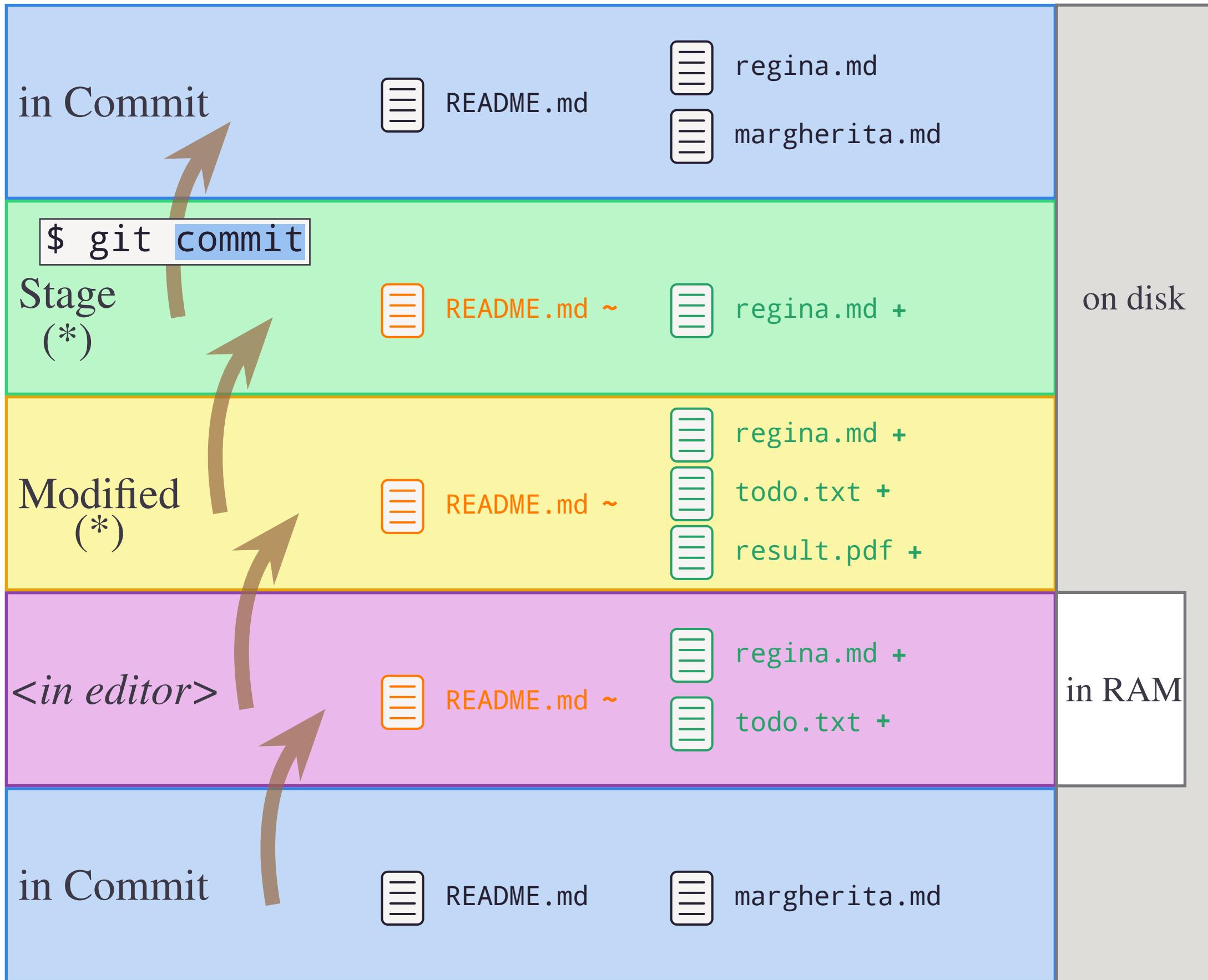
One commit.



# Constructing a Commit

The Whole Process

a03a2bb One commit.

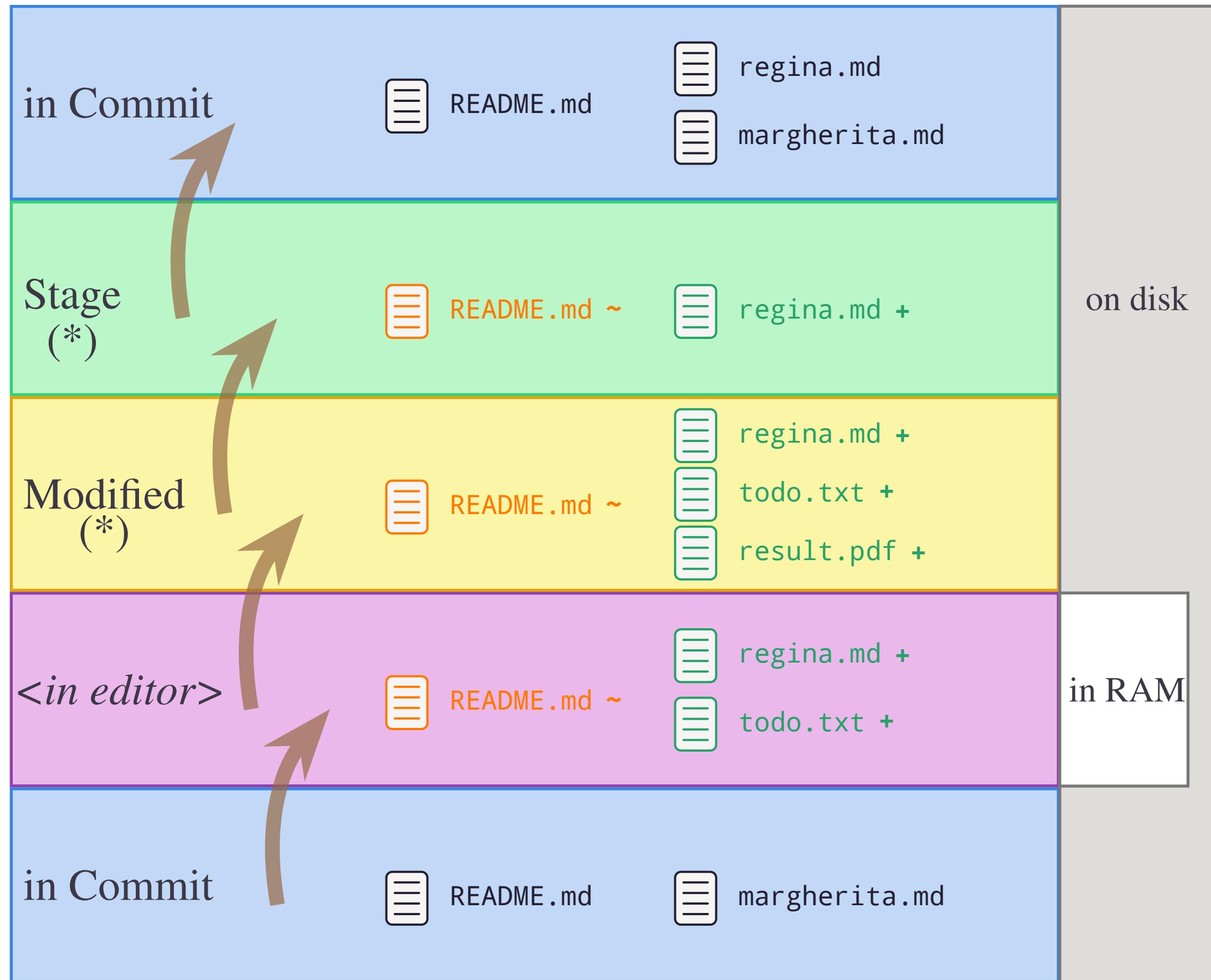


# Constructing a Commit

The Whole Process

a03a2bb One commit.

4b87875 Next commit.

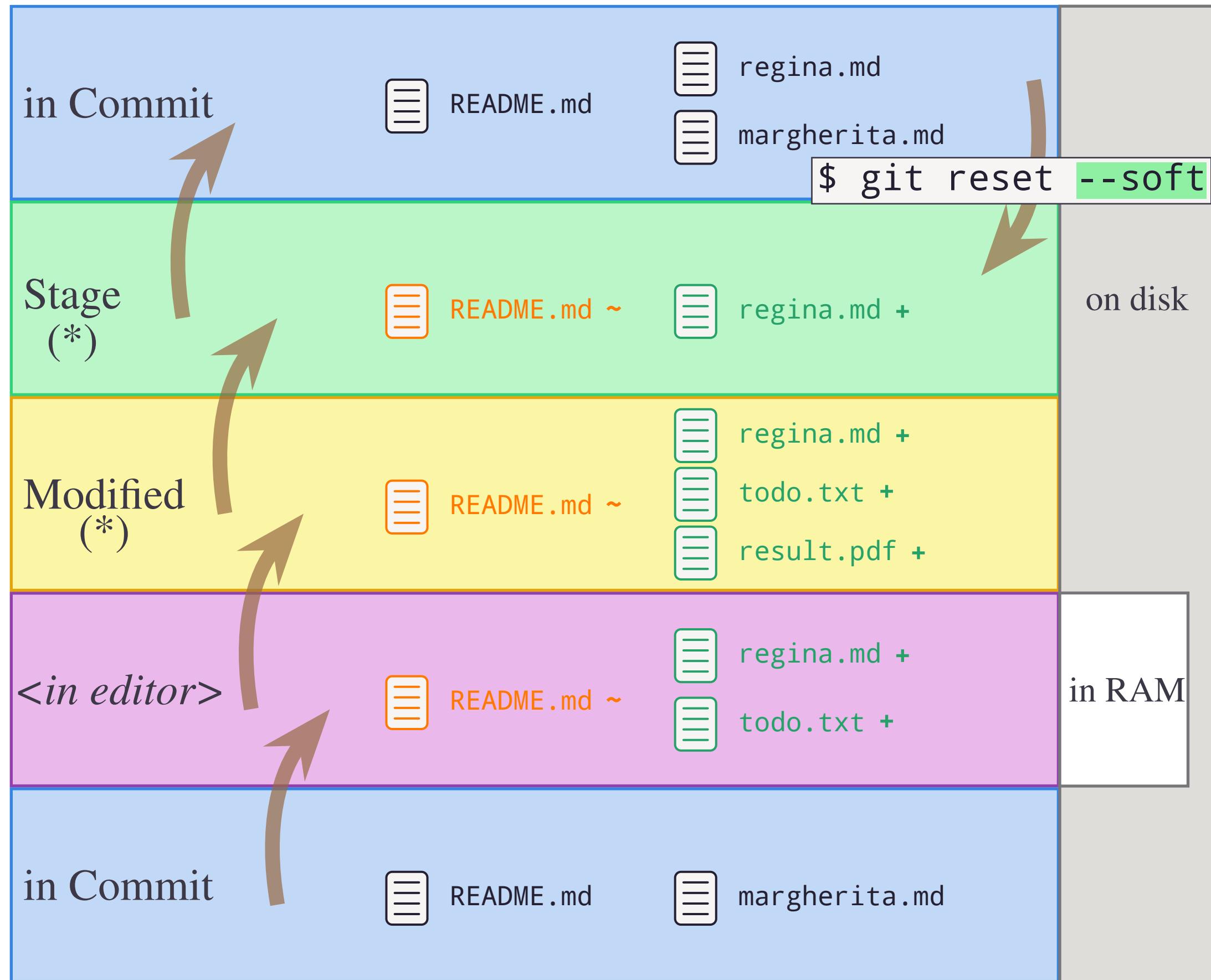


# Constructing a Commit

The Whole Process

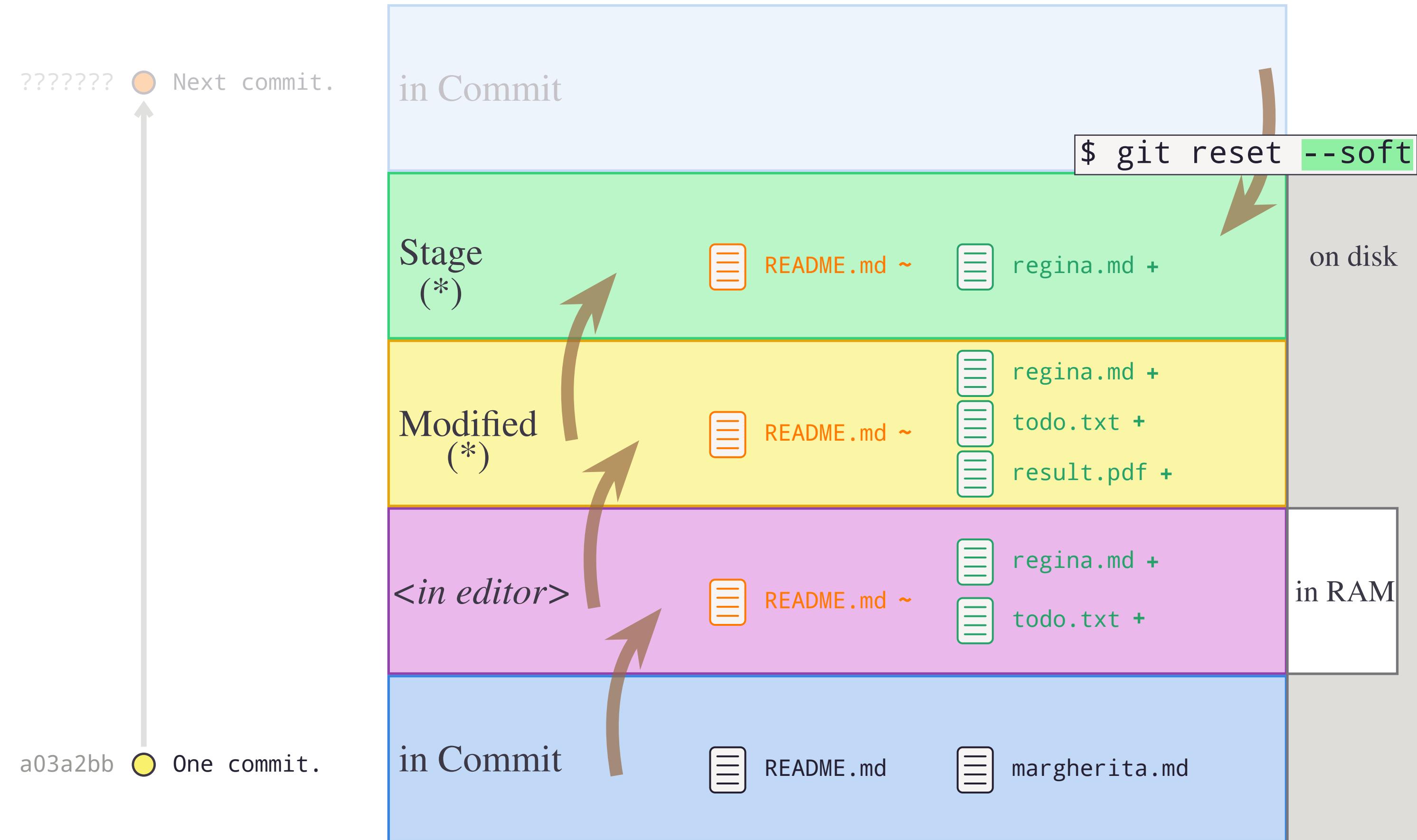
a03a2bb One commit.

4b87875 Next commit.



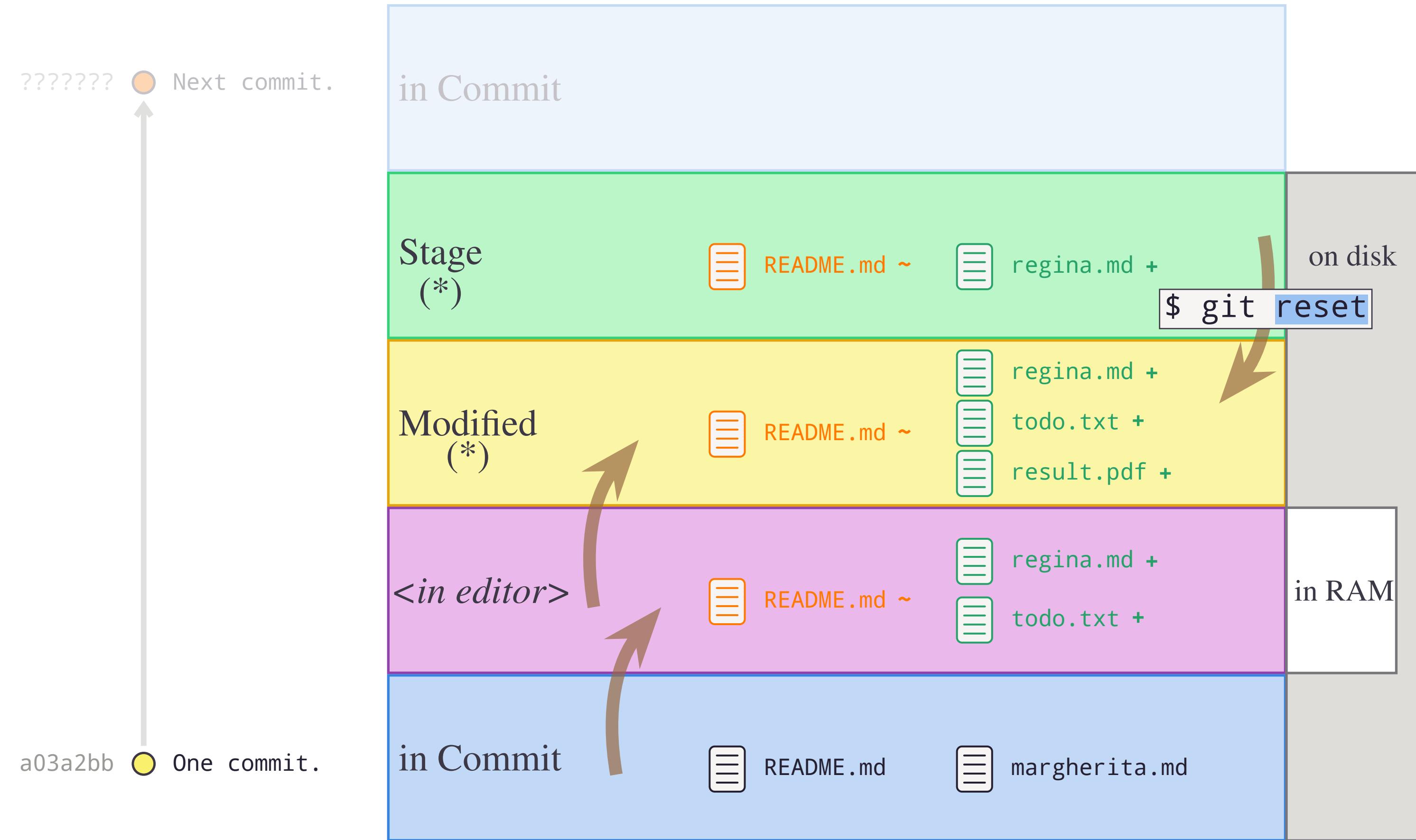
# Constructing a Commit

The Whole Process



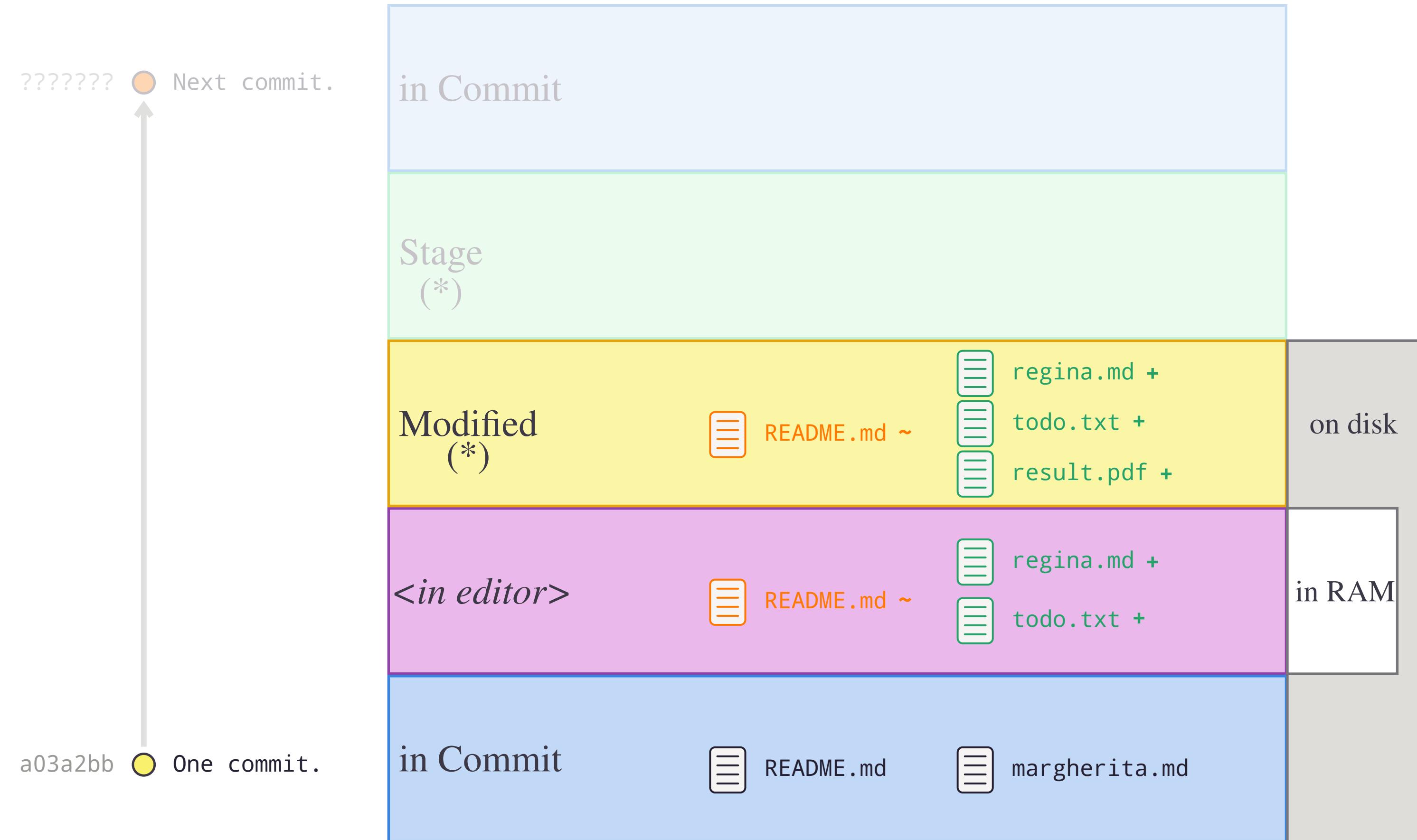
# Constructing a Commit

The Whole Process



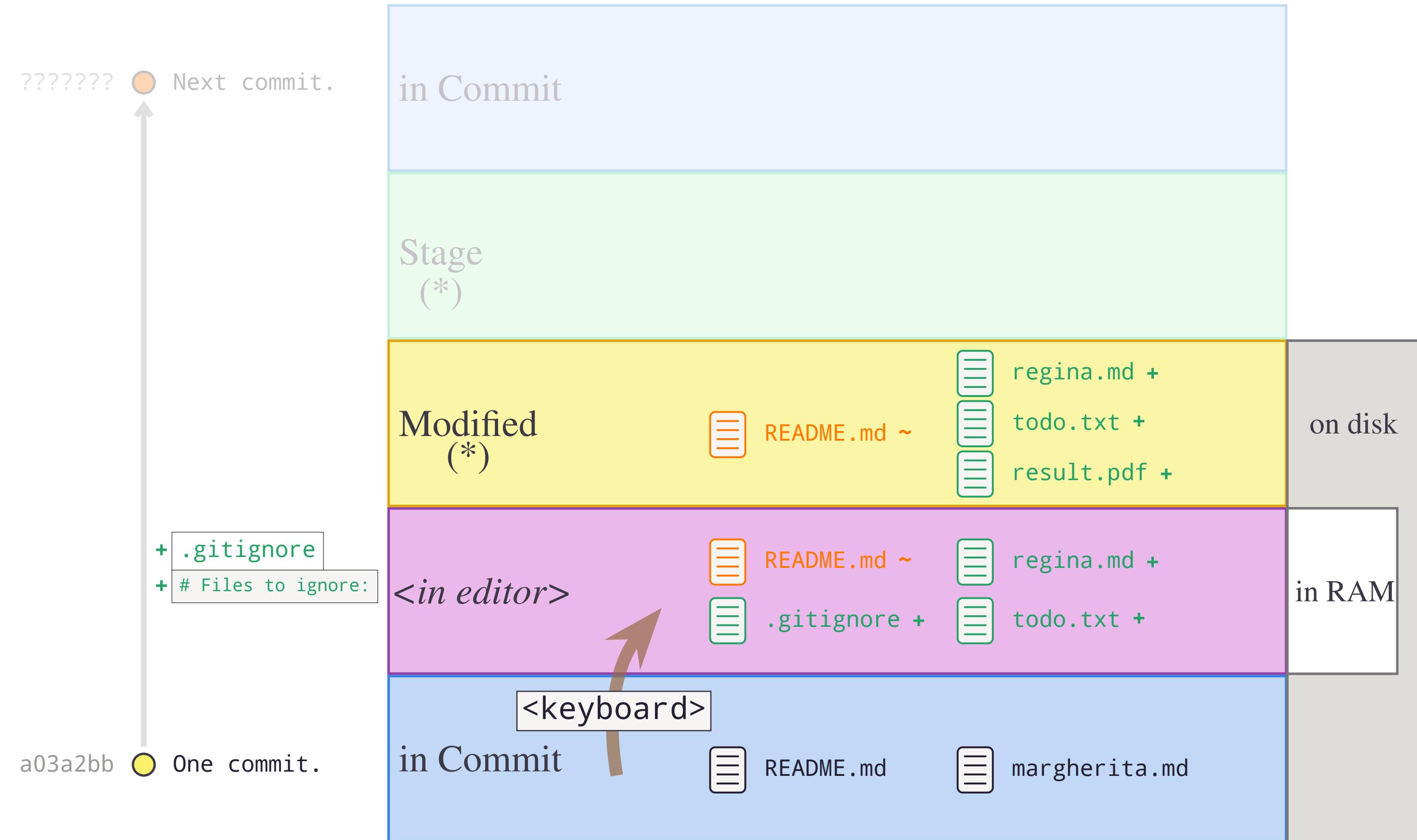
# Constructing a Commit

The Whole Process



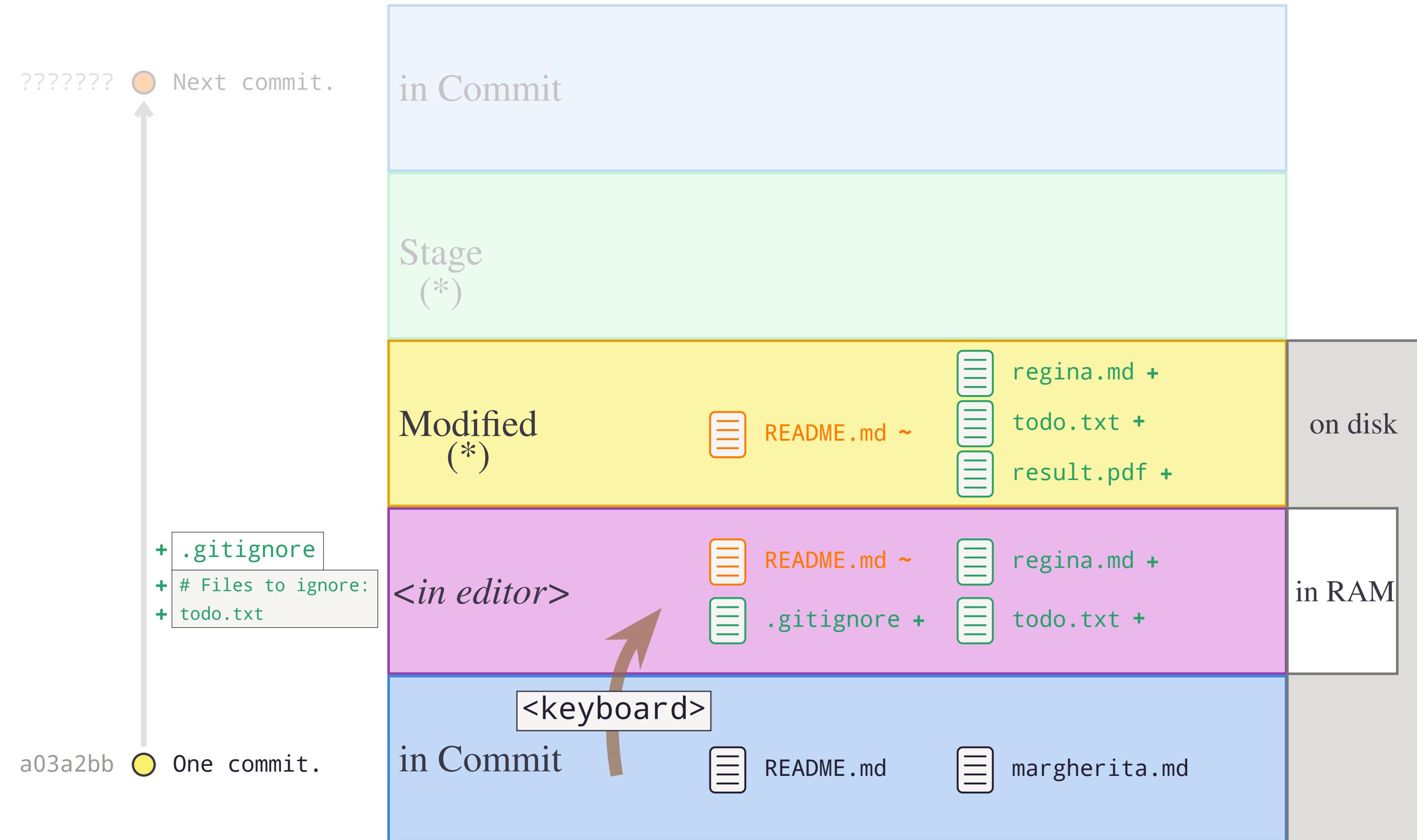
# Constructing a Commit

The Whole Process



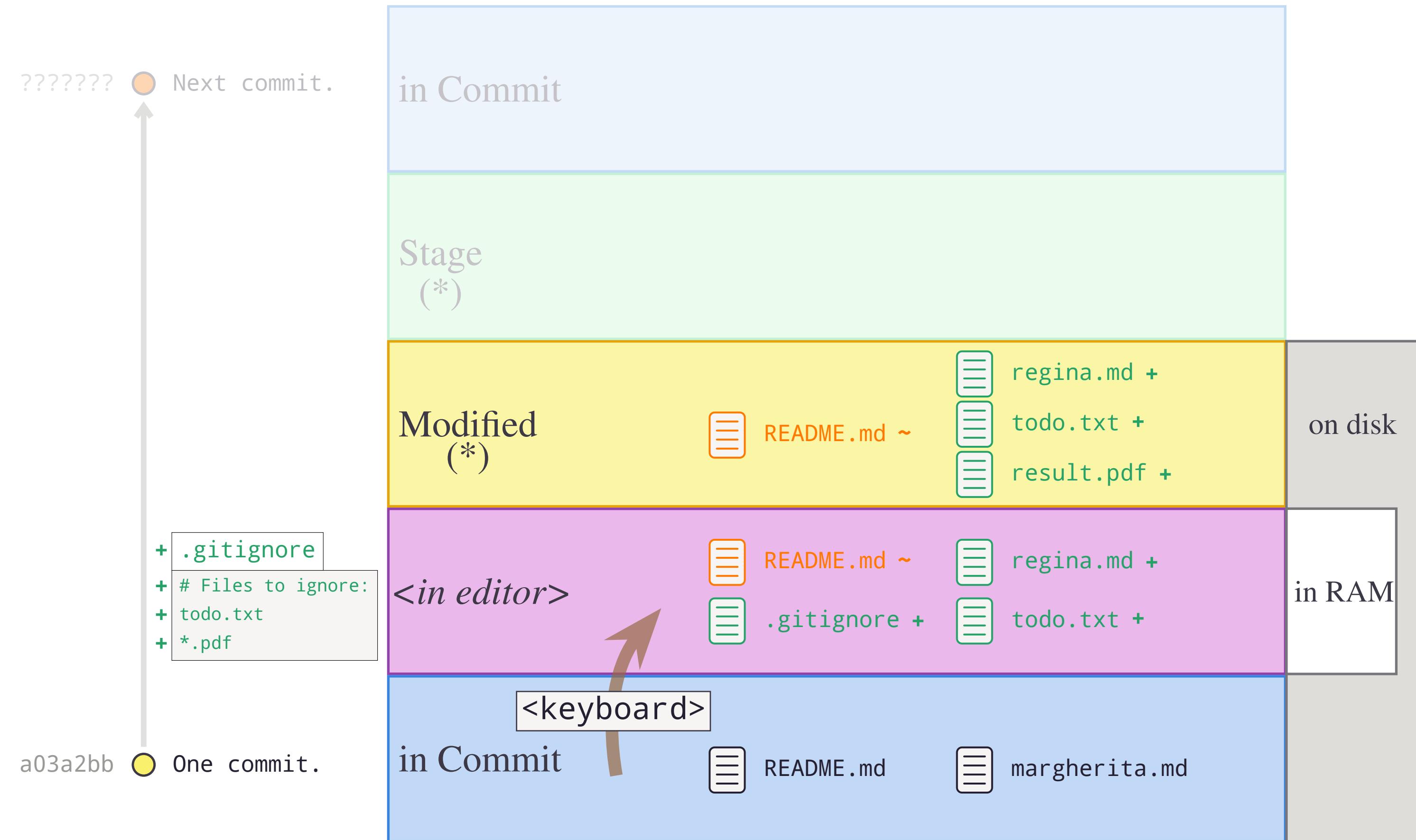
# Constructing a Commit

The Whole Process



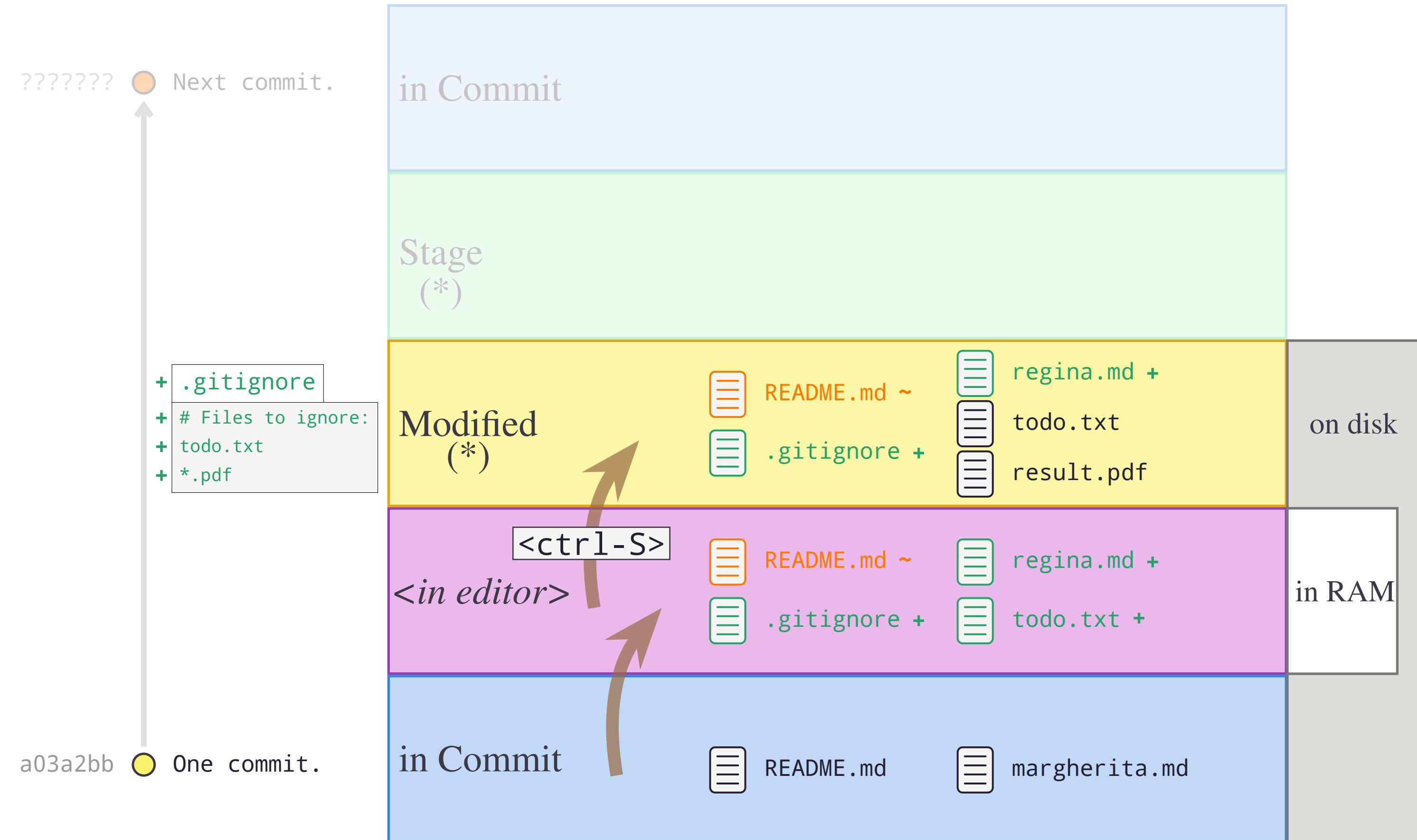
# Constructing a Commit

## The Whole Process



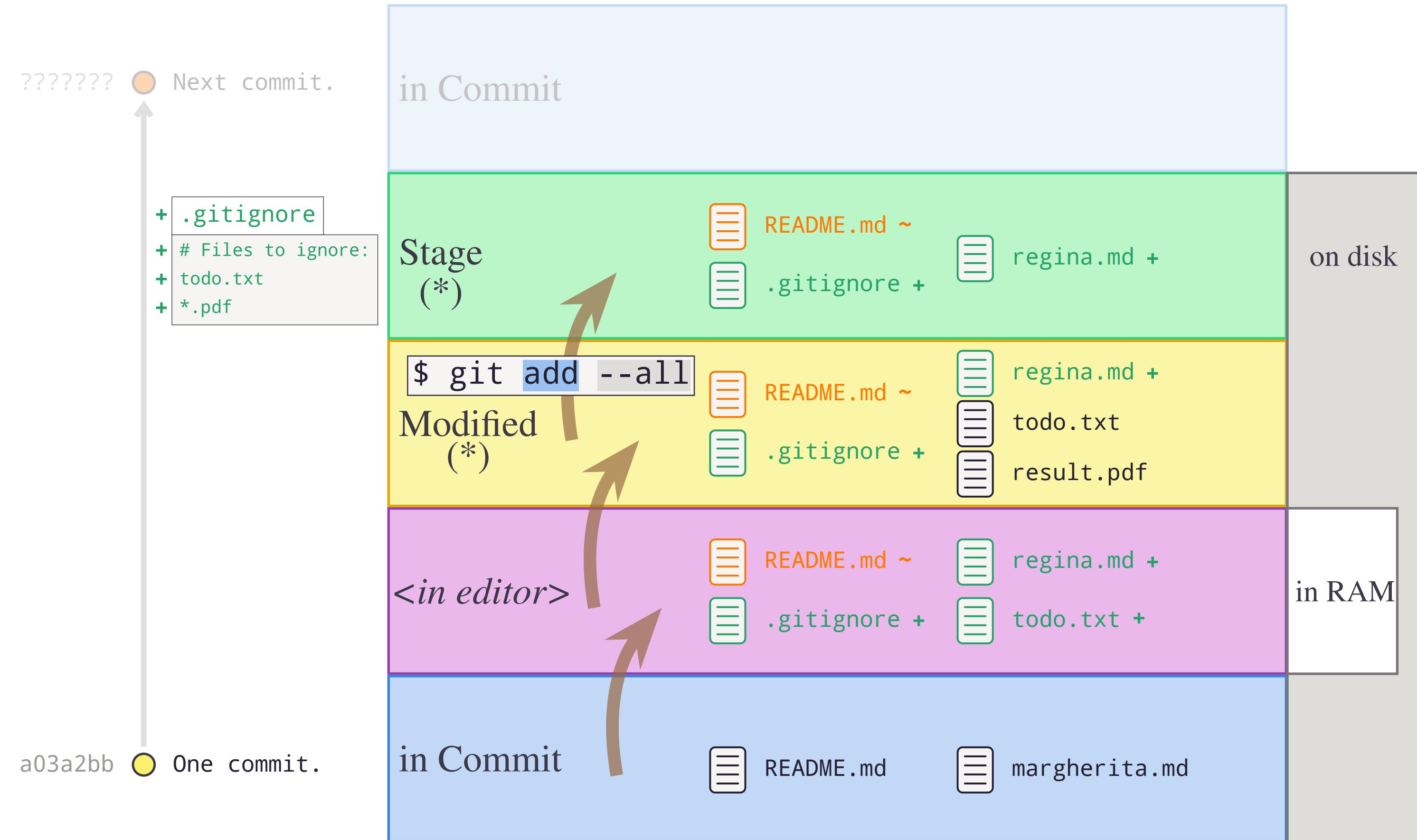
# Constructing a Commit

The Whole Process



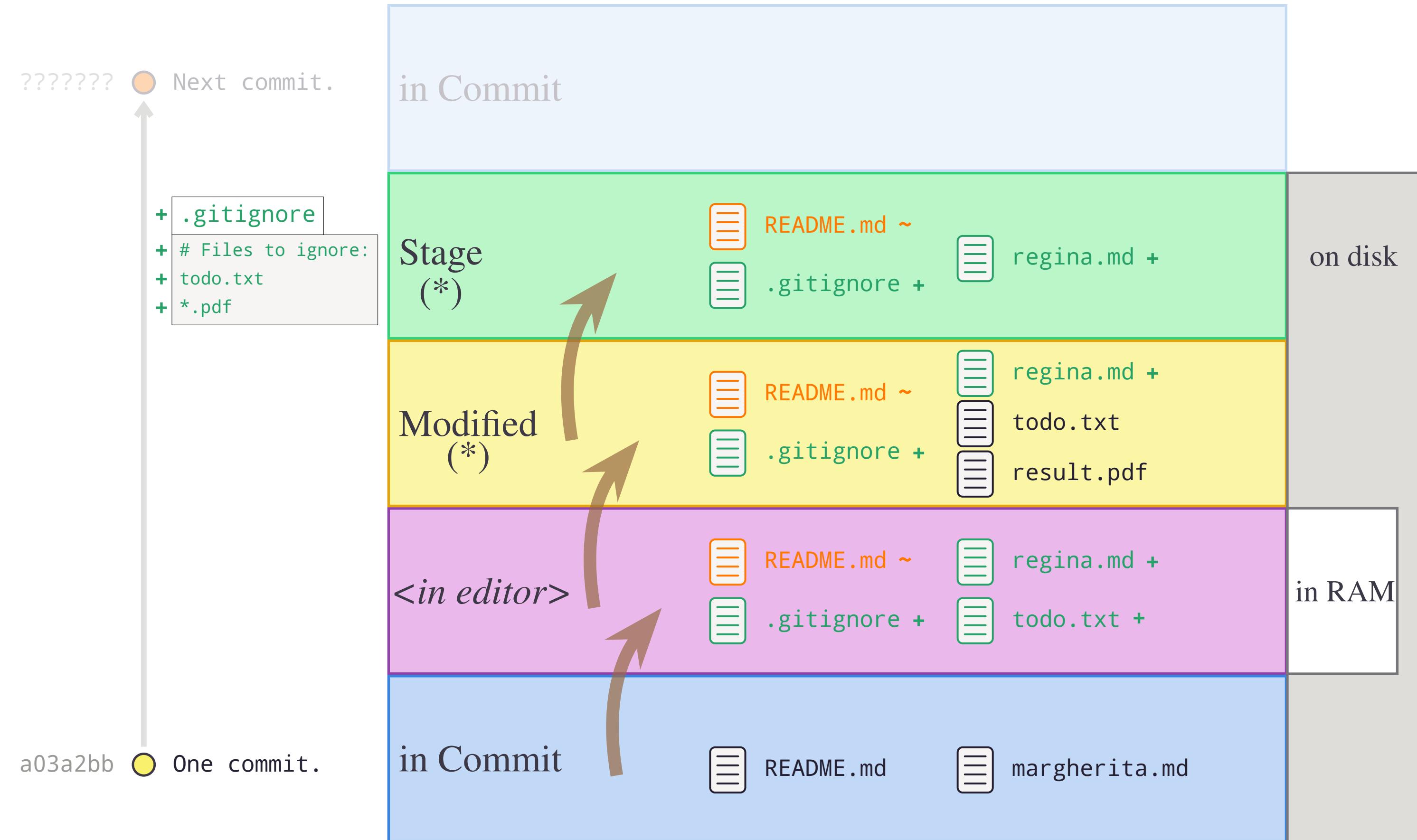
# Constructing a Commit

The Whole Process



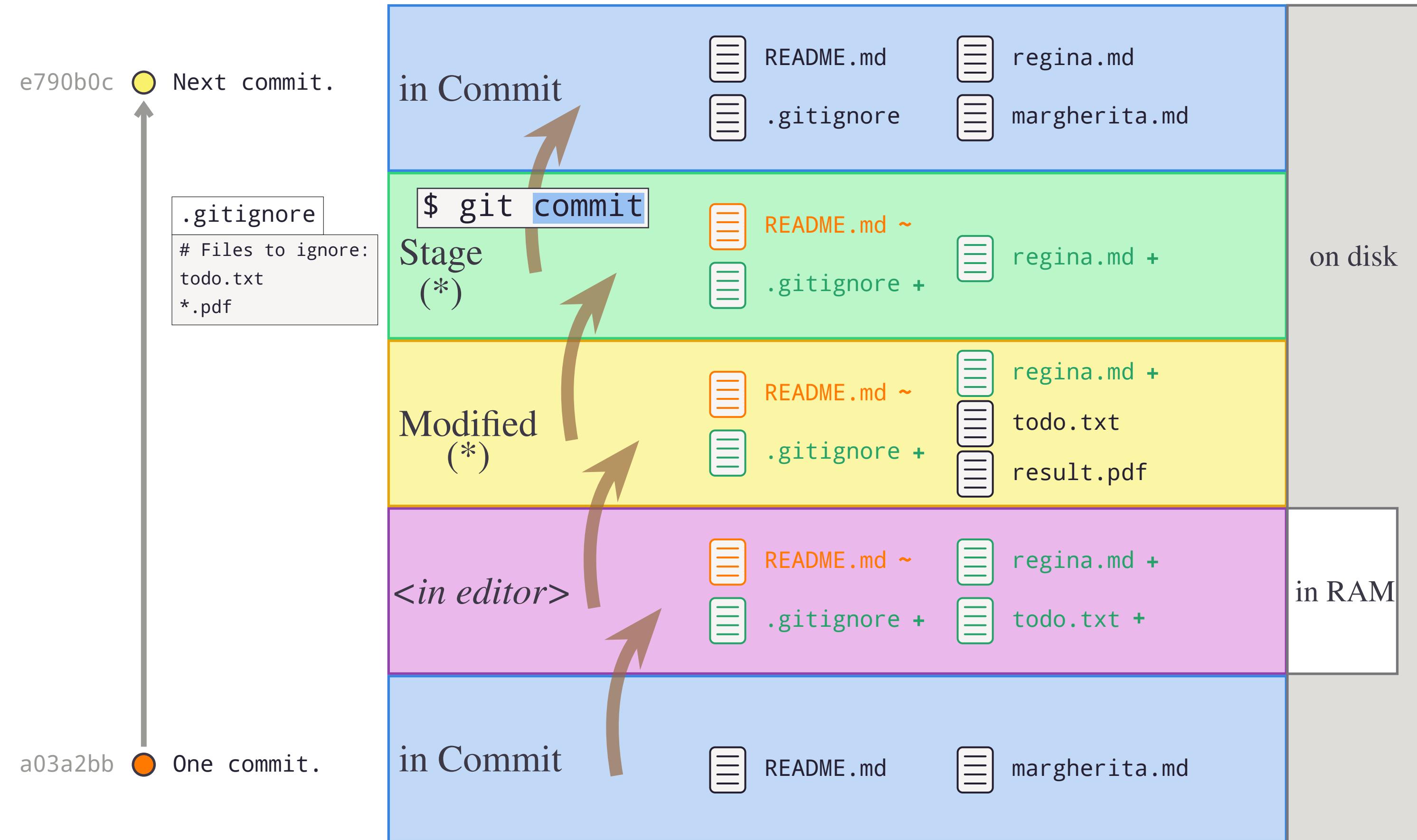
# Constructing a Commit

The Whole Process



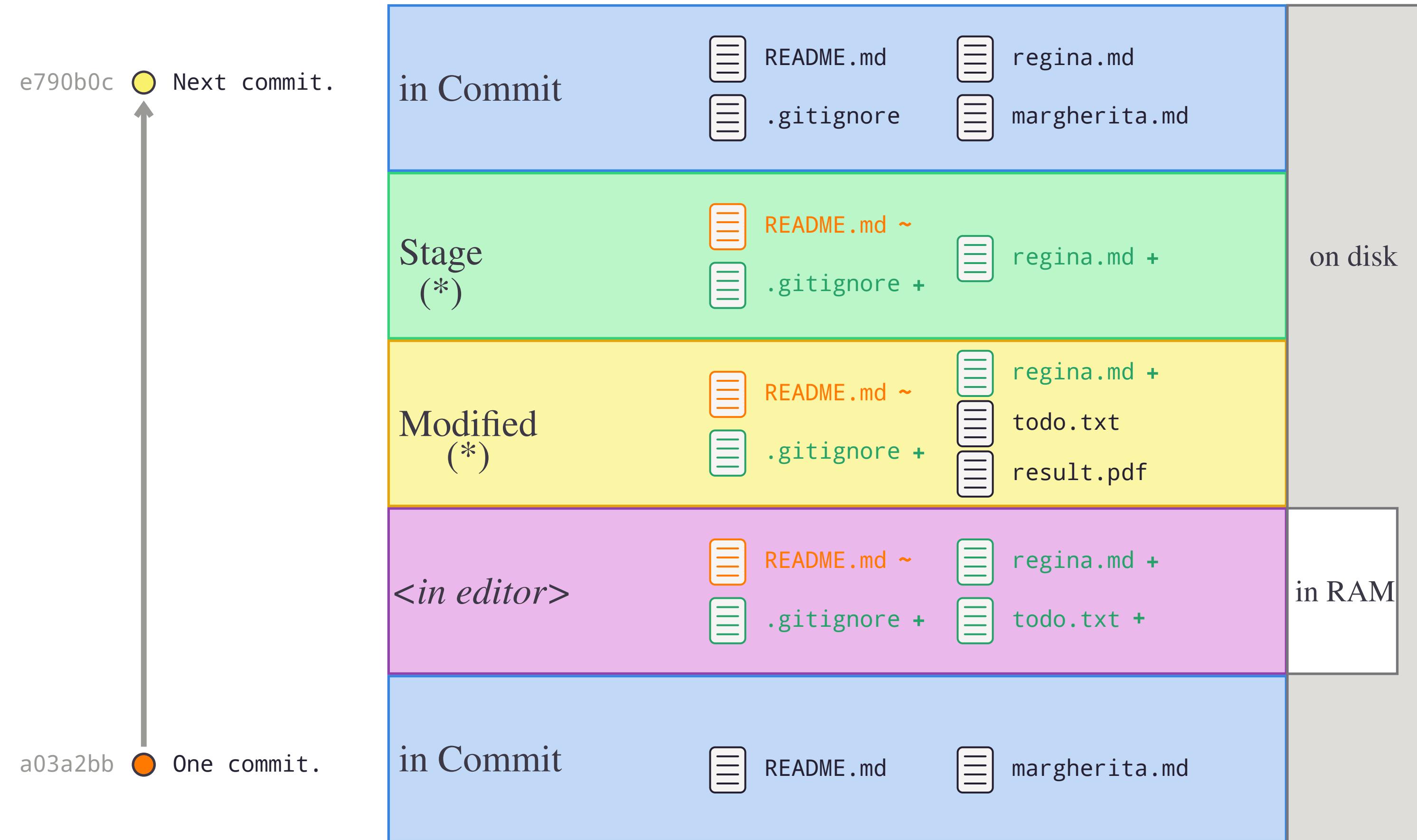
# Constructing a Commit

The Whole Process



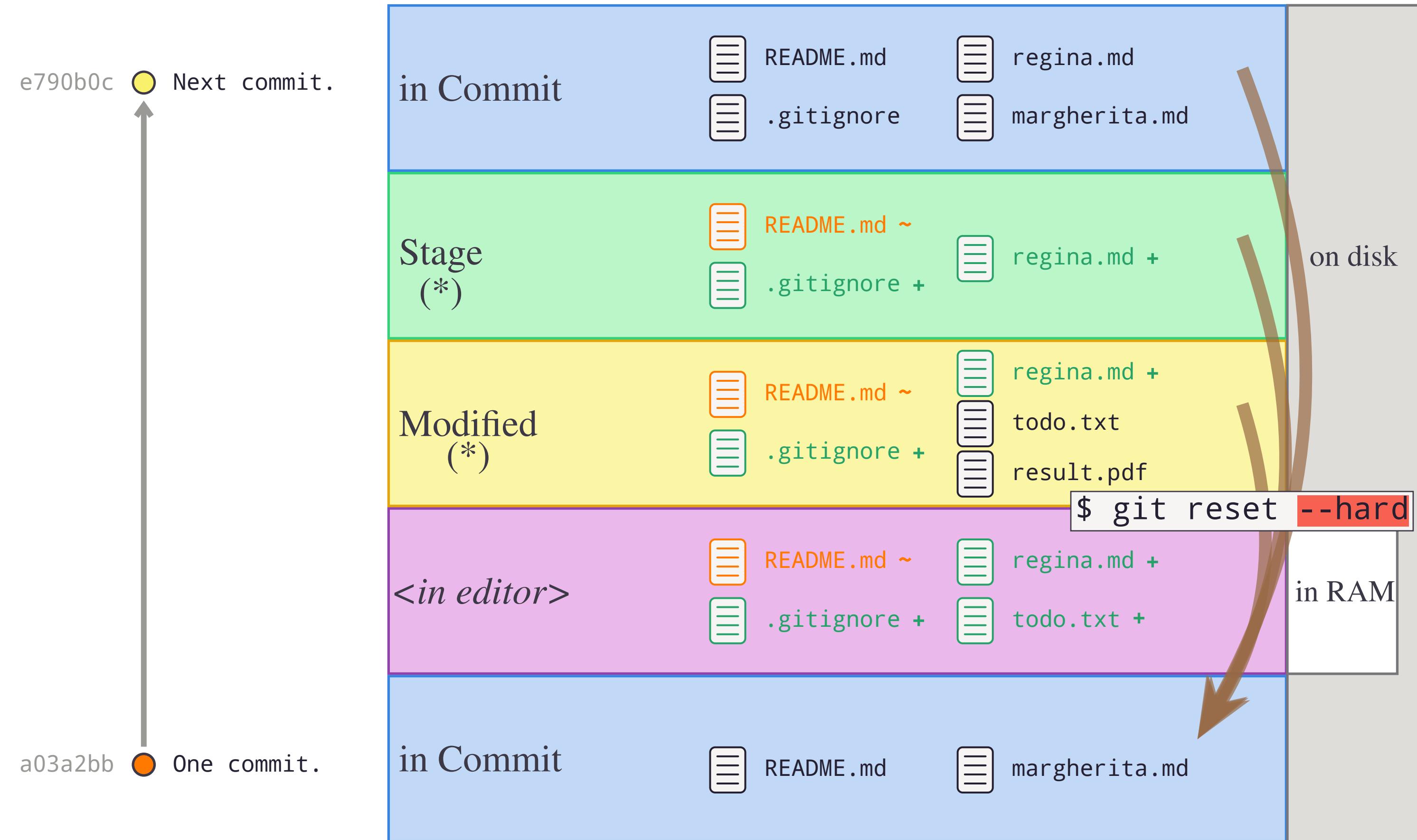
# Constructing a Commit

The Whole Process



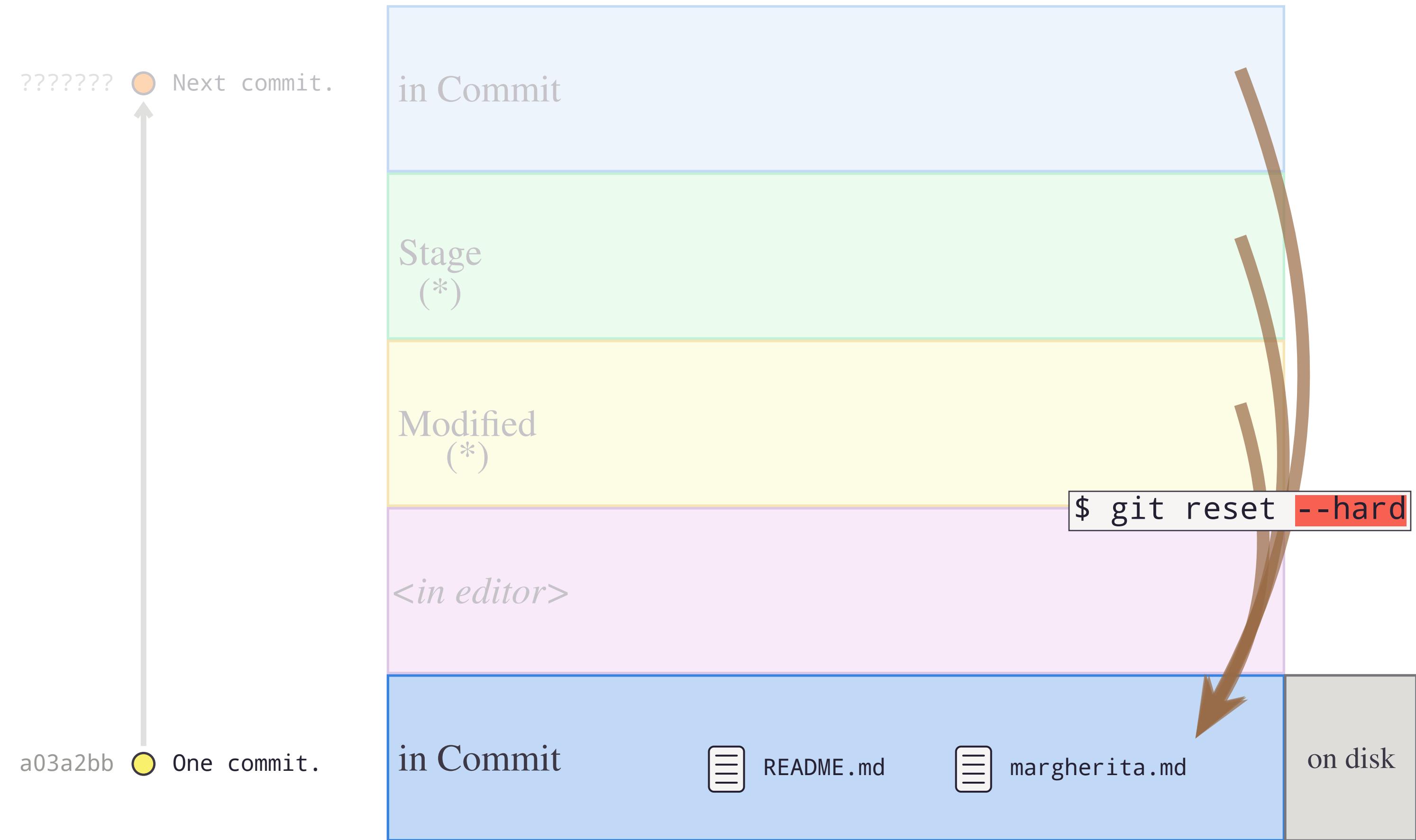
# Constructing a Commit

The Whole Process



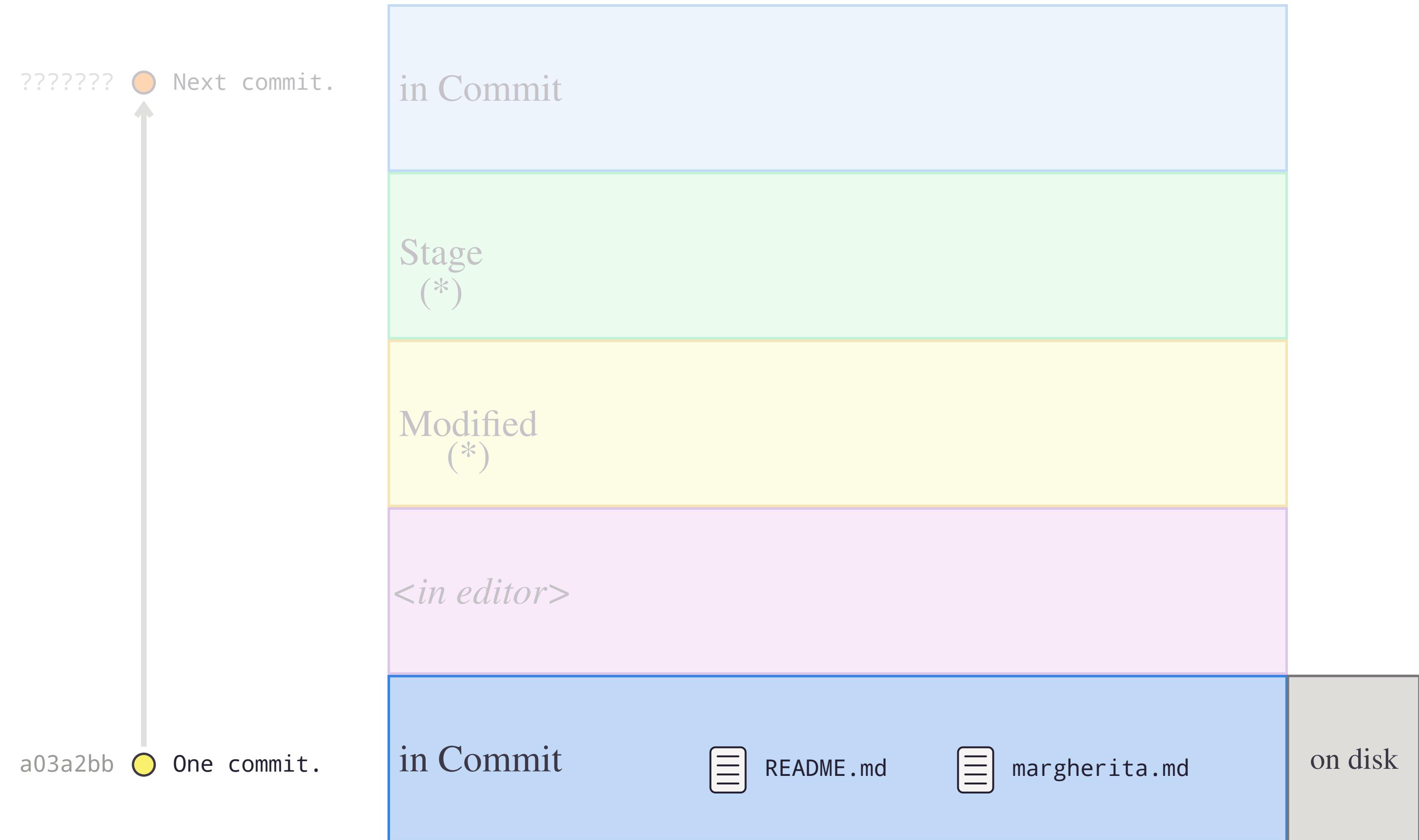
# Constructing a Commit

The Whole Process



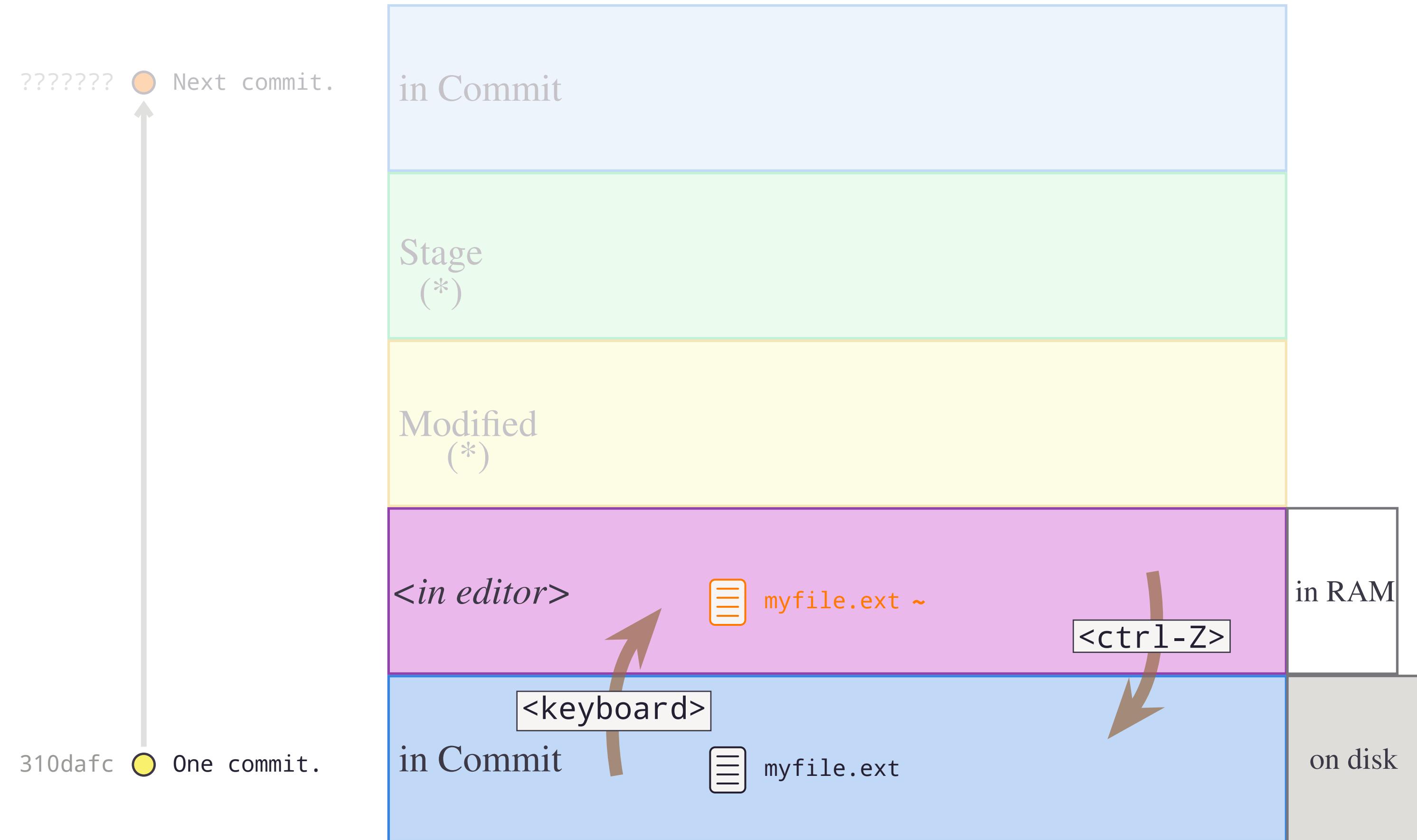
# Constructing a Commit

The Whole Process



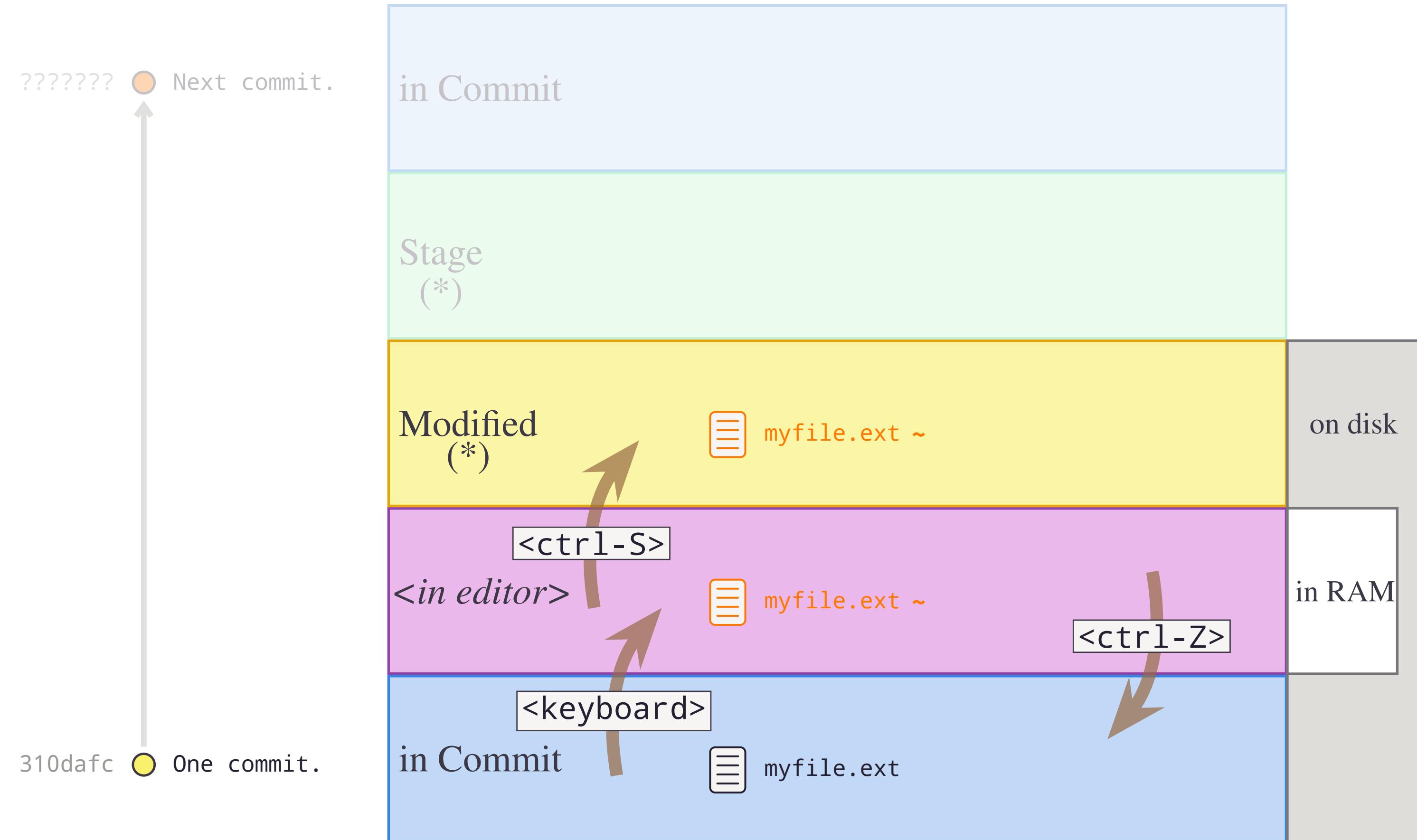
# Constructing a Commit

The Whole Process



# Constructing a Commit

The Whole Process



# Constructing a Commit

The Whole Process

???????

○ Next commit.

in Commit

Stage  
(\*)



myfile.ext ~

\$ git add

Modified  
(\*)



myfile.ext ~

<ctrl-S>

<in editor>



myfile.ext ~

<keyboard>

in Commit



myfile.ext

on disk

in RAM

<ctrl-Z>

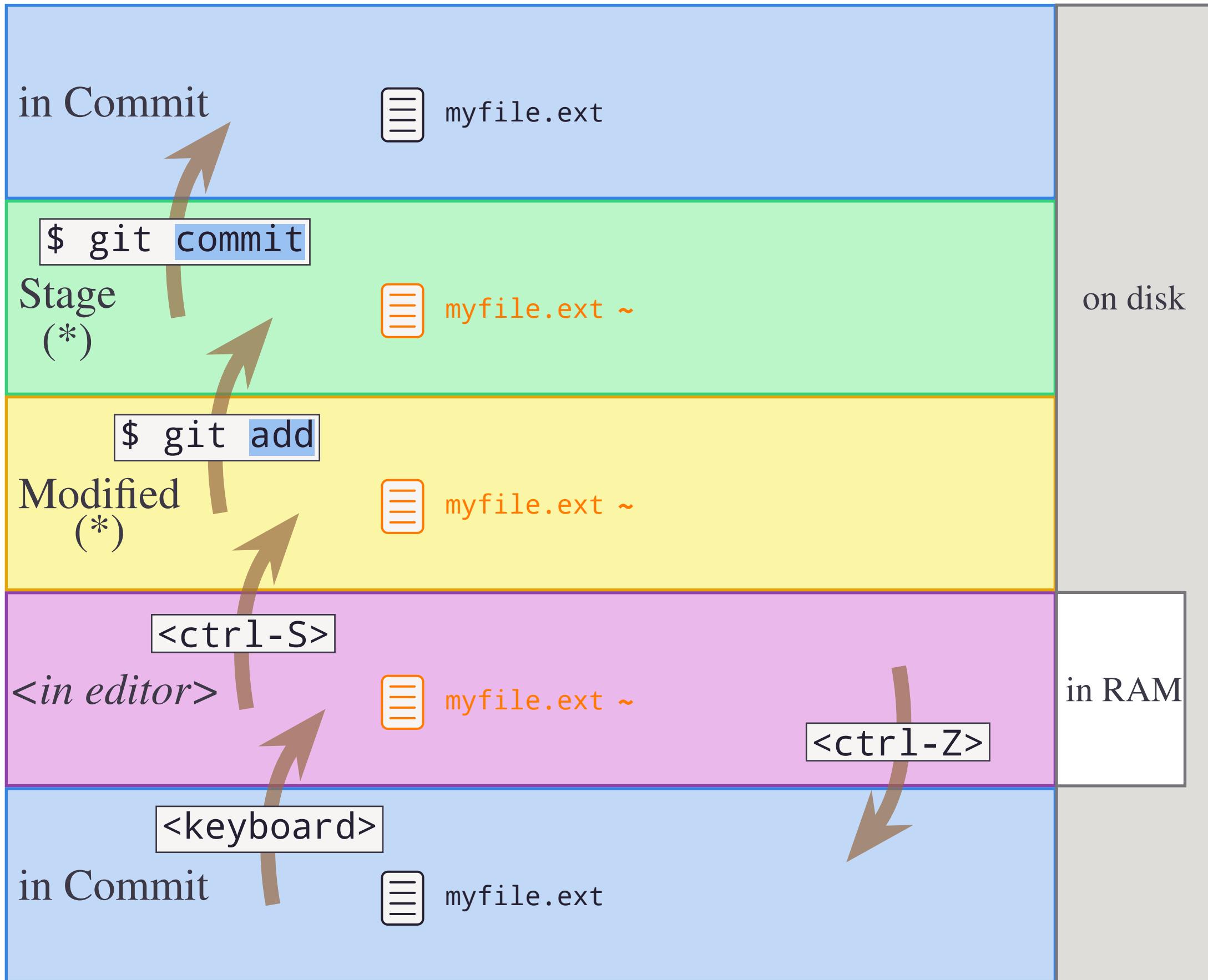
310dafc

○ One commit.

# Constructing a Commit

The Whole Process

c451c98 ● Next commit.

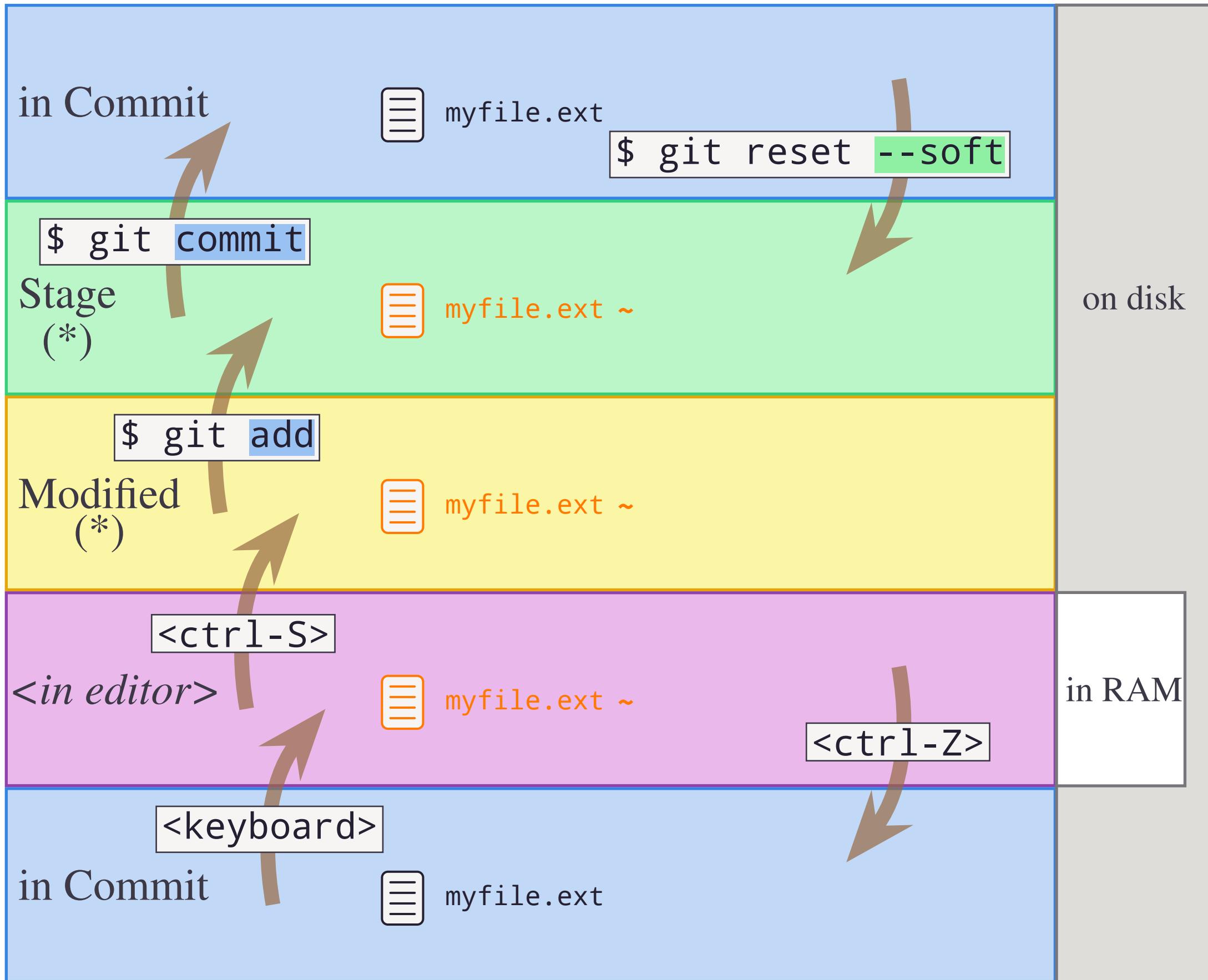


310dafc ● One commit.

# Constructing a Commit

The Whole Process

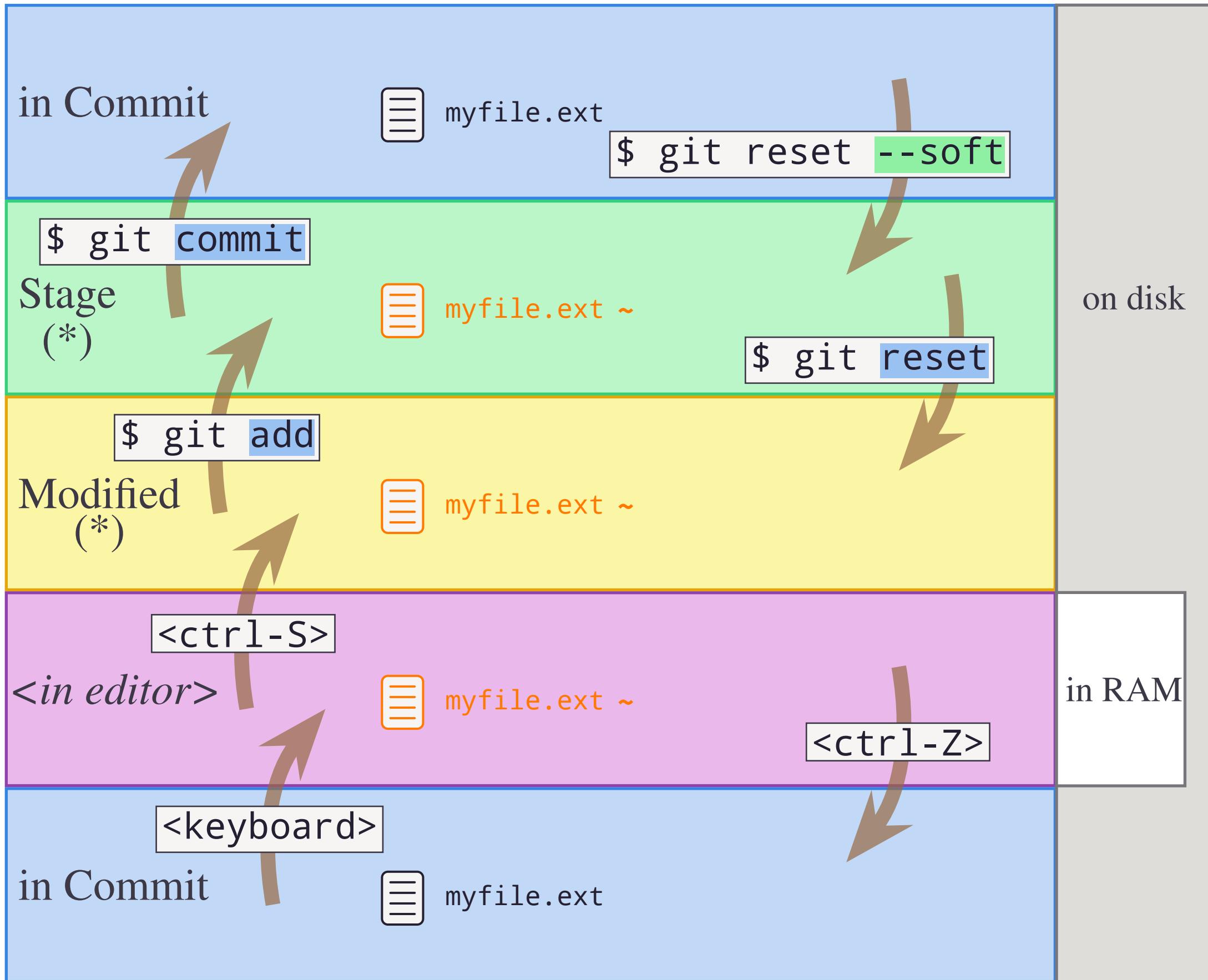
c451c98 ● Next commit.



# Constructing a Commit

The Whole Process

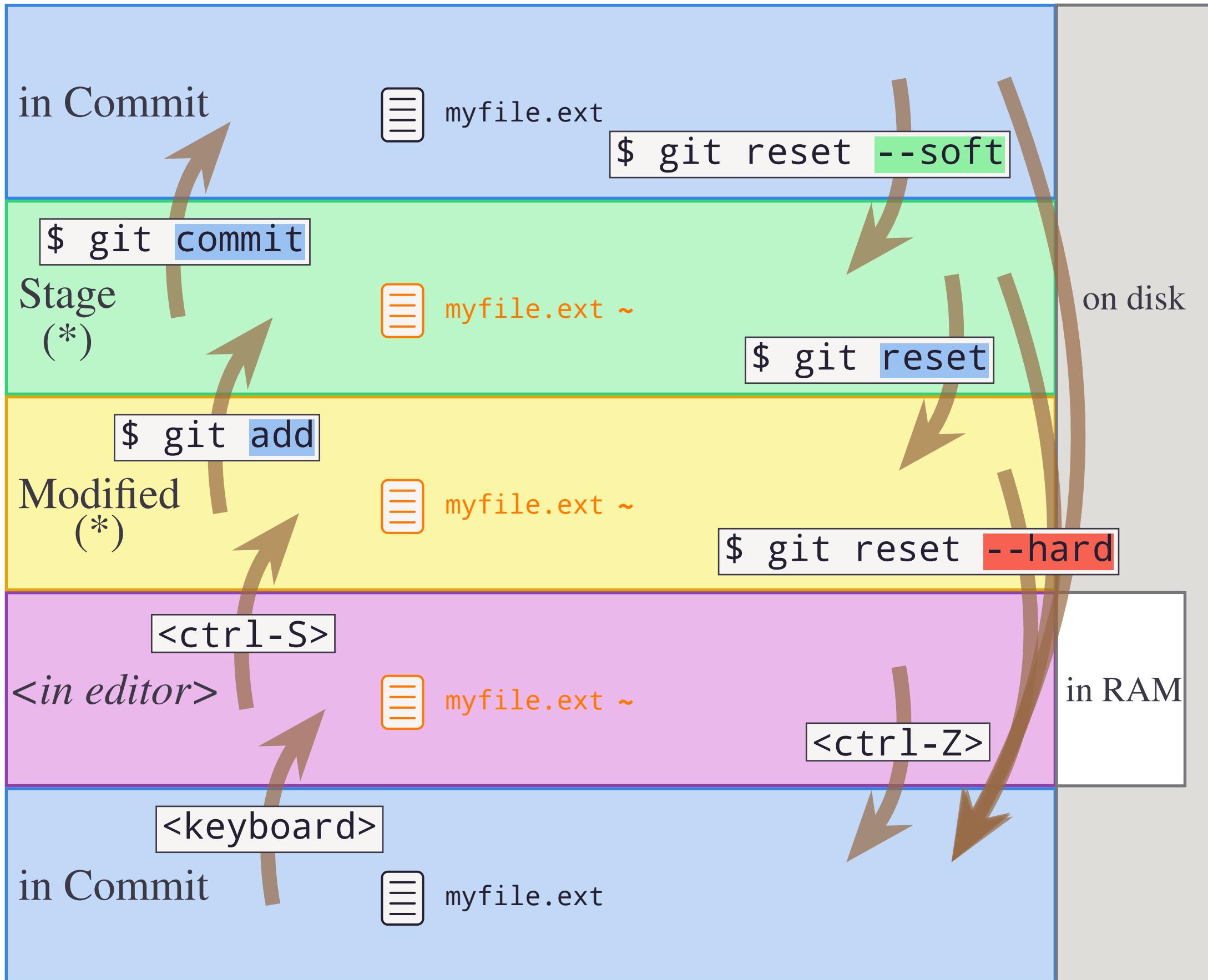
c451c98 ● Next commit.



# Constructing a Commit

The Whole Process

c451c98 ● Next commit.



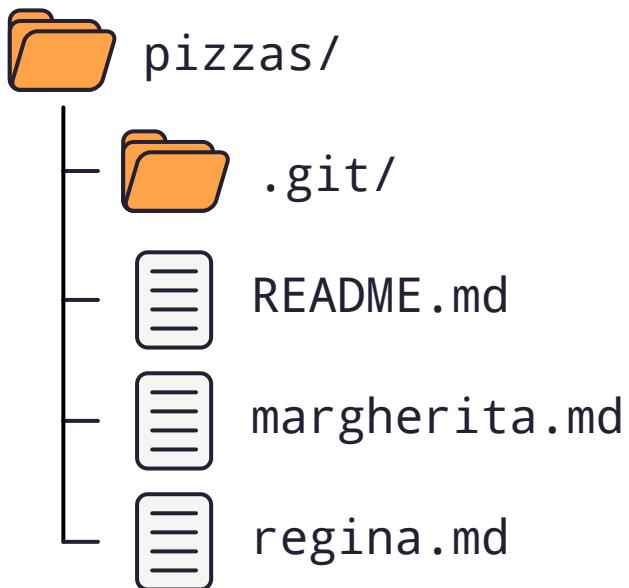
310dafc ● One commit.

# Share Your Project Online

---

# Share Your Project

## Creating a Remote Repository



### README.md

Collect and distribute the best pizzas recipes.  
Where to find the pizzas in the project:

- Margherita: `./margherita.md`
- Regina: `./regina.md`

### margherita.md

# Margherita  
  
The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.

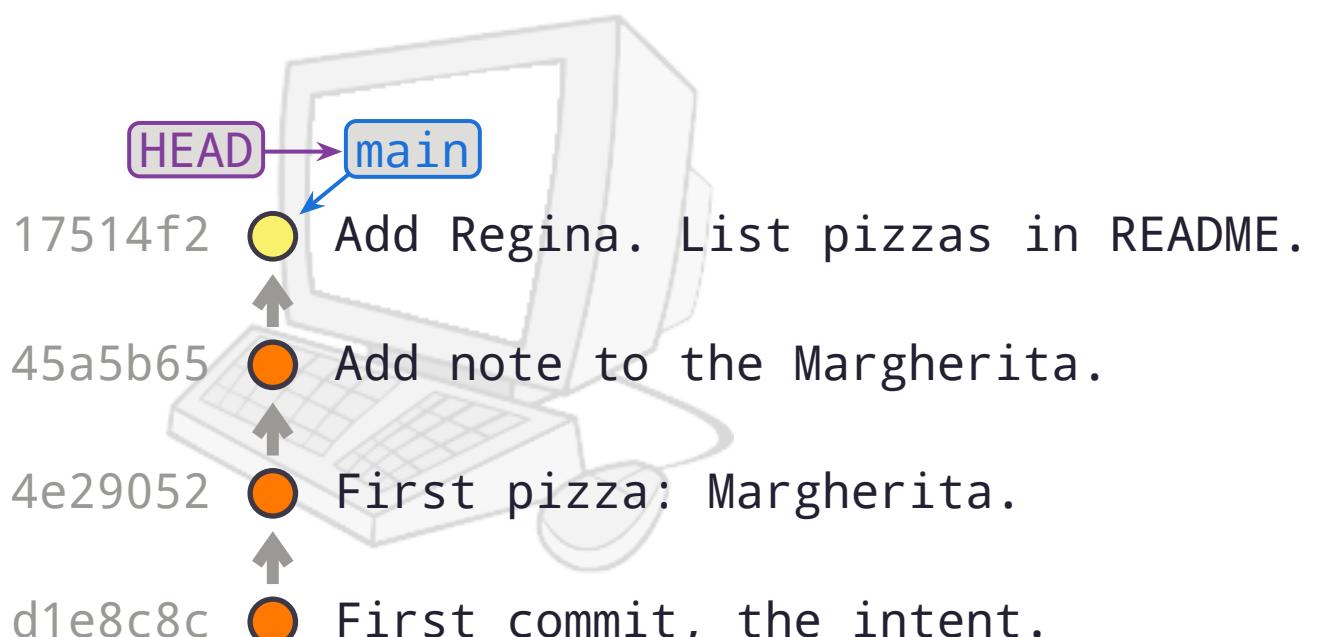
Base: tomato sauce  
Topping:  
- Mozzarella

\*Note:  
It is said that this pizza  
has only three ingredients  
corresponding to the three colors  
on the Italian flag.  
Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.  
- Basil

### regina.md

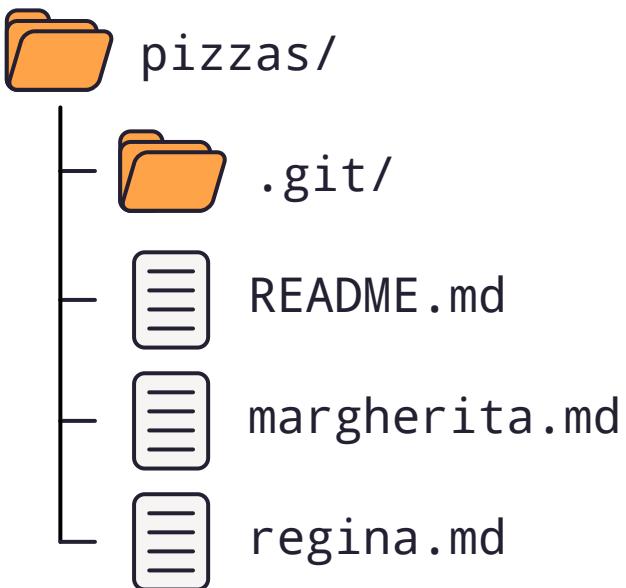
# Regina  
  
This audacious pizza  
would be named from queen  
Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.

Base: tomato sauce  
Topping:  
- Mozzarella  
- Ham  
- Mushrooms



# Share Your Project

## Creating a Remote Repository



### README.md

Collect and distribute the best pizzas recipes.  
Where to find the pizzas in the project:

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- Regina: `./regina.md`

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The simplest and most famous,  
the one to pick when you're unsure  
whether the cook is good.  
  
Base: tomato sauce  
Topping:

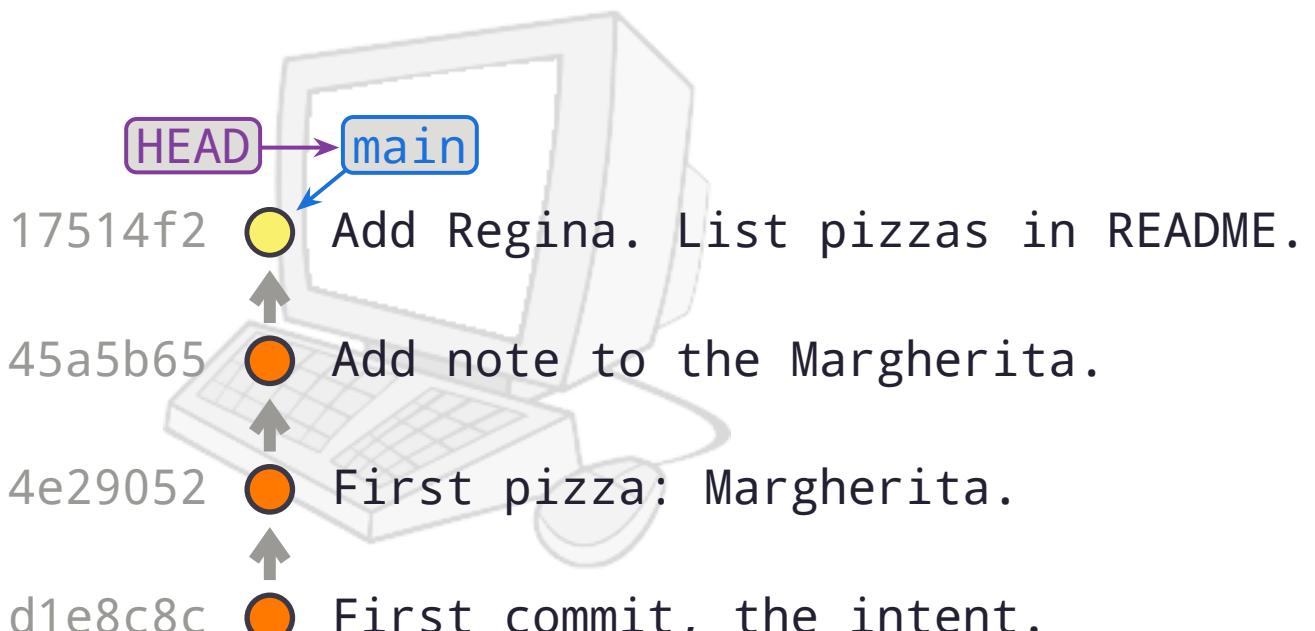
- Mozzarella

  
\*Note:  
It is said that this pizza  
has only three ingredients  
corresponding to the three colors  
on the Italian flag.  
Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.  
- Basil

### regina.md

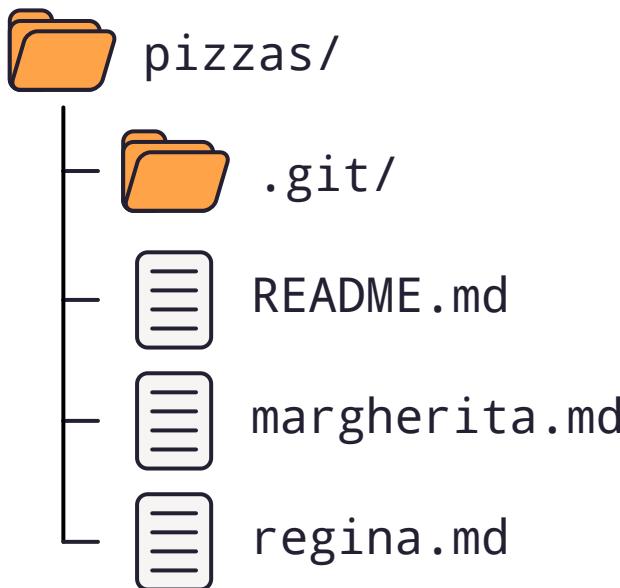
# Regina  
  
This audacious pizza  
would be named from queen  
Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.  
  
Base: tomato sauce  
Topping:

- Mozzarella
- Ham
- Mushrooms

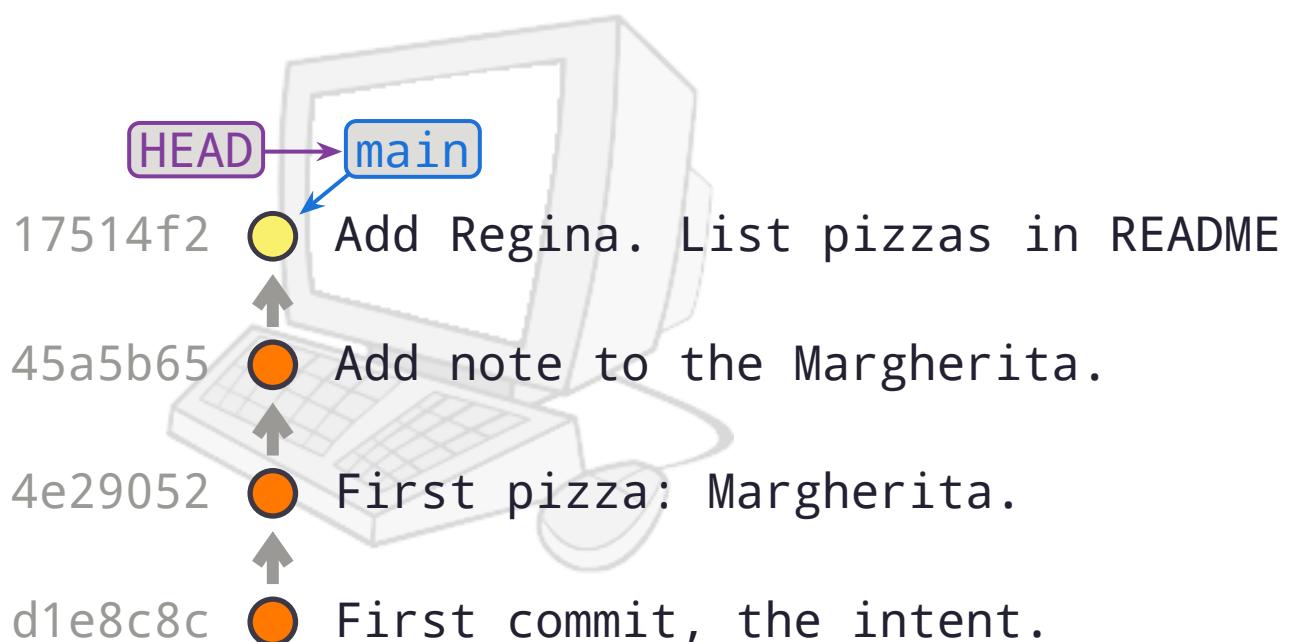


# Share Your Project

## Creating a Remote Repository

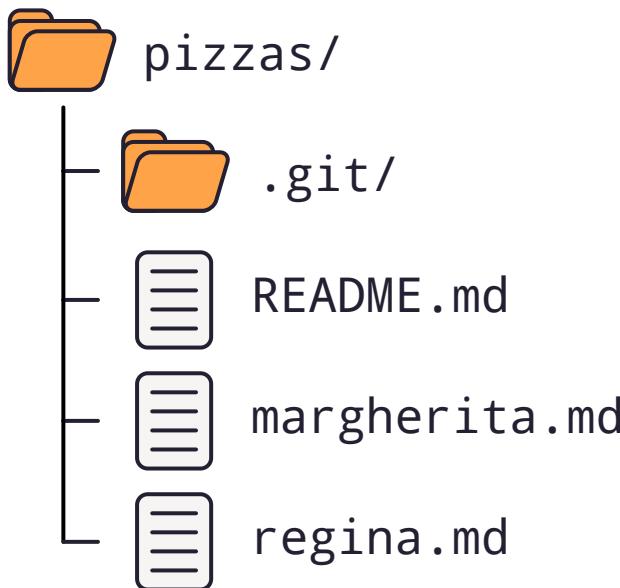


<https://gitlab.com/MyAccount/>



# Share Your Project

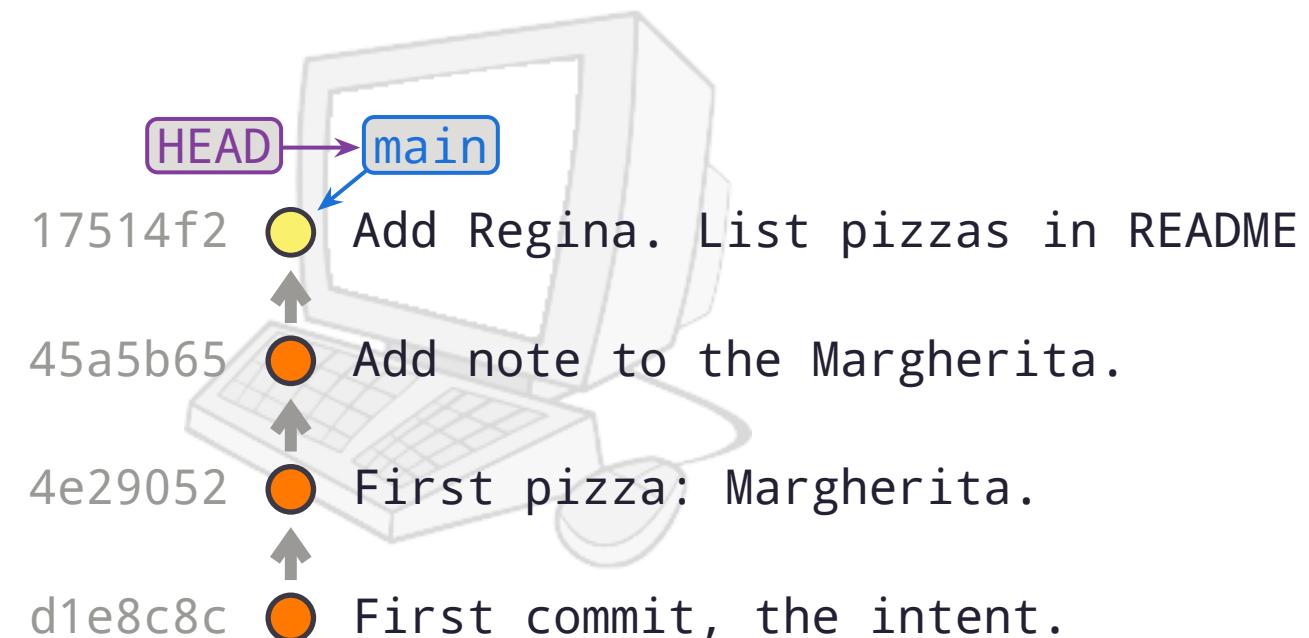
## Creating a Remote Repository



<https://gitlab.com/MyAccount/Pizzas>

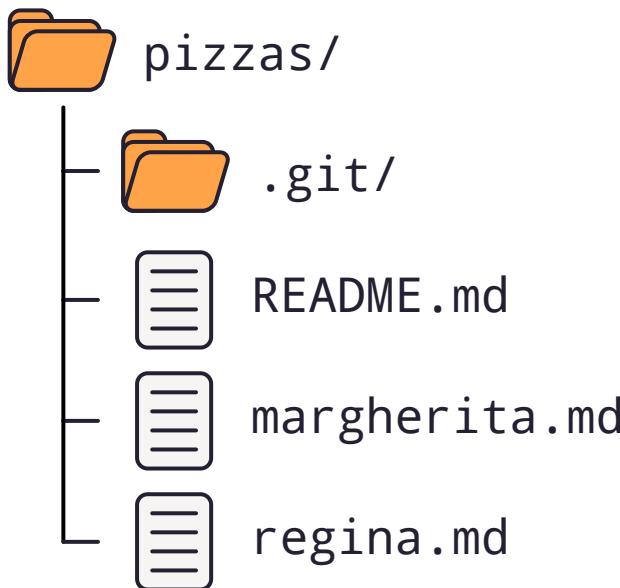


HEAD → main



# Share Your Project

## Creating a Remote Repository

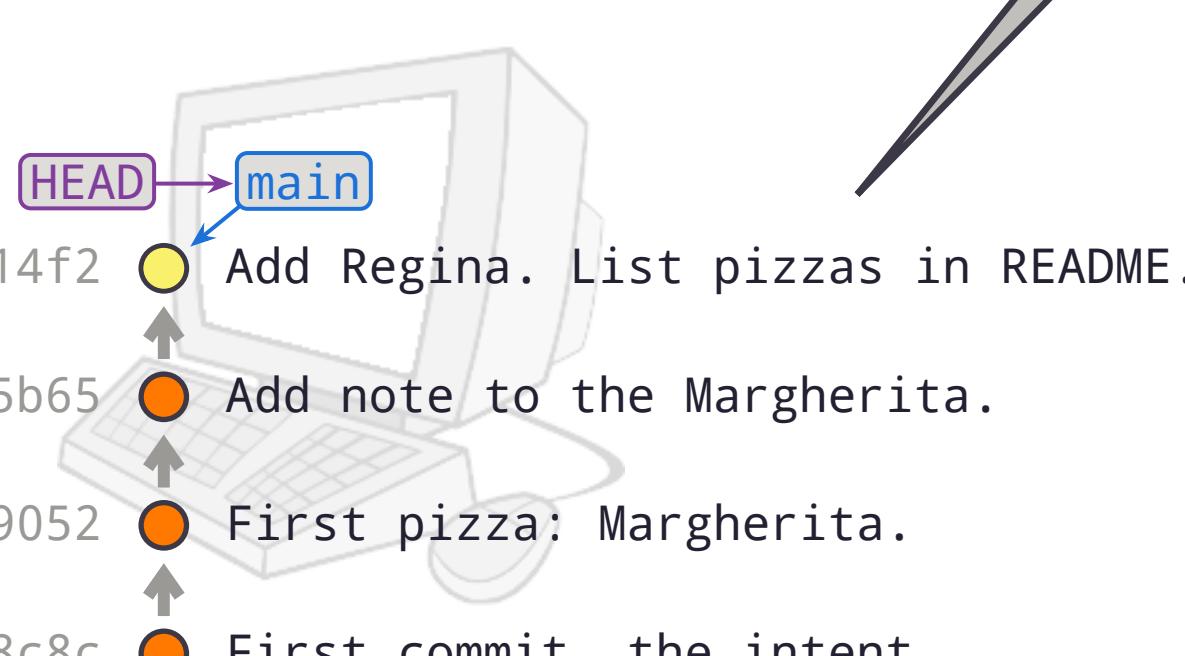


<https://gitlab.com/MyAccount/Pizzas>



HEAD → main

```
$ git remote add gitlab <url>
```



# Share Your Project

## Creating a Remote Repository

pizzas/

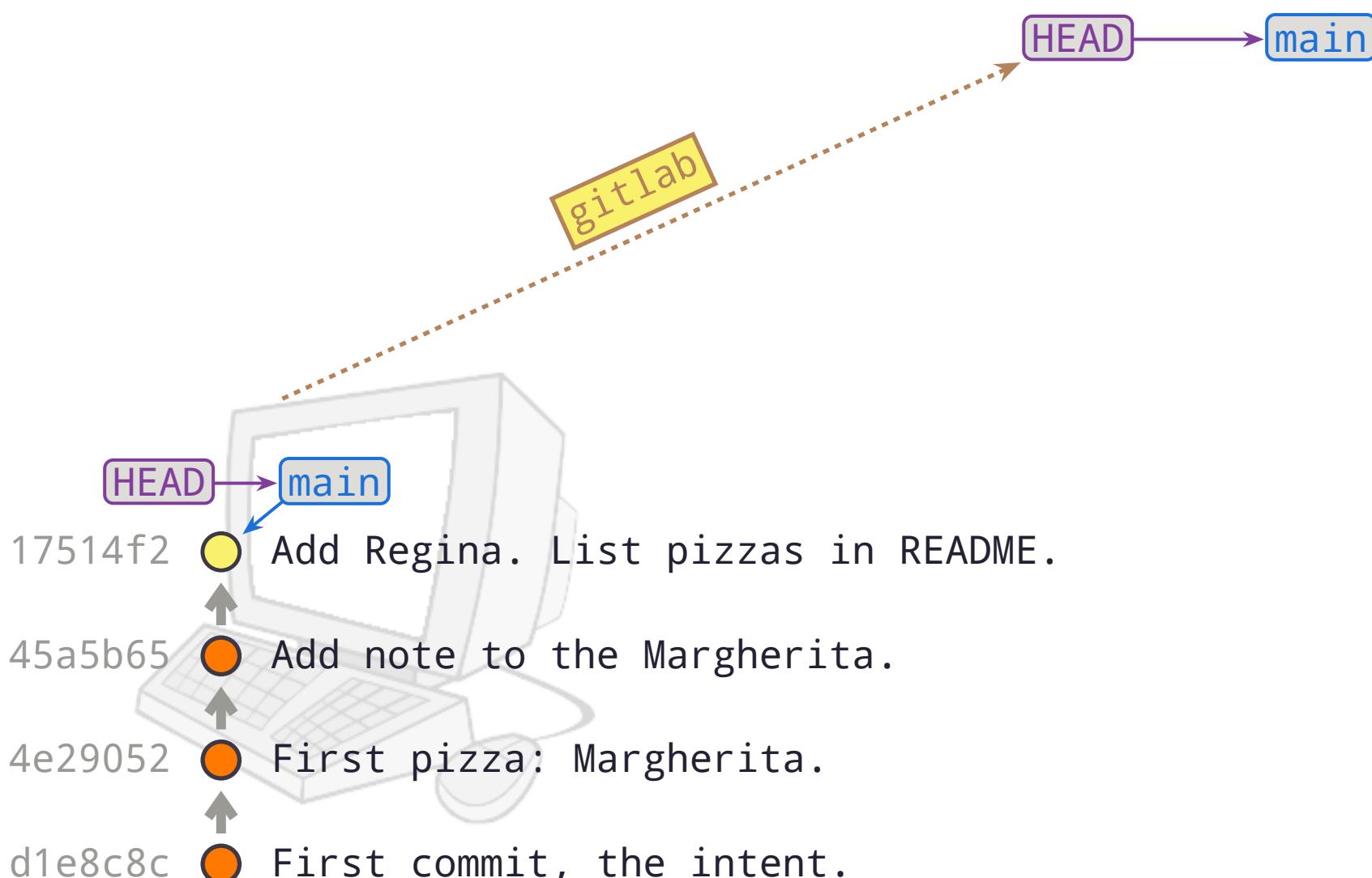


README.md

margherita.md

regina.md

<https://gitlab.com/MyAccount/Pizzas>

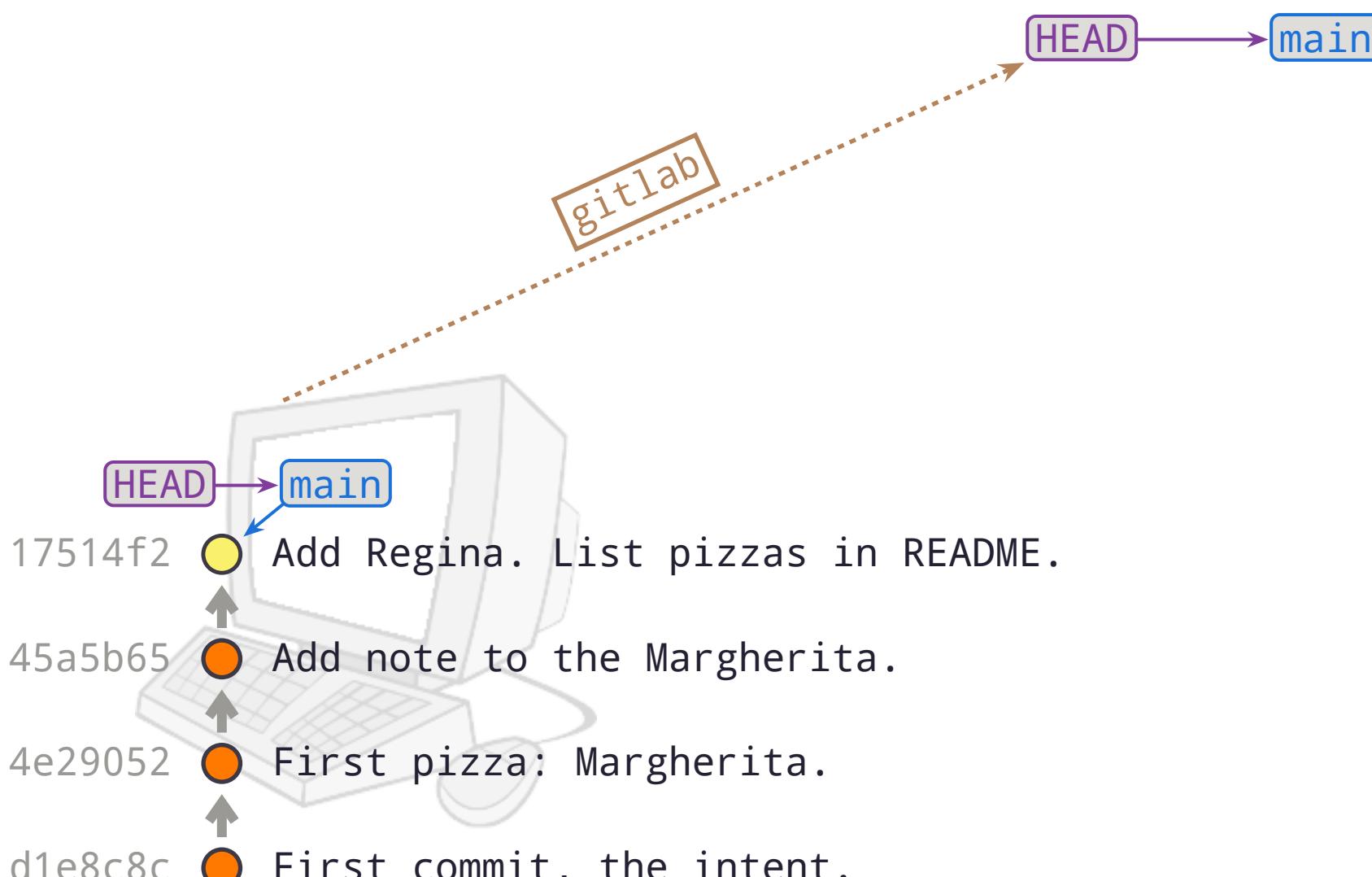


# Share Your Project

## Creating a Remote Repository



<https://gitlab.com/MyAccount/Pizzas>



# Share Your Project

## Creating a Remote Repository

pizzas/

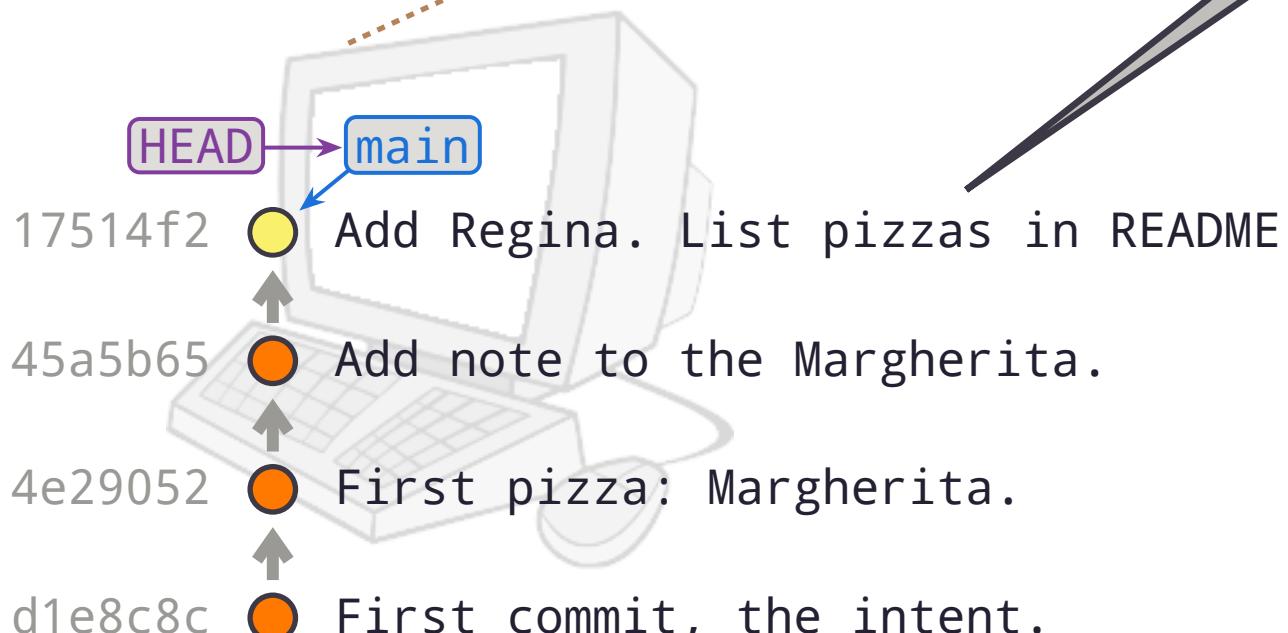
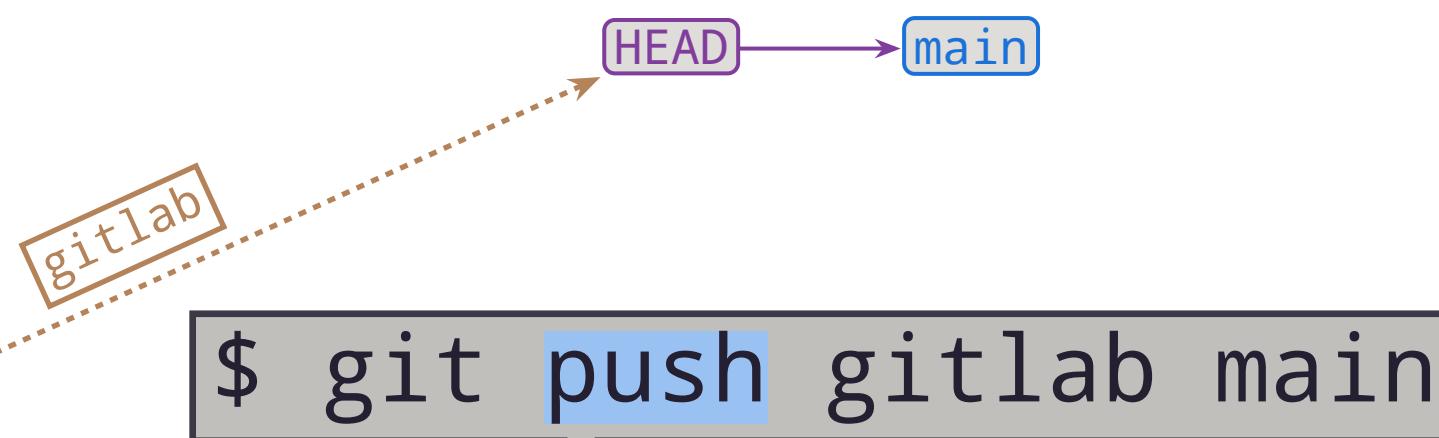
  └ .git/

    └ README.md

    └ margherita.md

    └ regina.md

<https://gitlab.com/MyAccount/Pizzas>



# Share Your Project

## Creating a Remote Repository

pizzas/

  └ .git/

    └ README.md

    └ margherita.md

    └ regina.md

<https://gitlab.com/MyAccount/Pizzas>



HEAD → main

gitlab

\$ git push gitlab main

HEAD → main

17514f2 Add Regina. List pizzas in README.

45a5b65 Add note to the Margherita.

4e29052 First pizza: Margherita.

d1e8c8c First commit, the intent.

# Share Your Project

## Creating a Remote Repository

pizzas/

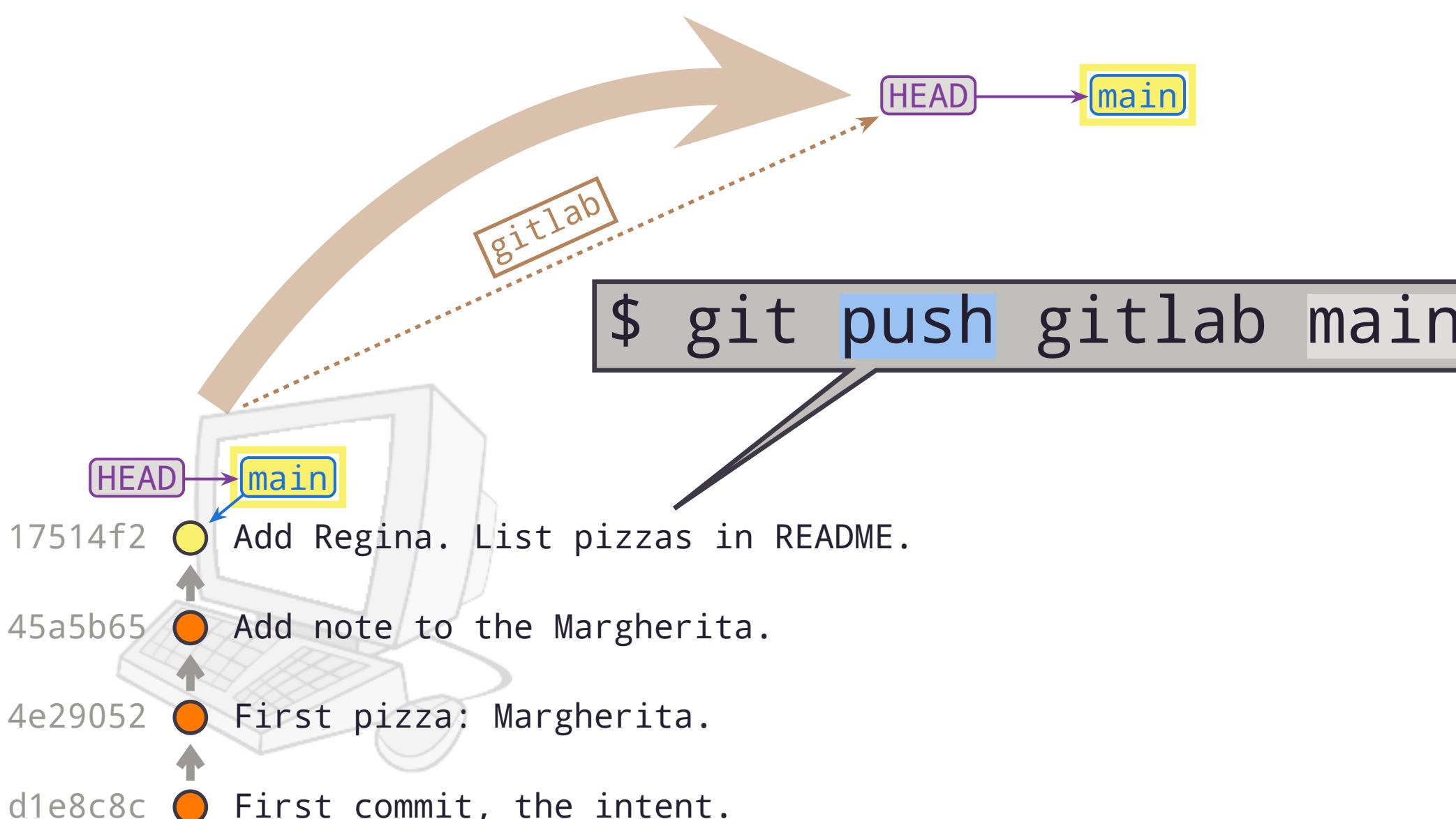
  └ .git/

    └ README.md

    └ margherita.md

    └ regina.md

<https://gitlab.com/MyAccount/Pizzas>

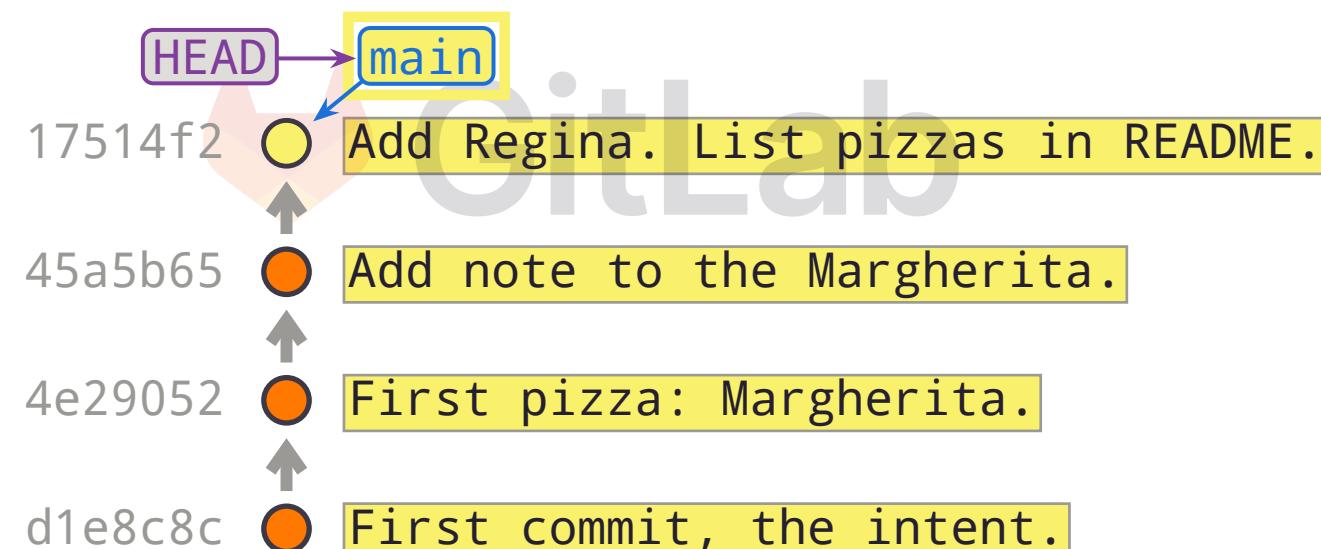


# Share Your Project

## Creating a Remote Repository



<https://gitlab.com/MyAccount/Pizzas>

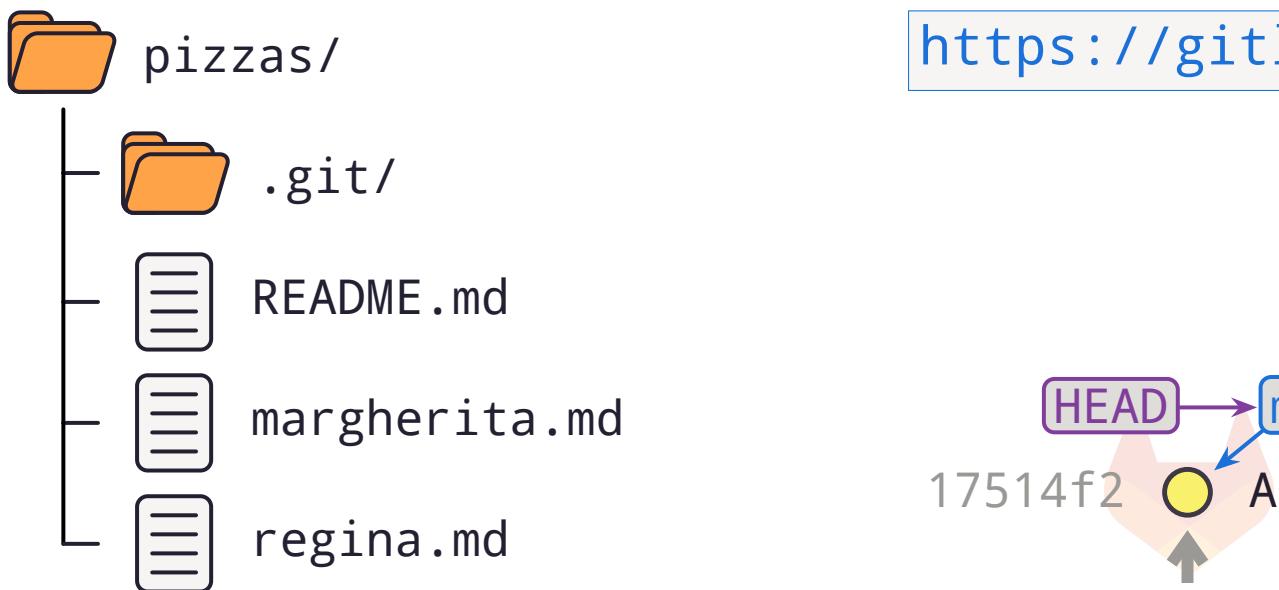


\$ git push gitlab main

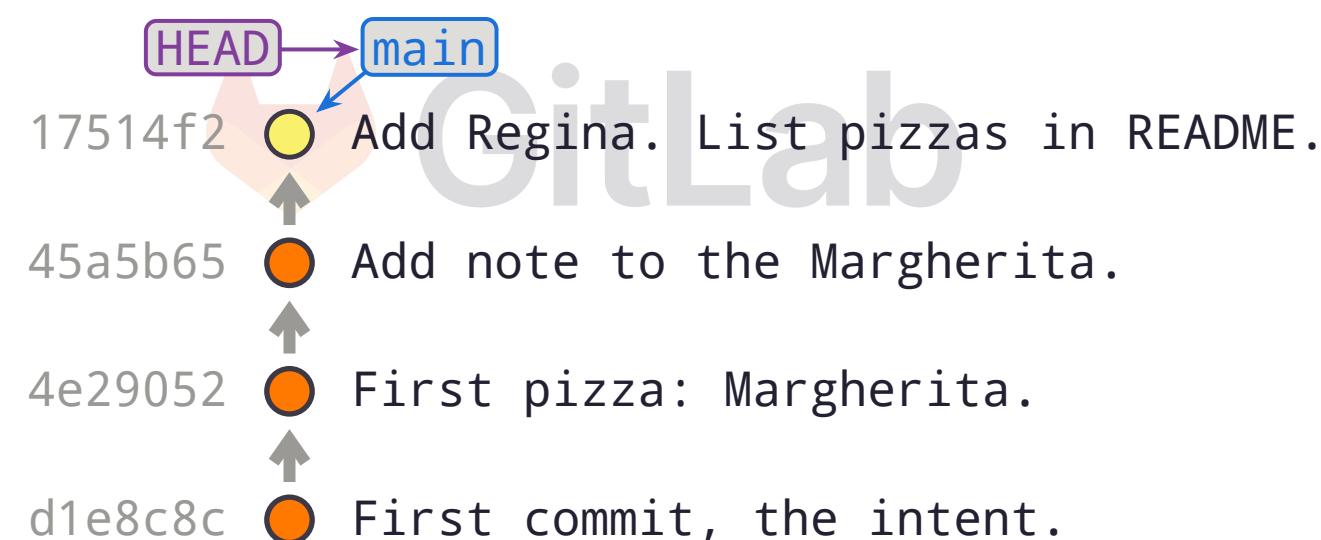


# Share Your Project

## Creating a Remote Repository

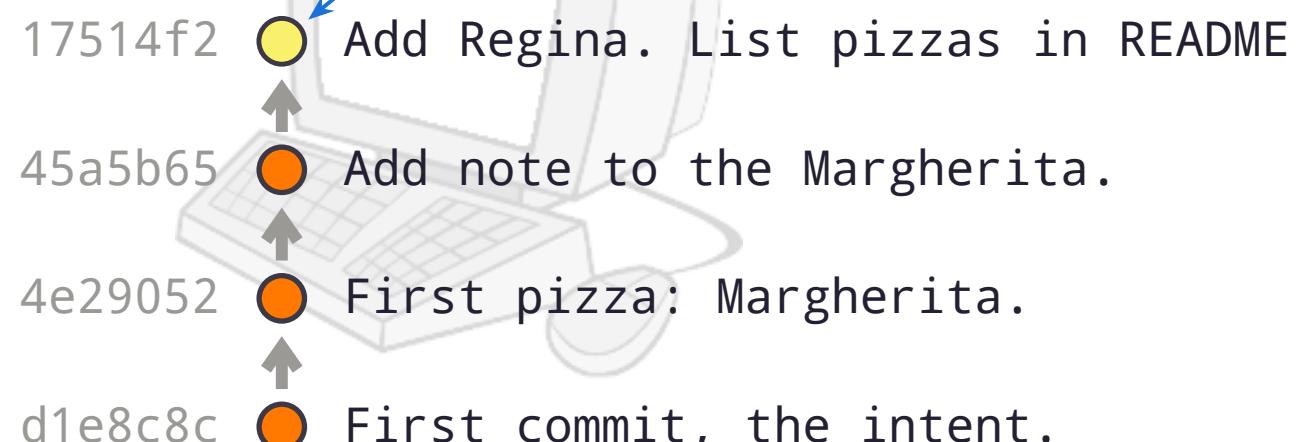


<https://gitlab.com/MyAccount/Pizzas>



gitlab

HEAD → main gitlab/main



# Share Your Project

## Creating a Remote Repository

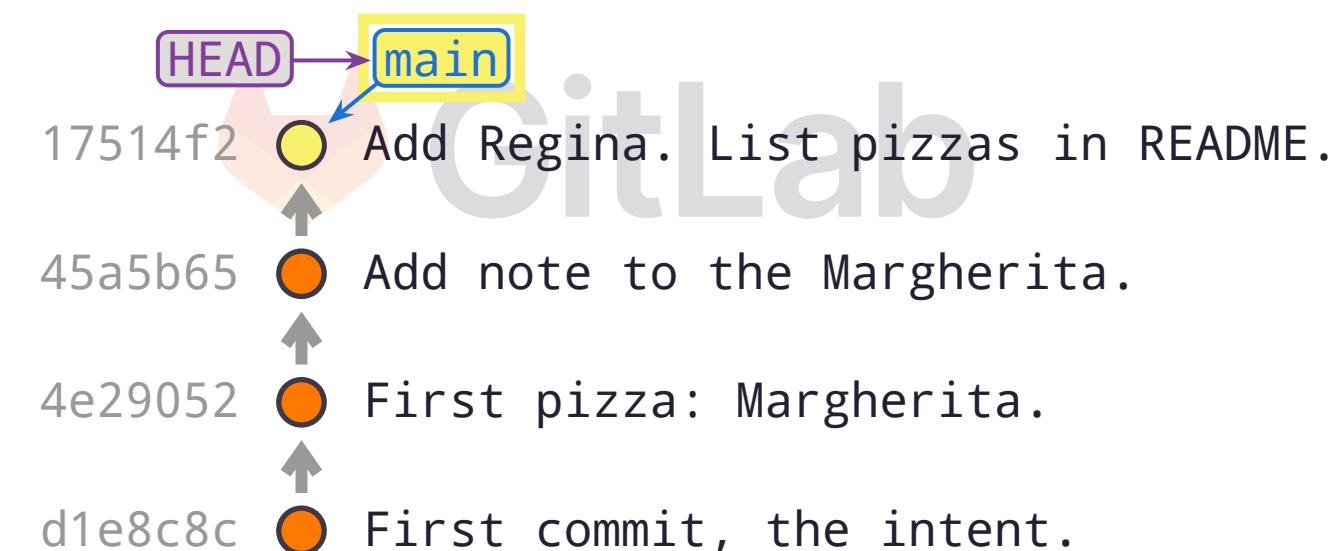


README.md

margherita.md

regina.md

<https://gitlab.com/MyAccount/Pizzas>



17514f2 Add Regina. List pizzas in README.

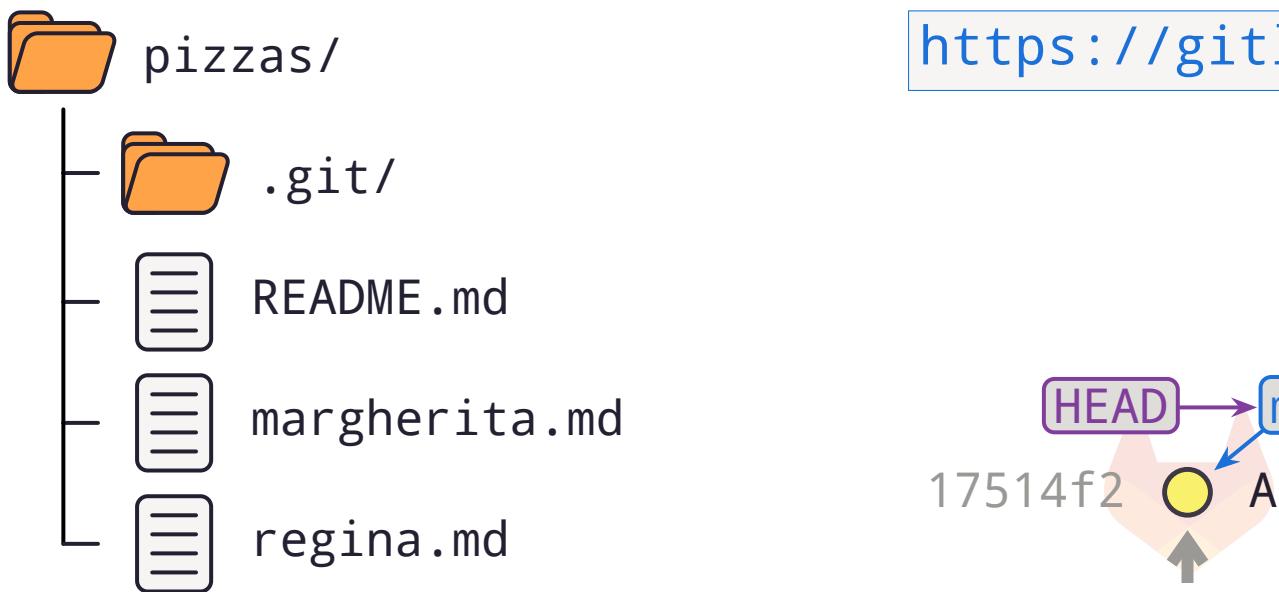
45a5b65 Add note to the Margherita.

4e29052 First pizza: Margherita.

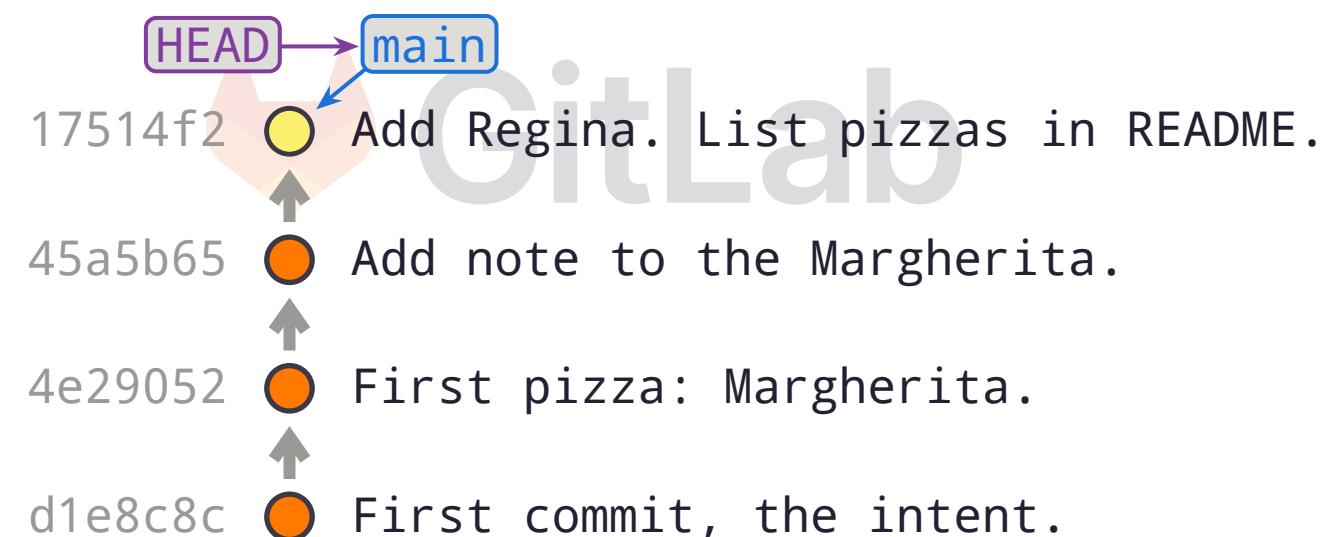
d1e8c8c First commit, the intent.

# Share Your Project

## Creating a Remote Repository

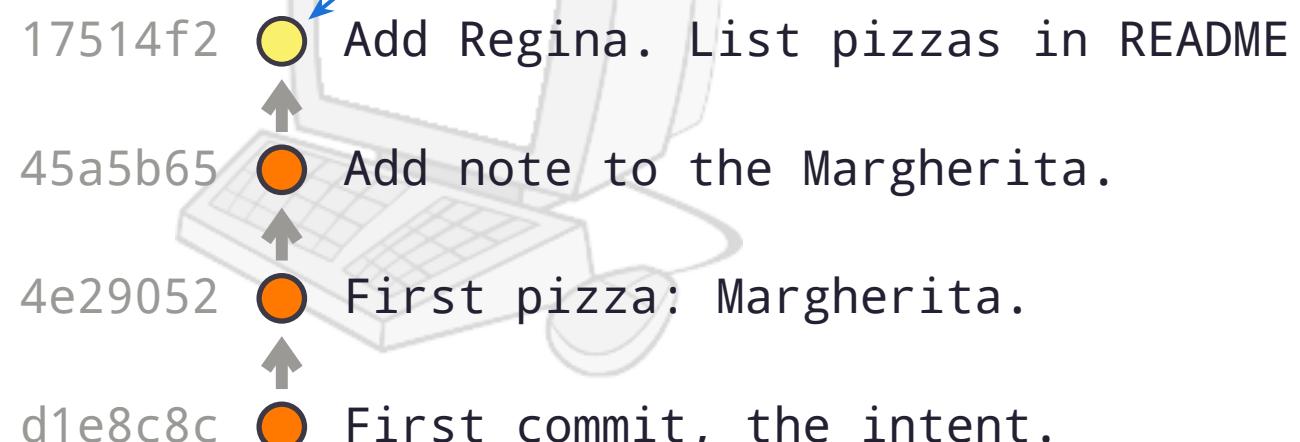


<https://gitlab.com/MyAccount/Pizzas>



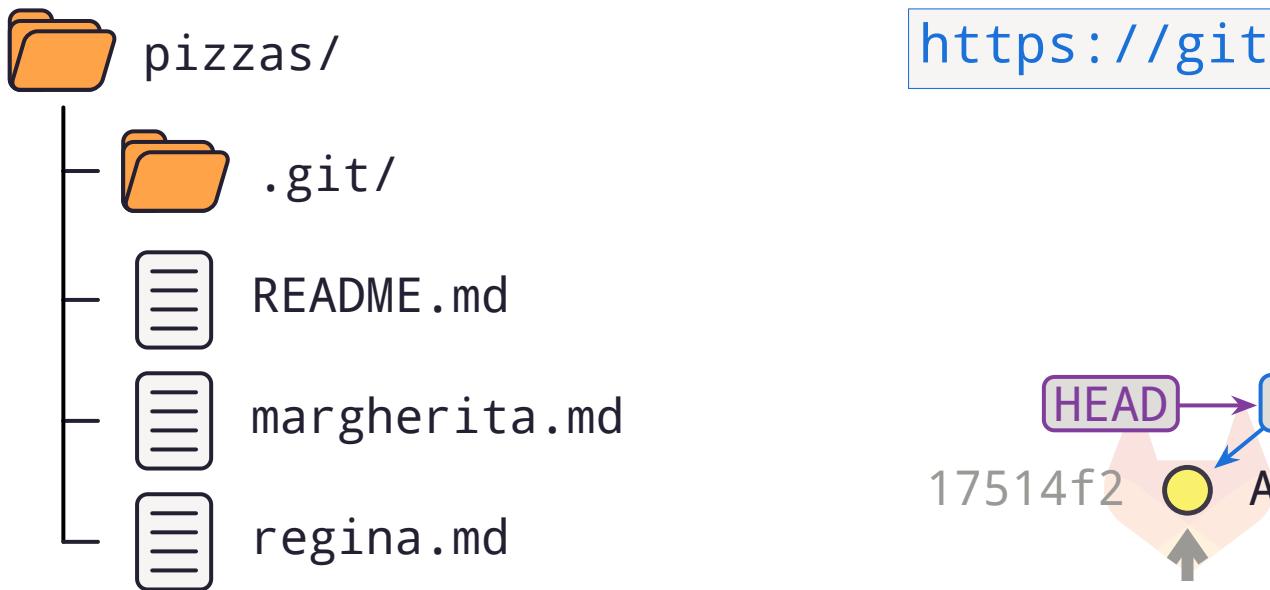
gitlab

HEAD → main gitlab/main

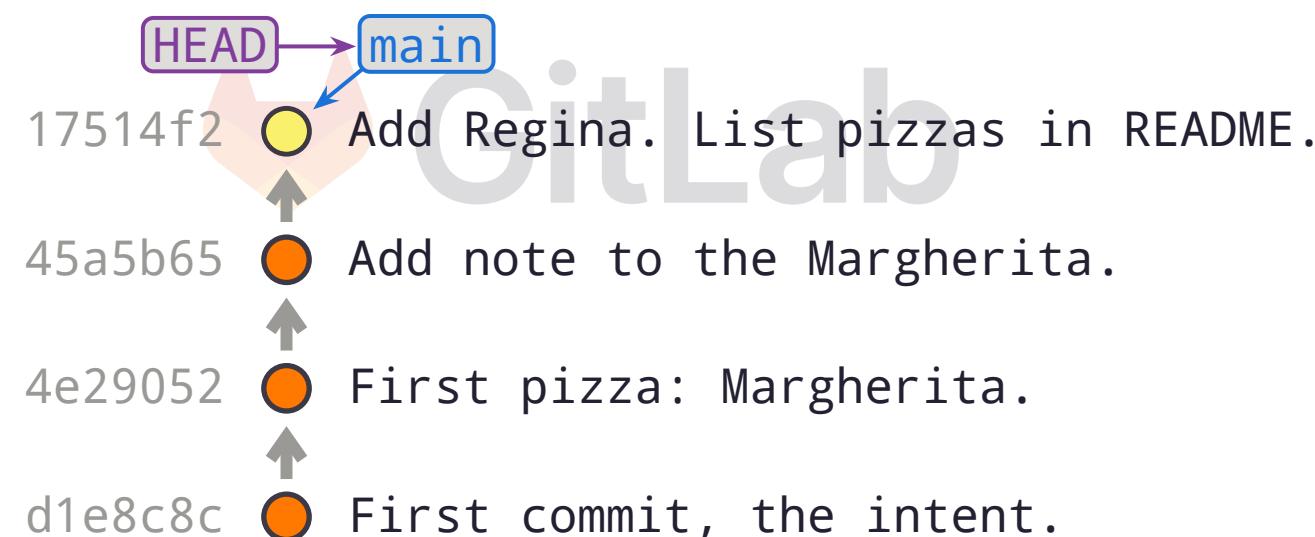


# Share Your Project

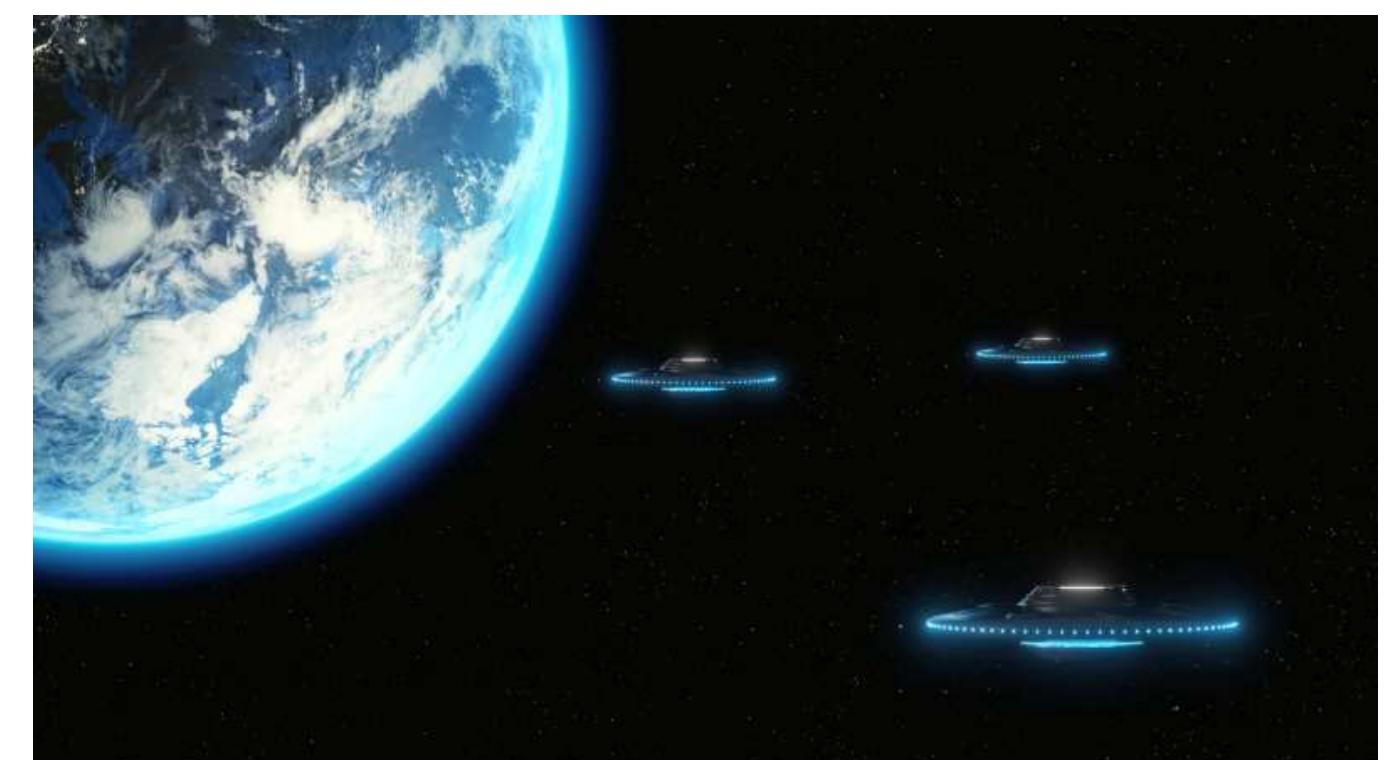
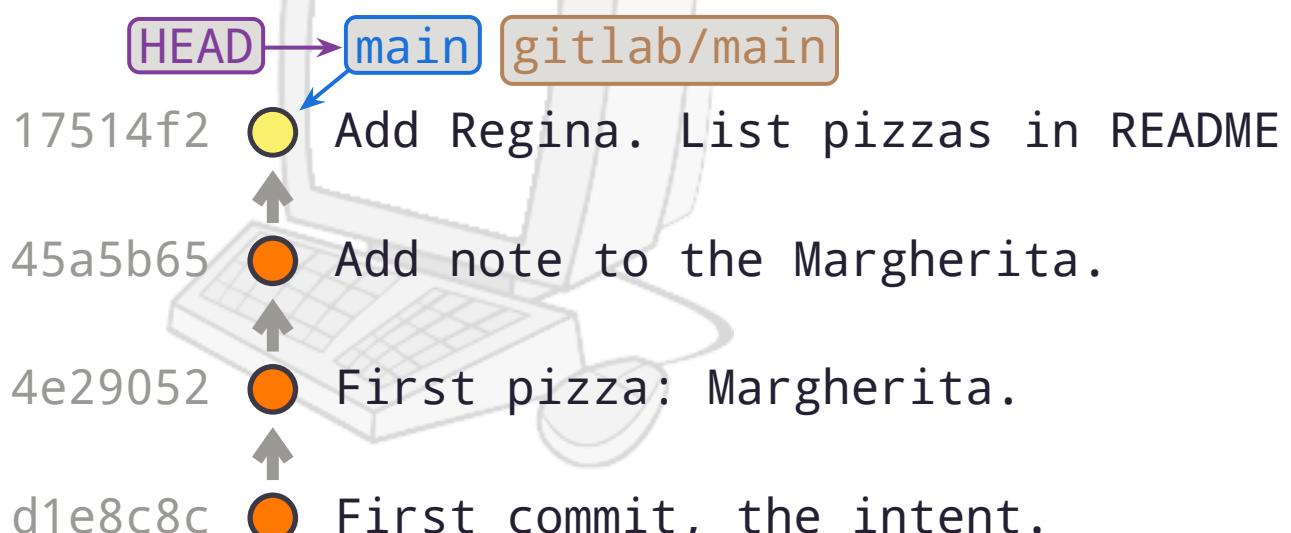
## Creating a Remote Repository



<https://gitlab.com/MyAccount/Pizzas>



gitlab

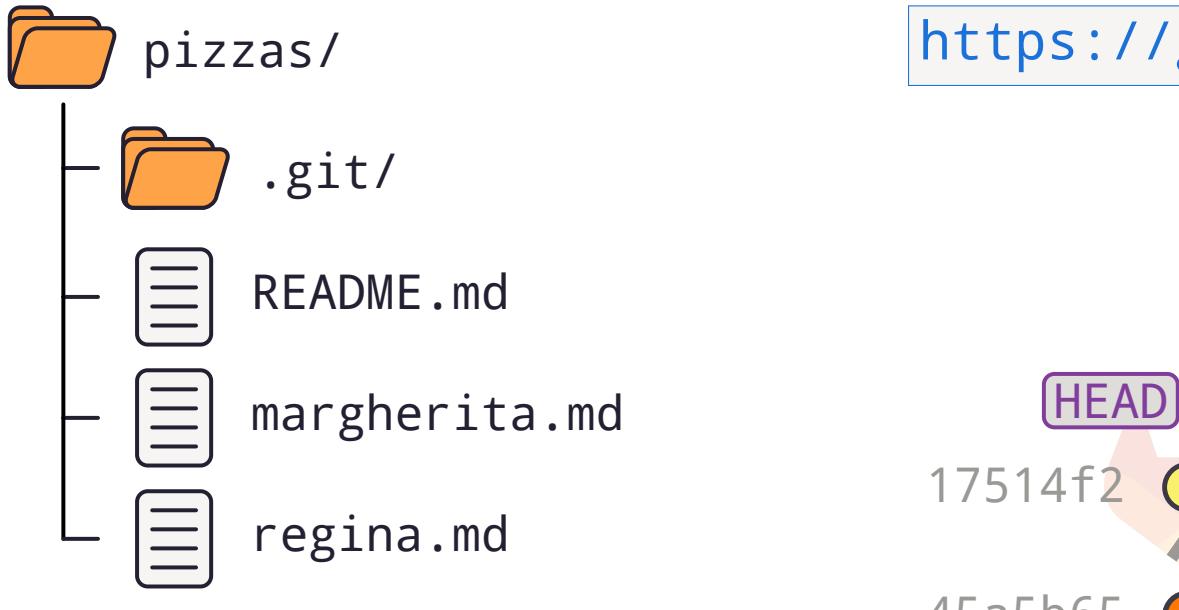


# You're Not Alone

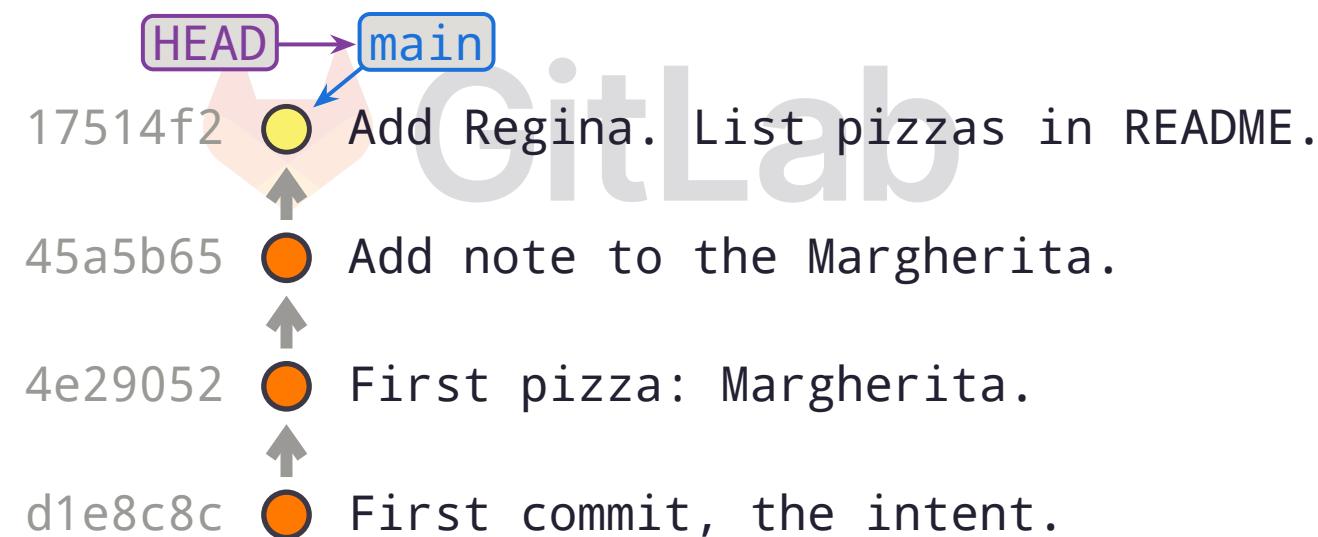
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# Maintain Your Project

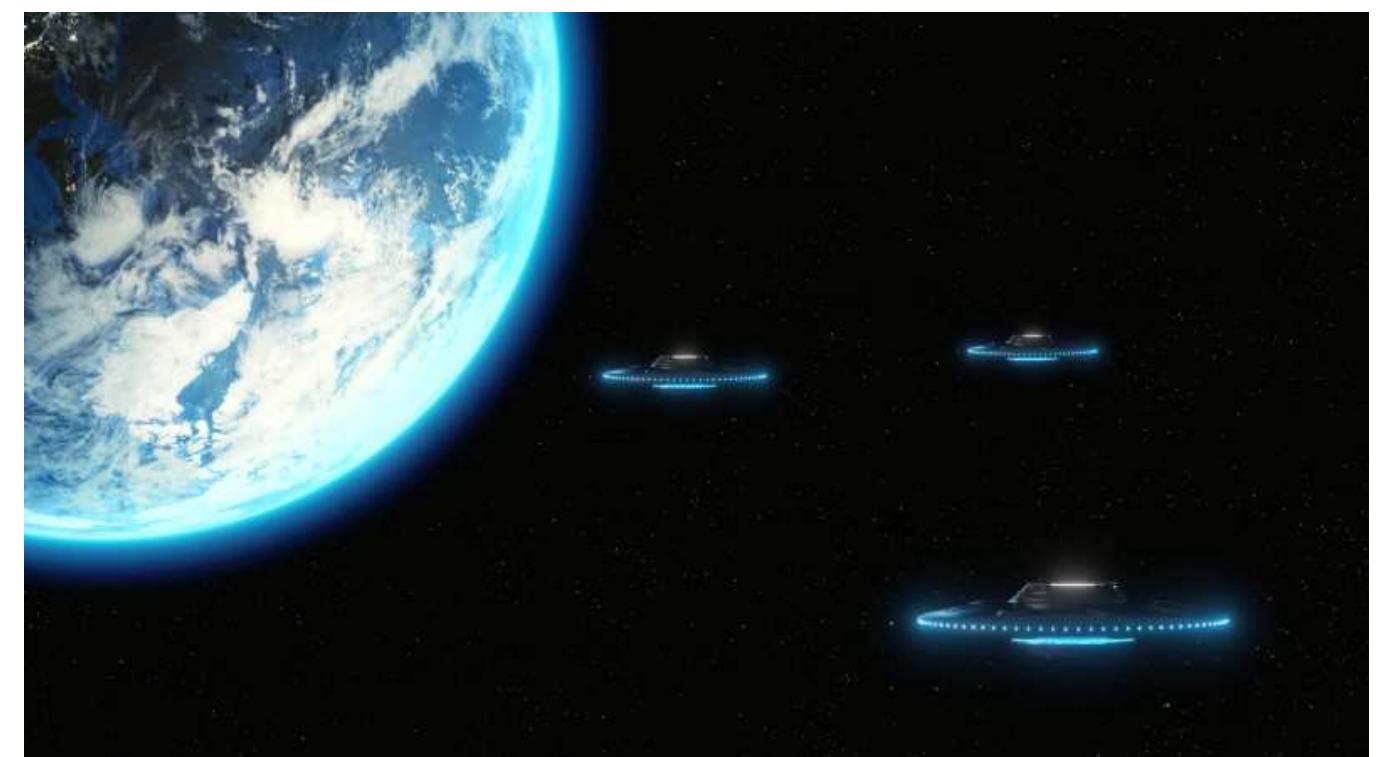
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<https://gitlab.com/MyAccount/Pizzas>

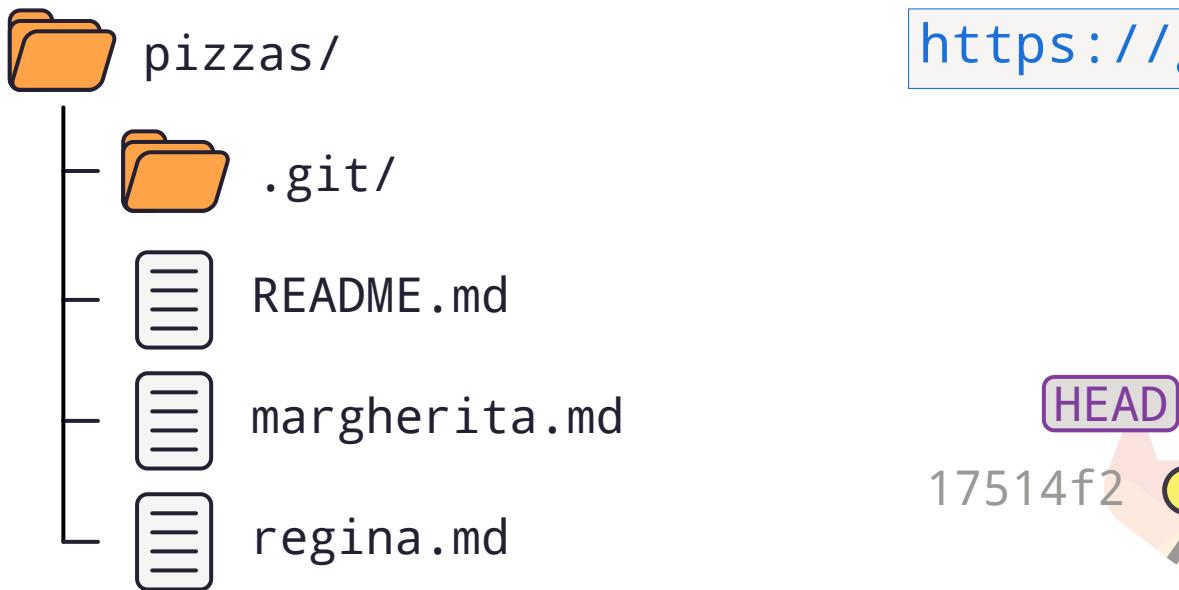


gitlab

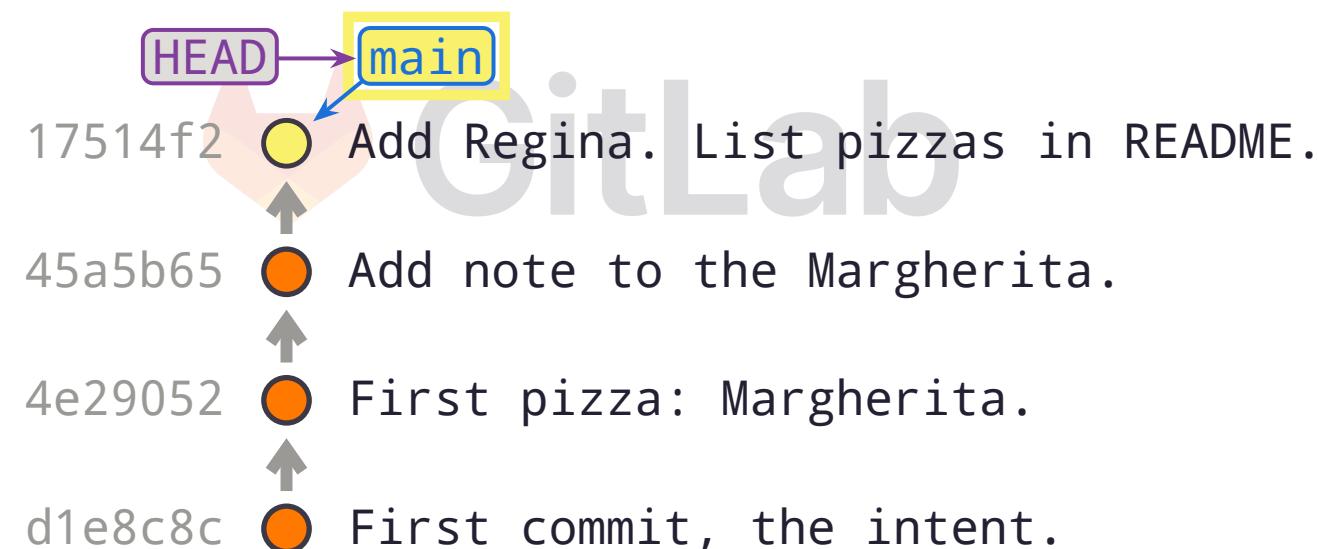


# Maintain Your Project

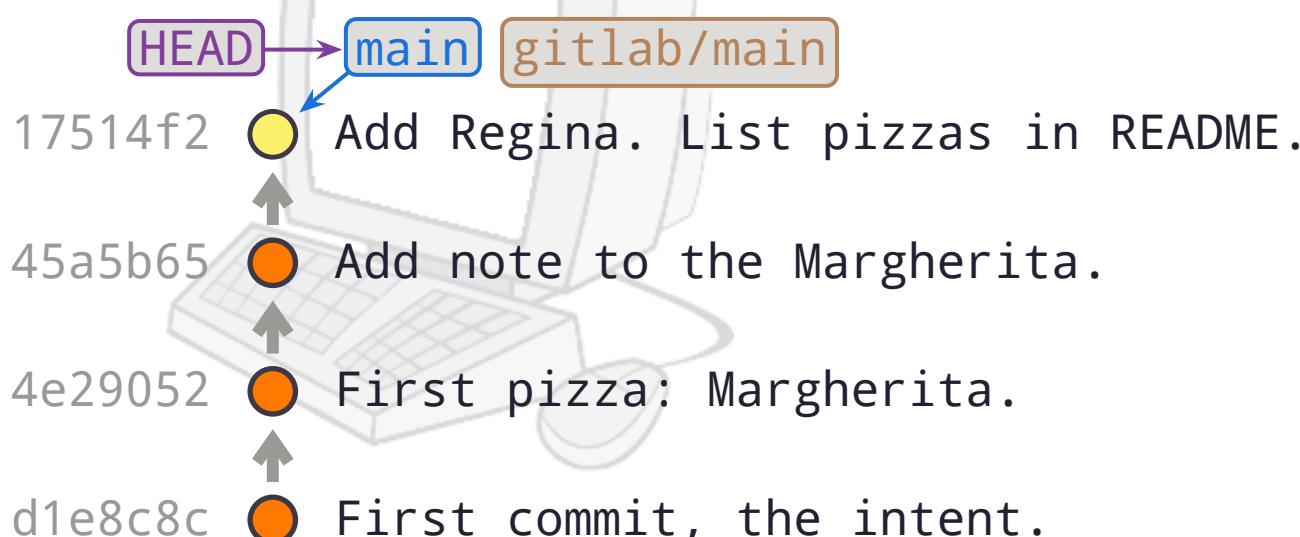
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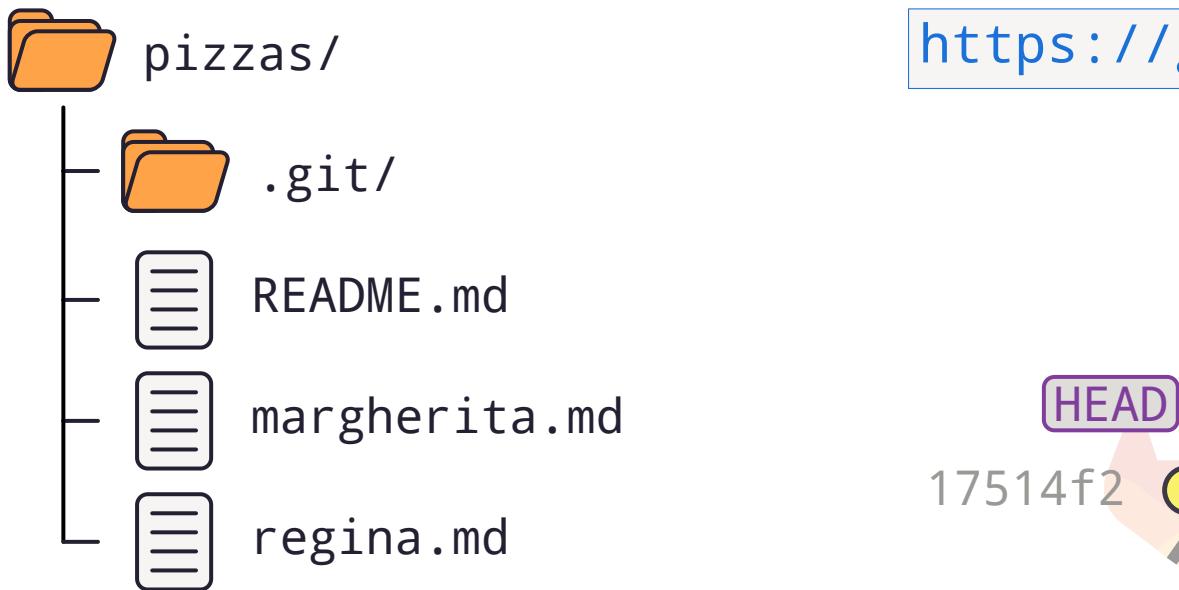


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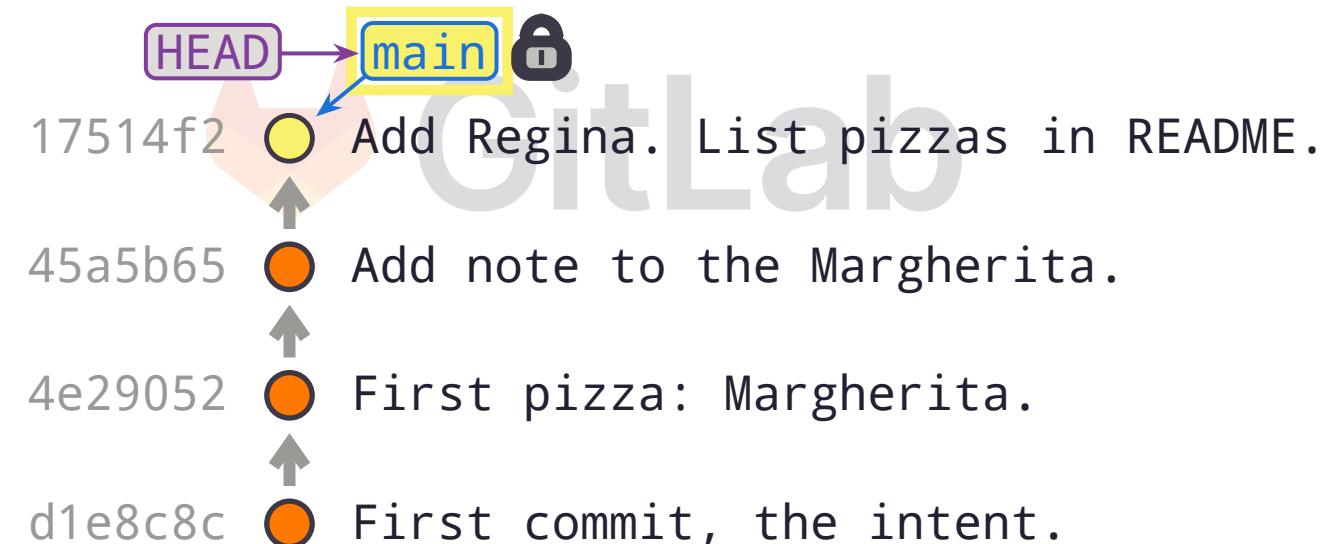


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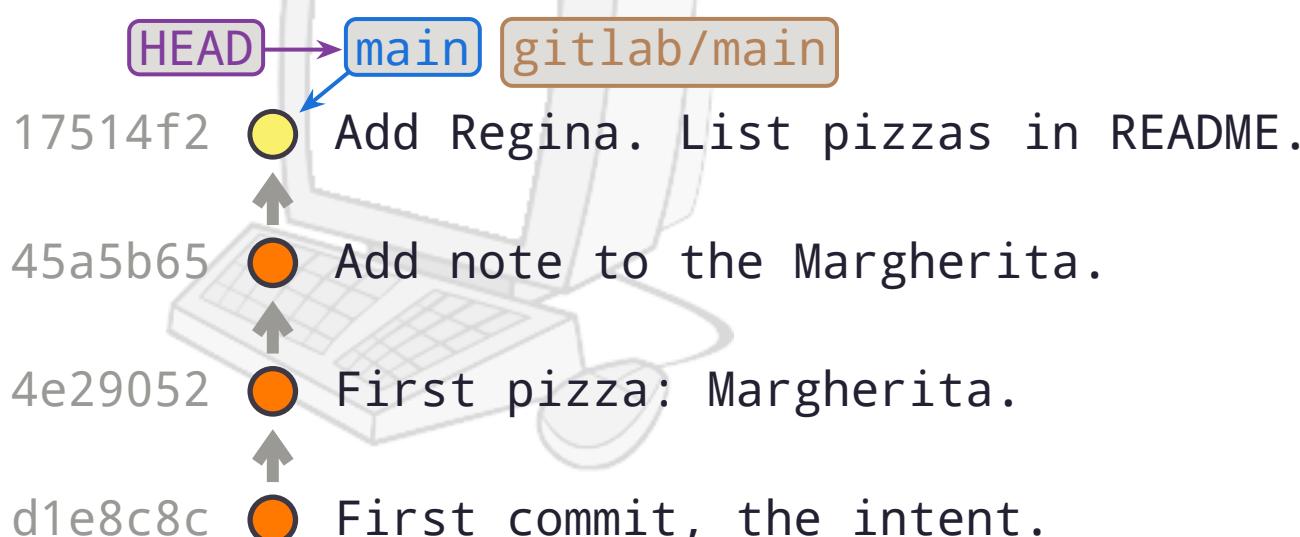
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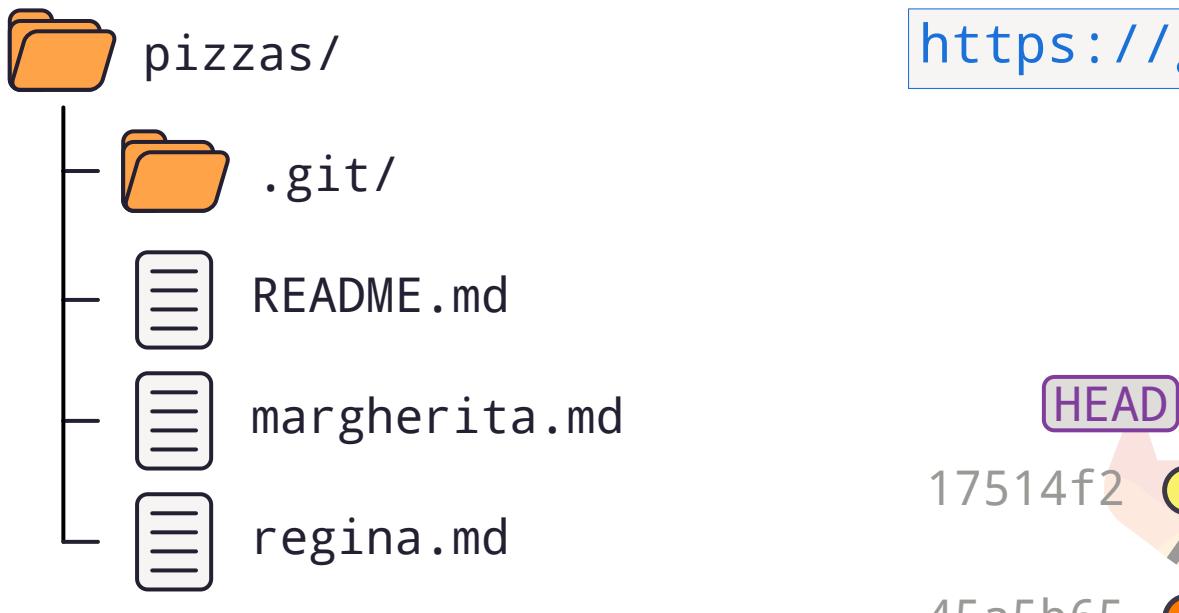


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# Maintain Your Project

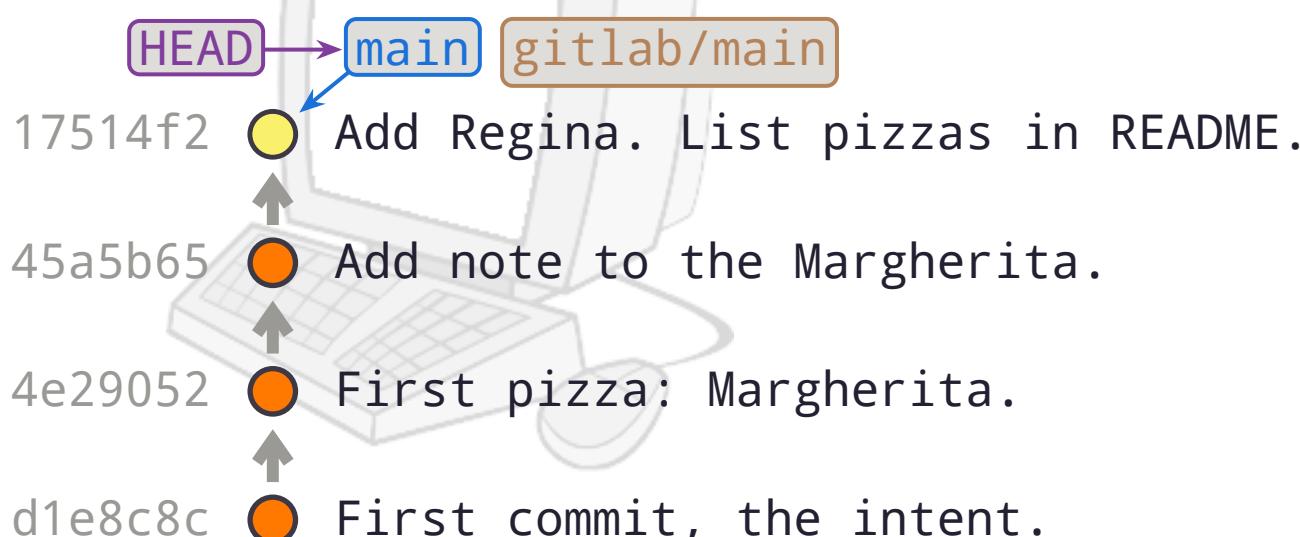
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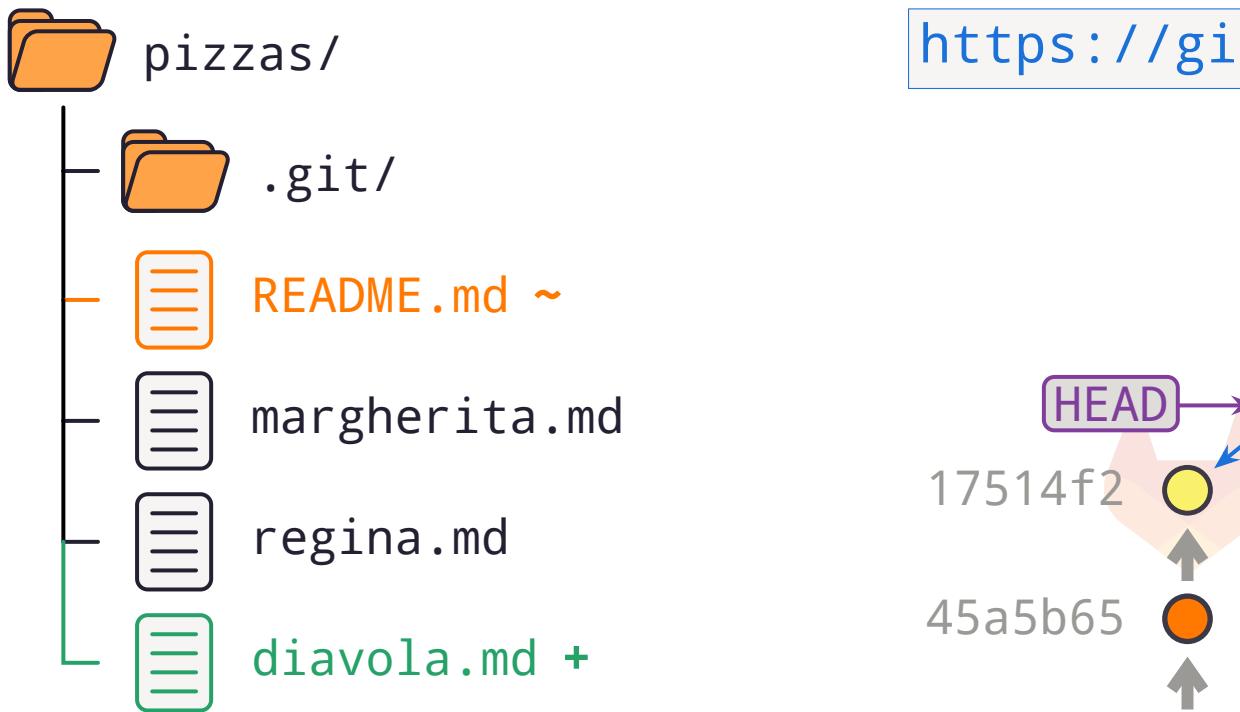


gitlab

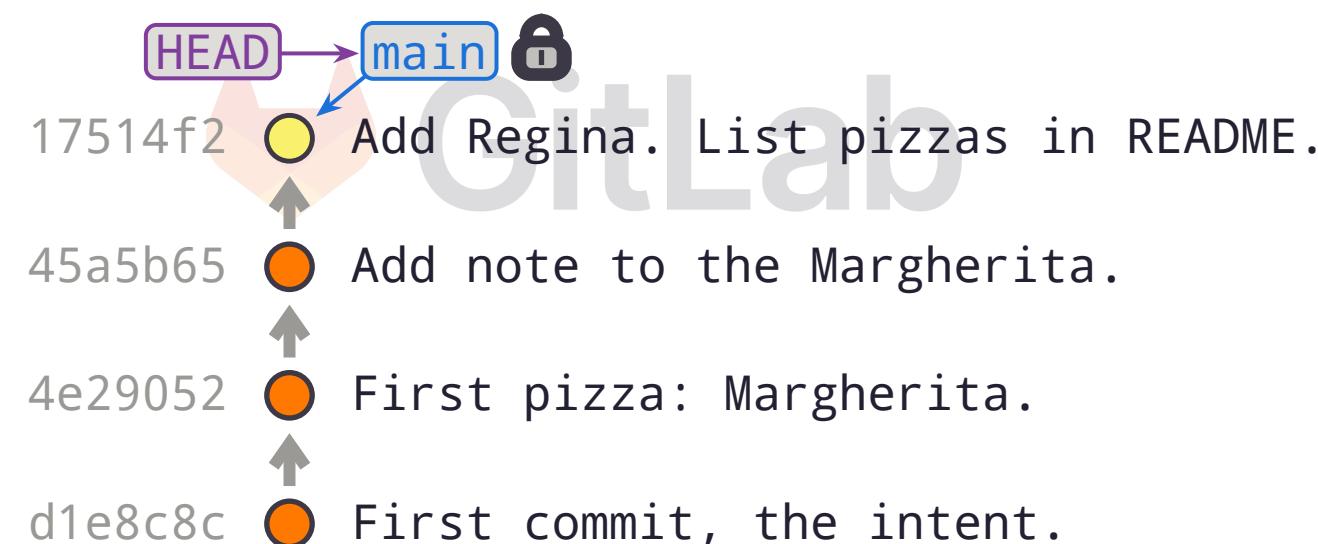


# Maintain Your Project

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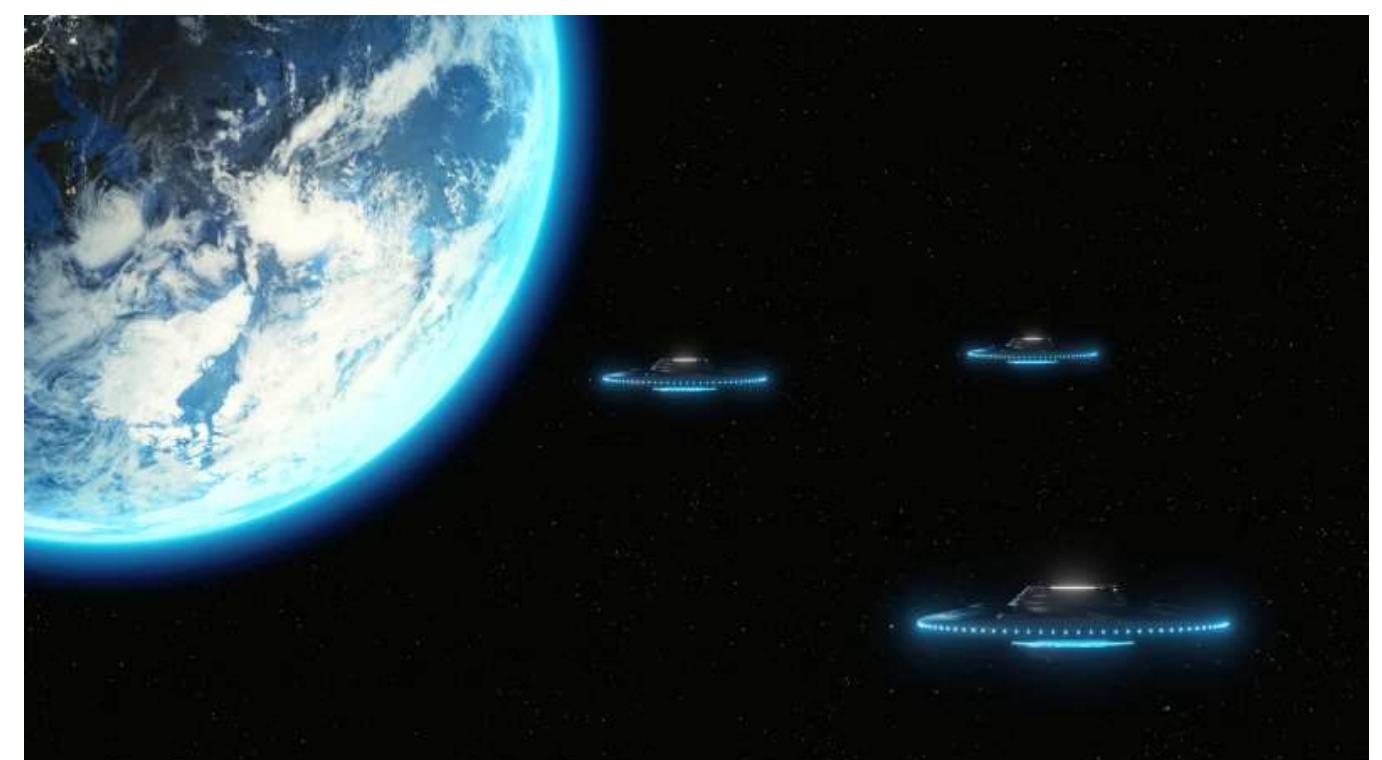
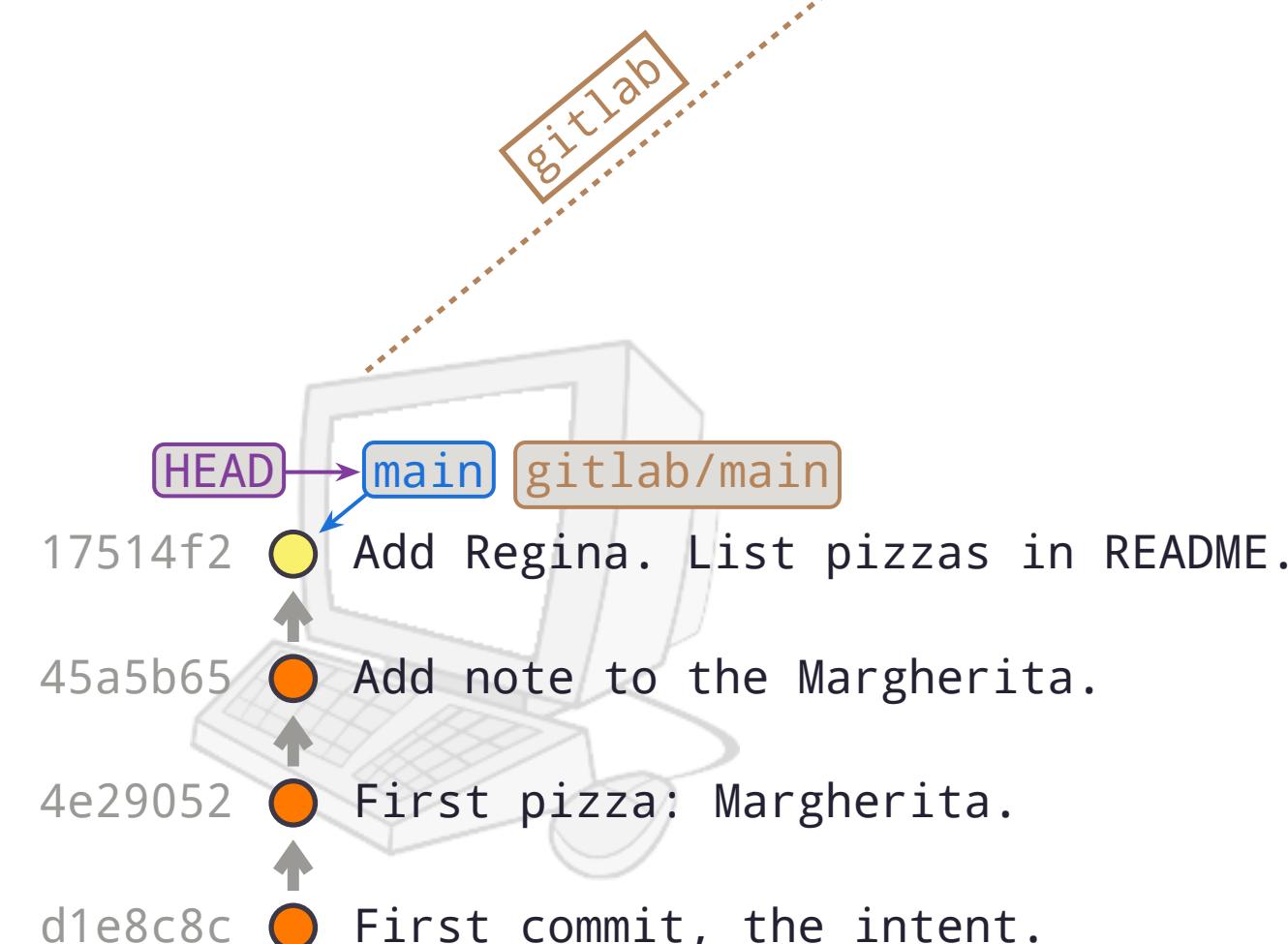


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# Maintain Your Project

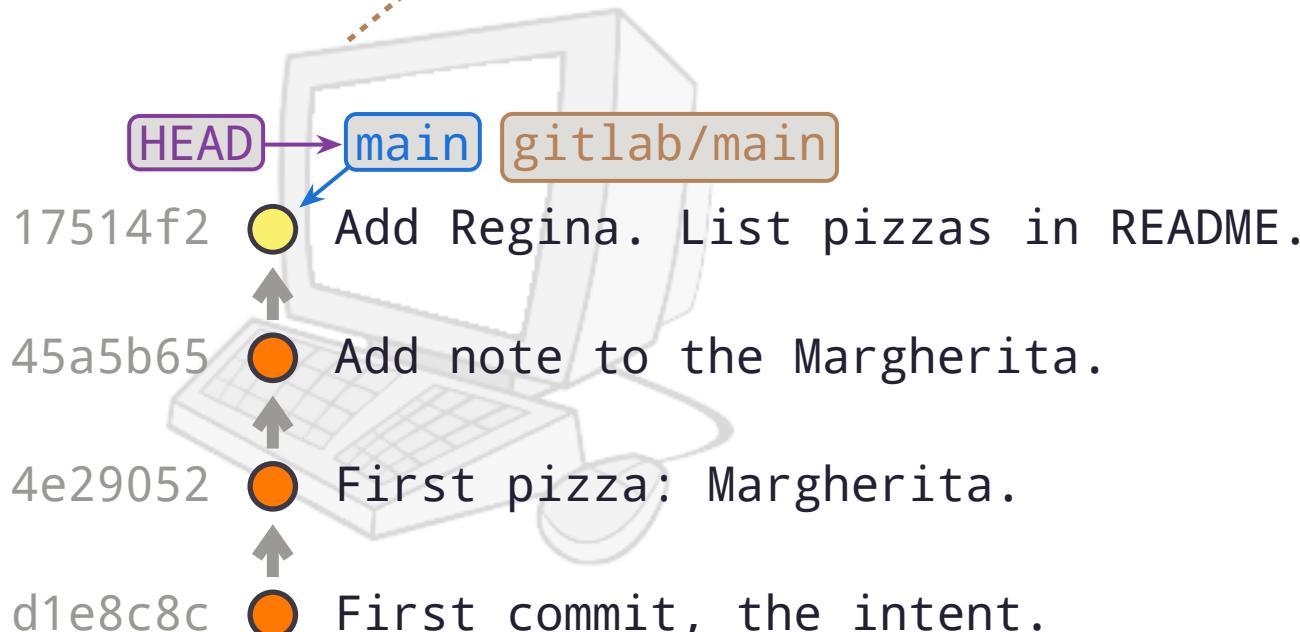
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\$ git branch dev

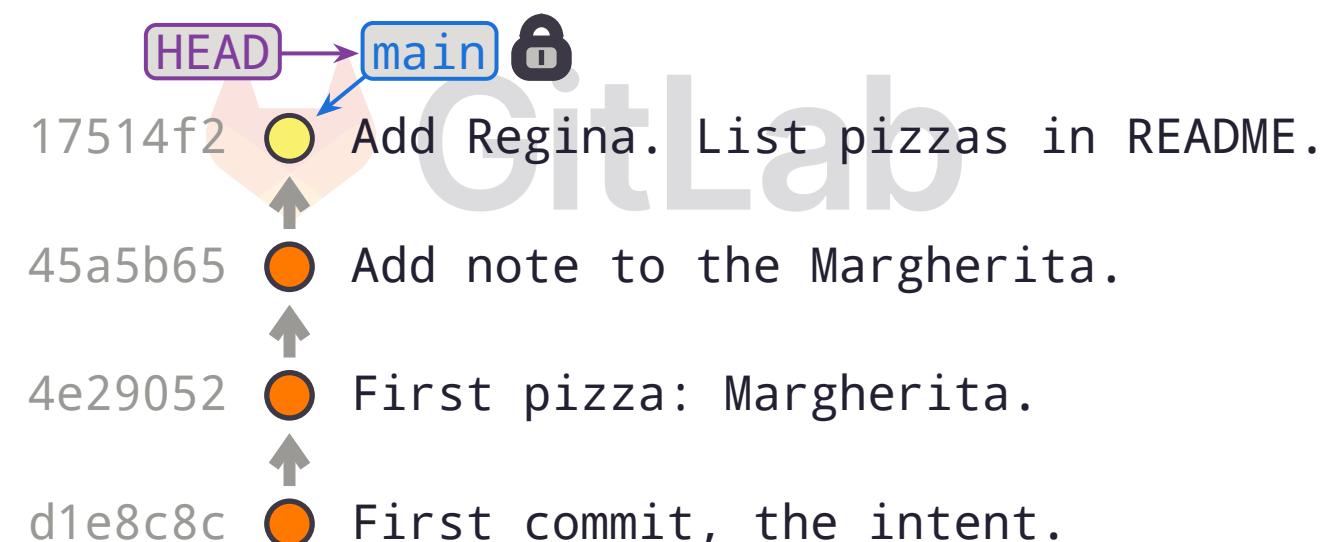


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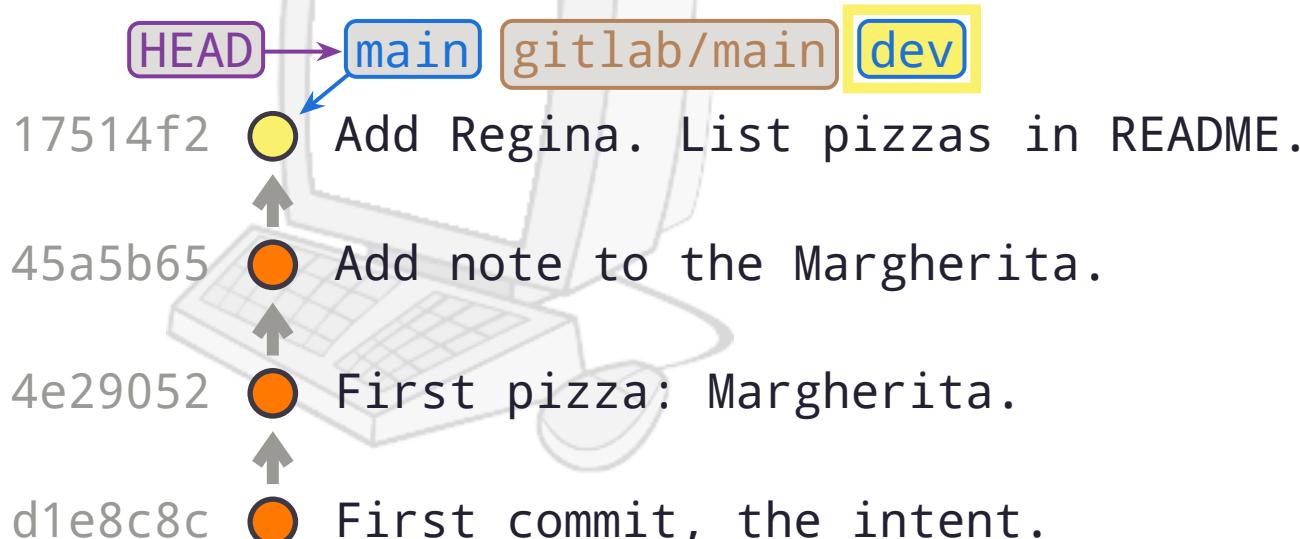
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\$ git branch dev



# Maintain Your Project

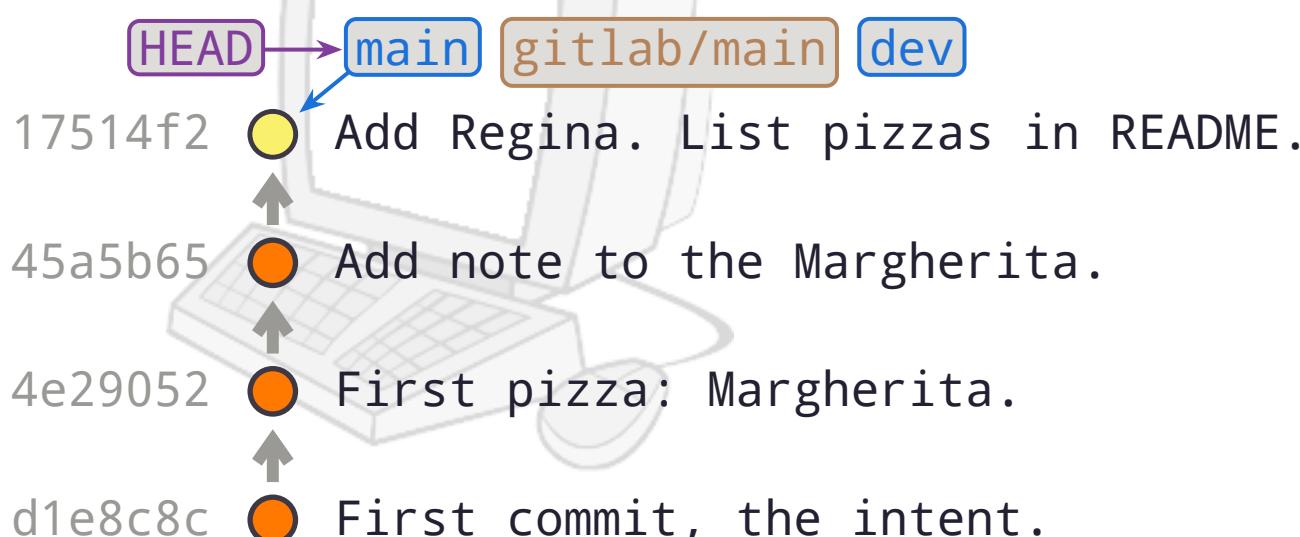
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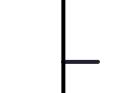
pizzas/



.git/



README.md ~



margherita.md



regina.md

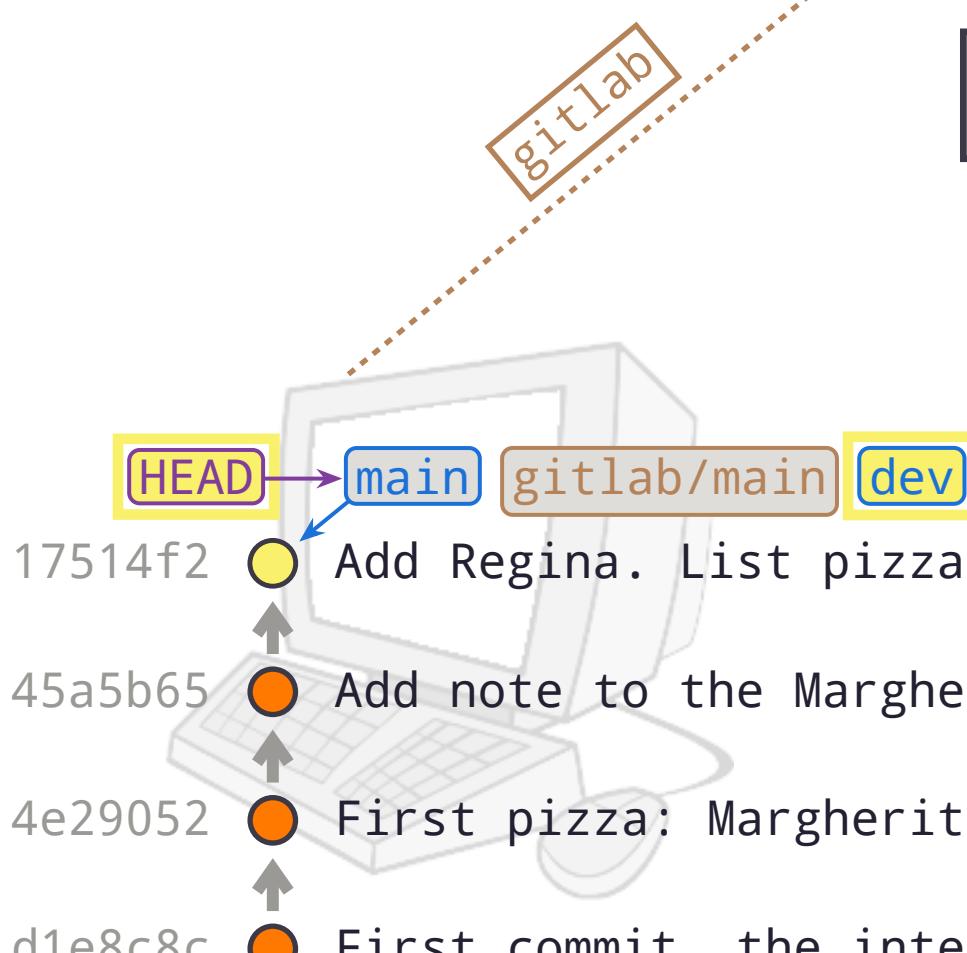


diavola.md +

<https://gitlab.com/MyAccount/Pizzas>



\$ git checkout dev

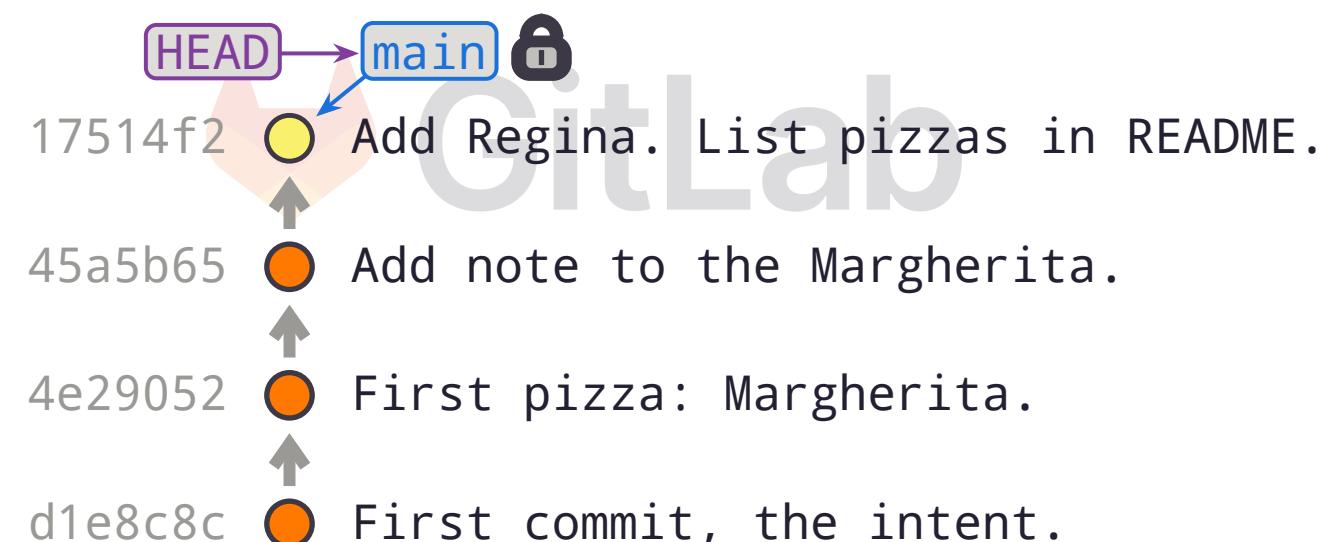


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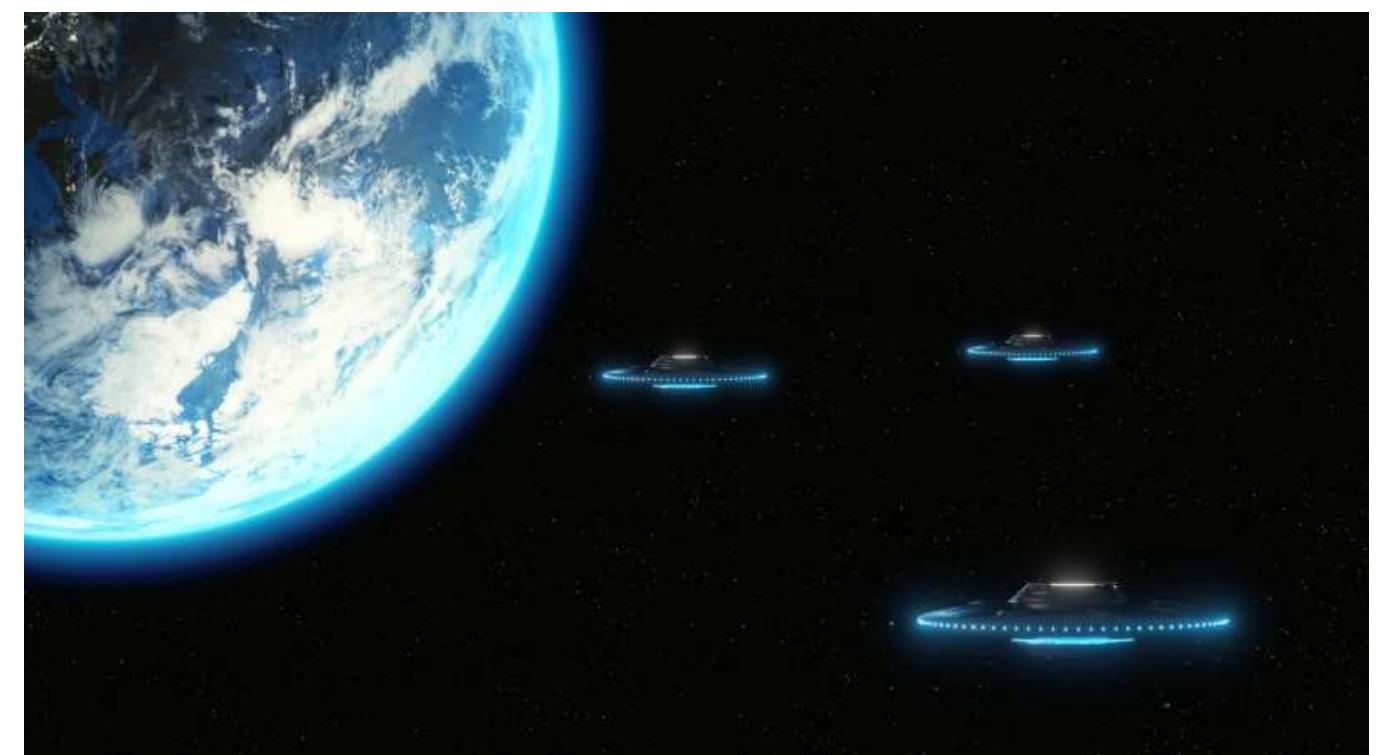
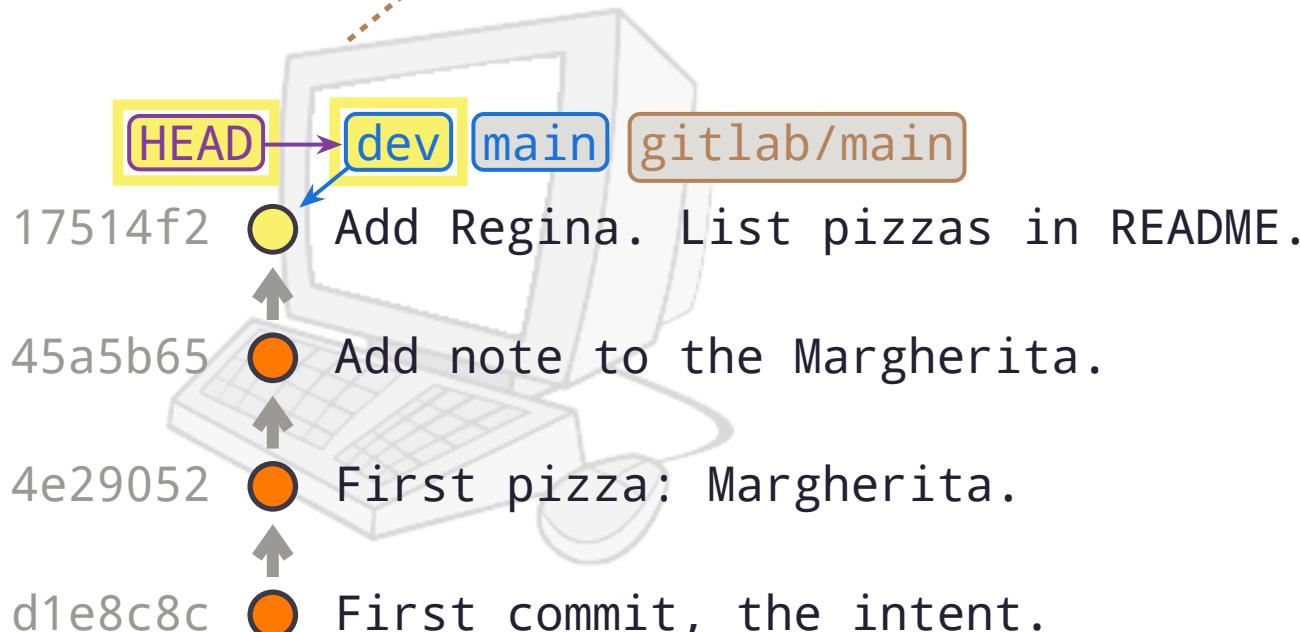
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\$ git checkout dev

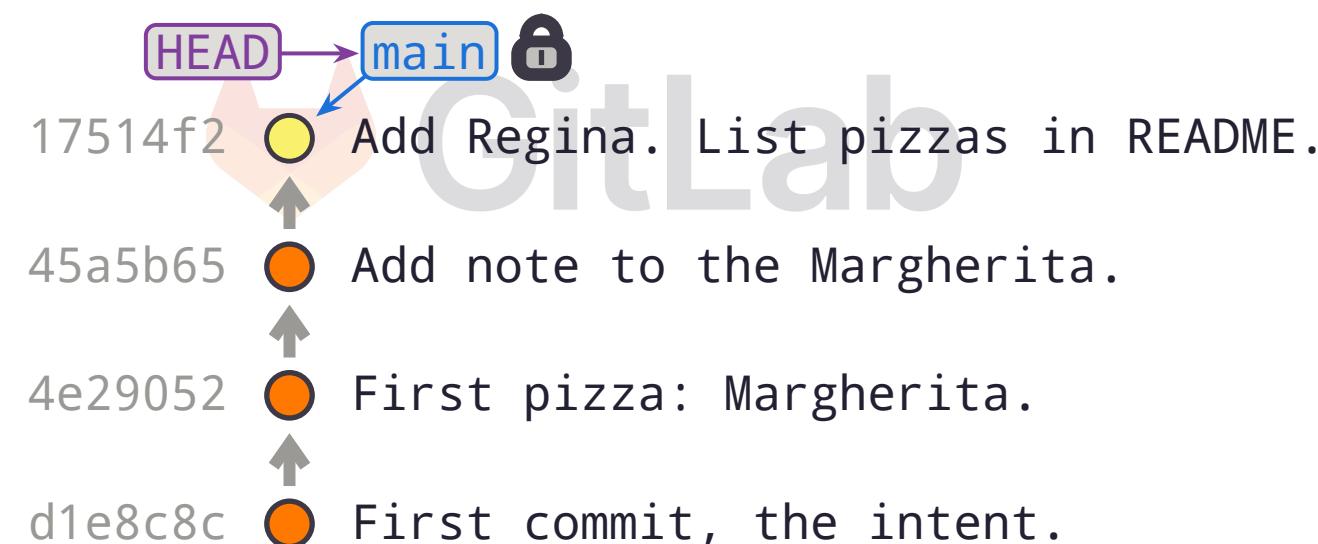


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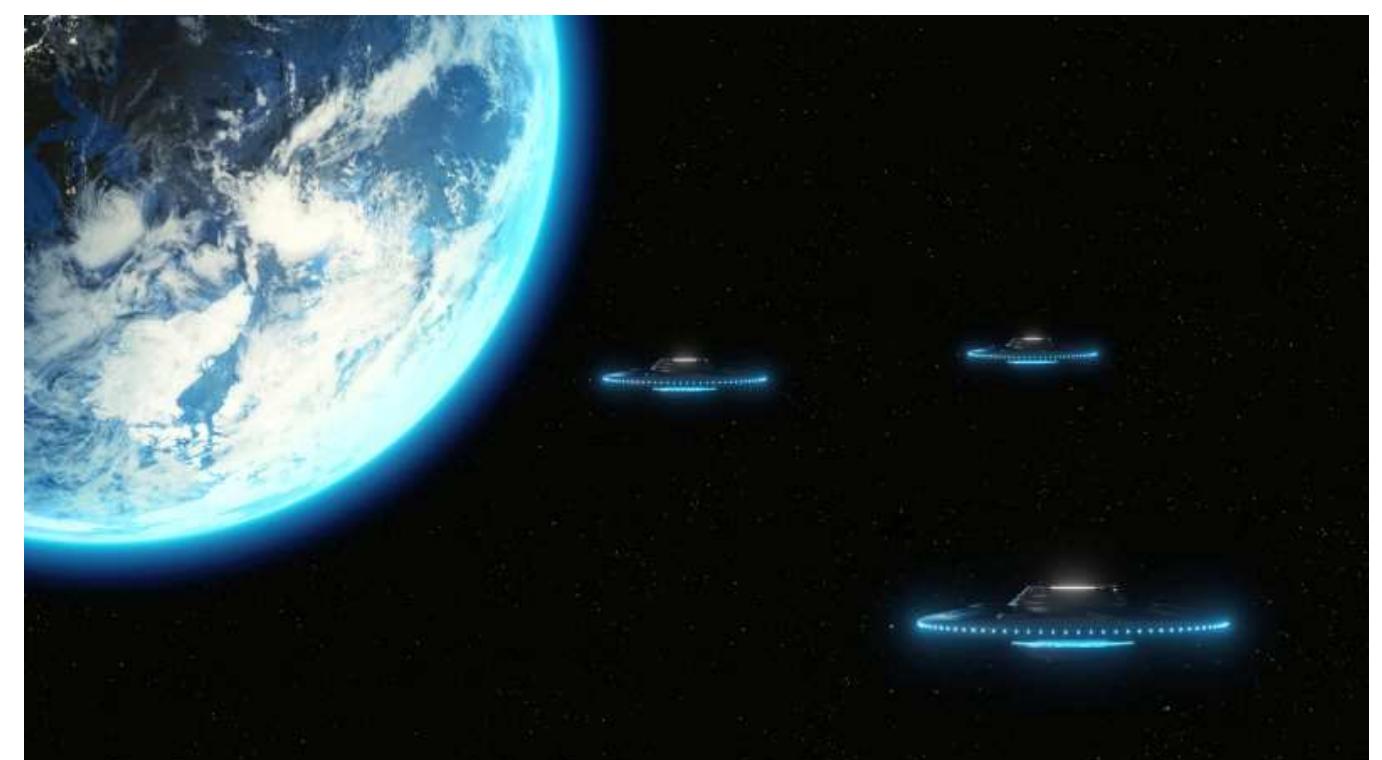
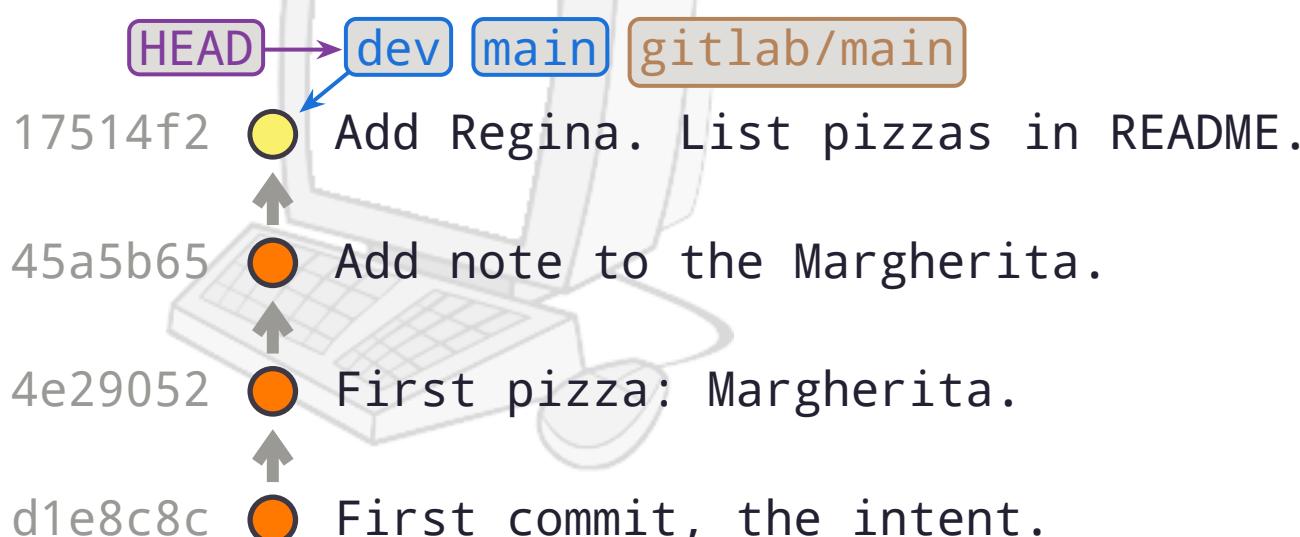
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gitlab

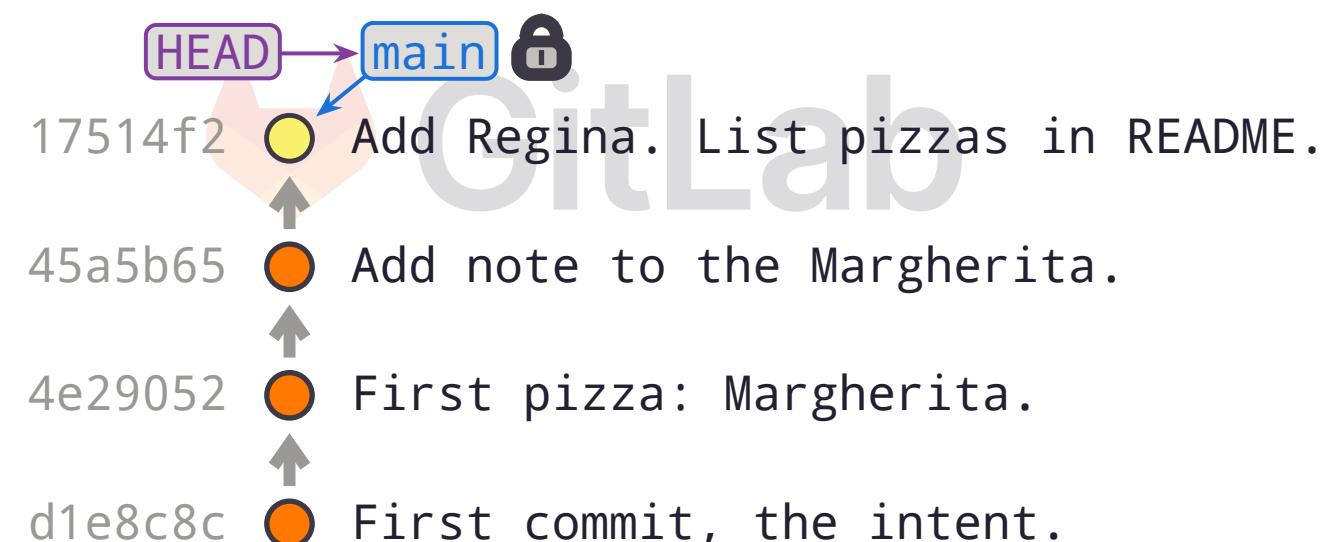


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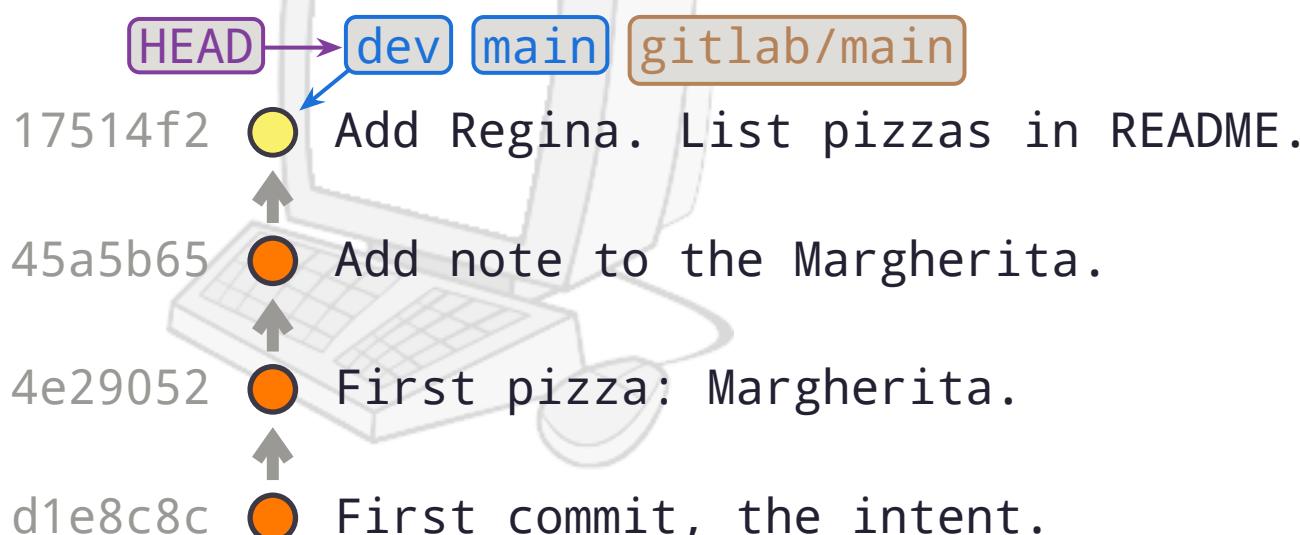
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\$ git commit

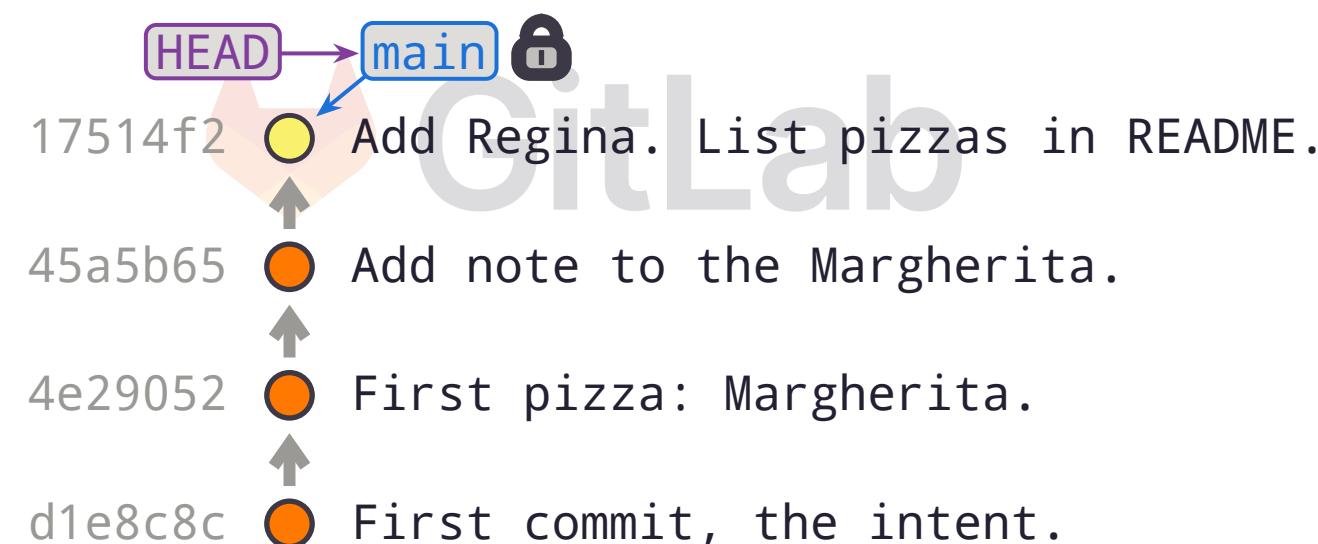


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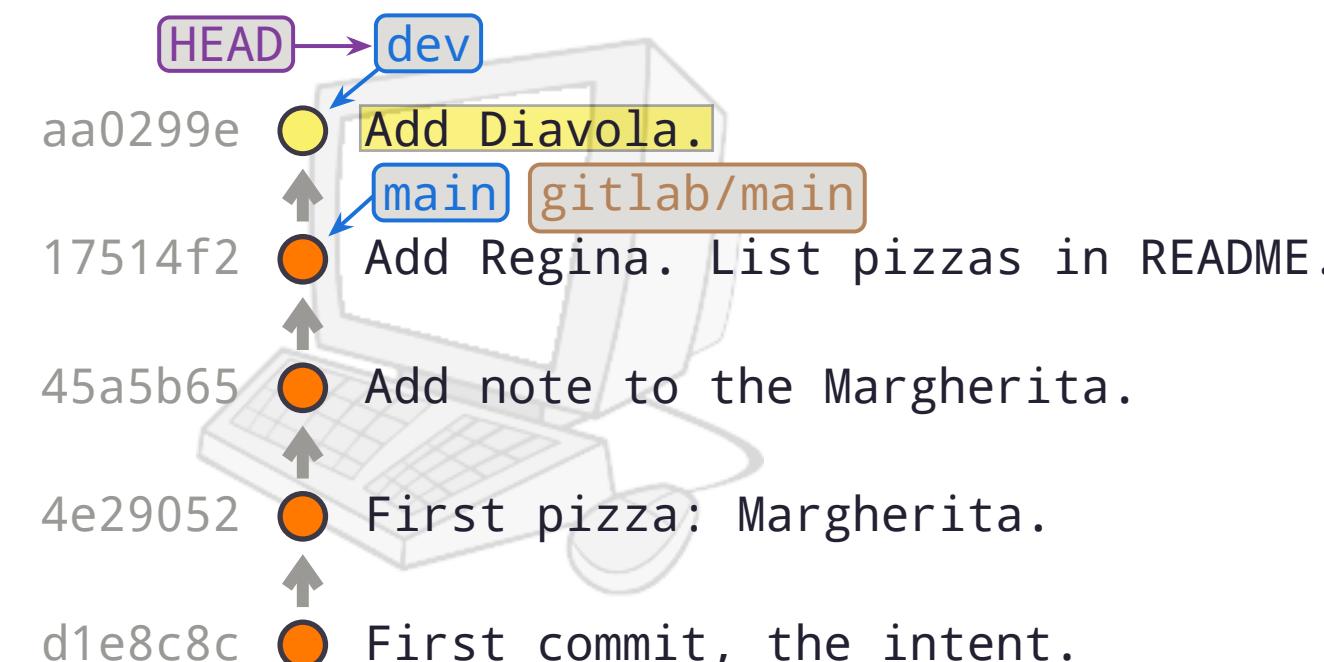
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gitlab



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pizzas/



.git/



README.md



margherita.md



regina.md



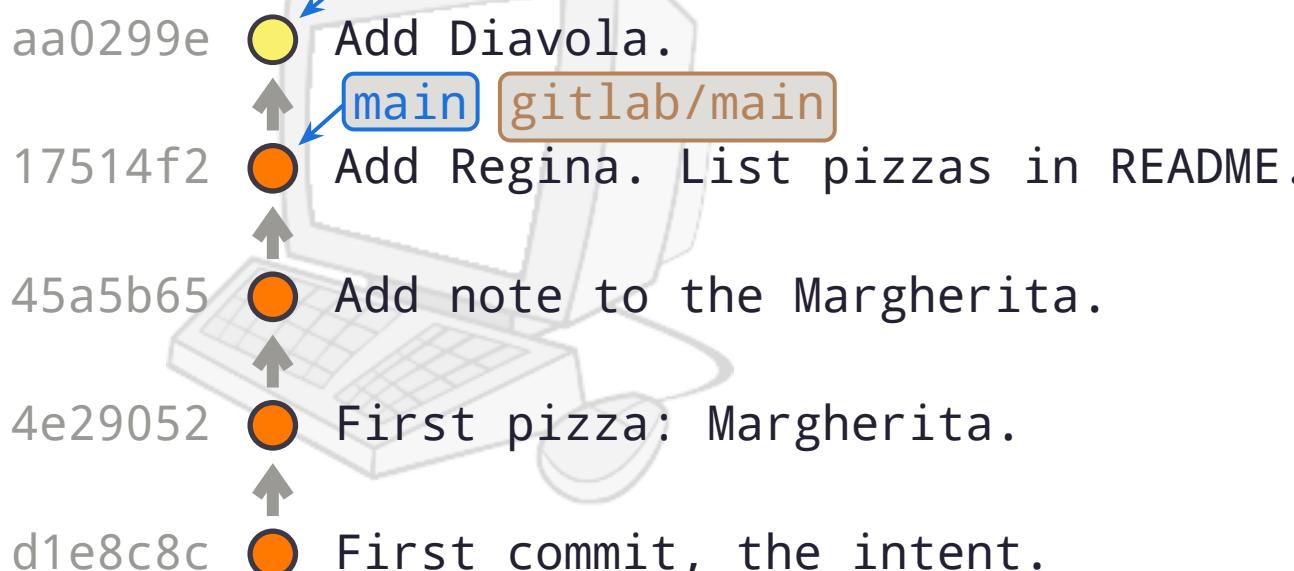
diavola.md

<https://gitlab.com/MyAccount/Pizzas>



gitlab

HEAD → dev



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pizzas/  
└ .git/

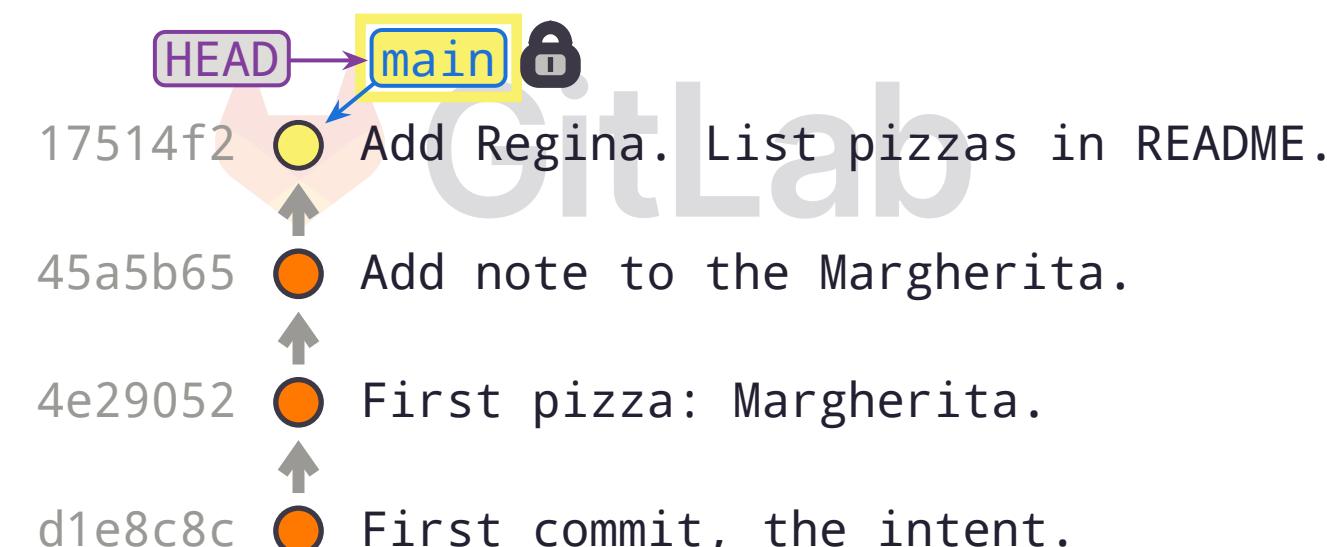
  └ README.md

  └ margherita.md

  └ regina.md

  └ diavola.md

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gitlab

HEAD → dev

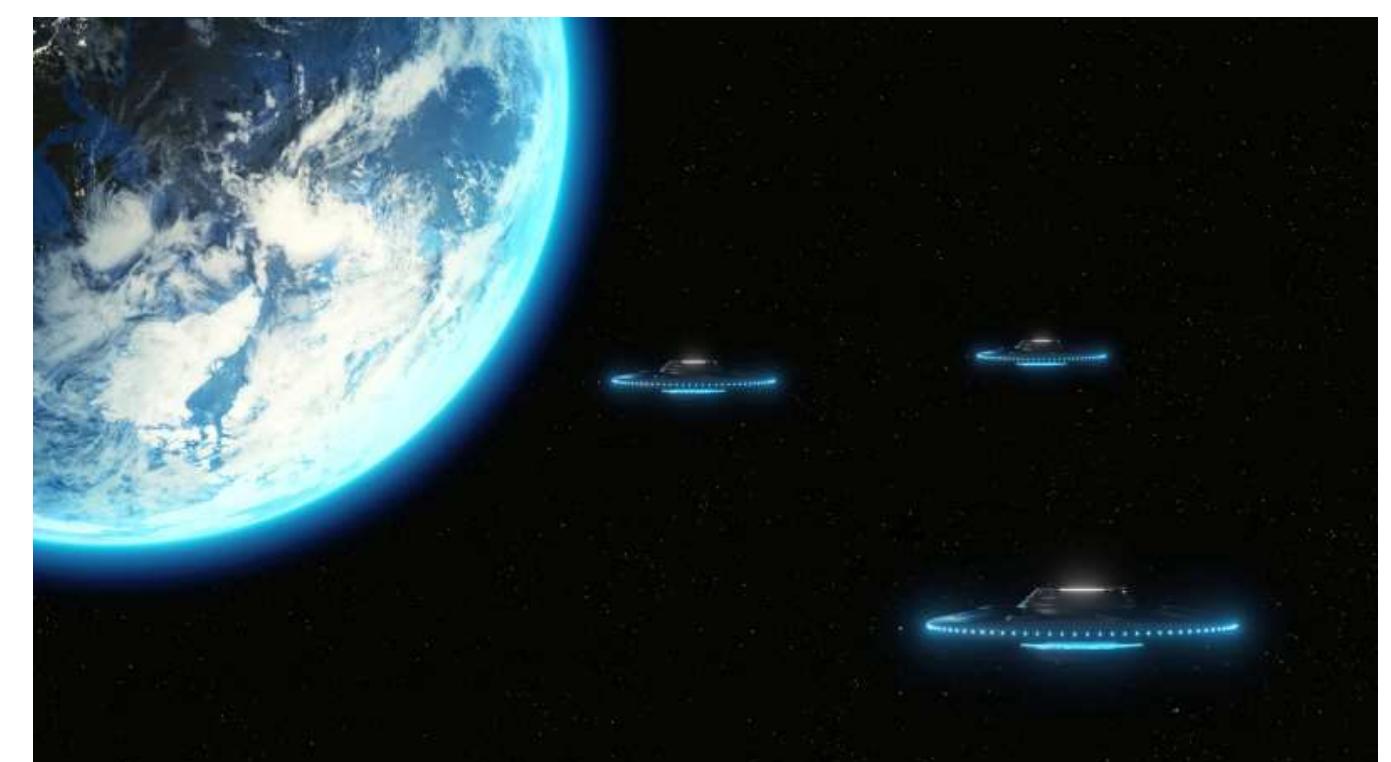
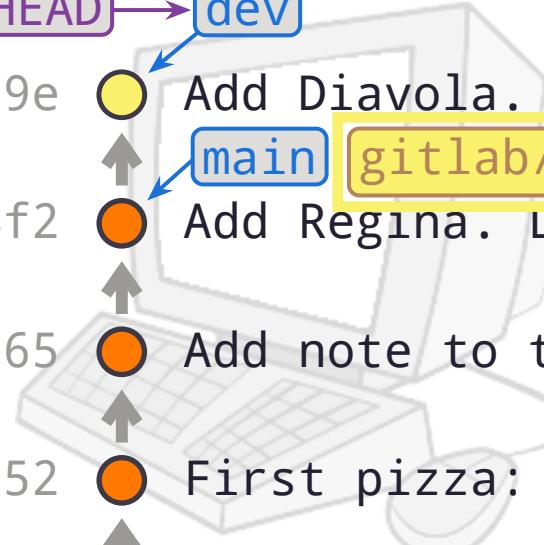
aa0299e Add Diavola.

17514f2 Add Regina. List pizzas in README.

45a5b65 Add note to the Margherita.

4e29052 First pizza: Margherita.

d1e8c8c First commit, the intent.



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pizzas/



.git/



README.md



margherita.md



regina.md



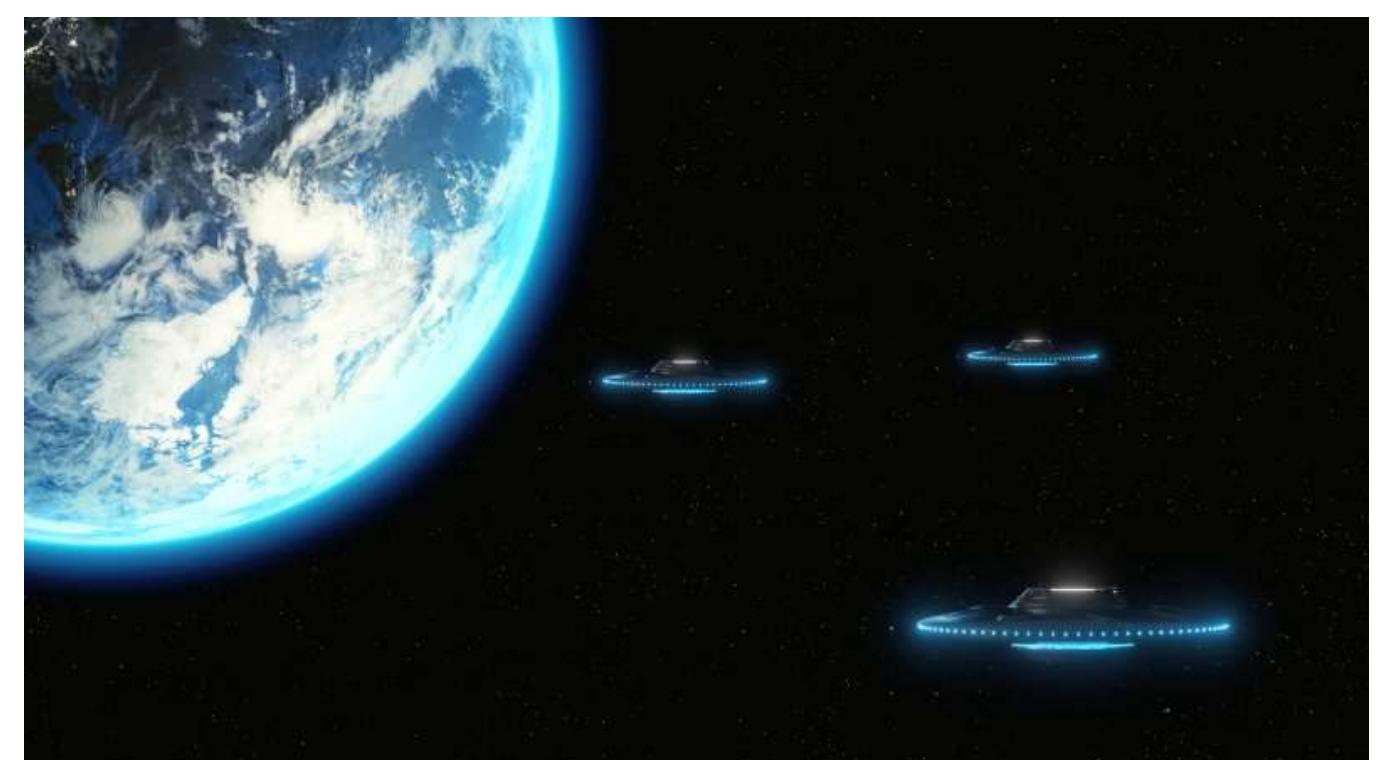
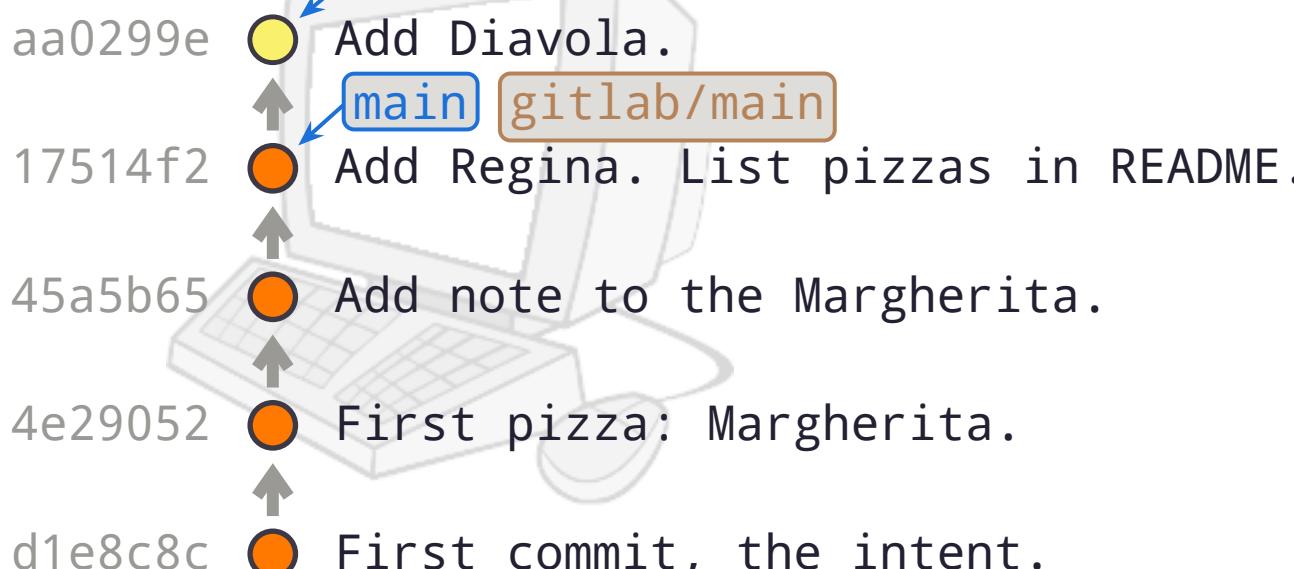
diavola.md

<https://gitlab.com/MyAccount/Pizzas>



gitlab

HEAD → dev

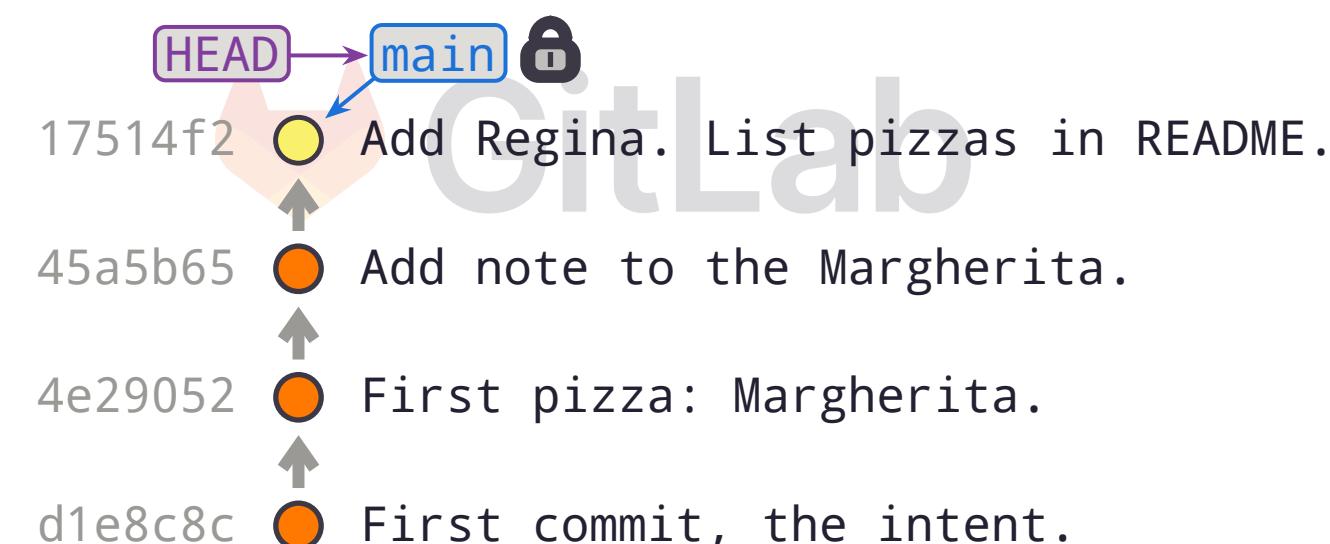


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<https://gitlab.com/MyAccount/Pizzas>

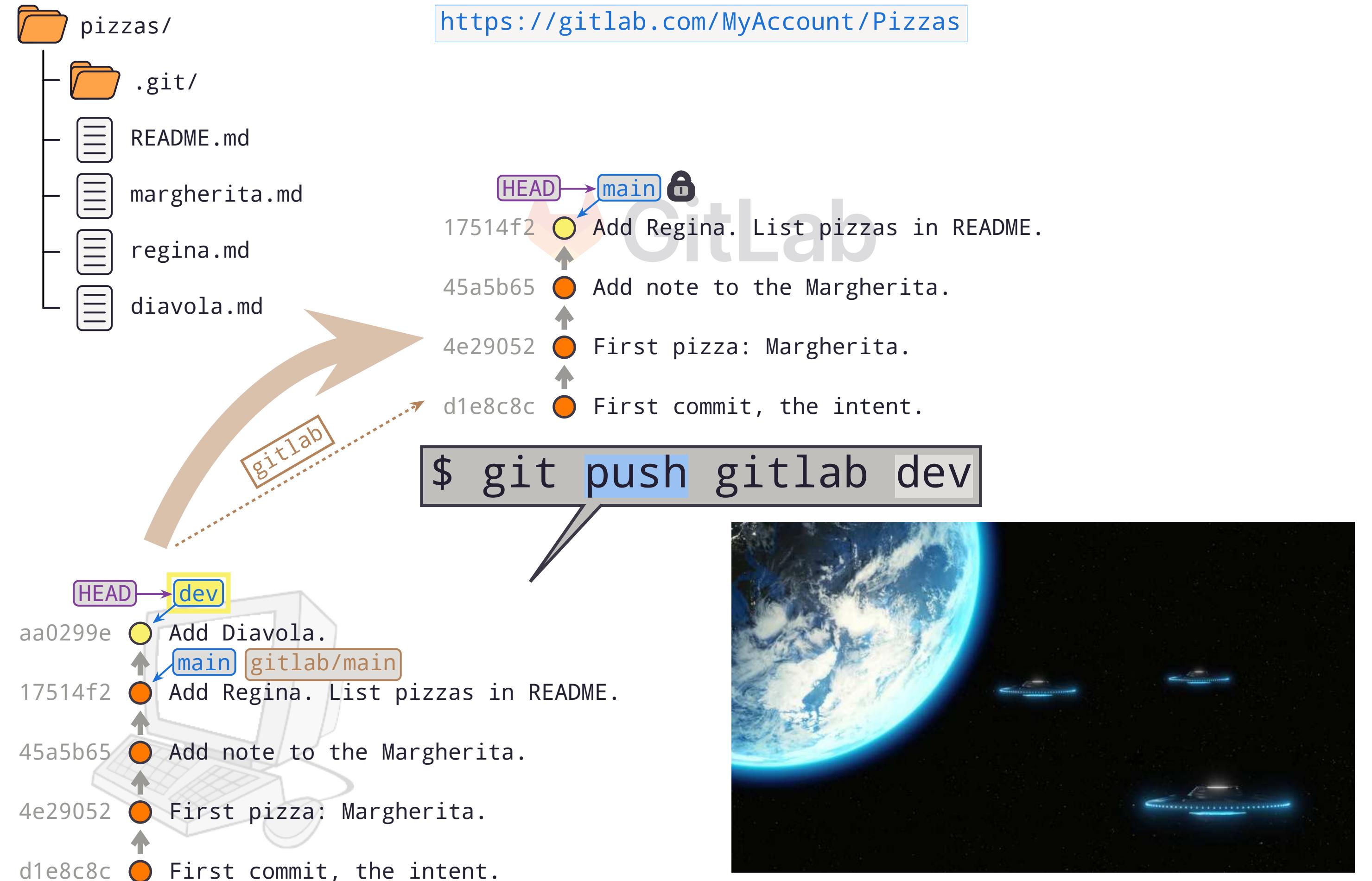


\$ git push gitlab dev



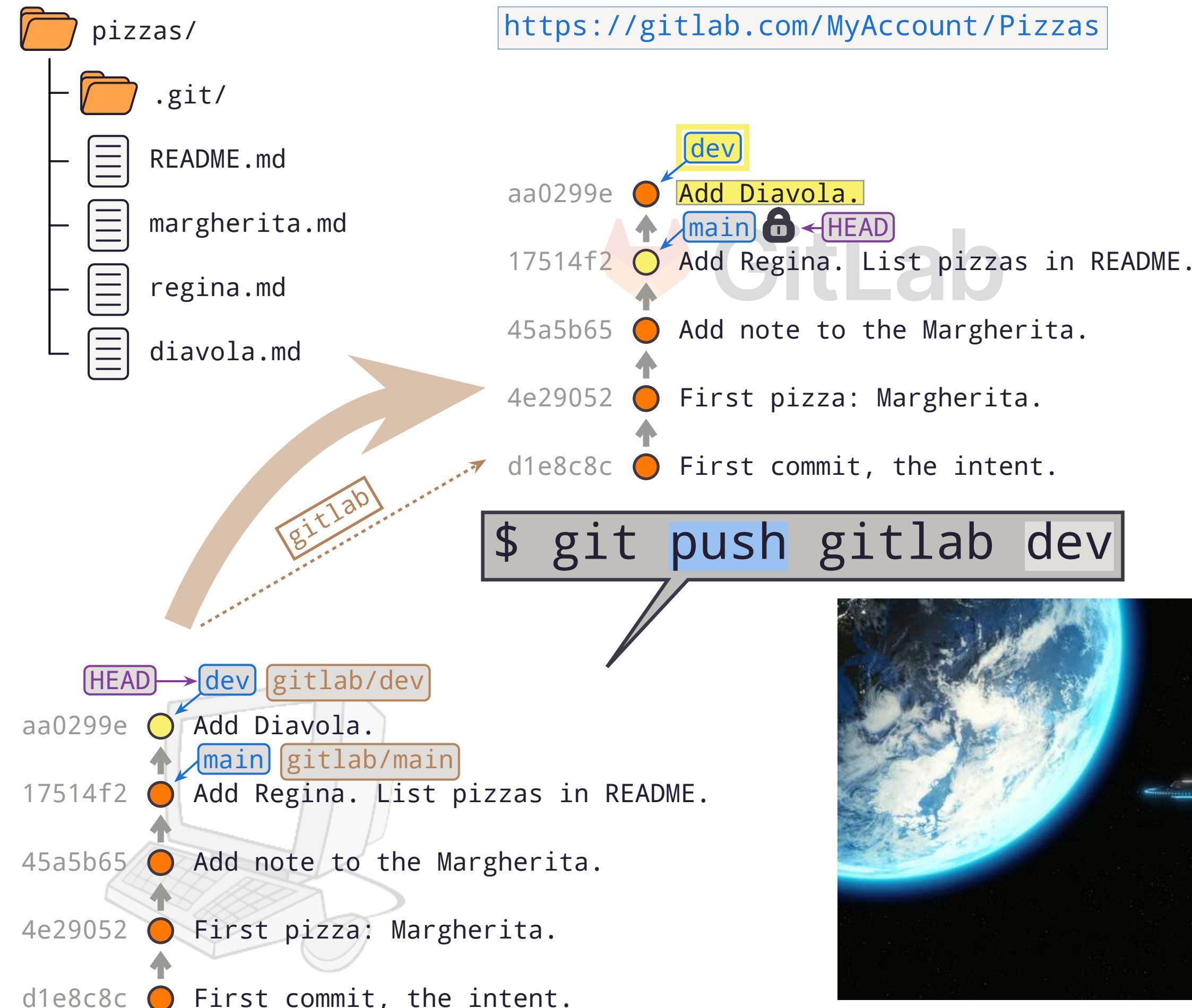
# Maintain Your Project

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# Maintain Your Project

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# Maintain Your Project

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gitlab



# Maintain Your Project

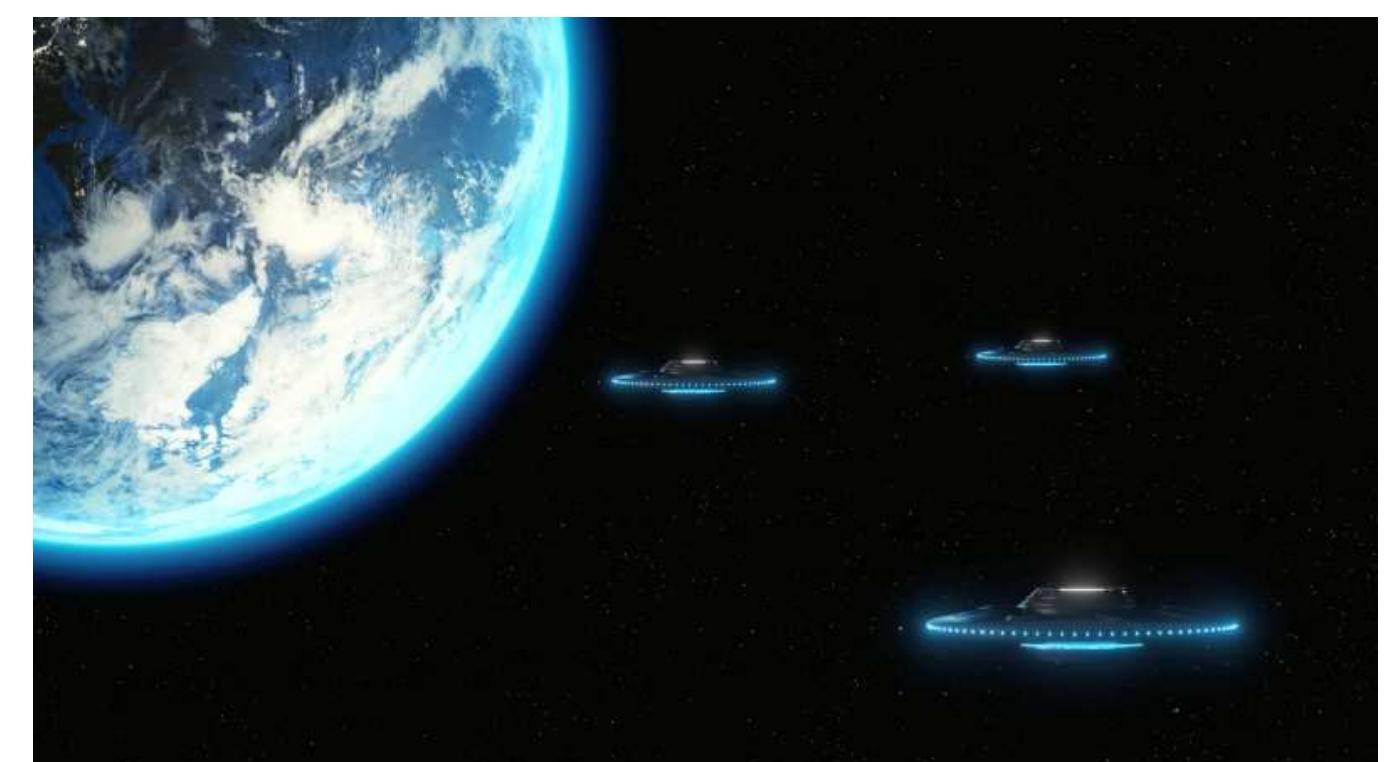
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gitlab

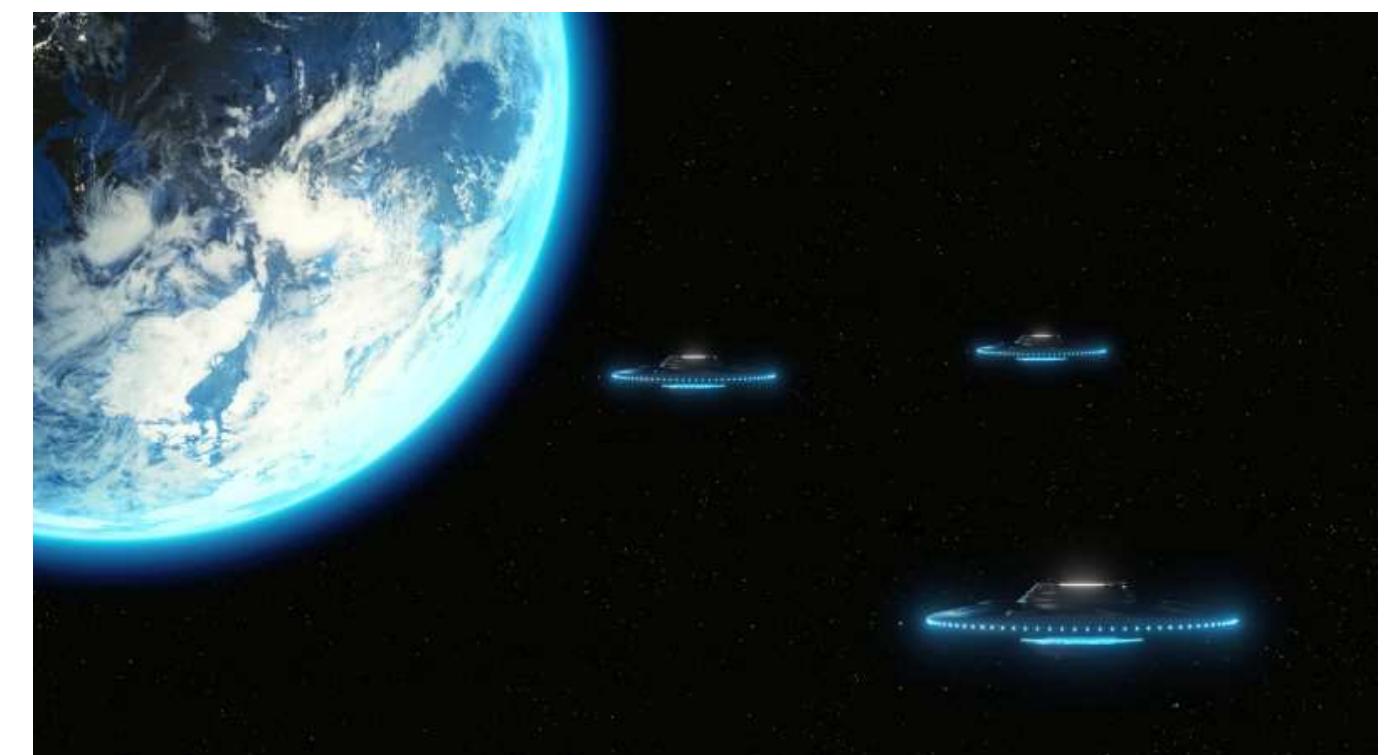
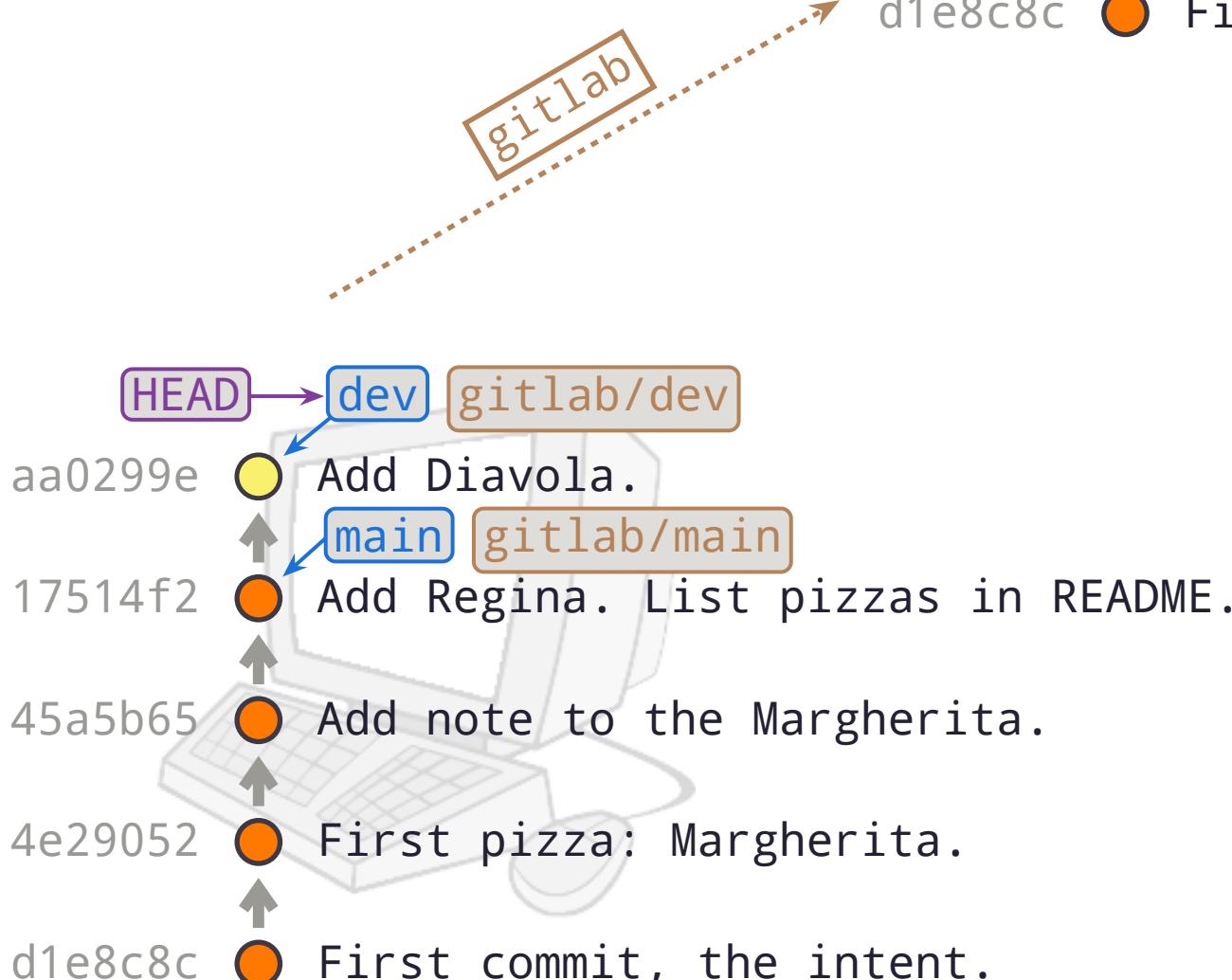


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# Maintain Your Project

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\$ git checkout main



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pizzas/



.git/



README.md



margherita.md



regina.md

<https://gitlab.com/MyAccount/Pizzas>



\$ git checkout main



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pizzas/



.git/



README.md

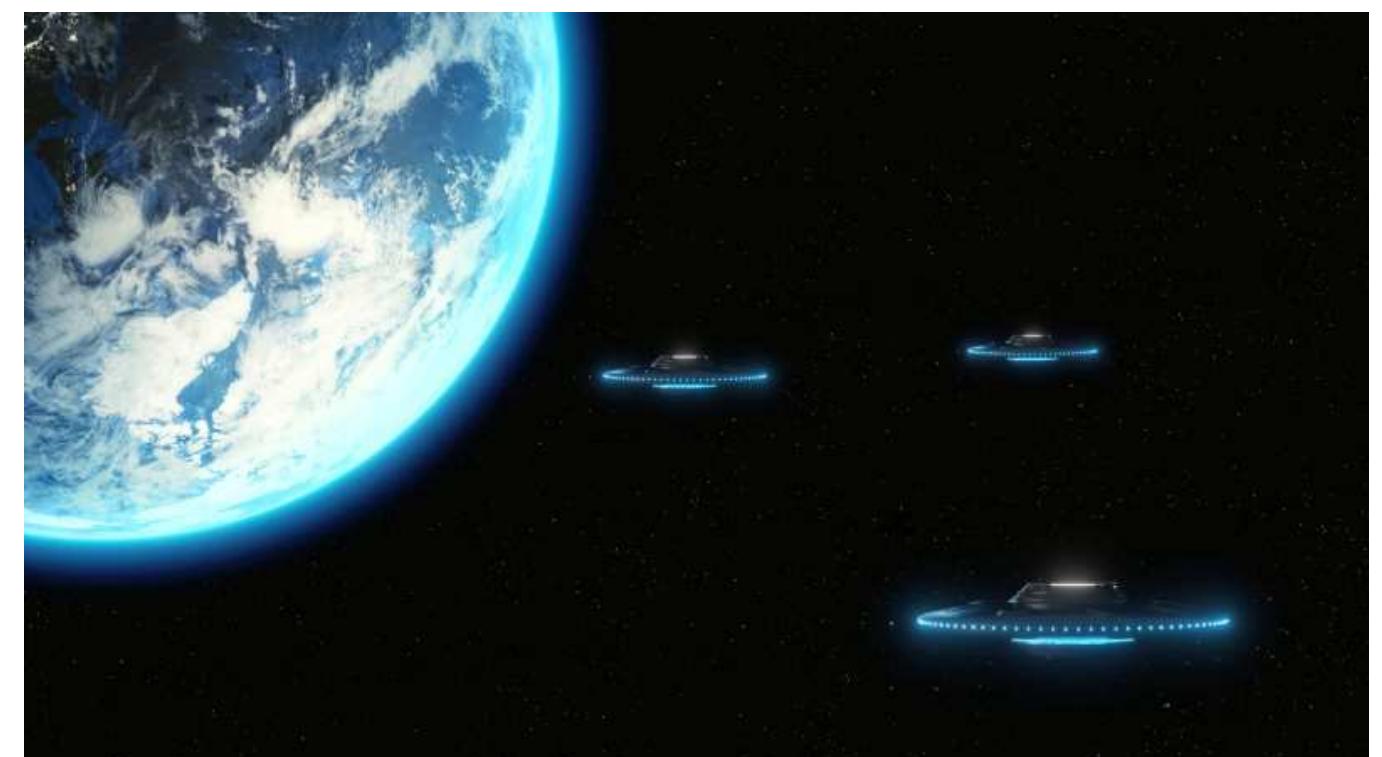


margherita.md



regina.md

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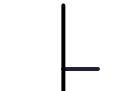


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pizzas/



.git/



README.md



margherita.md

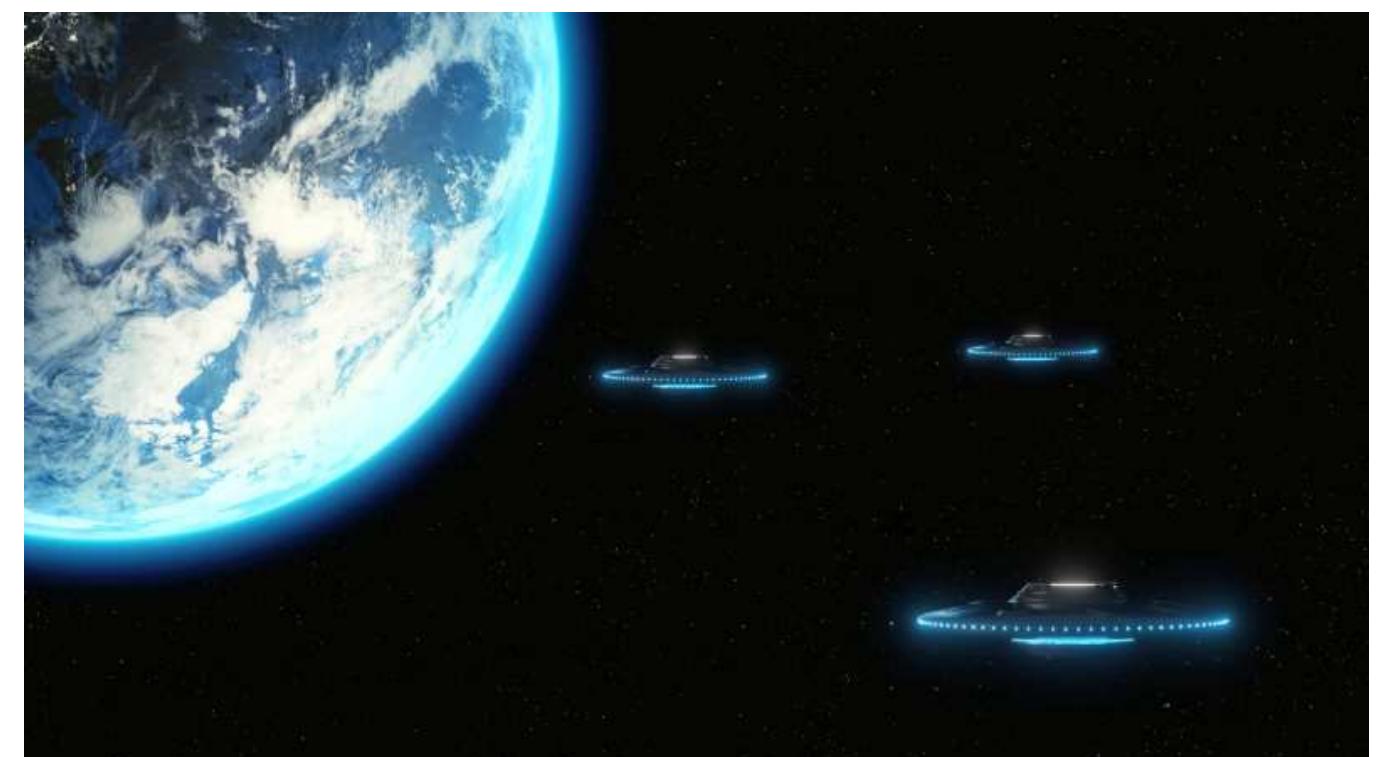


regina.md

<https://gitlab.com/MyAccount/Pizzas>



\$ git merge dev



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README.md

margherita.md

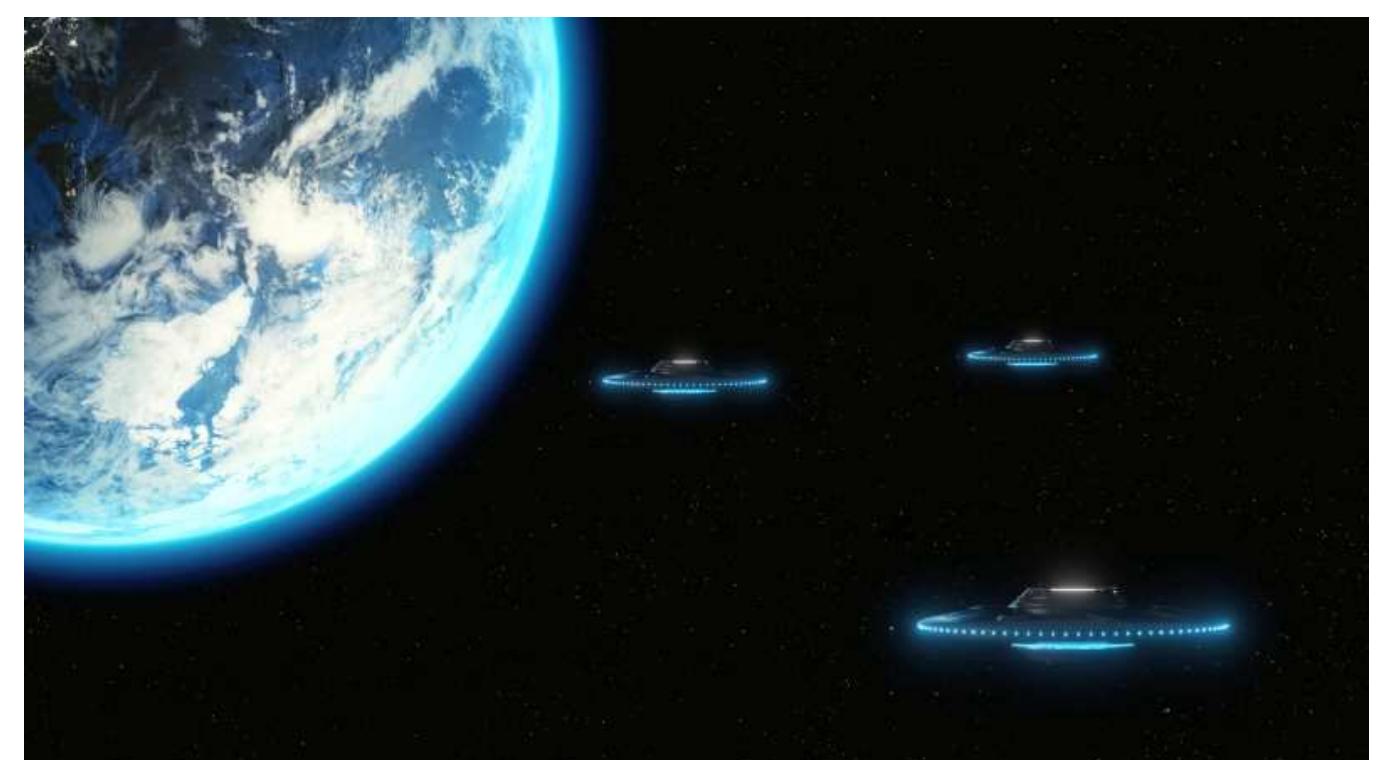
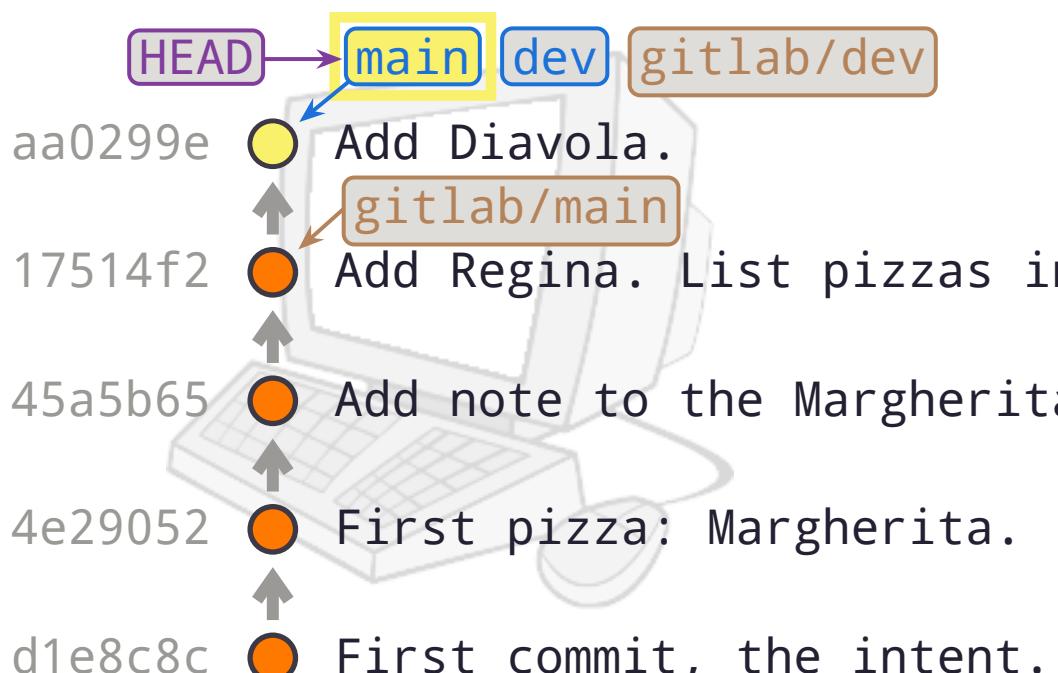
regina.md

diavola.md

<https://gitlab.com/MyAccount/Pizzas>



\$ git merge dev



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pizzas/



.git/



README.md



margherita.md



regina.md



diavola.md

<https://gitlab.com/MyAccount/Pizzas>



gitlab

HEAD → main dev gitlab/dev



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pizzas/



.git/



README.md



margherita.md



regina.md



diavola.md

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pizzas/



.git/



README.md



margherita.md



regina.md



diavola.md

<https://gitlab.com/MyAccount/Pizzas>



gitlab

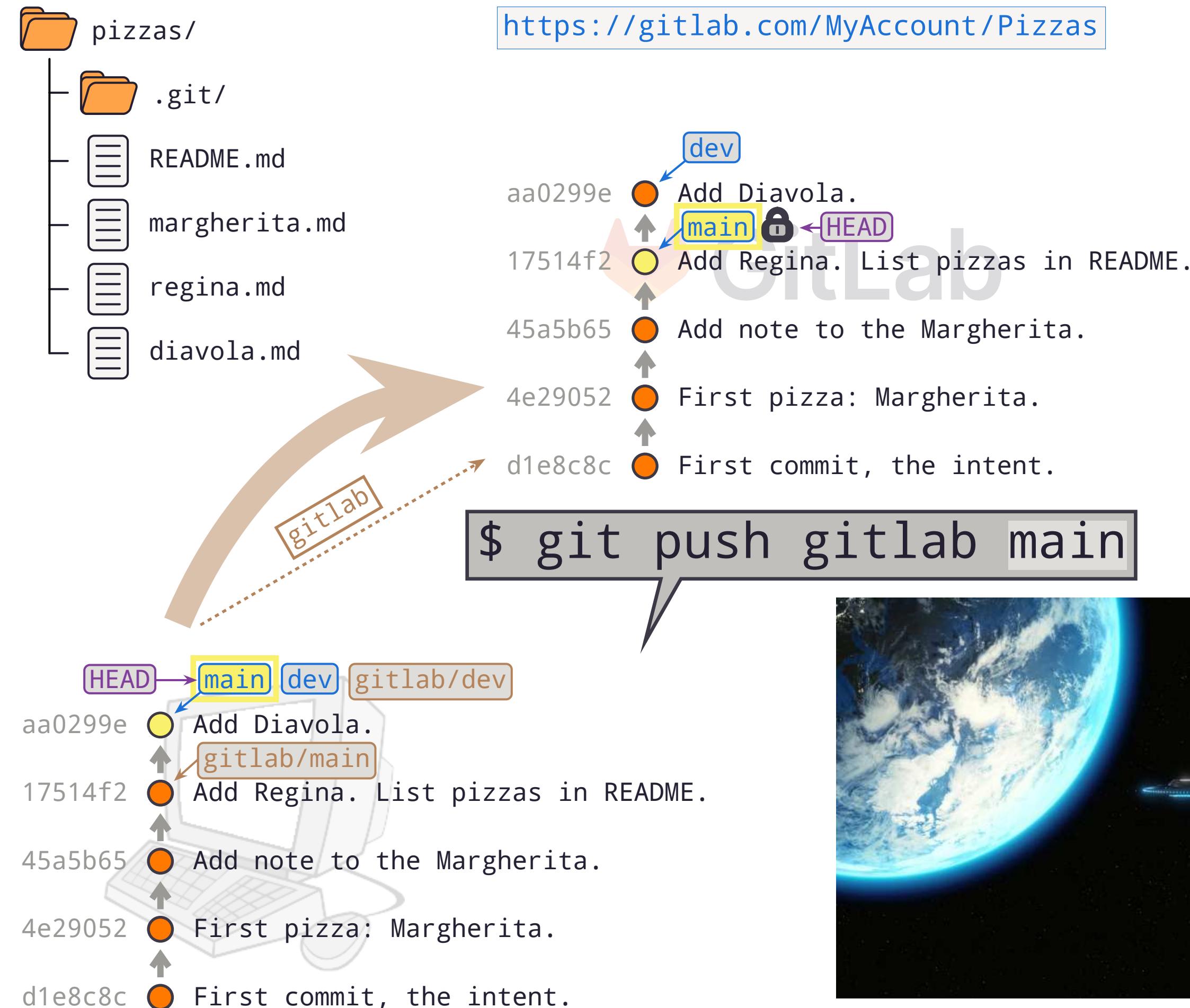


HEAD → main dev gitlab/dev



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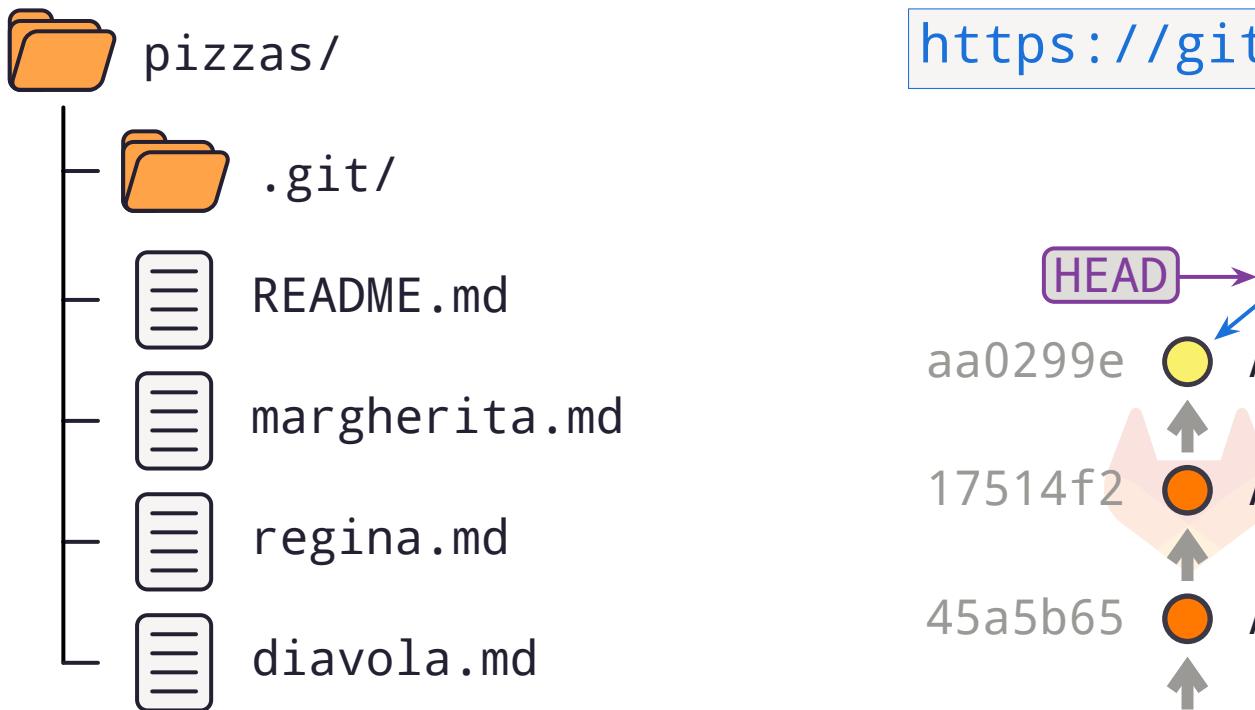
# Maintain Your Project

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# Maintain Your Project

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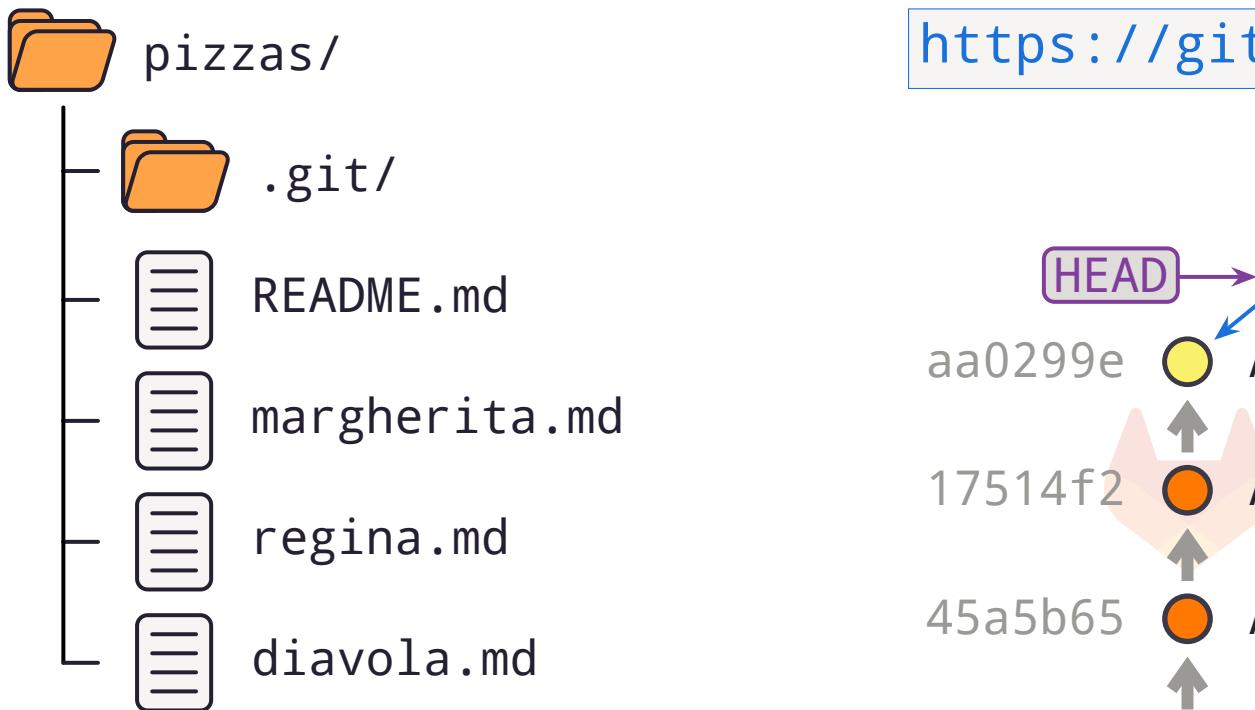


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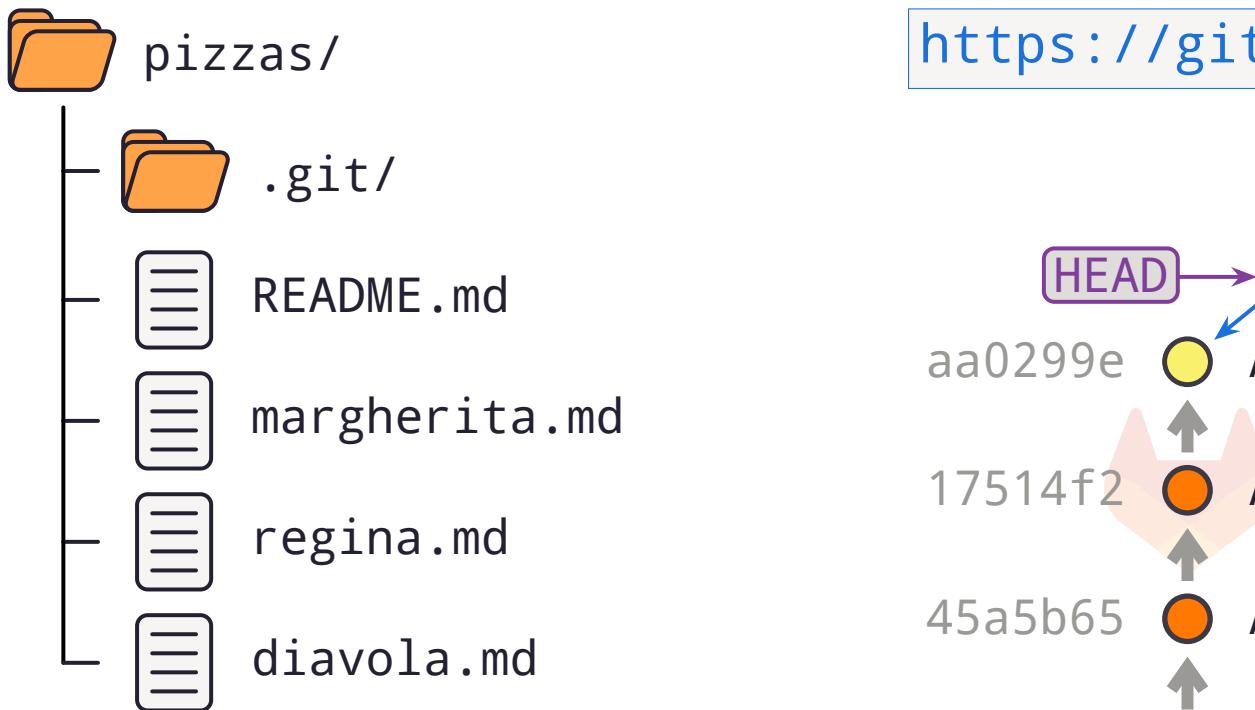


gitlab



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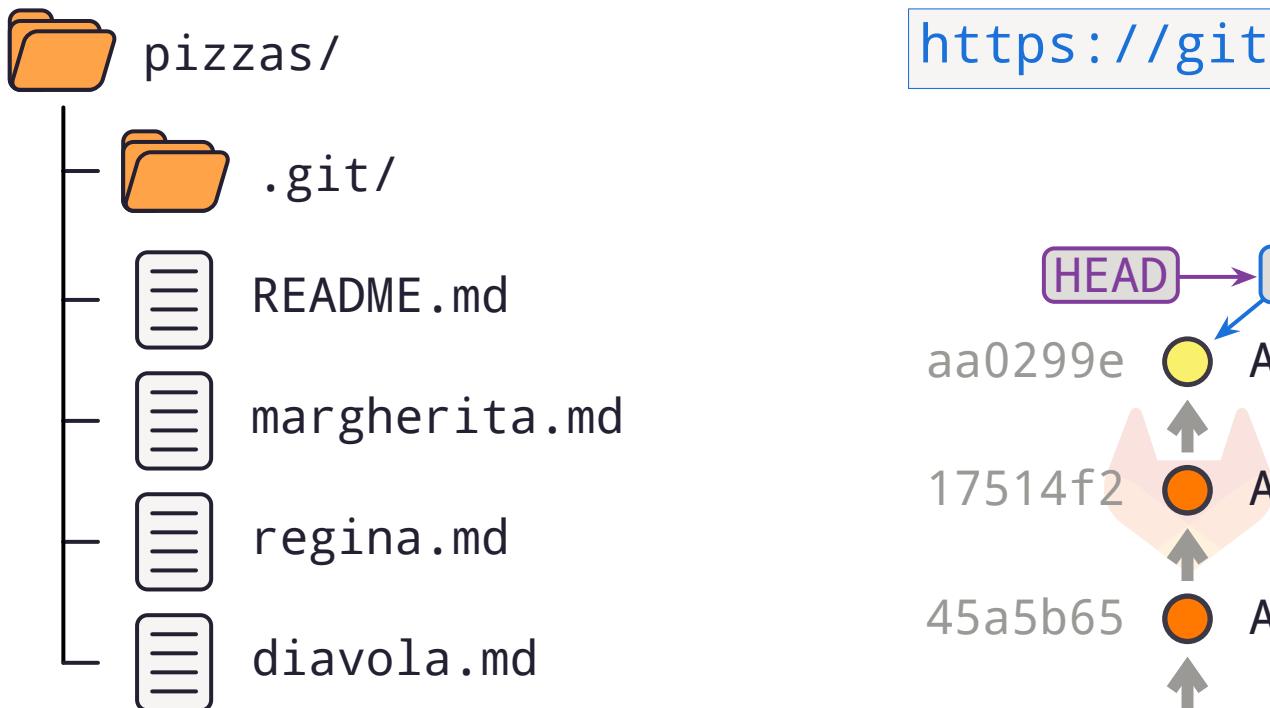


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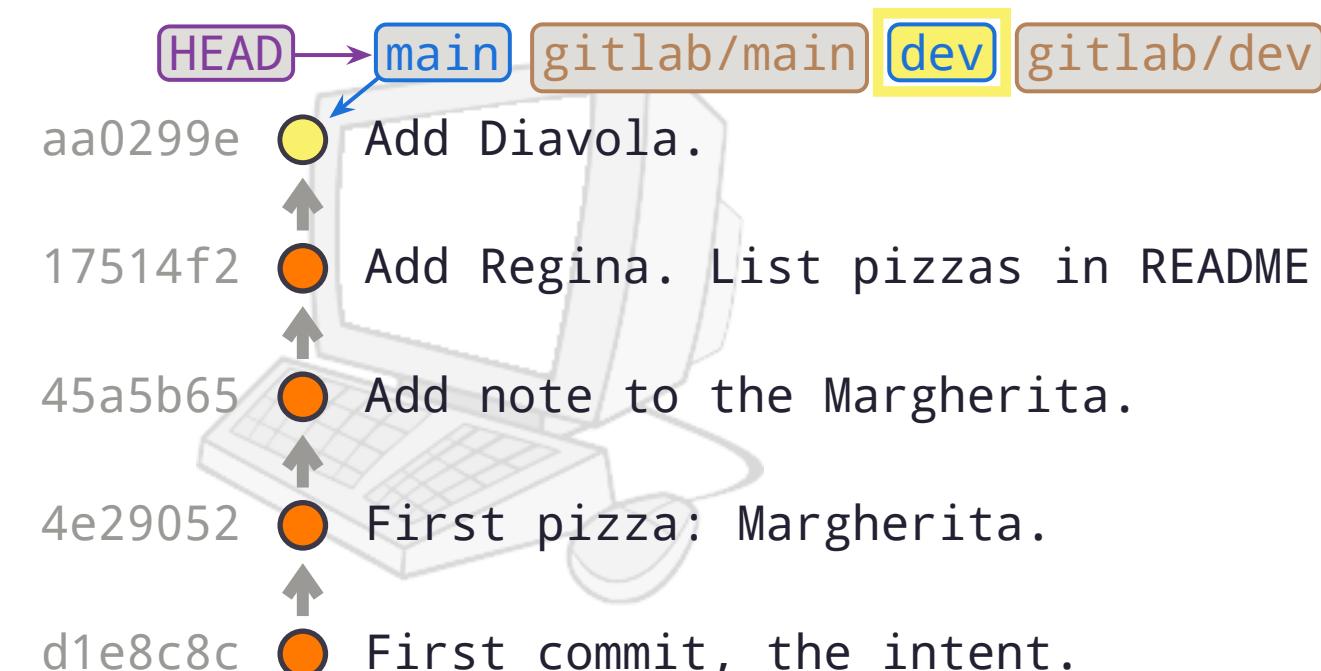
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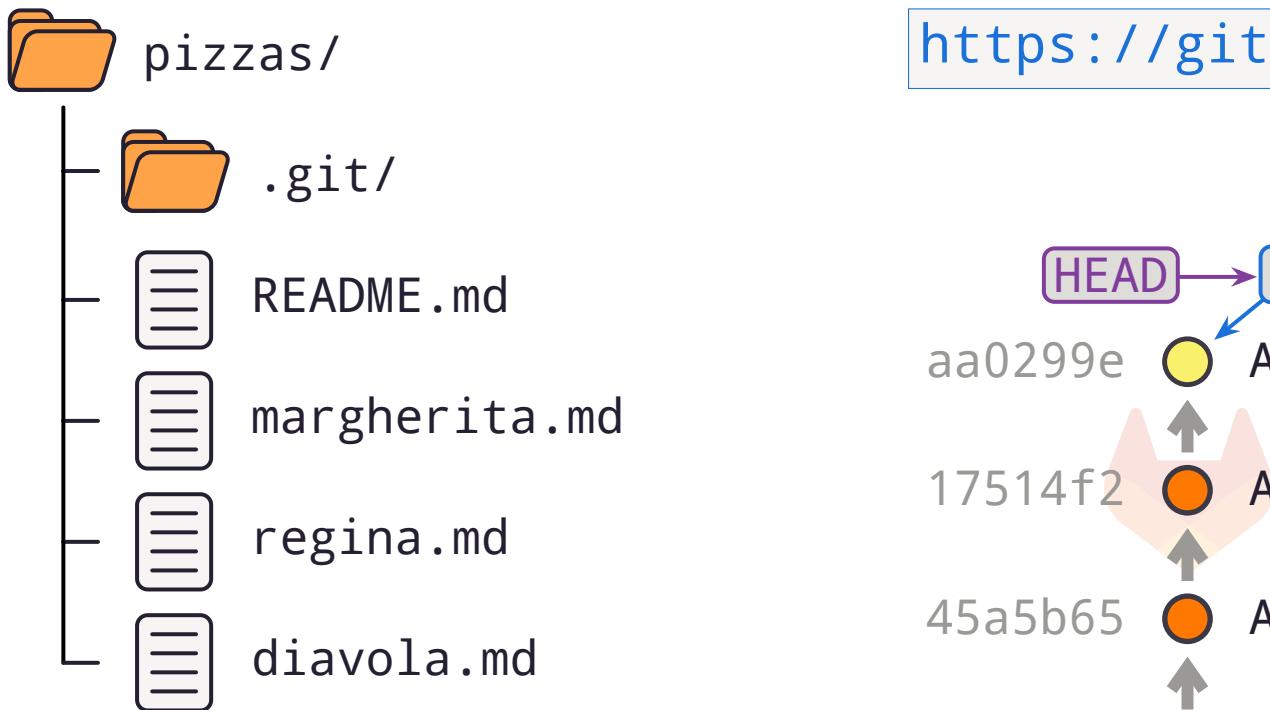


\$ git checkout dev



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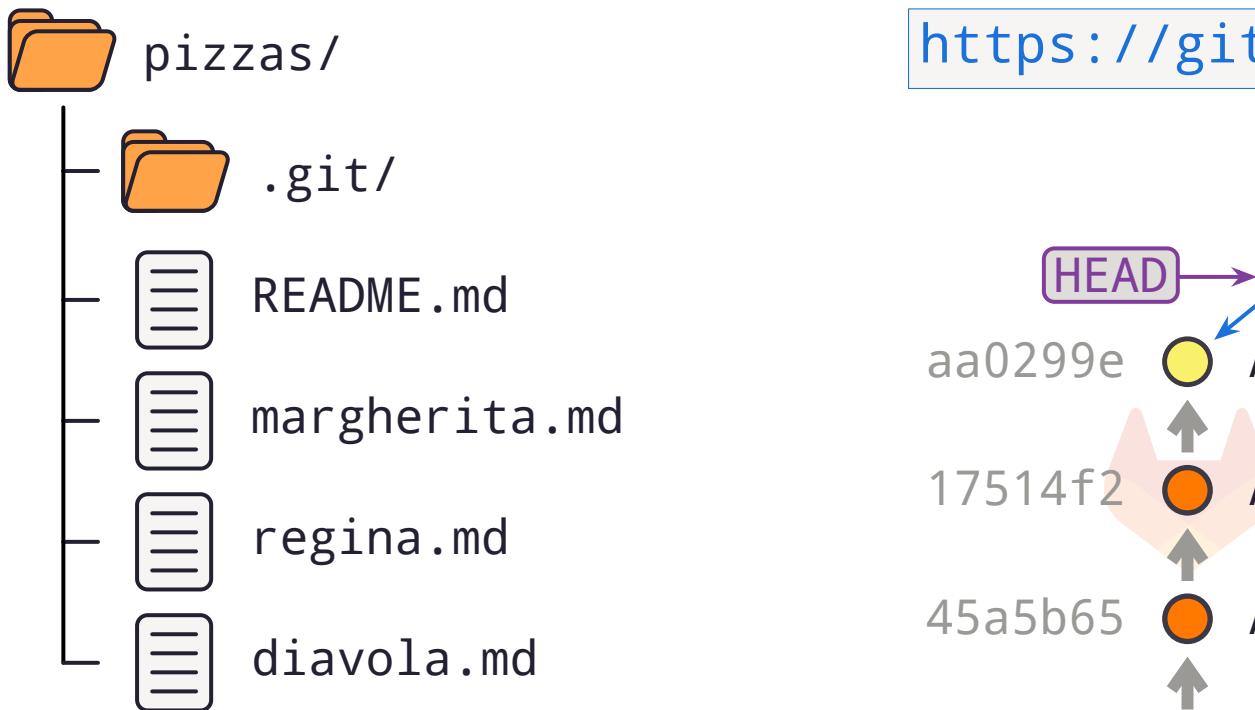


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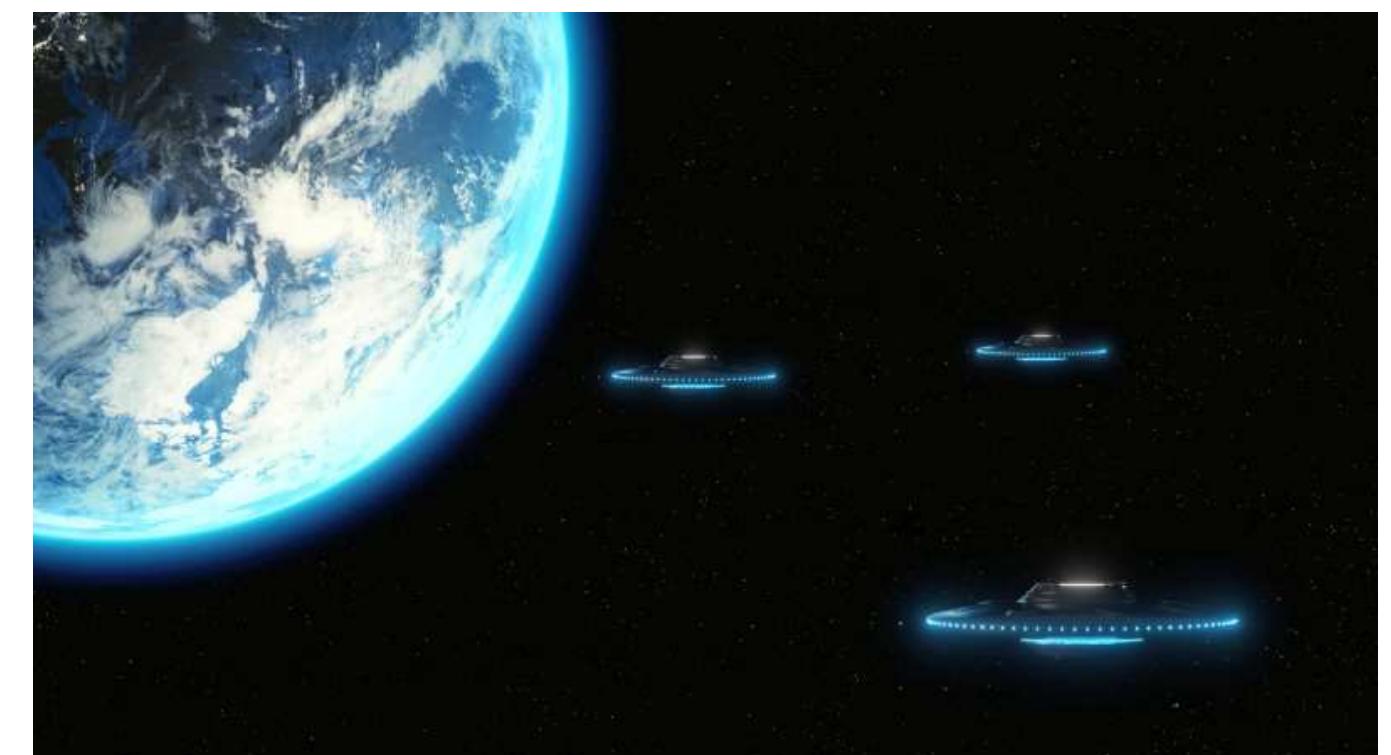


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# Collaborate

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# Collaborate

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# Collaborate

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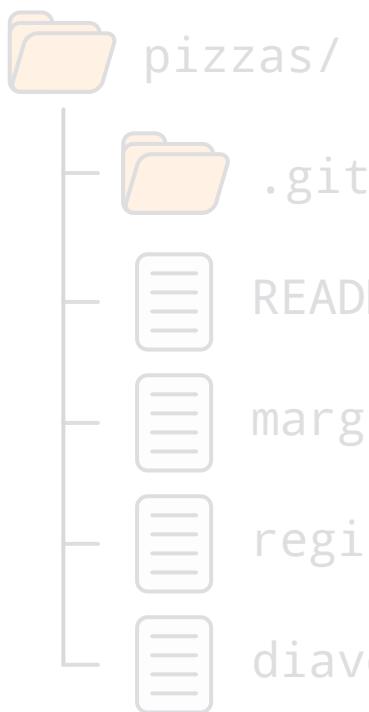


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# Collaborate

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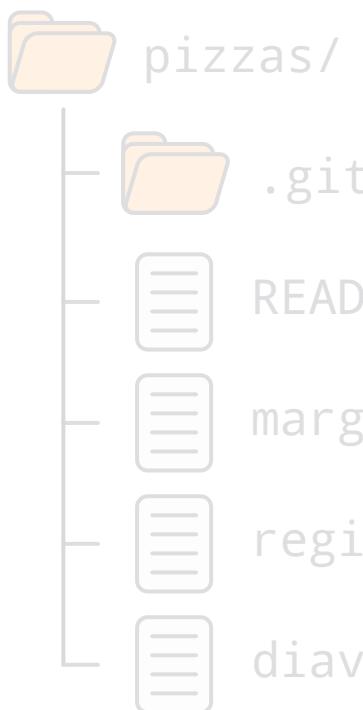
gitlab

\$ git clone <url>



# Collaborate

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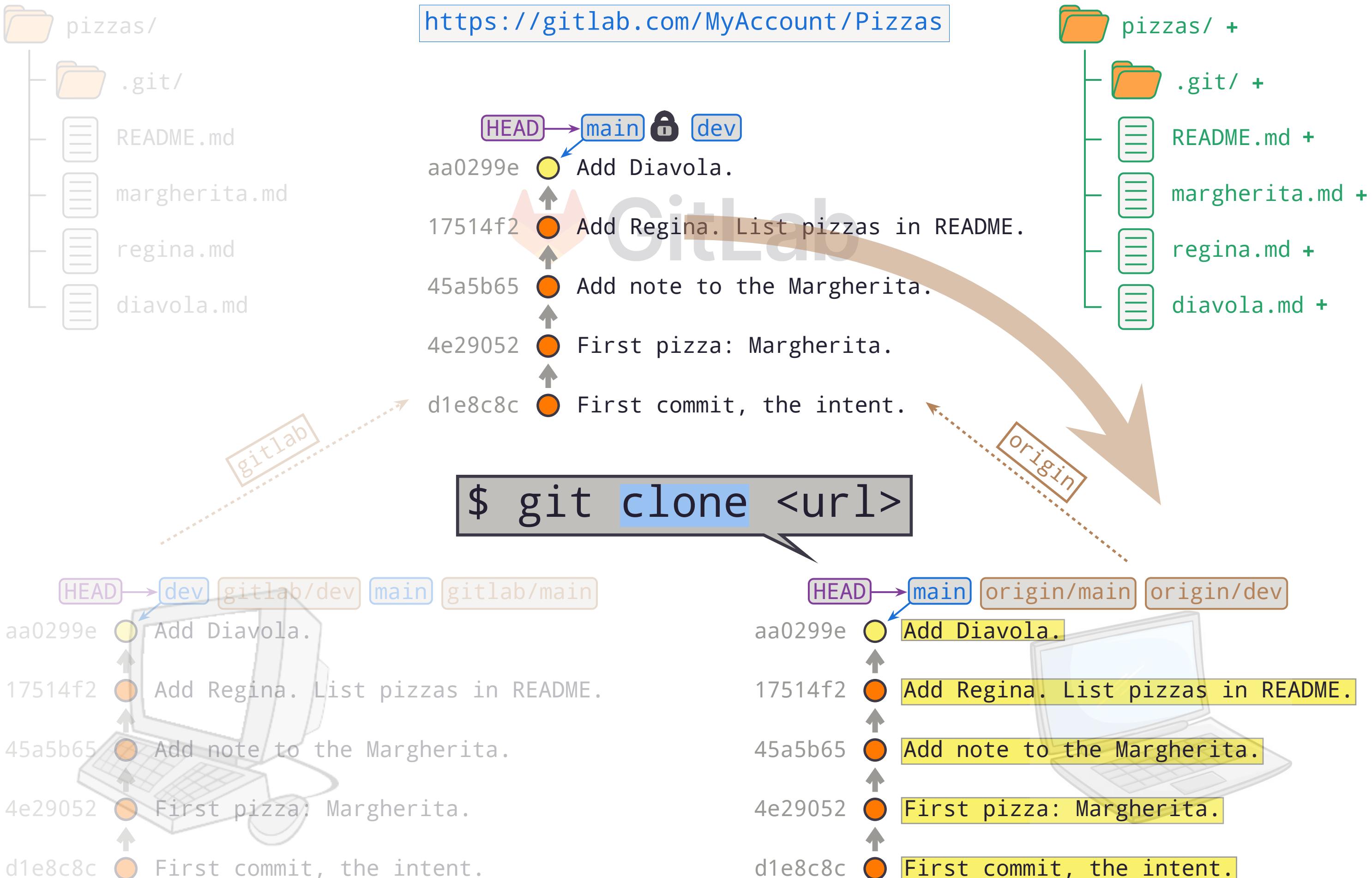


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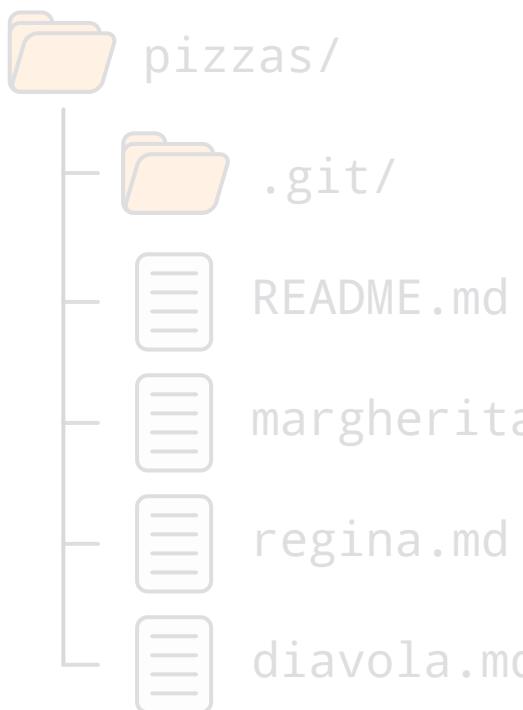
# Collaborate

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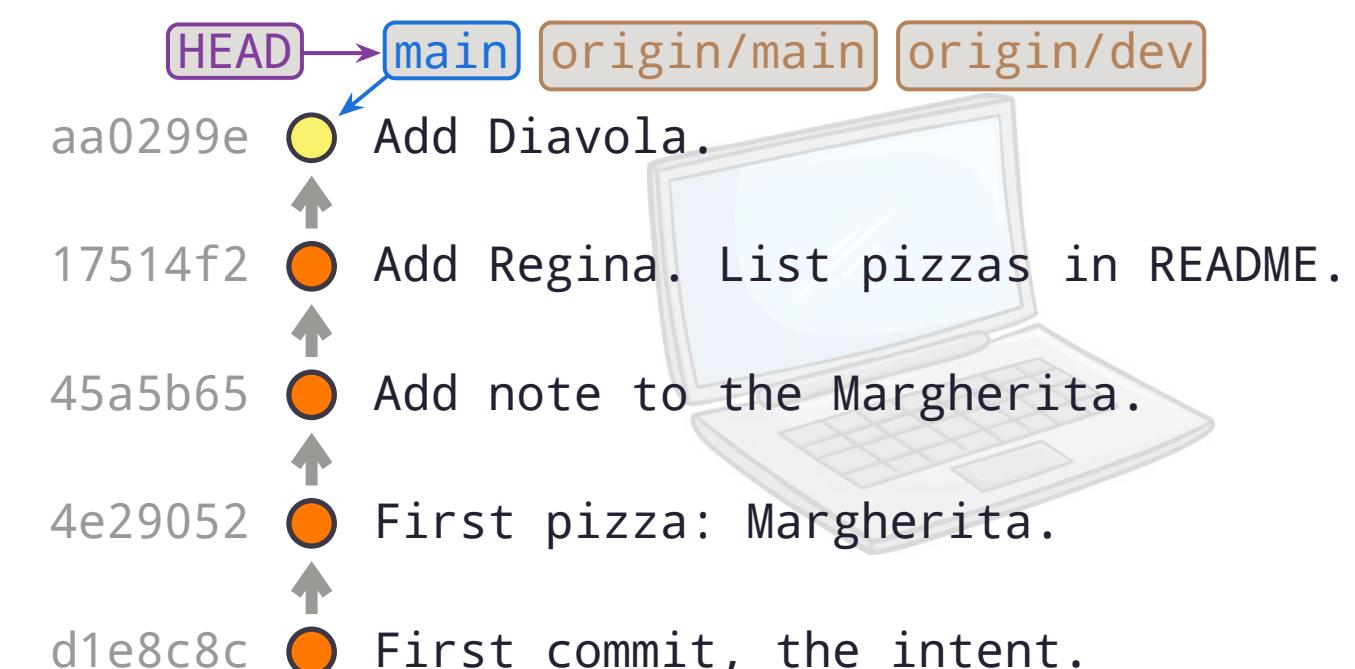
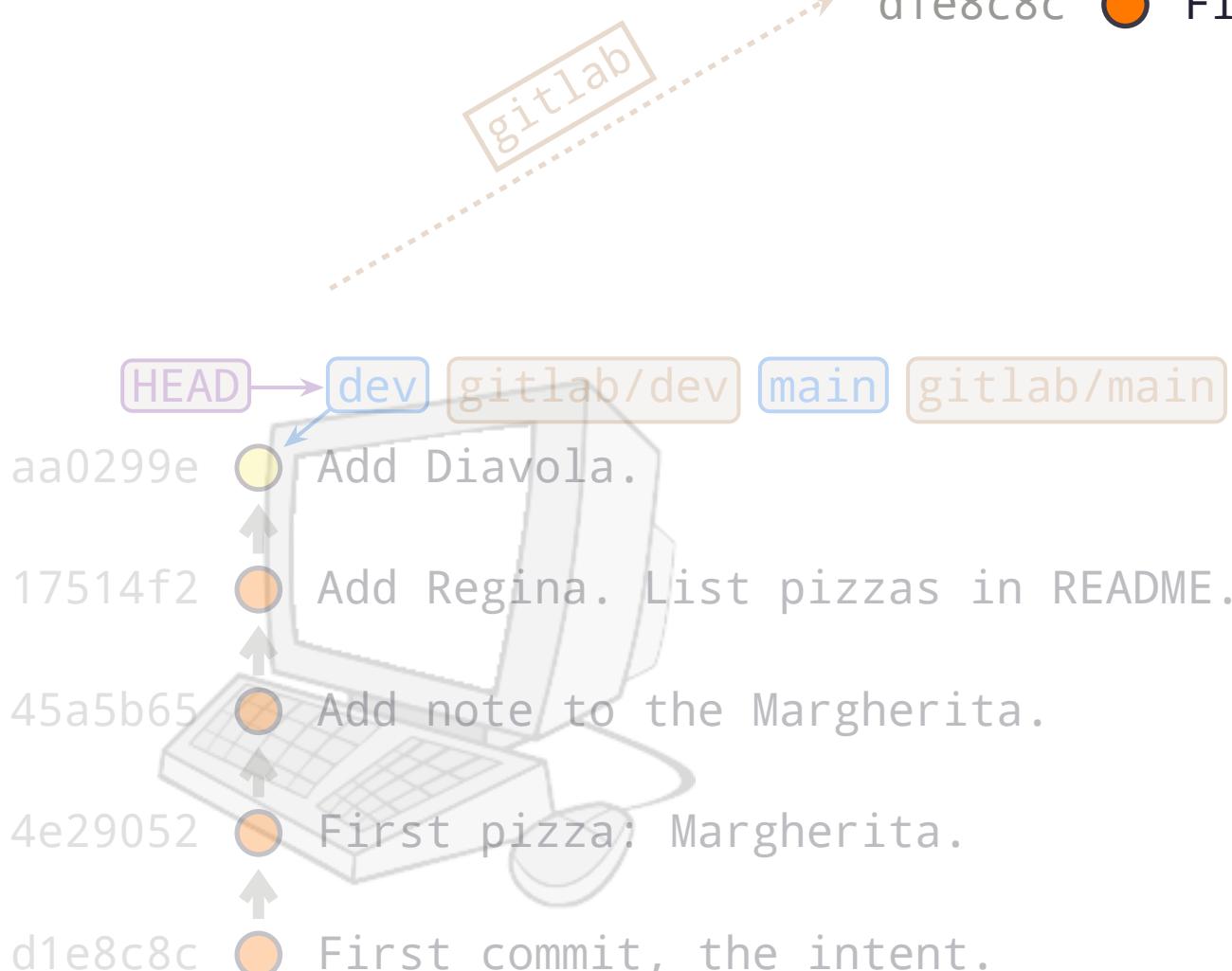
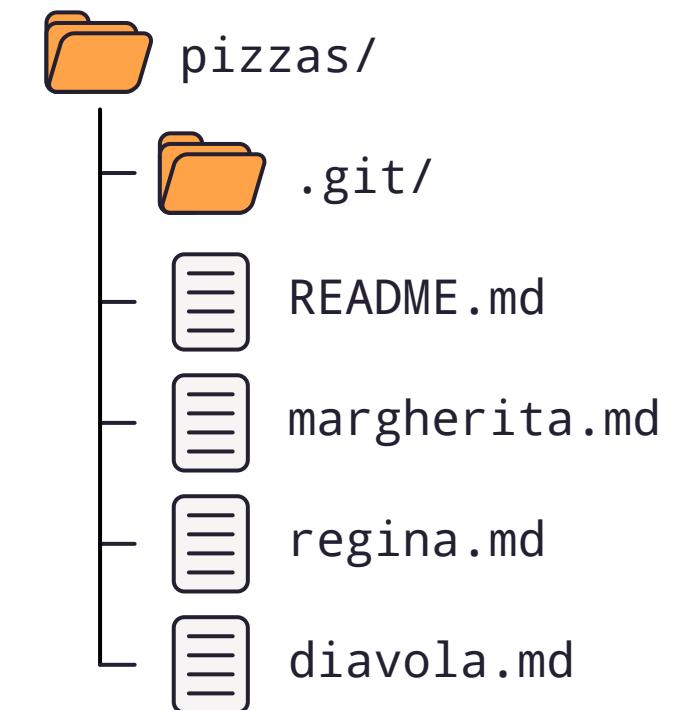


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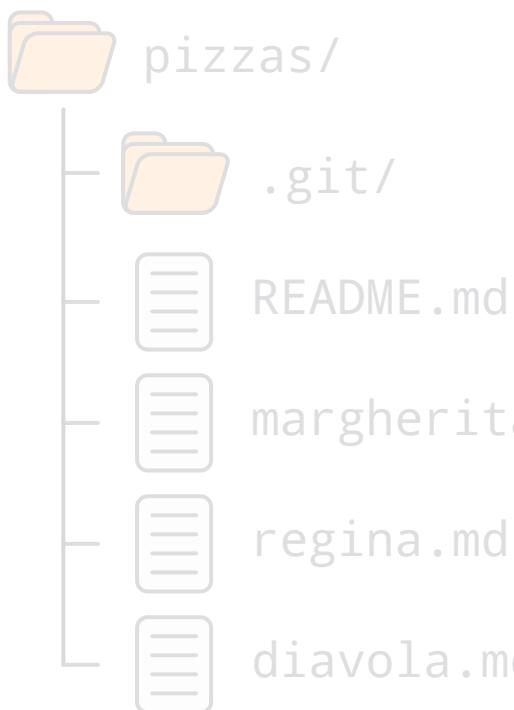


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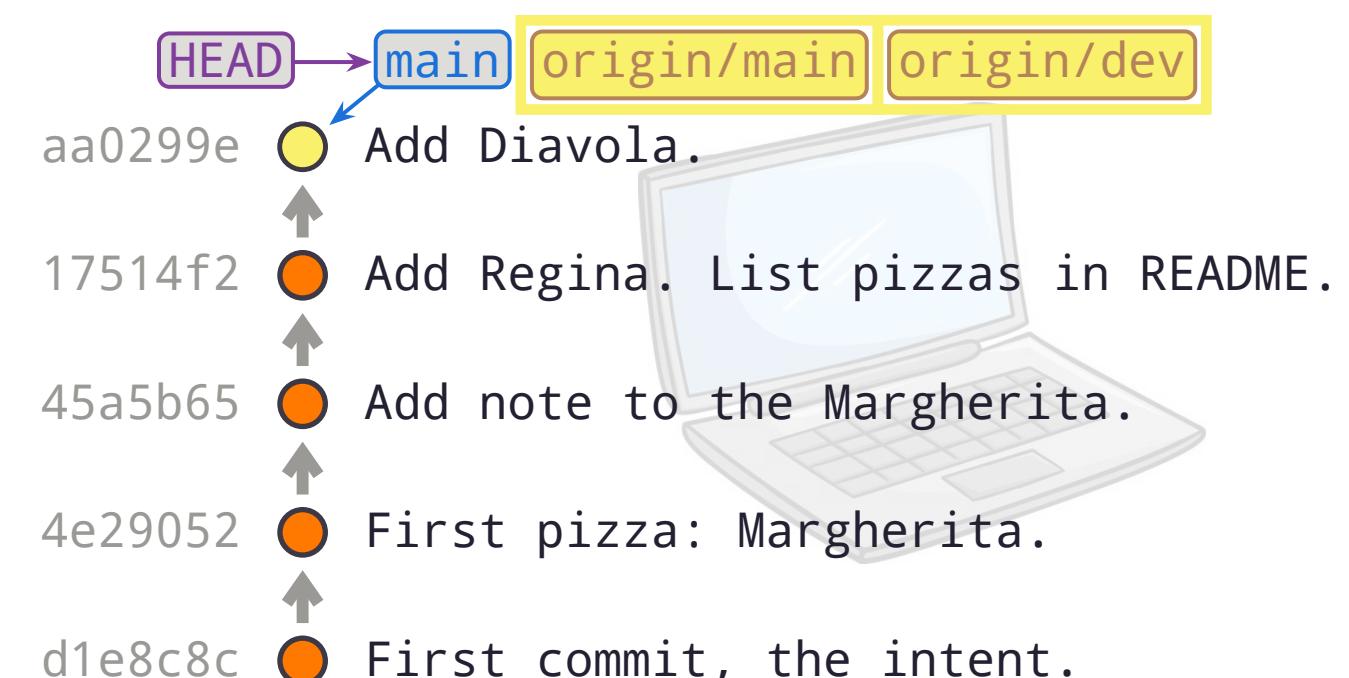
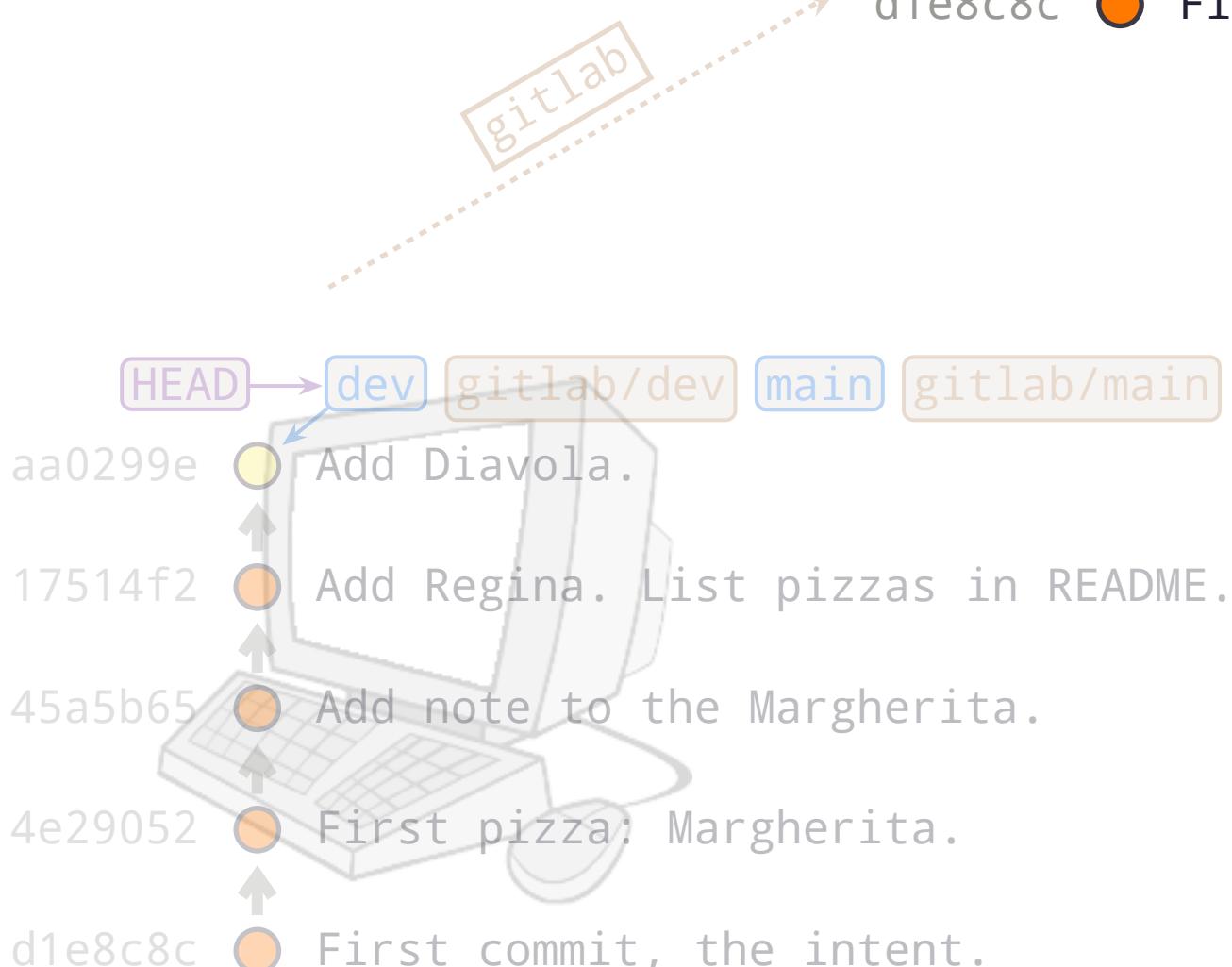
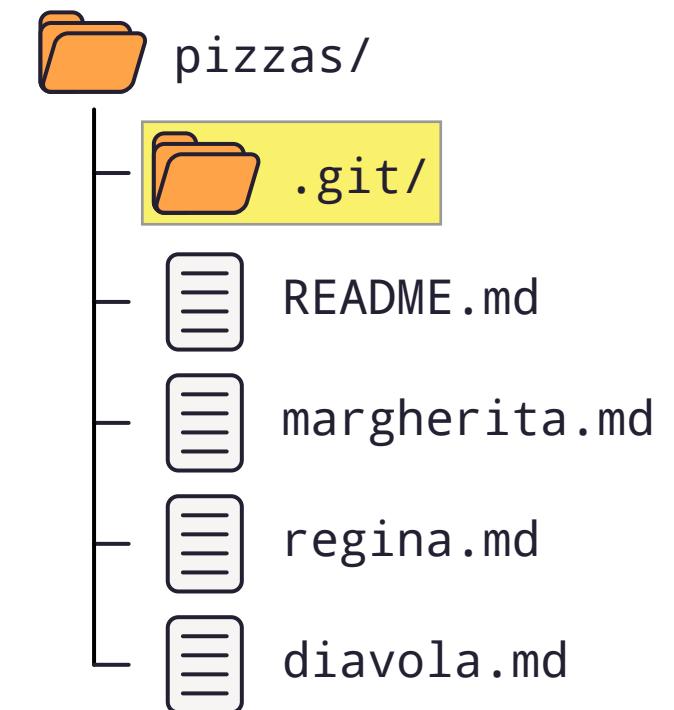


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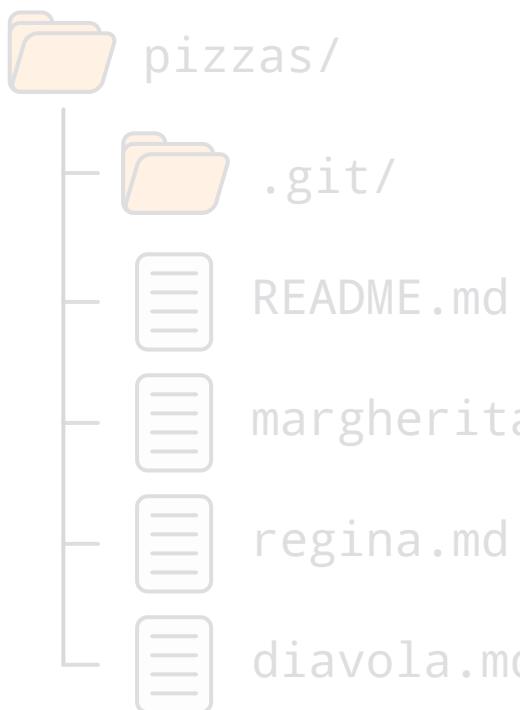


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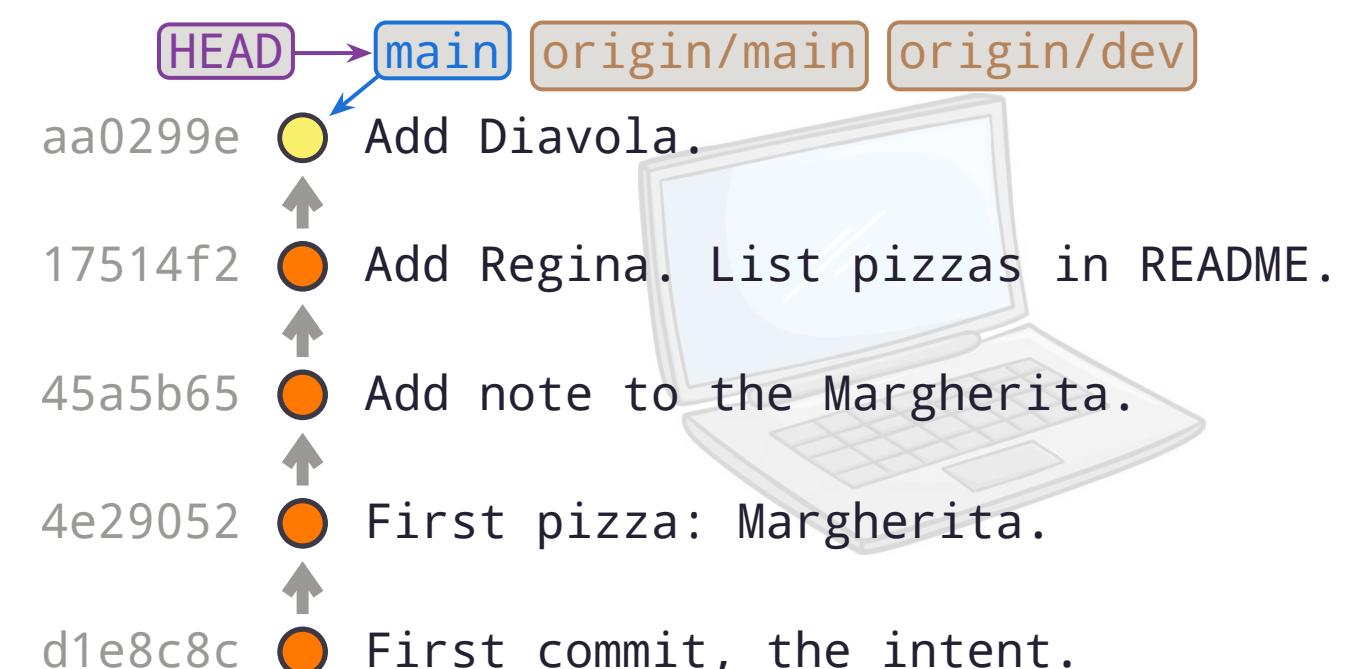
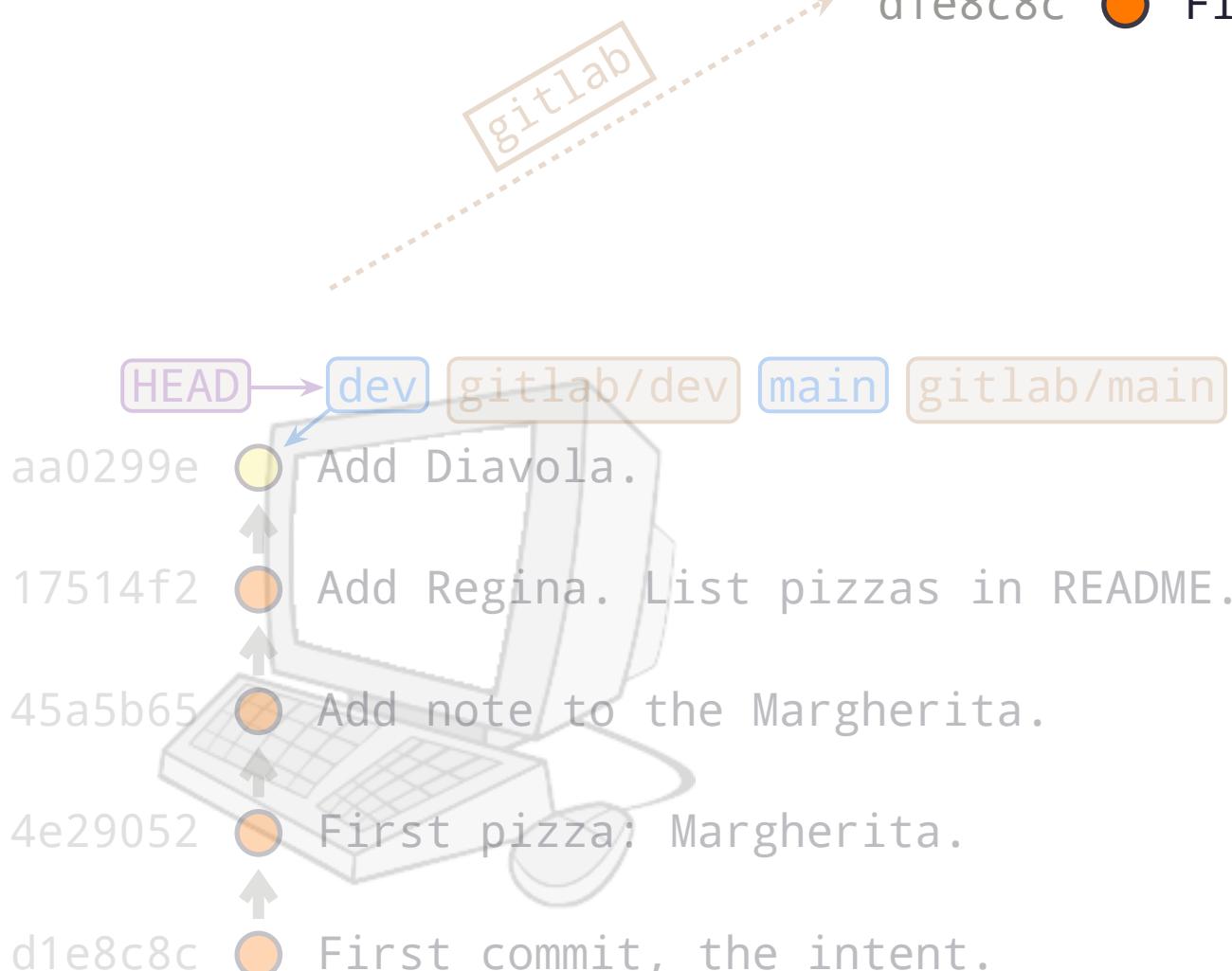
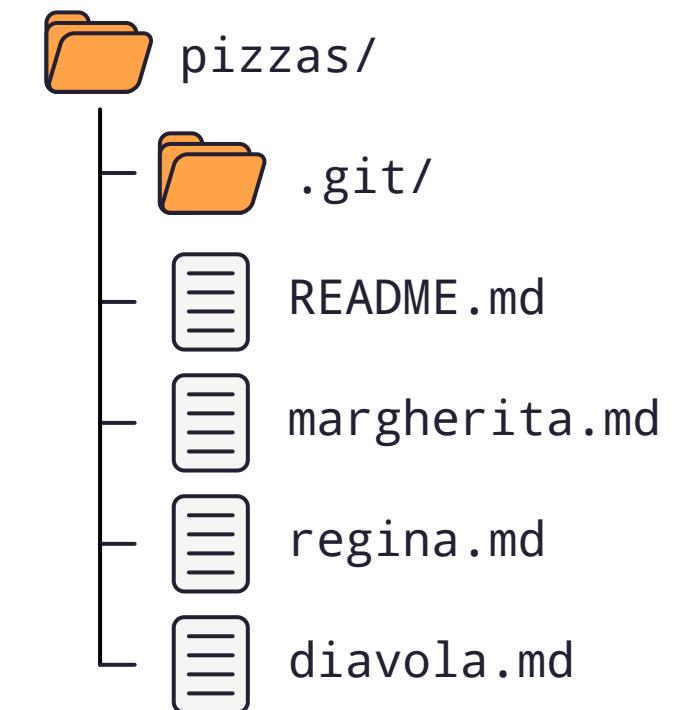


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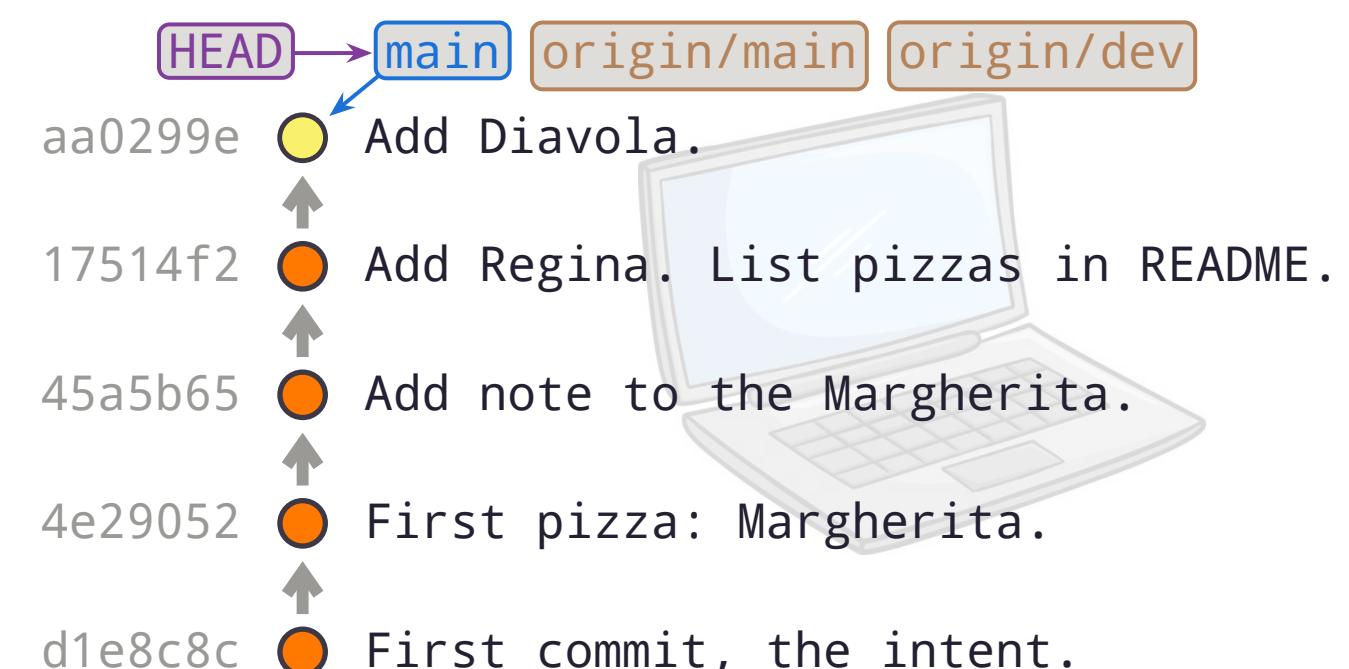
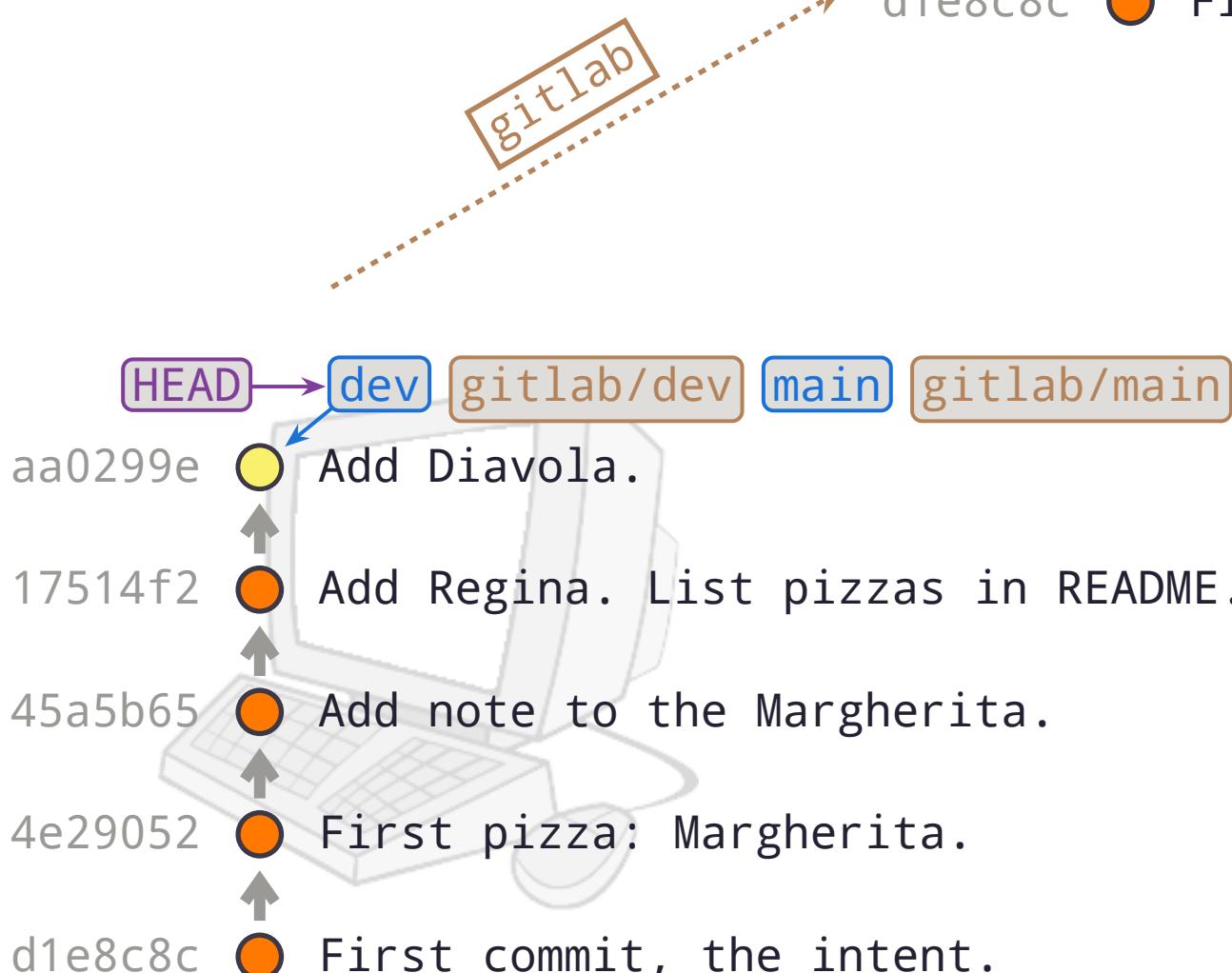
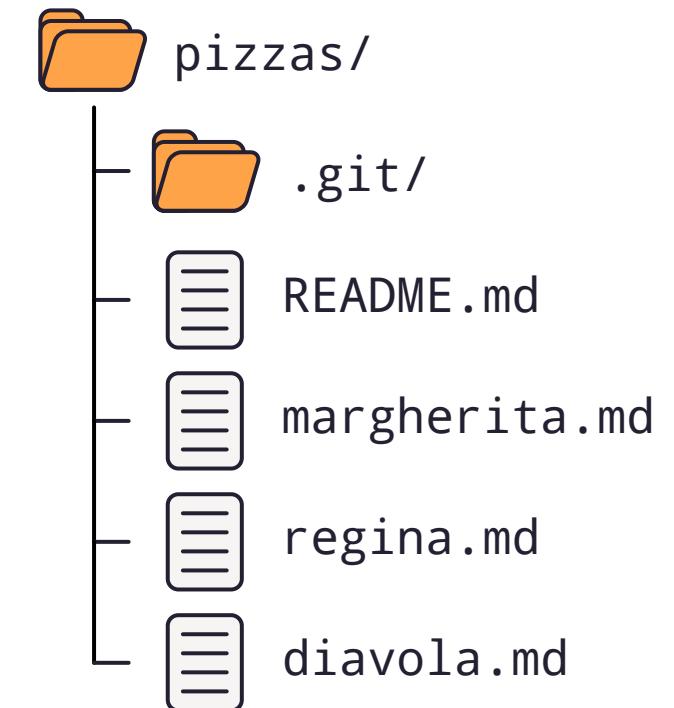


# Collaborate

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# Collaborate

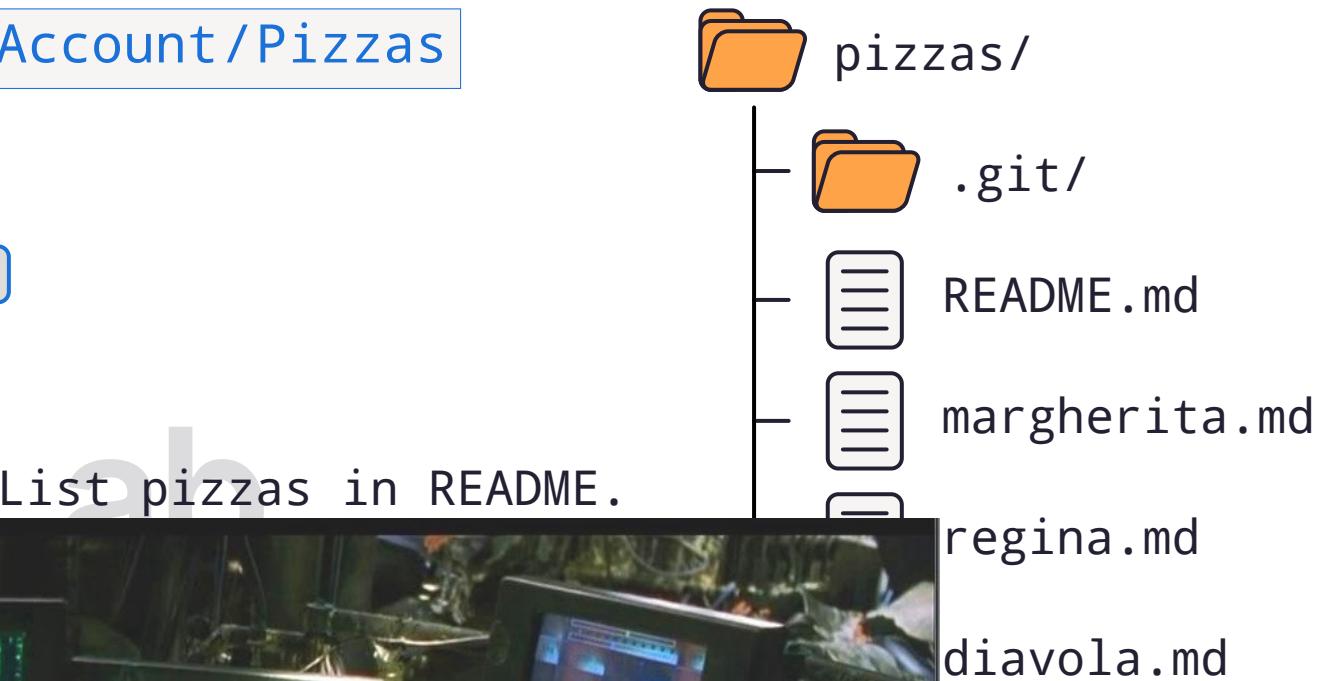
You're Not Alone



<https://gitlab.com/MyAccount/Pizzas>



HEAD → dev  
aa0299e Add Diavola.  
17514f2 Add Regina. List pizzas in README.  
45a5b65 Add note to the Margherita.  
4e29052 First pizza: Margherita.  
d1e8c8c First commit, the intent.



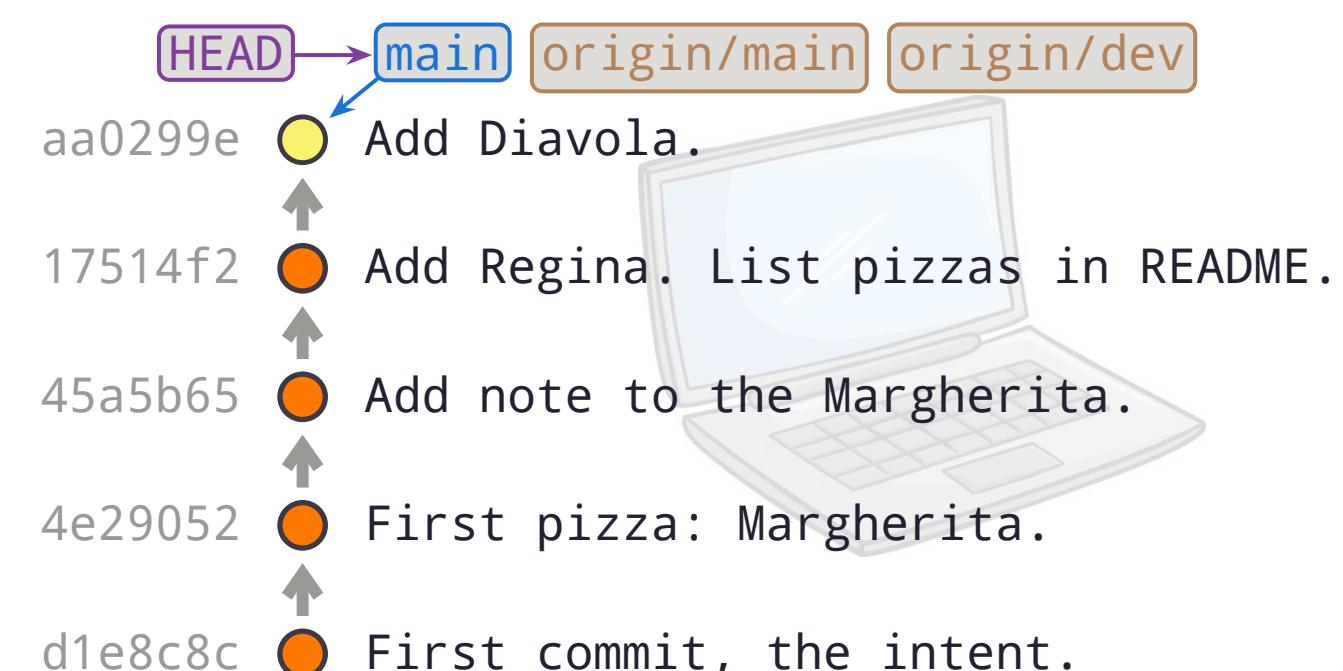
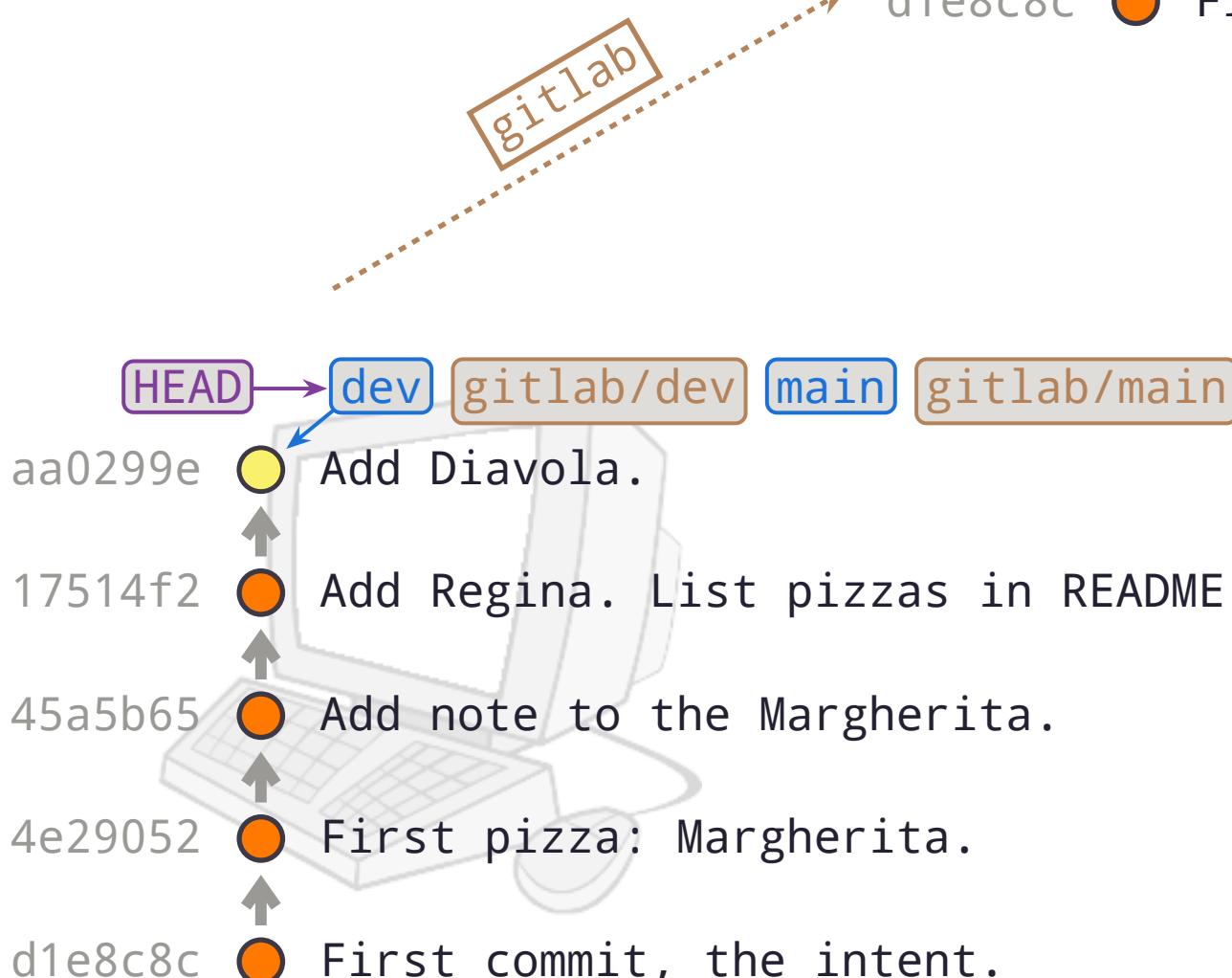
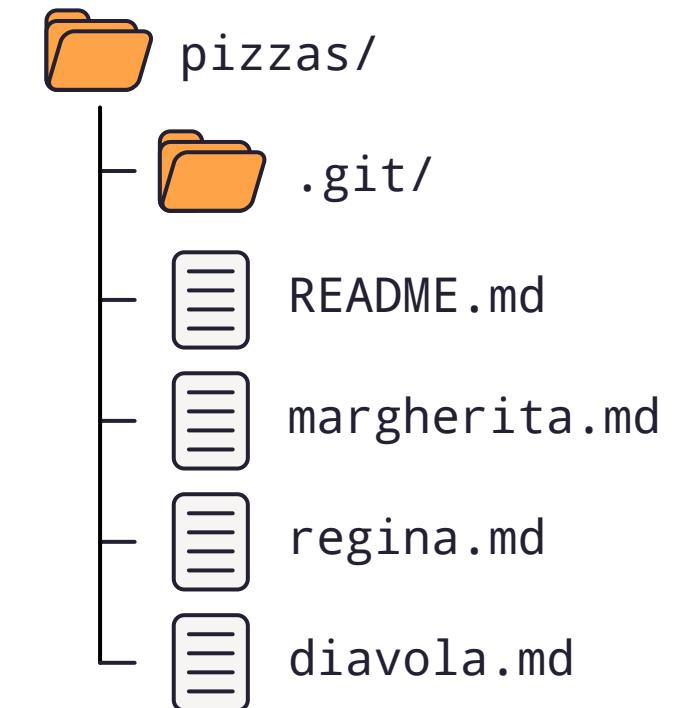
HEAD → dev  
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# Collaborate

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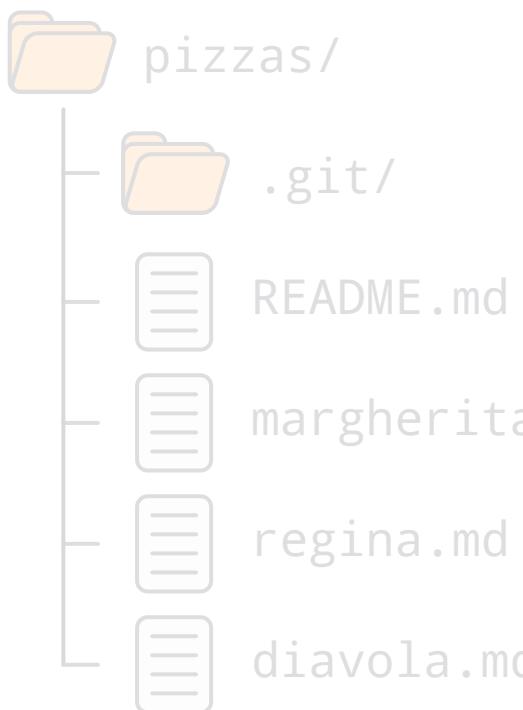


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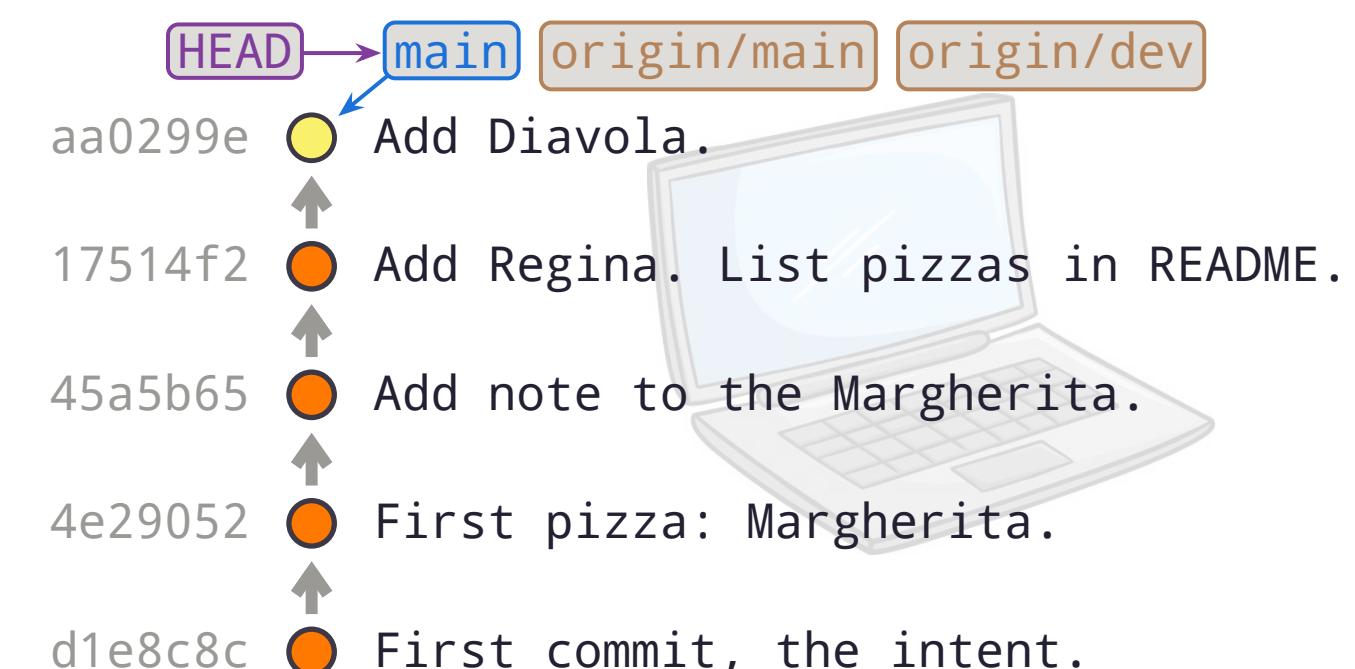
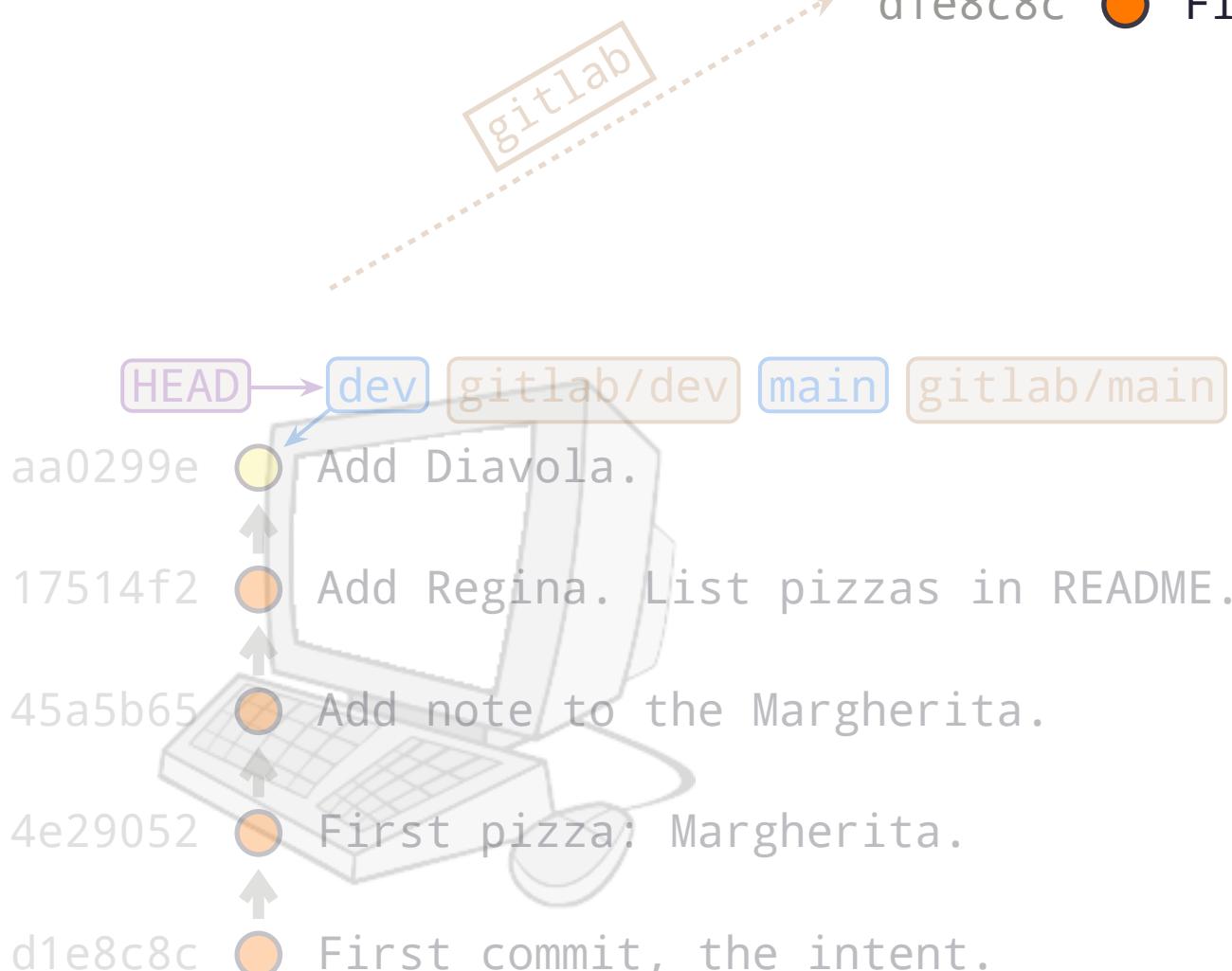
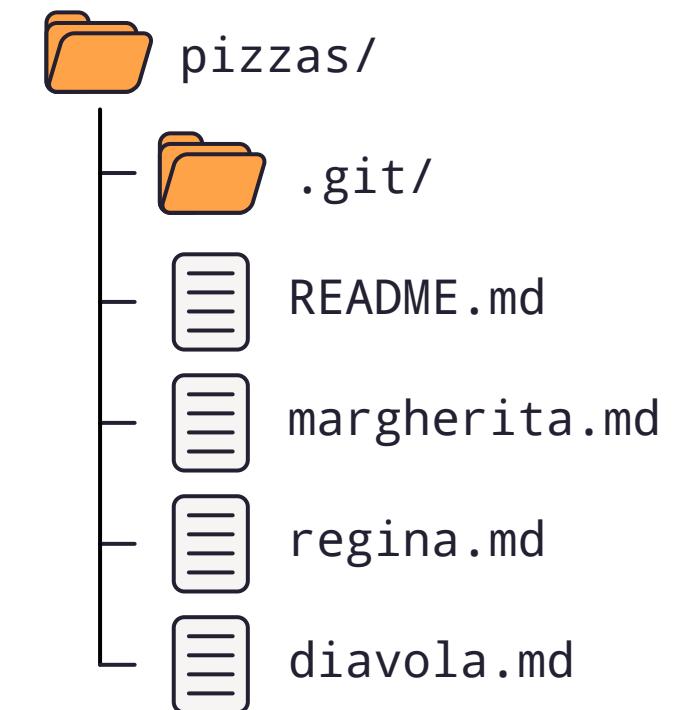


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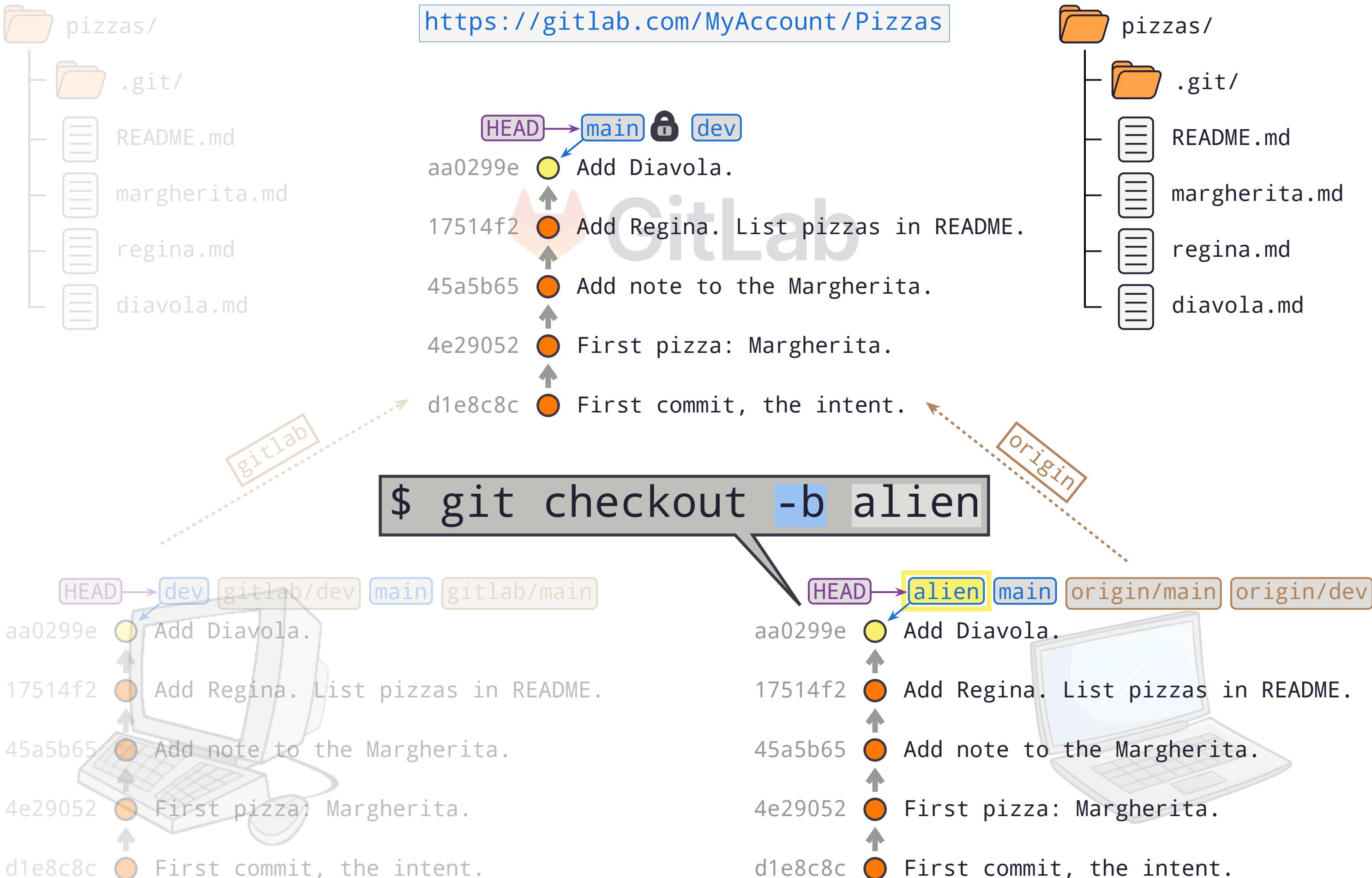


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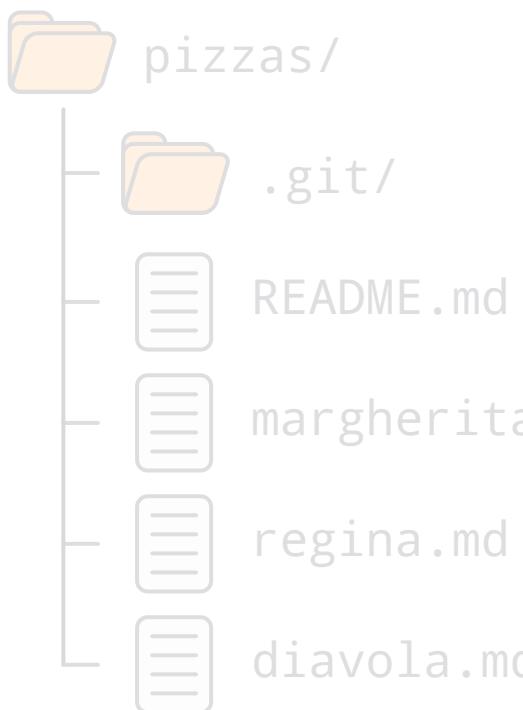
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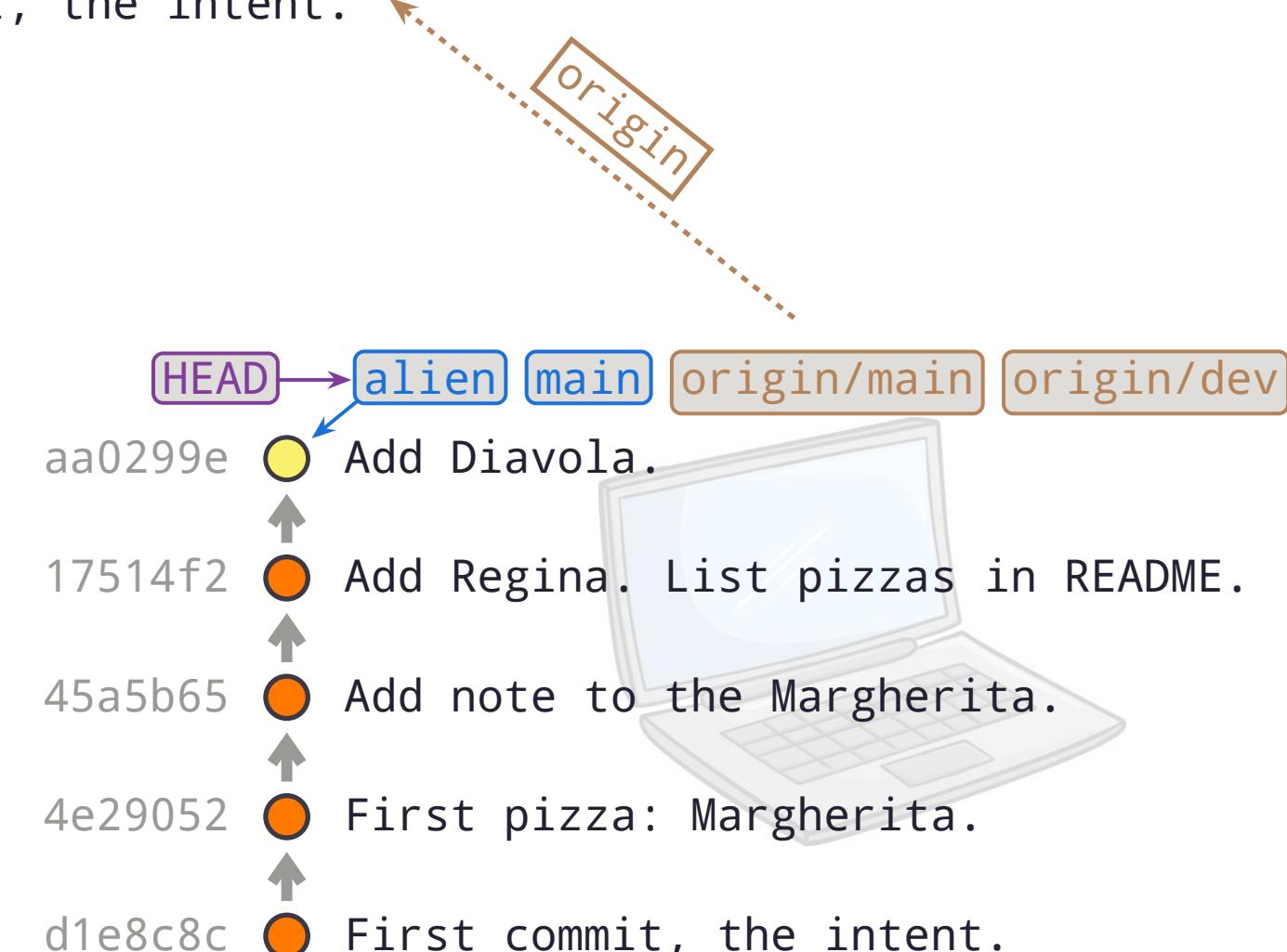
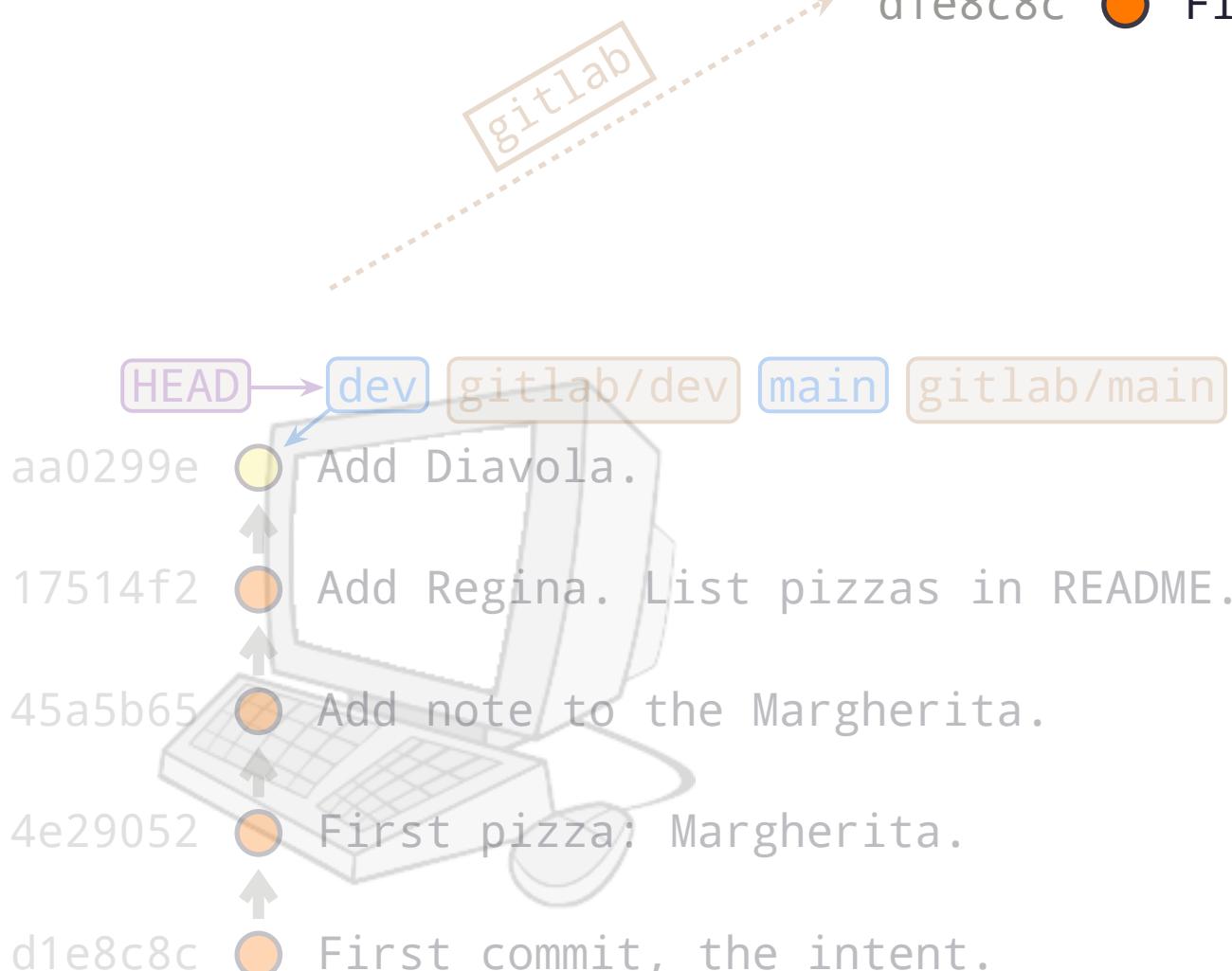
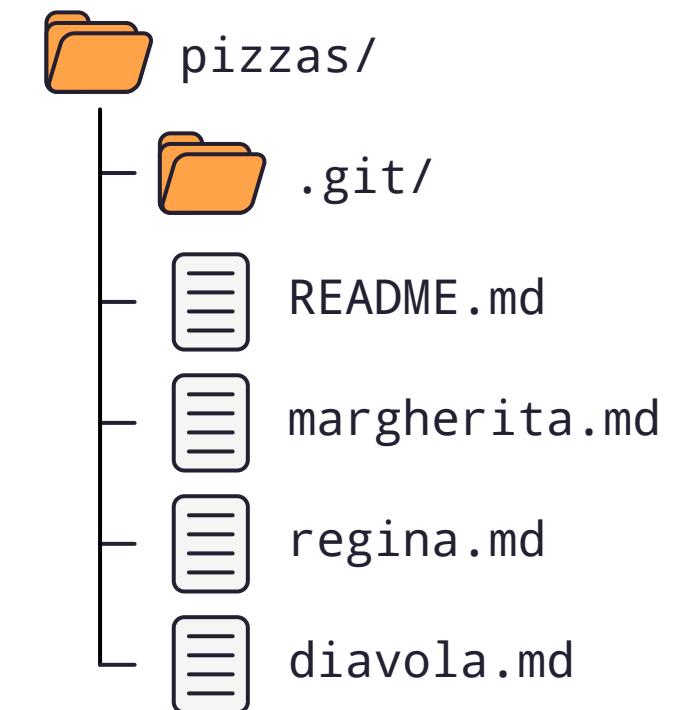


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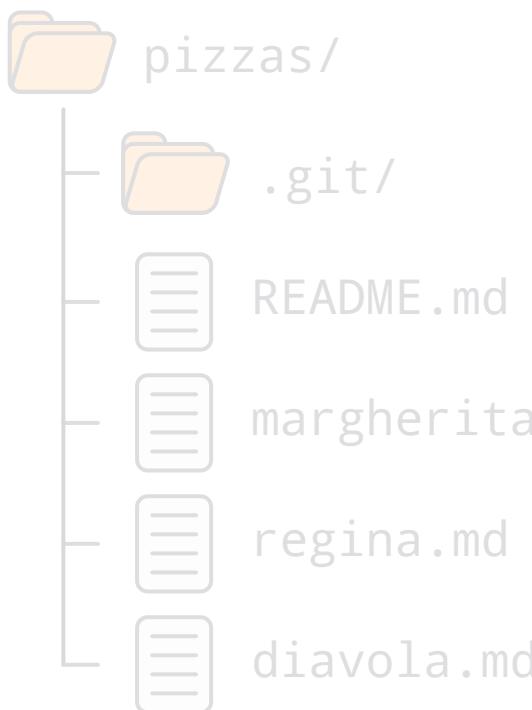


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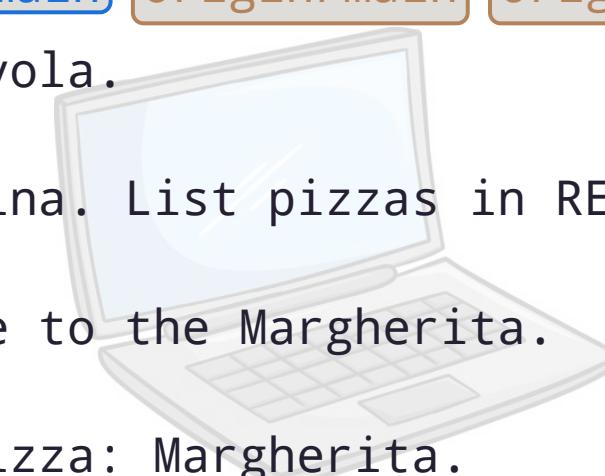
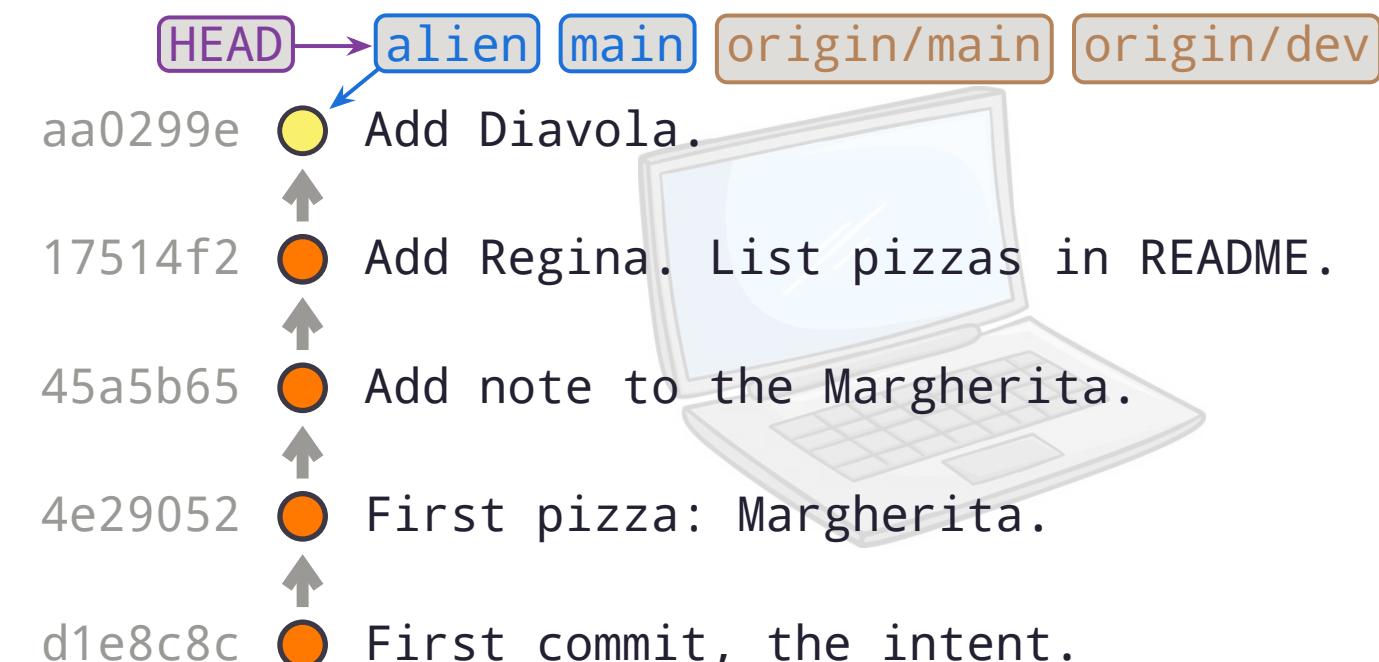
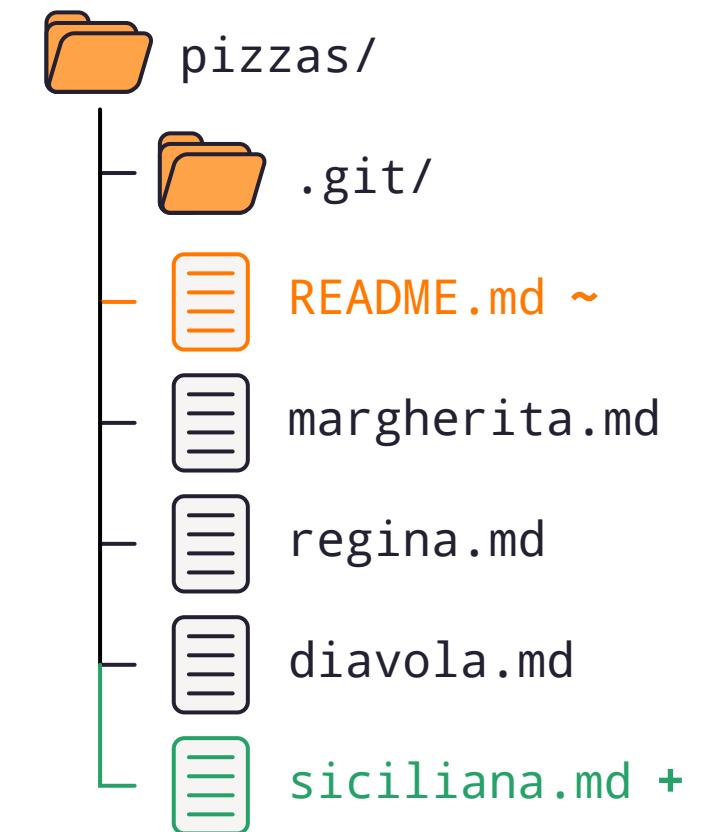


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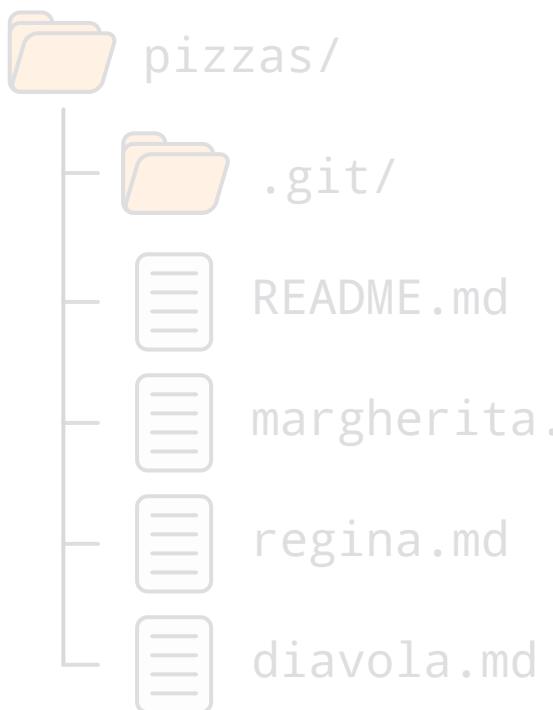


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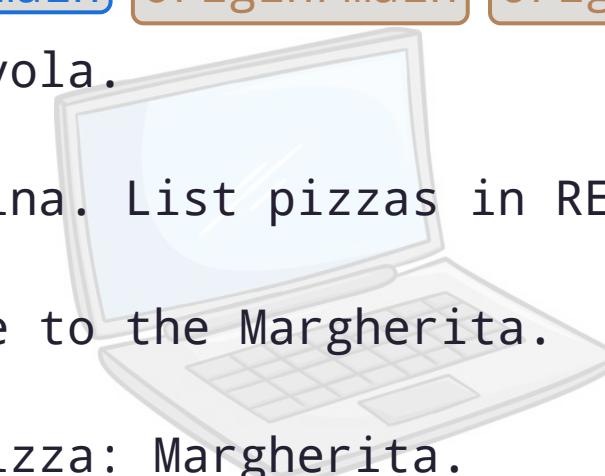
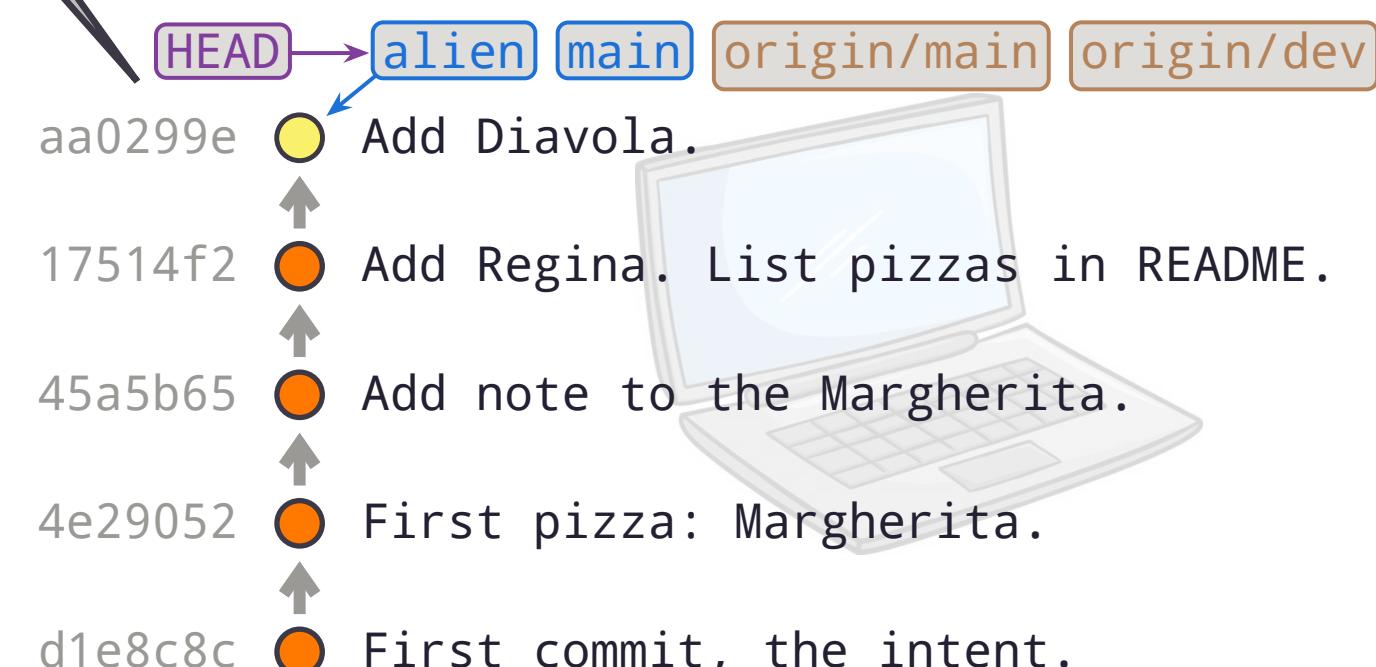
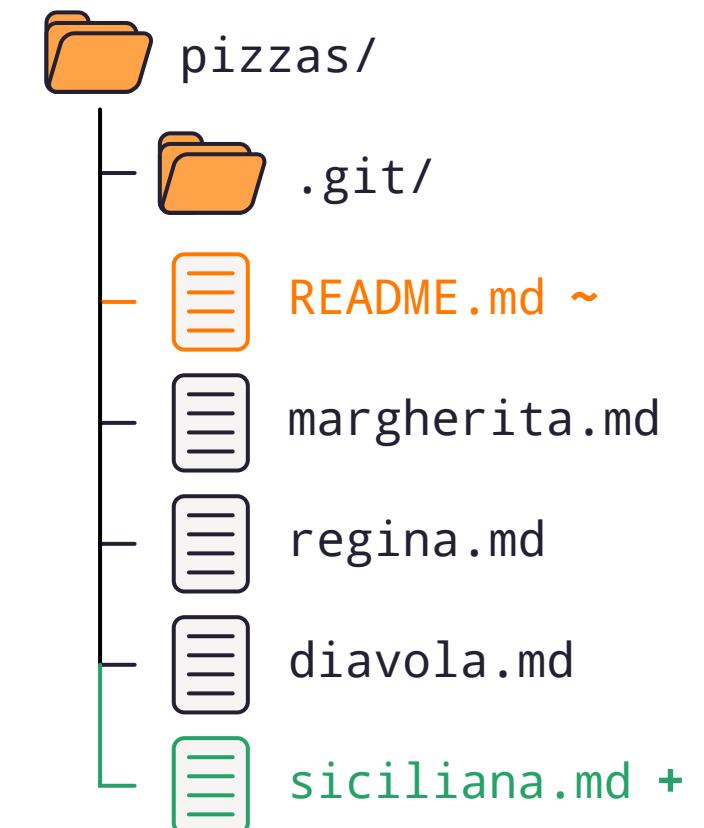
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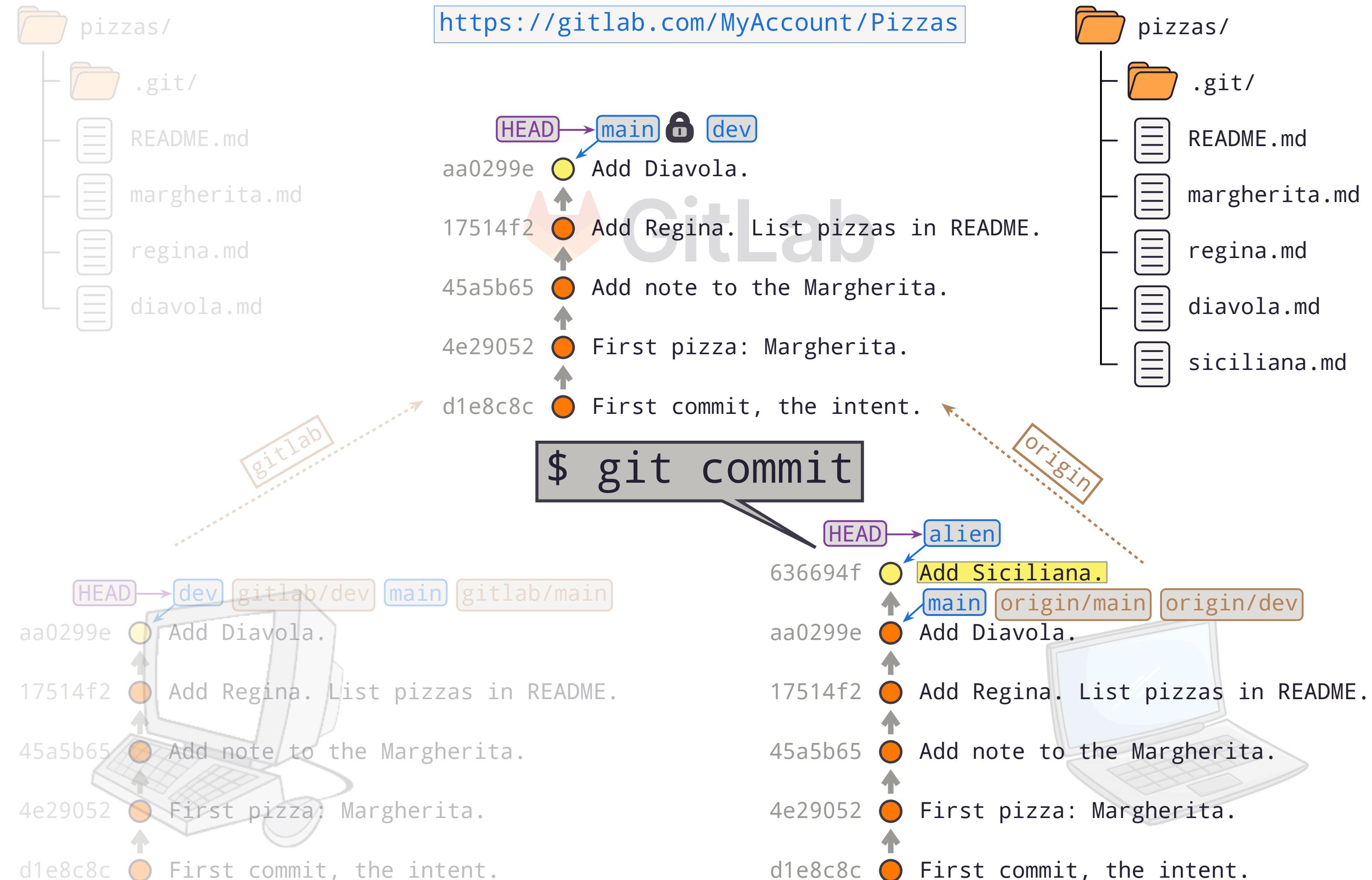


\$ git commit



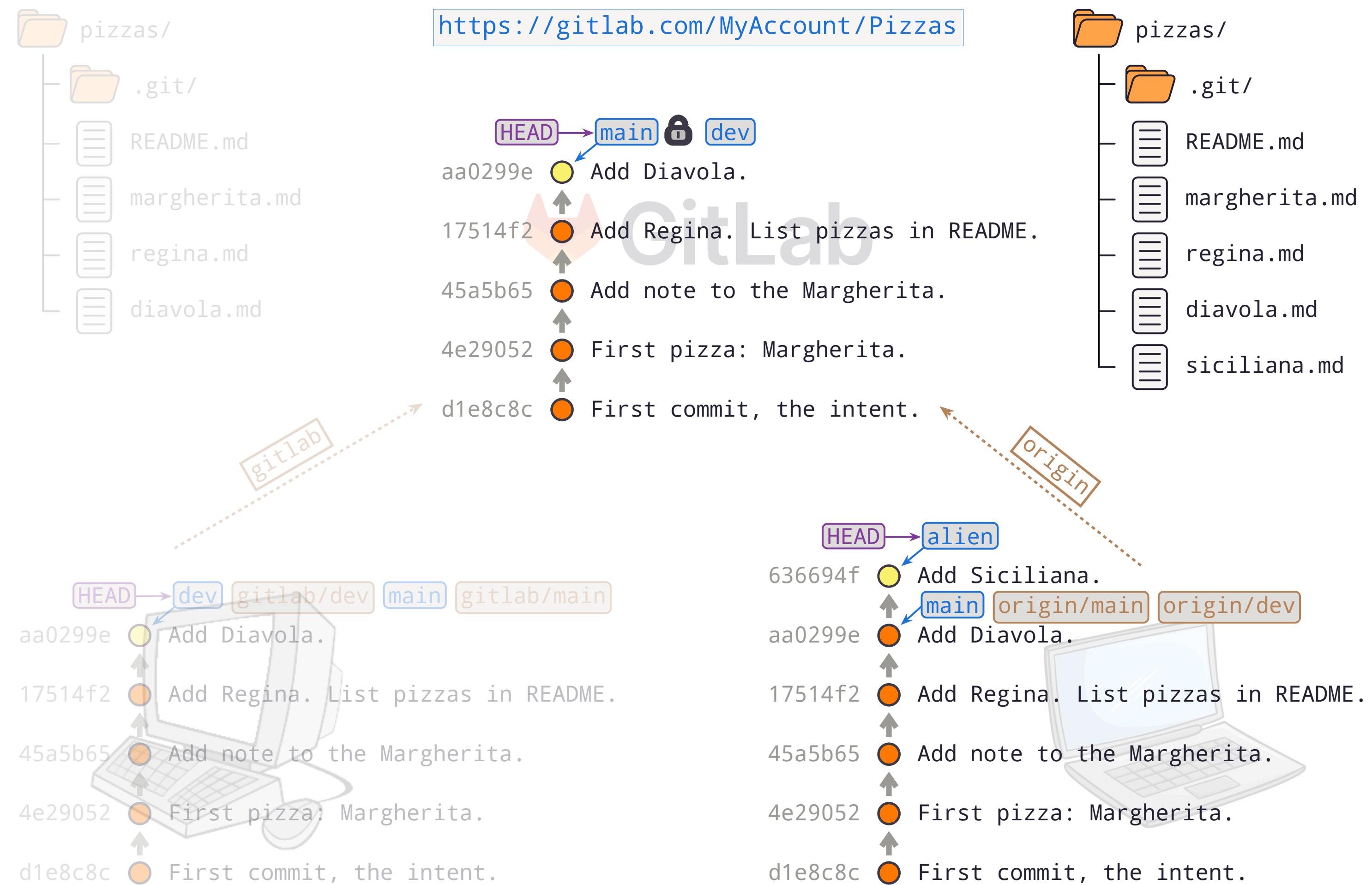
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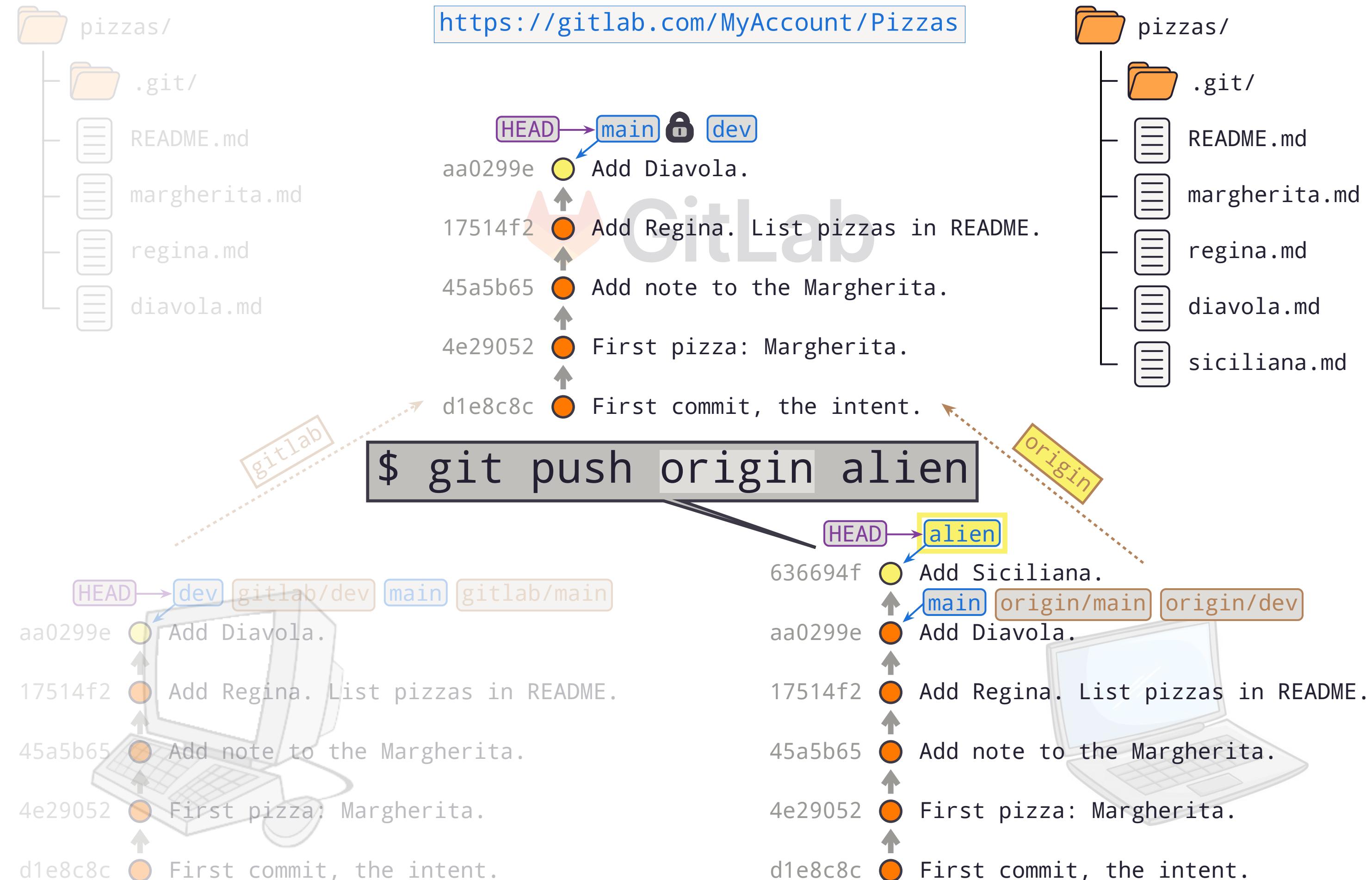
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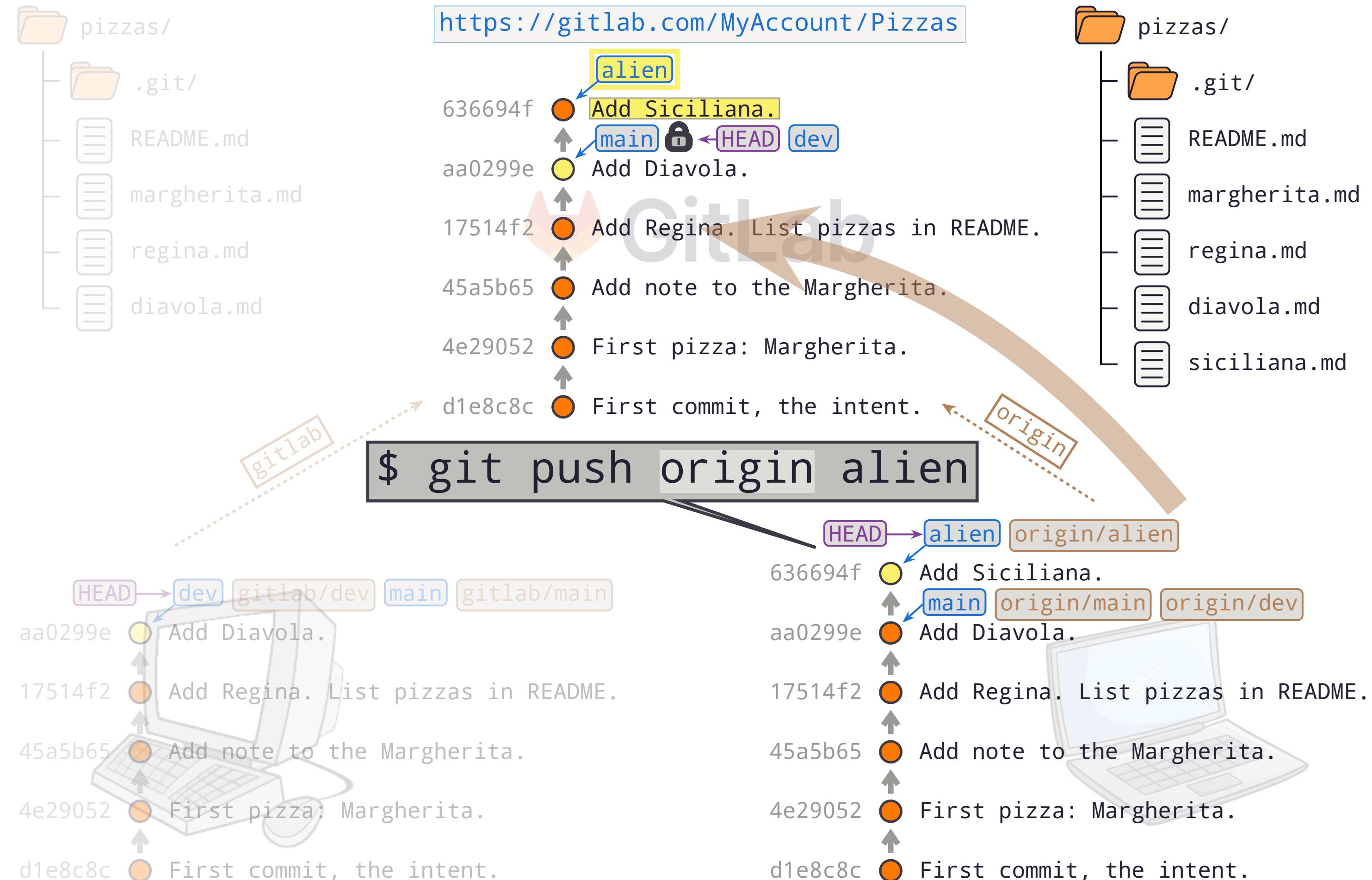
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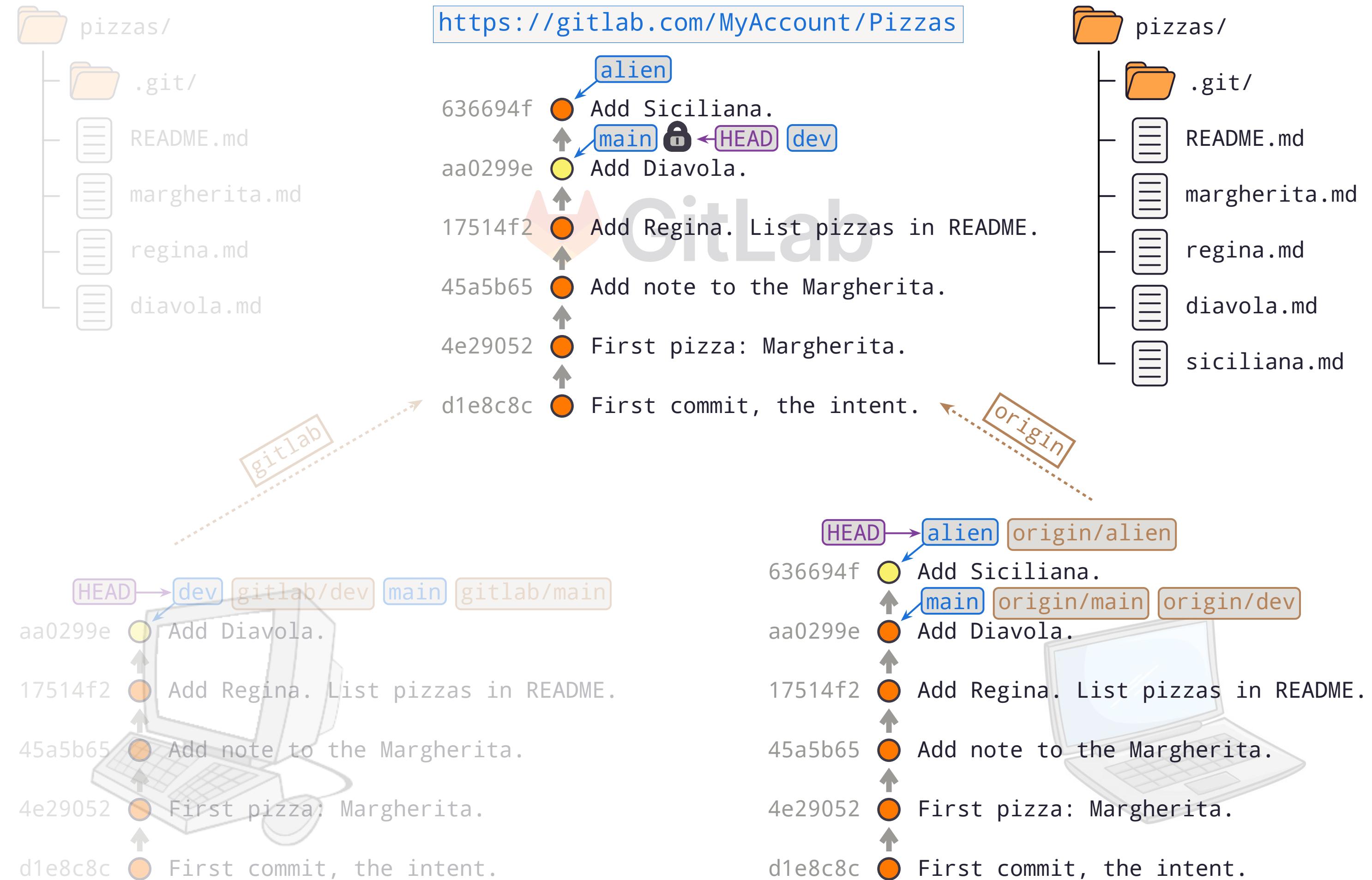
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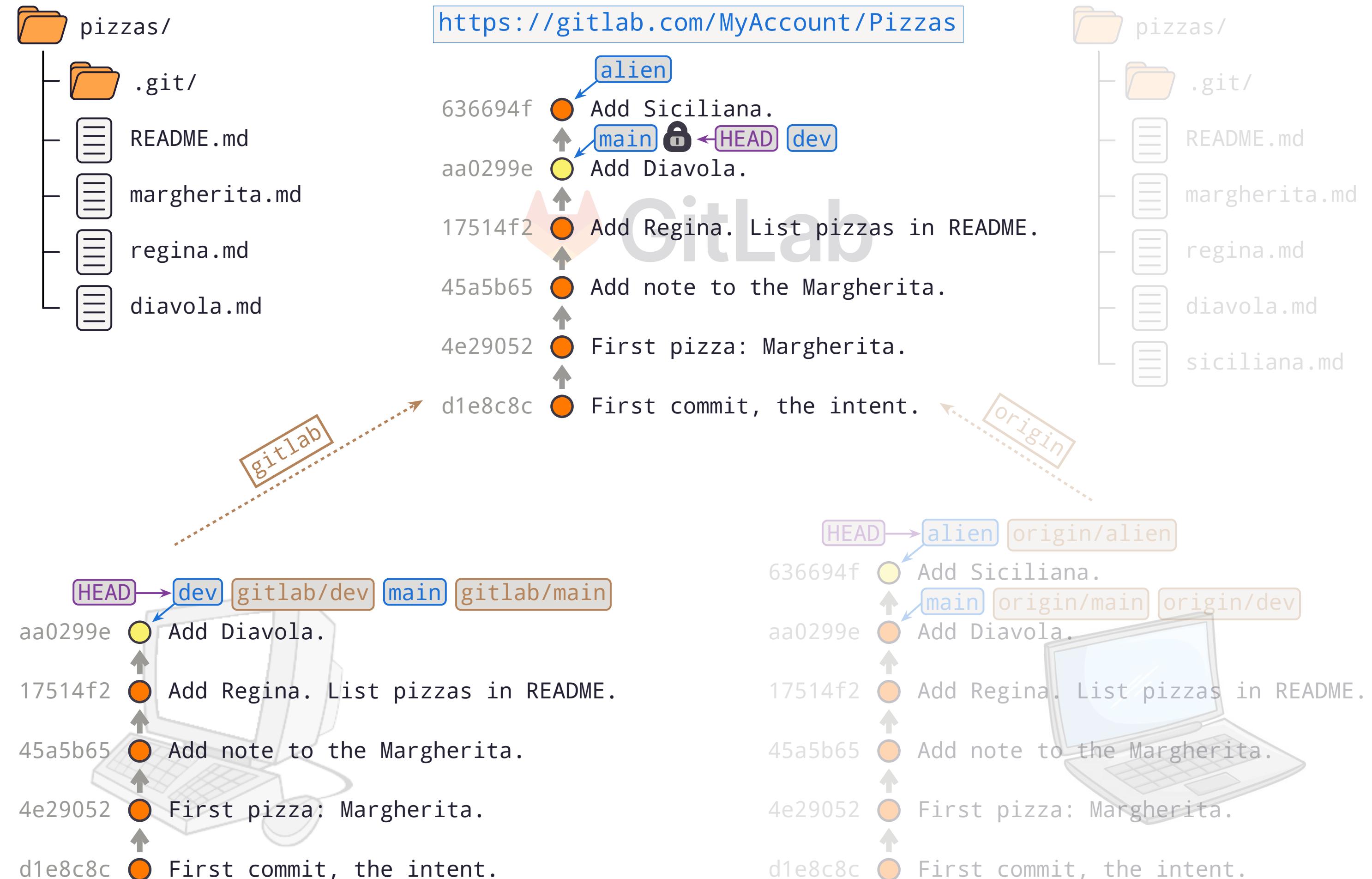
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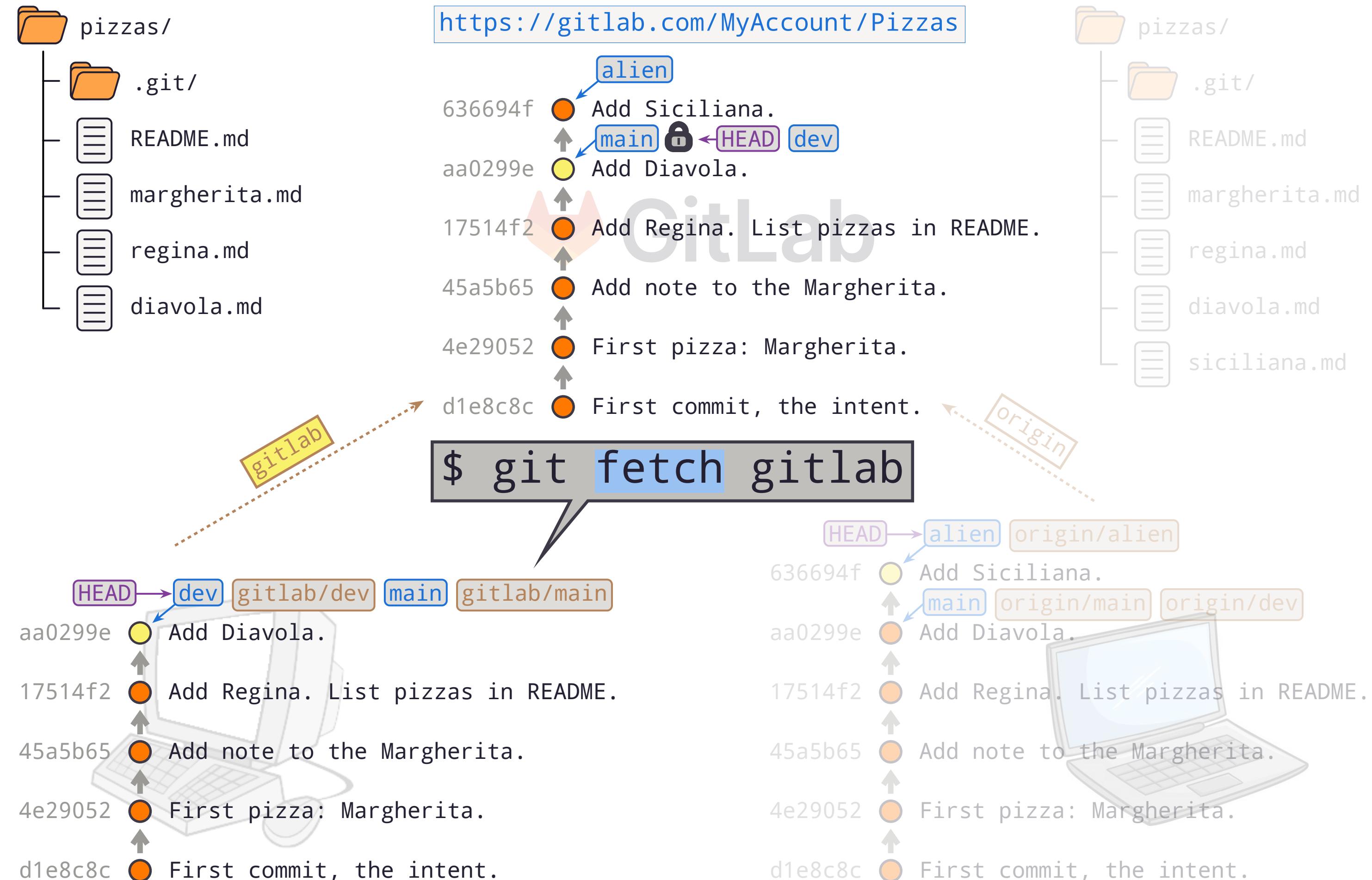
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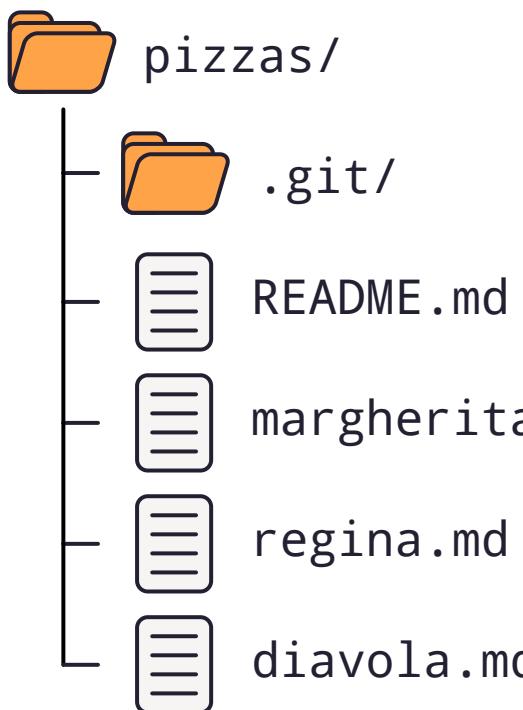
# Collaborate

You're Not Alone



# Collaborate

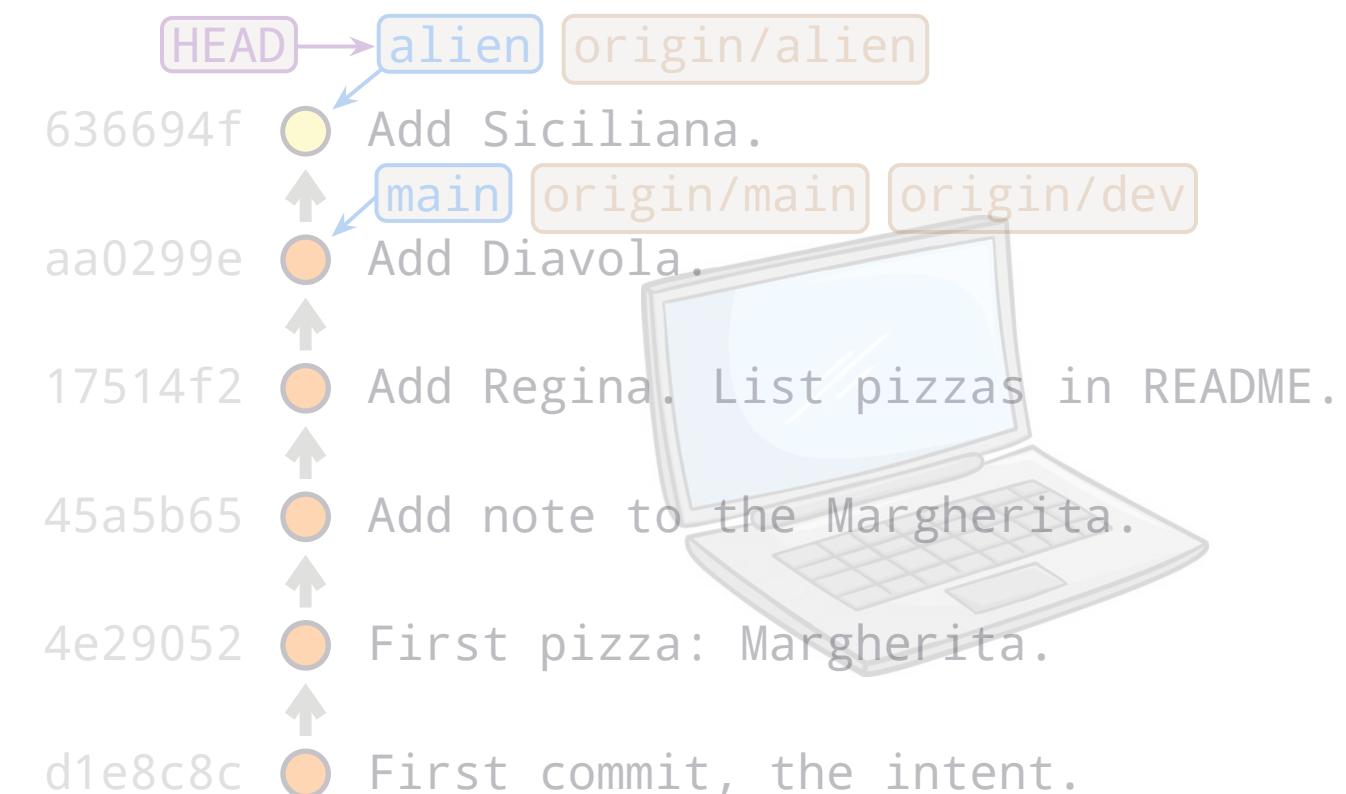
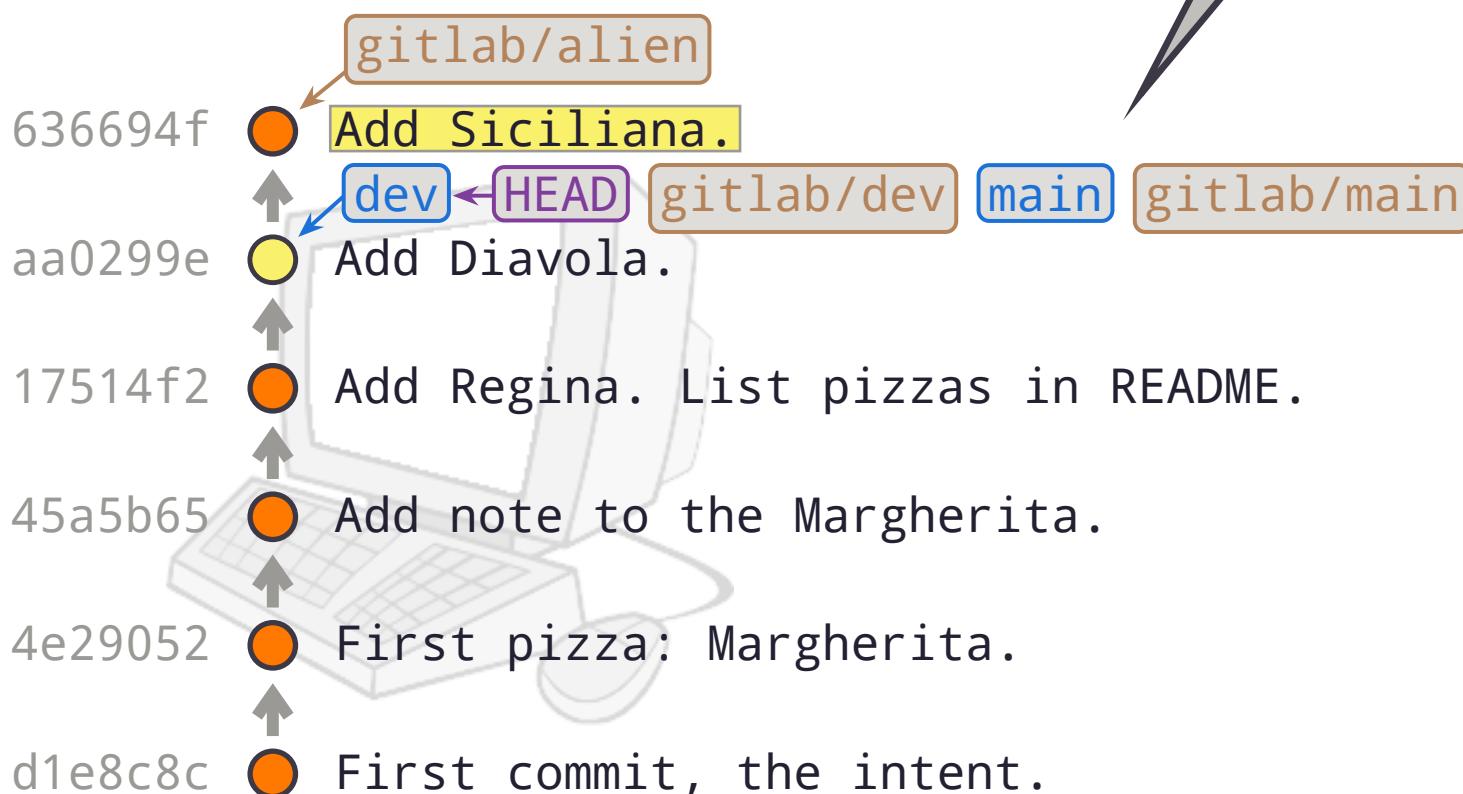
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<https://gitlab.com/MyAccount/Pizzas>

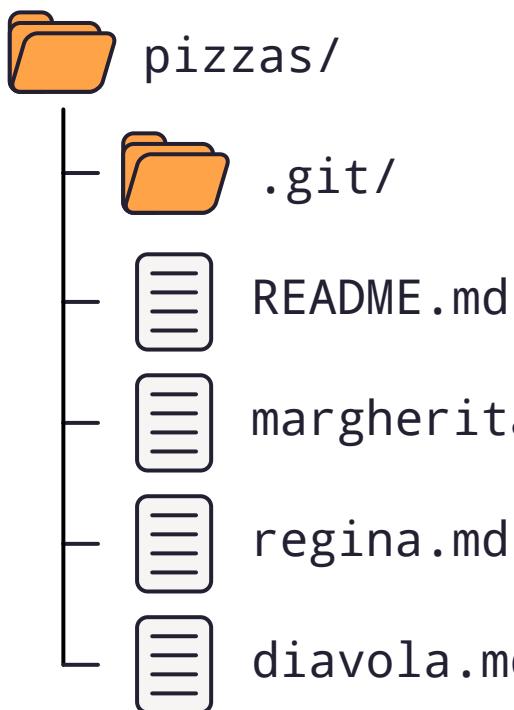


\$ git fetch gitlab

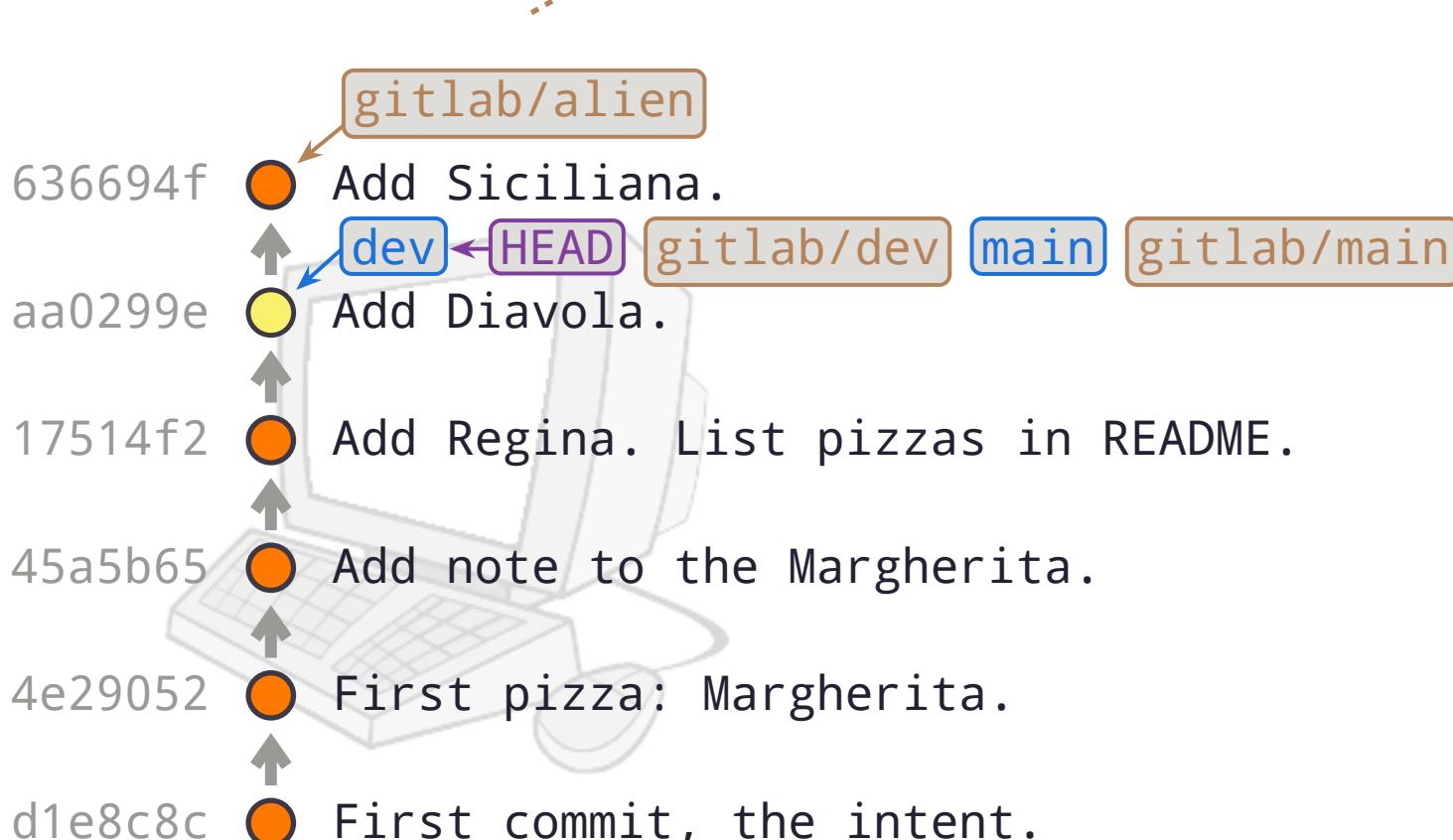


# Collaborate

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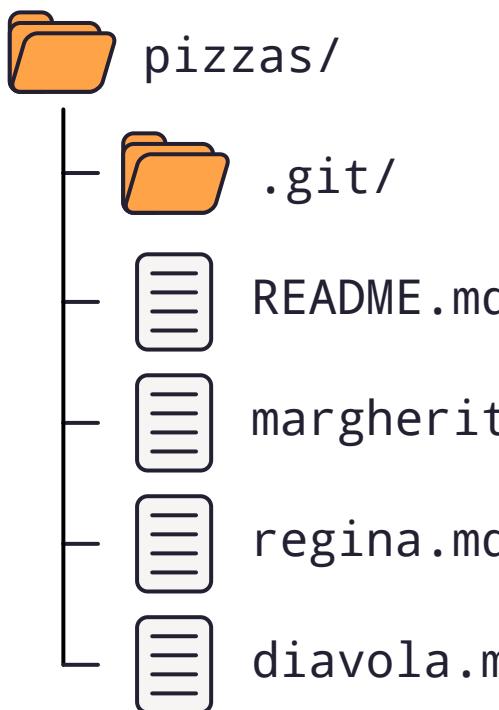


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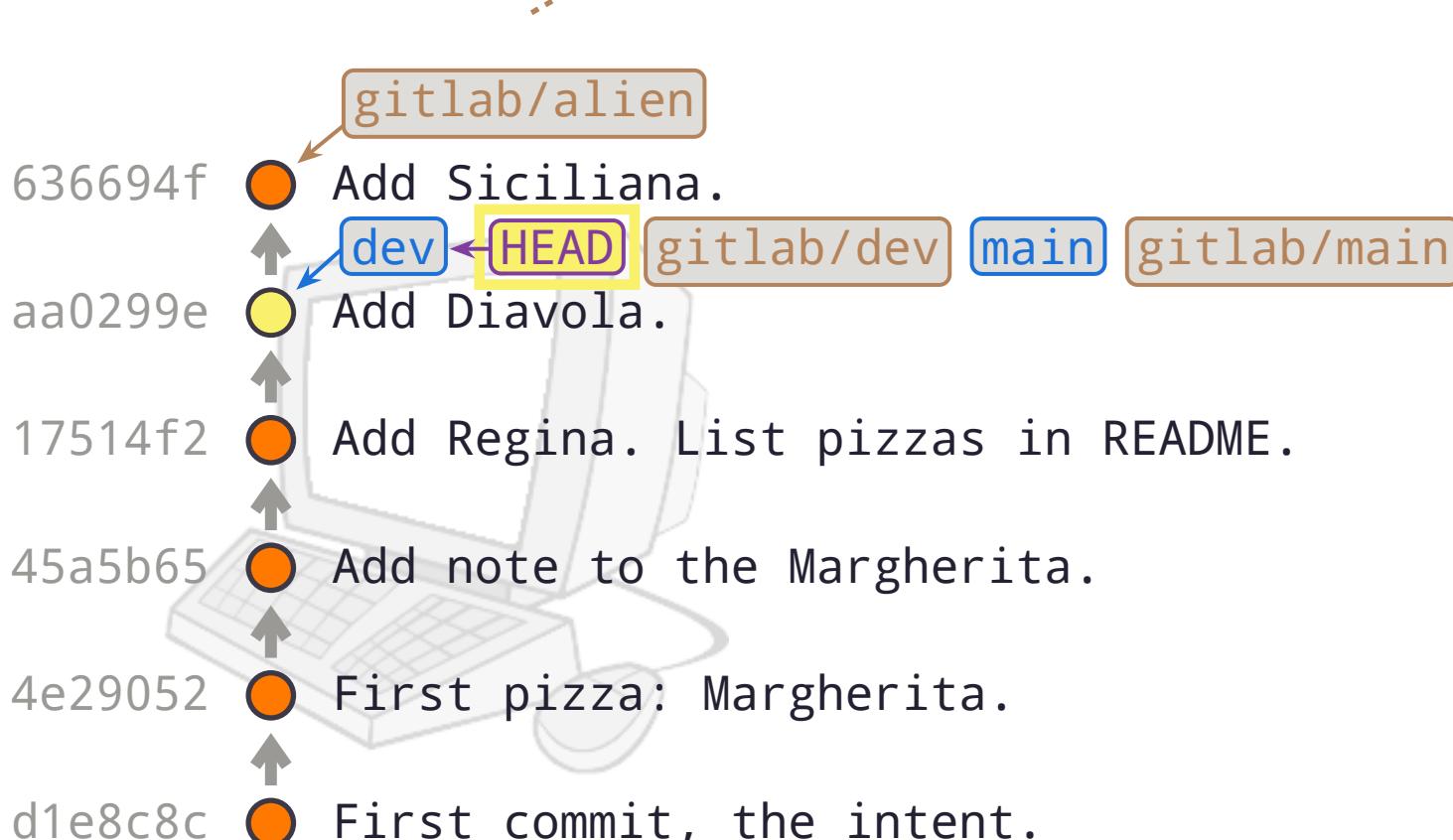
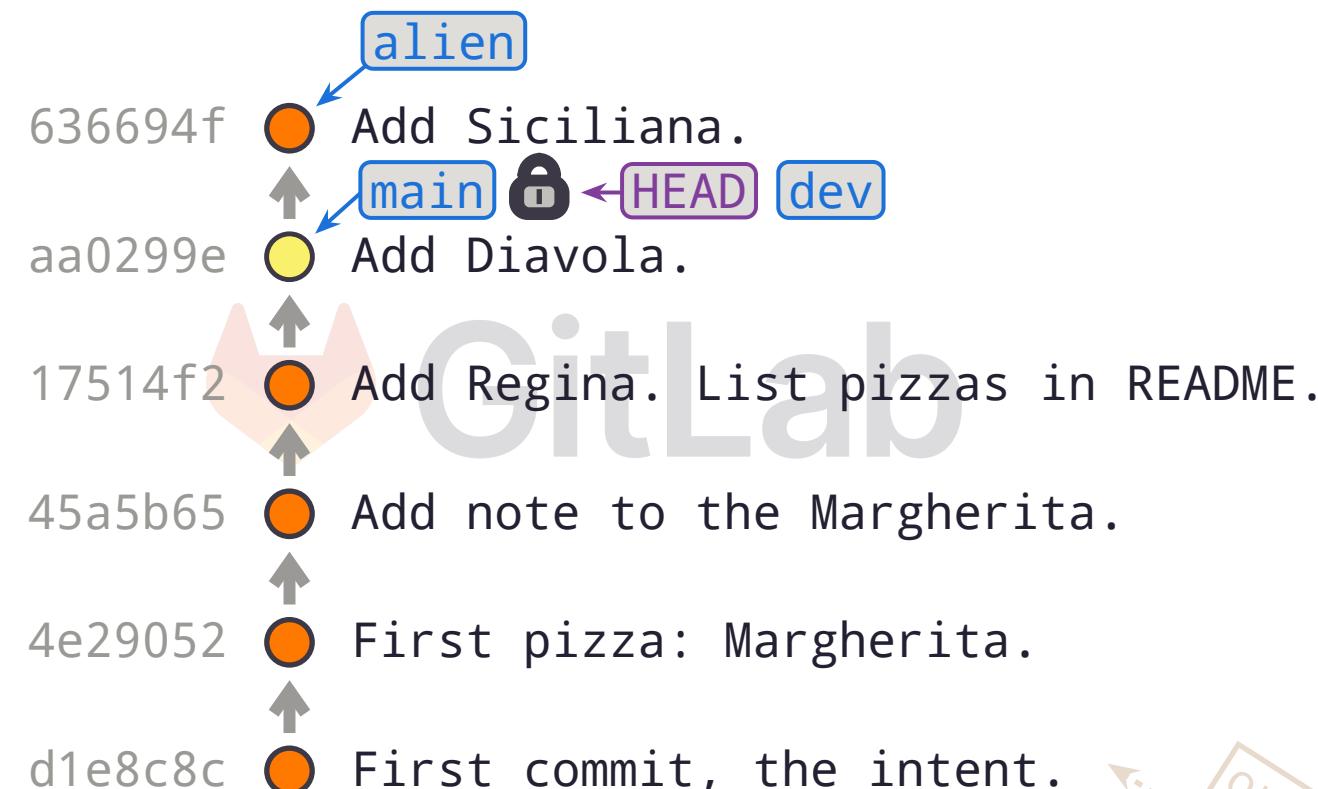


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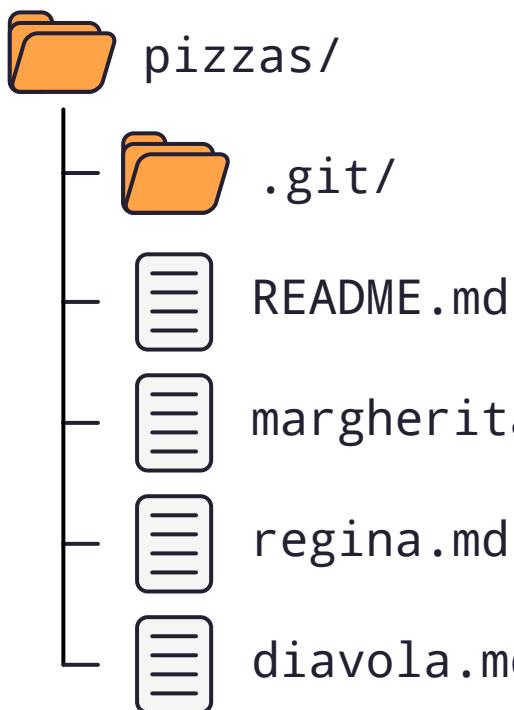


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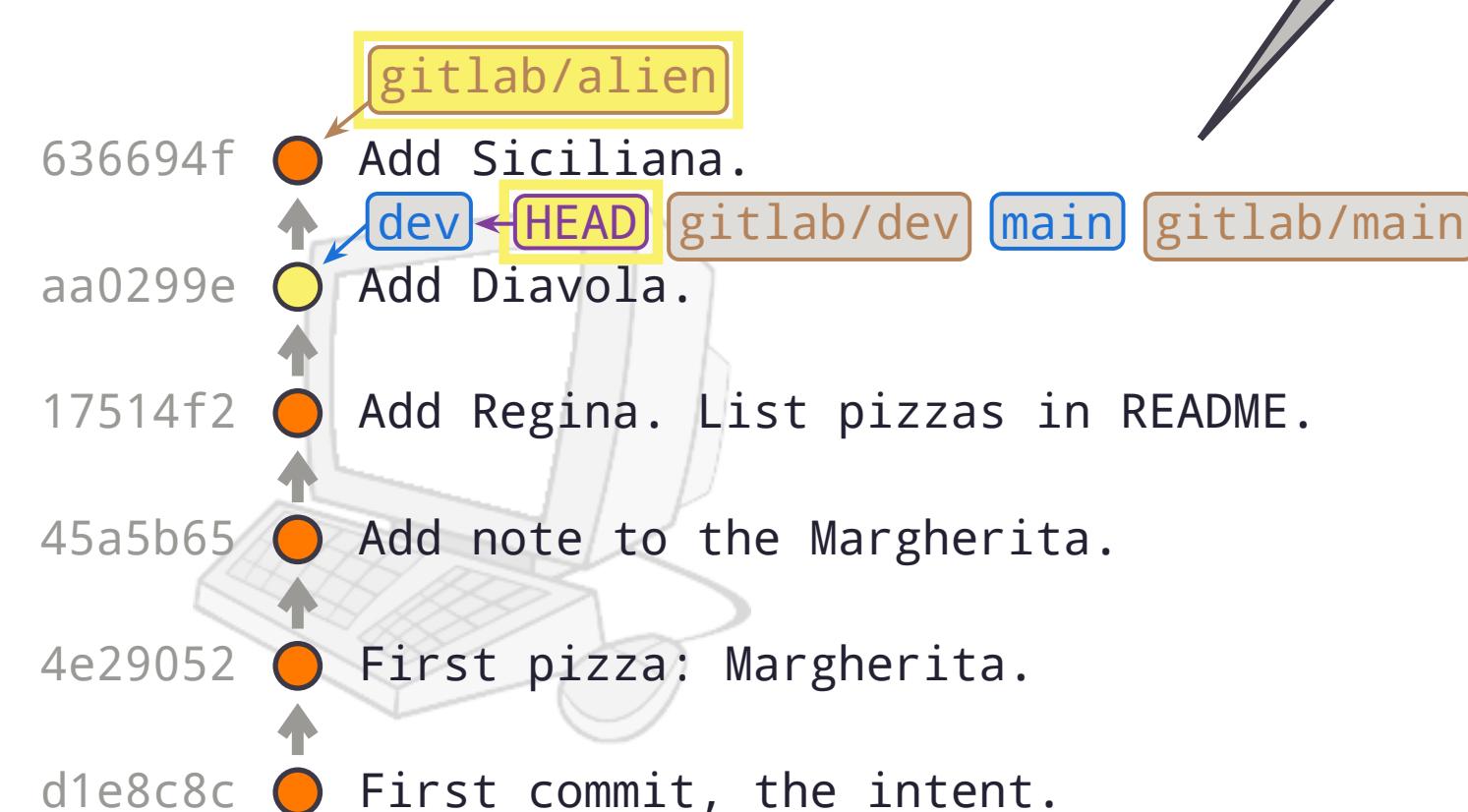
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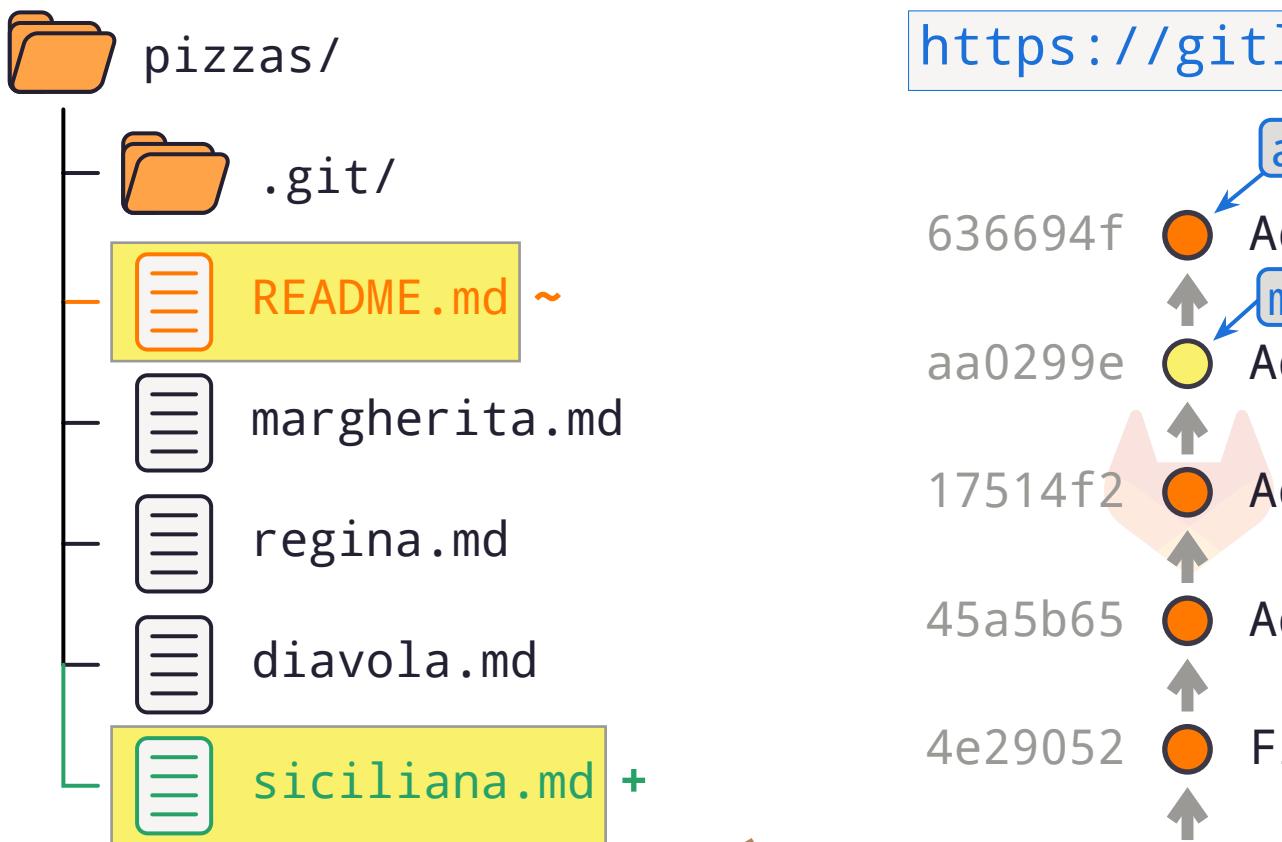


\$ git checkout gitlab/alien



# Collaborate

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<https://gitlab.com/MyAccount/Pizzas>

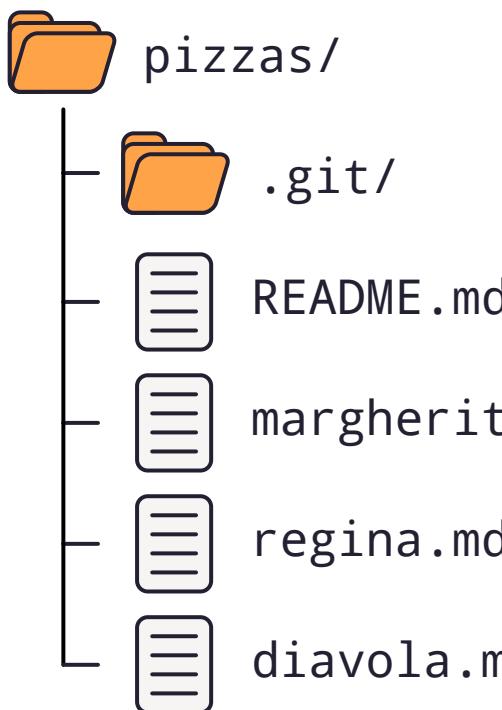


\$ git checkout gitlab/alien



# Collaborate

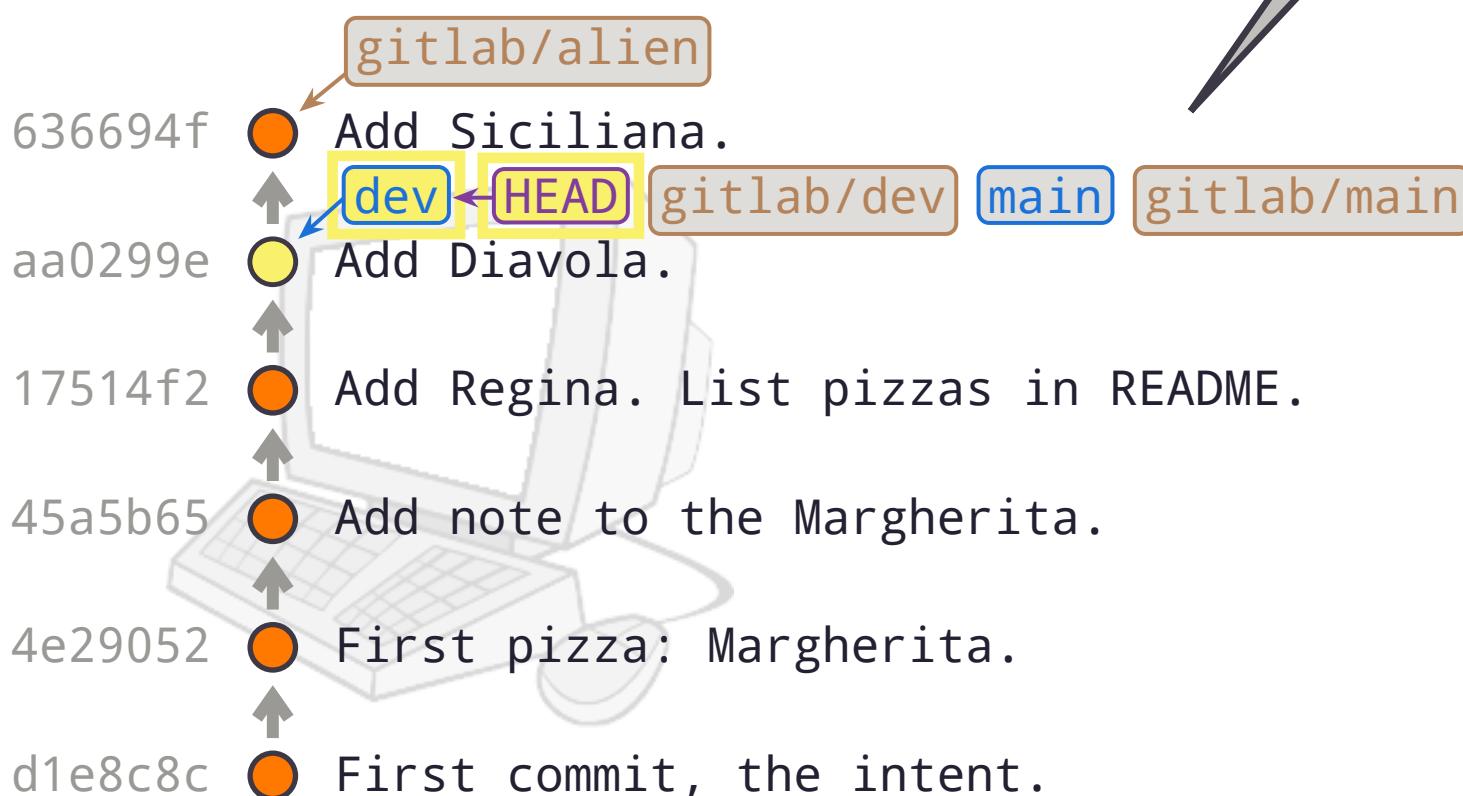
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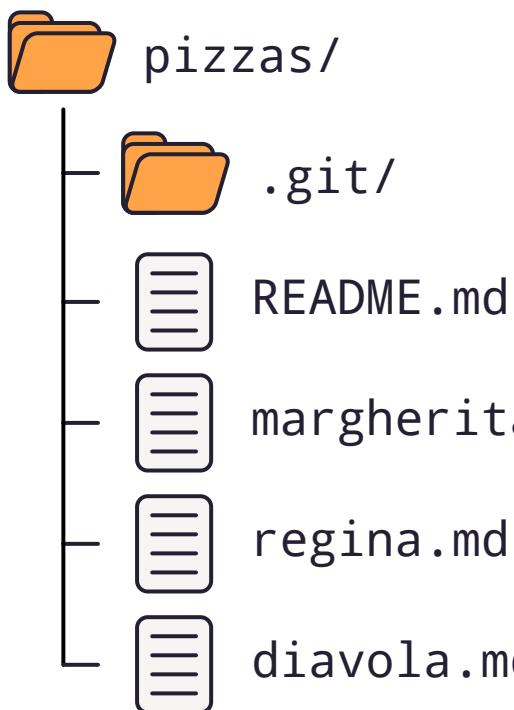


\$ git checkout dev

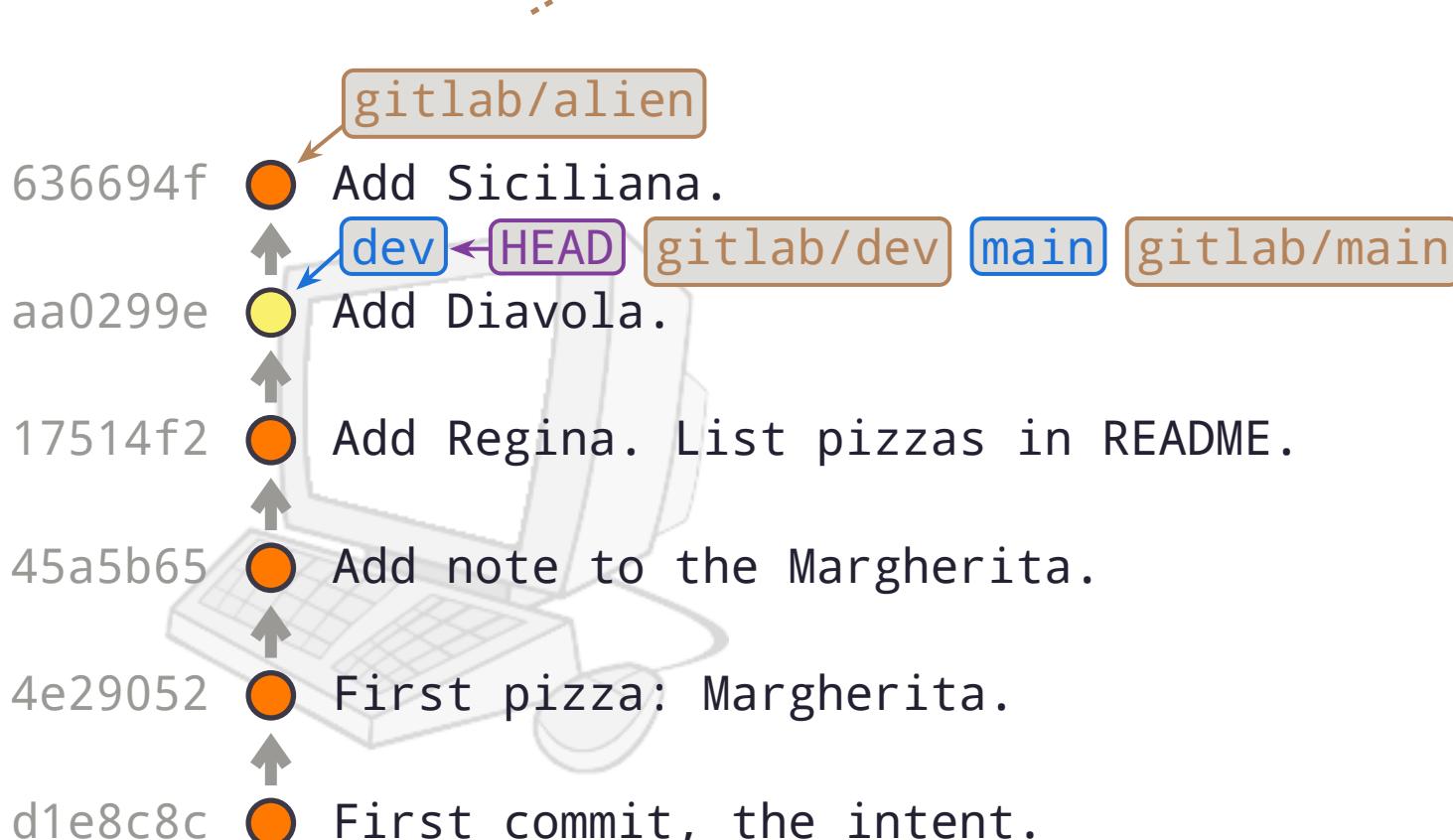


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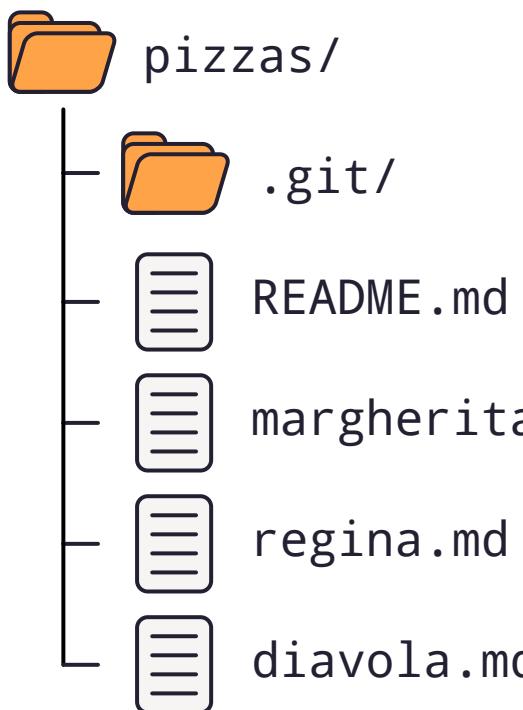


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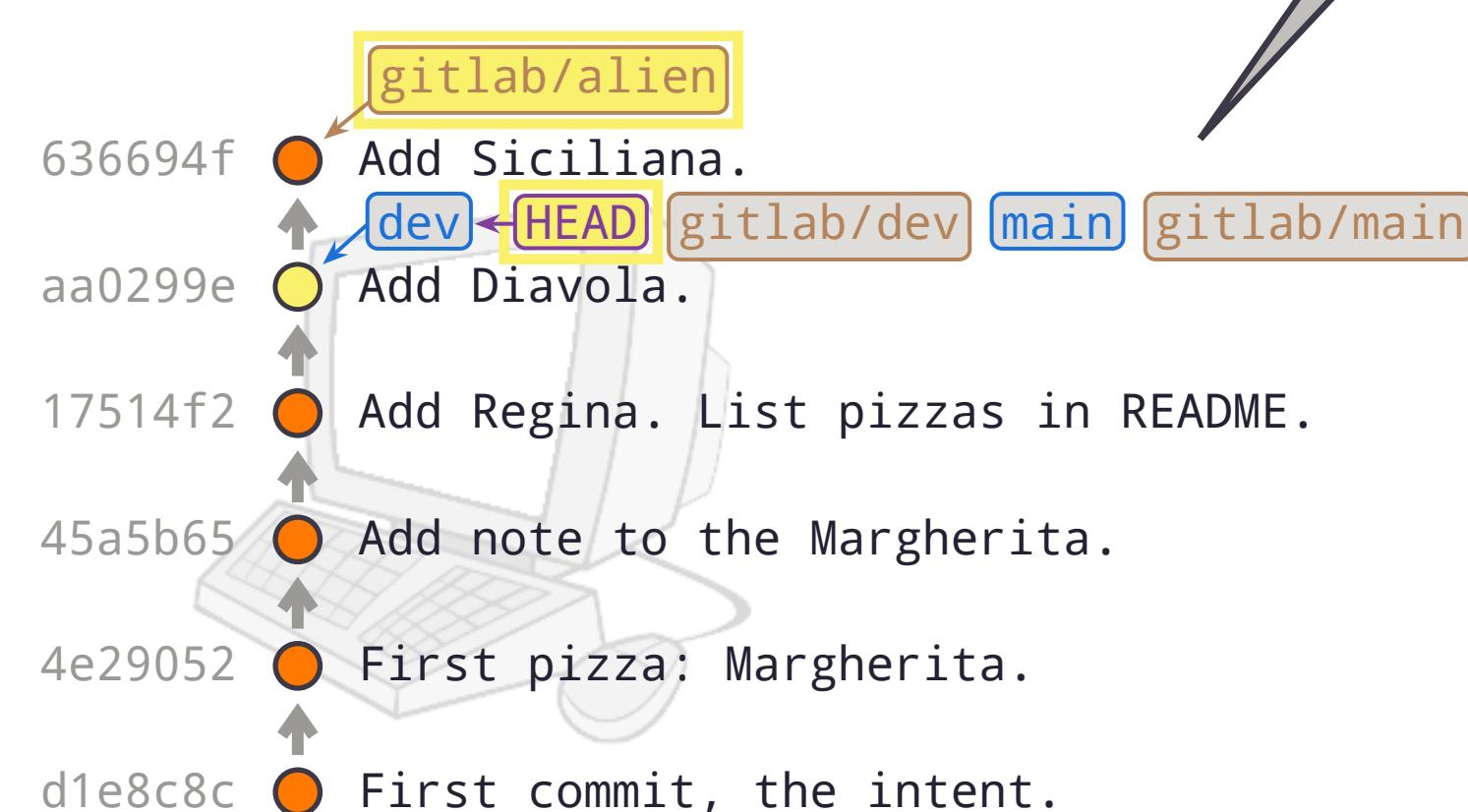
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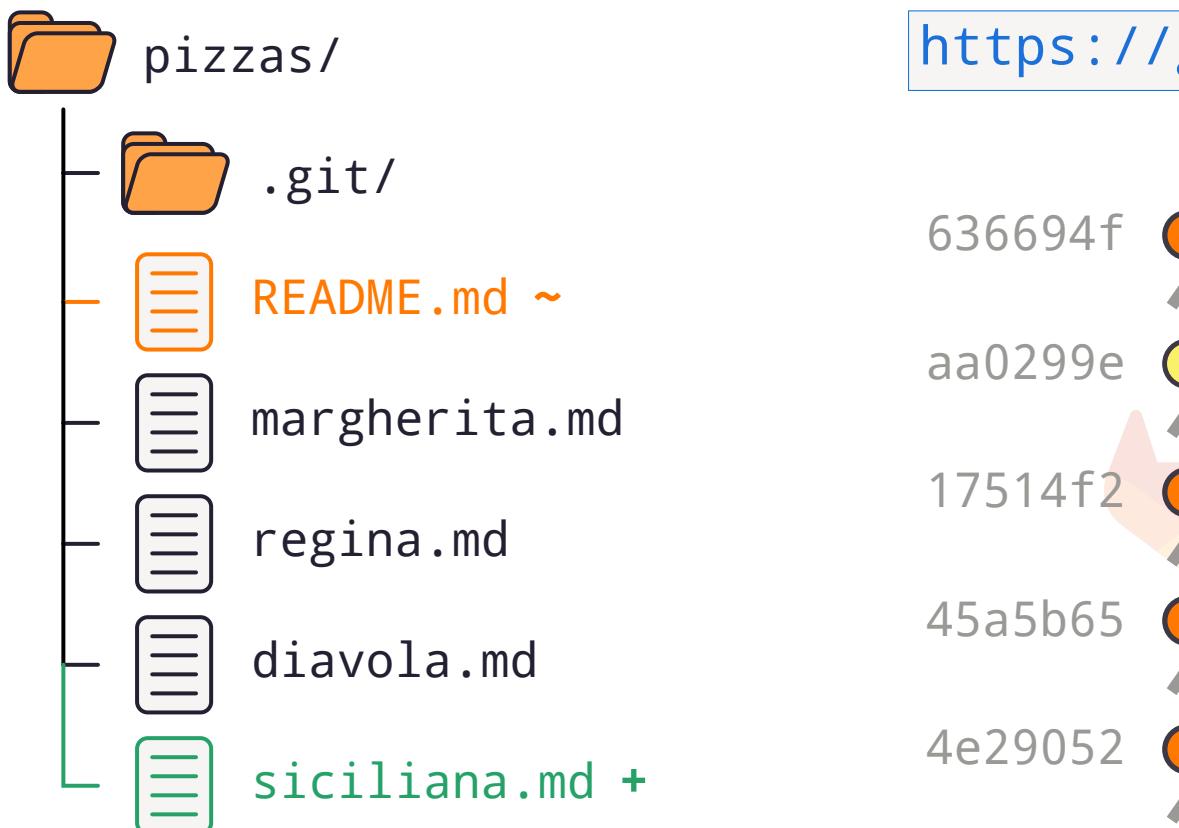


\$ git merge gitlab/alien

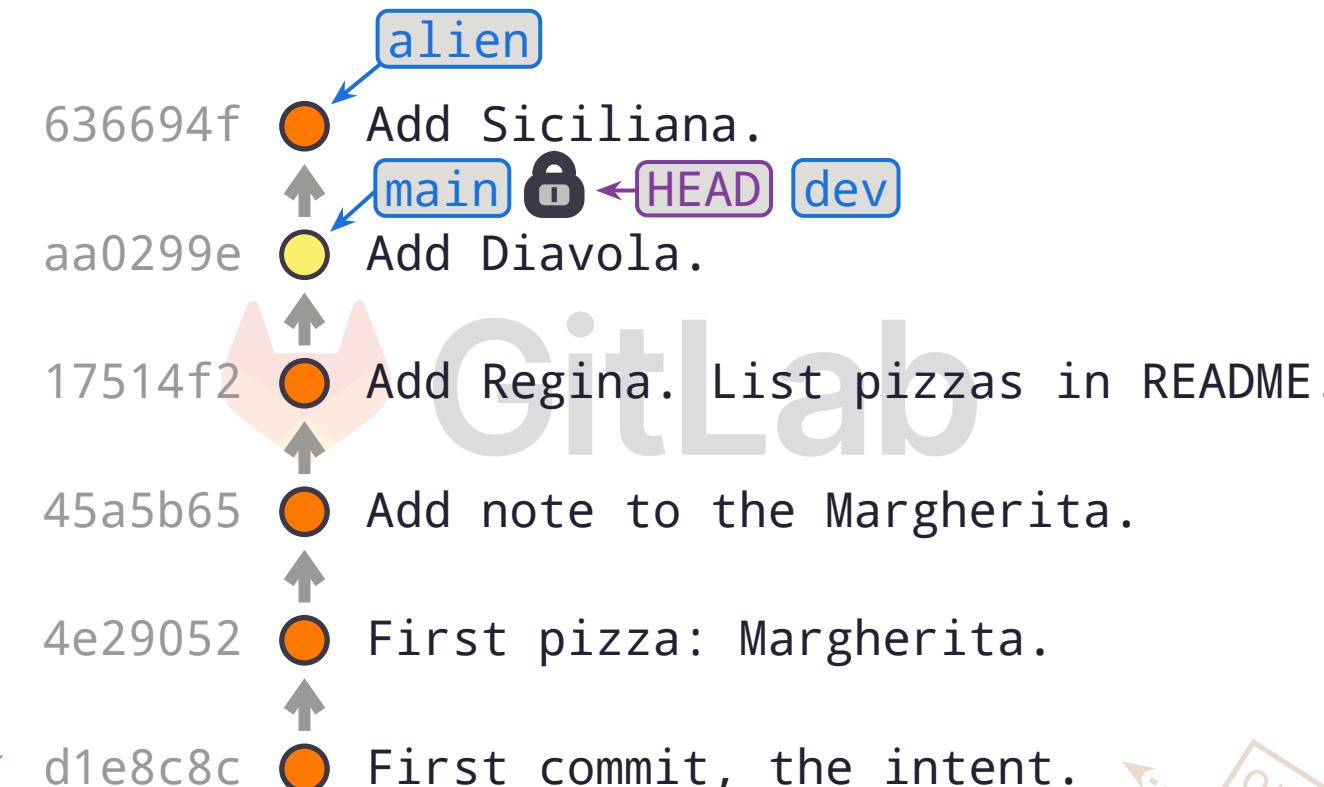


# Collaborate

You're Not Alone



<https://gitlab.com/MyAccount/Pizzas>



\$ git merge gitlab/alien



# Collaborate

You're Not Alone

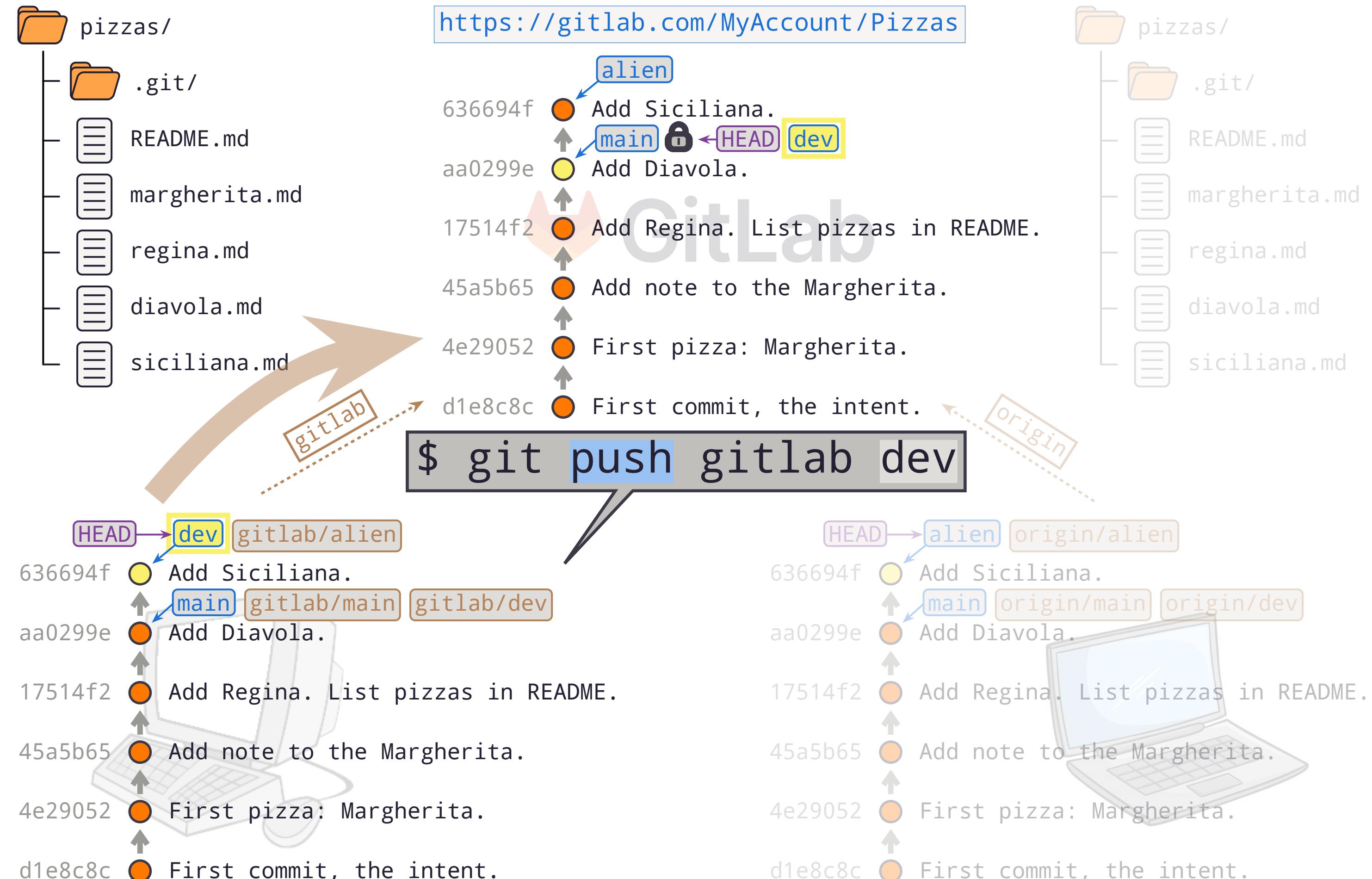


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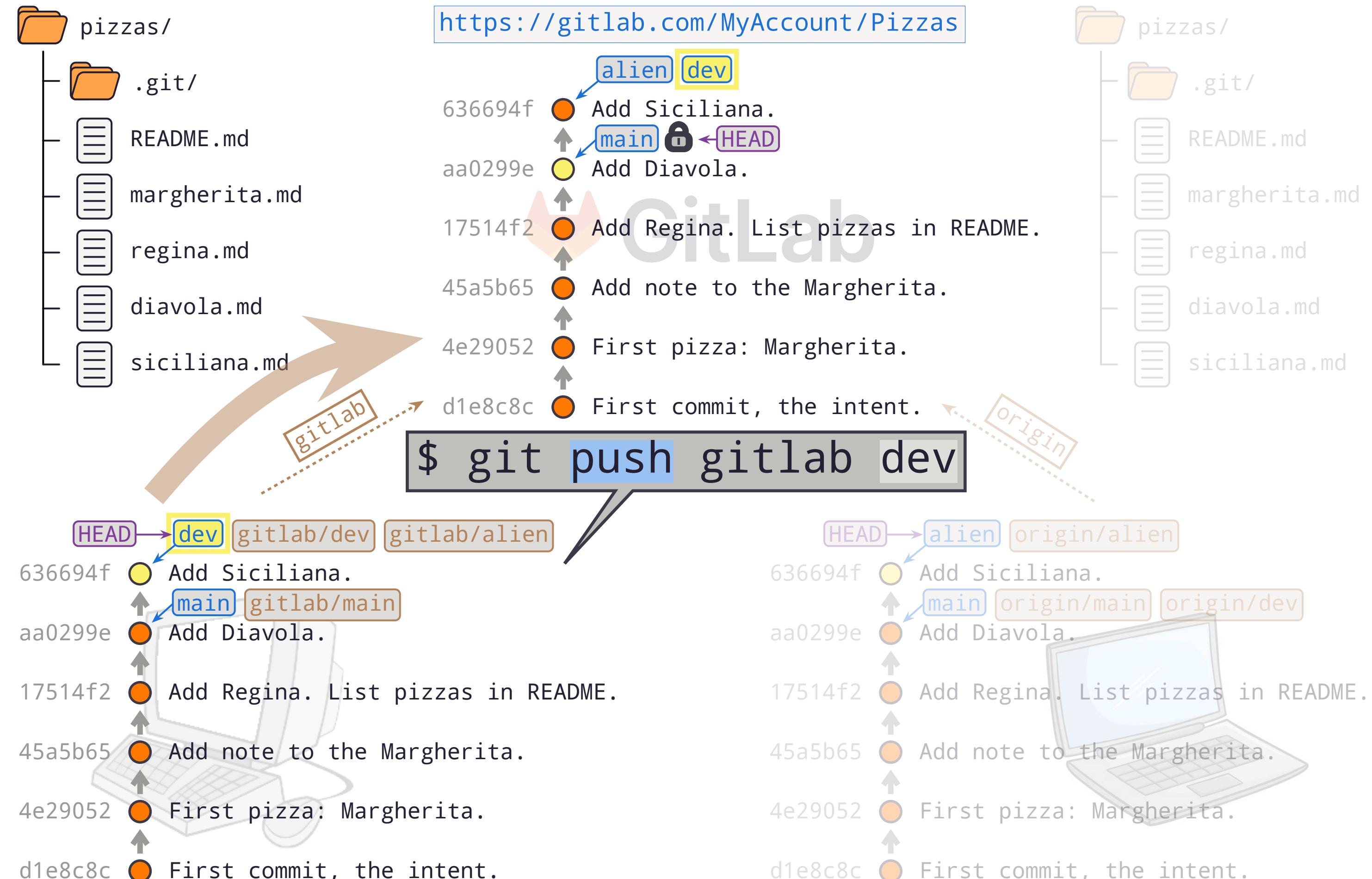
# Collaborate

You're Not Alone



# Collaborate

You're Not Alone



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You're Not Alone



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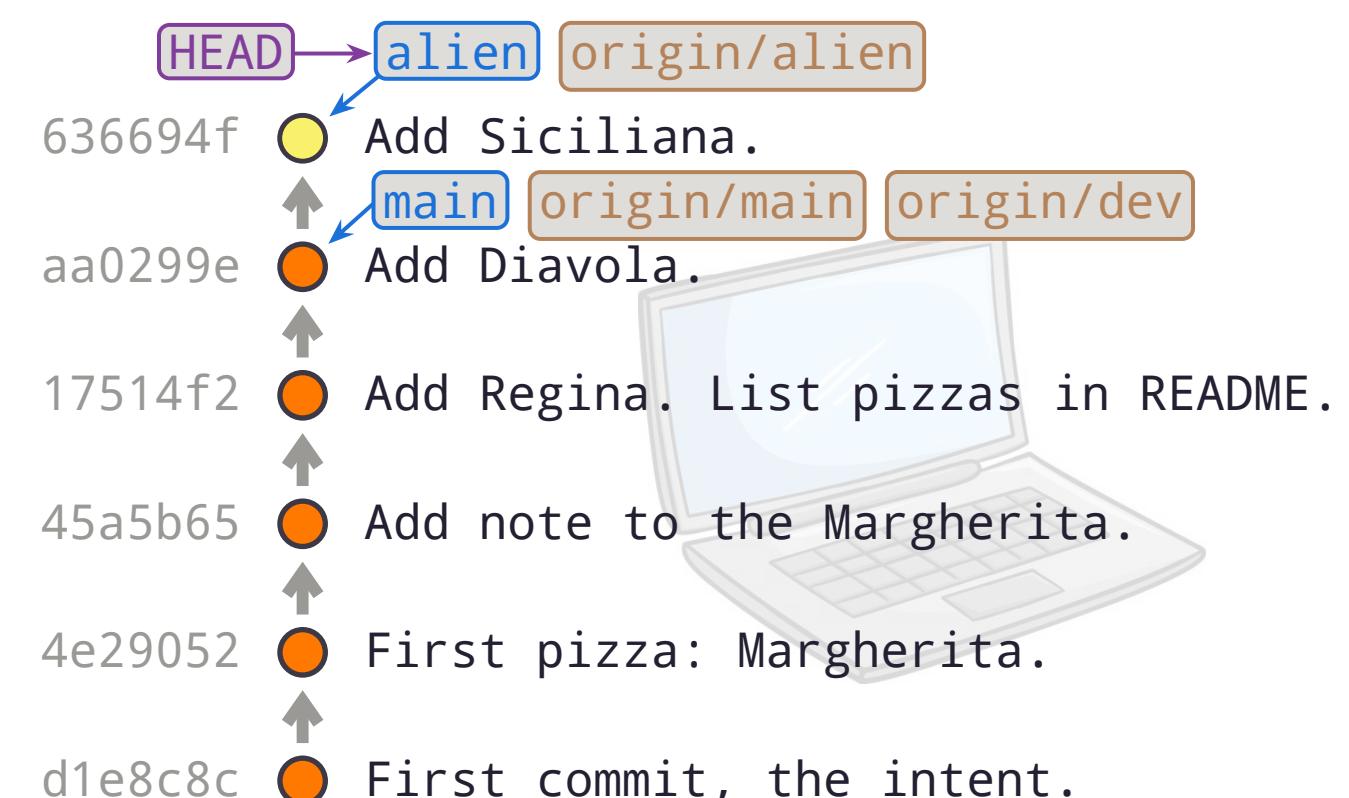
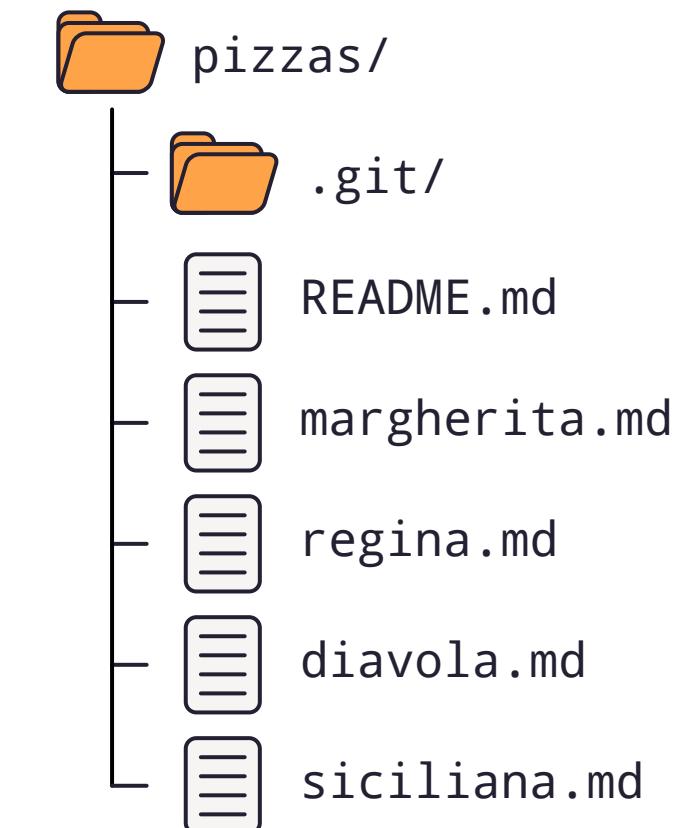
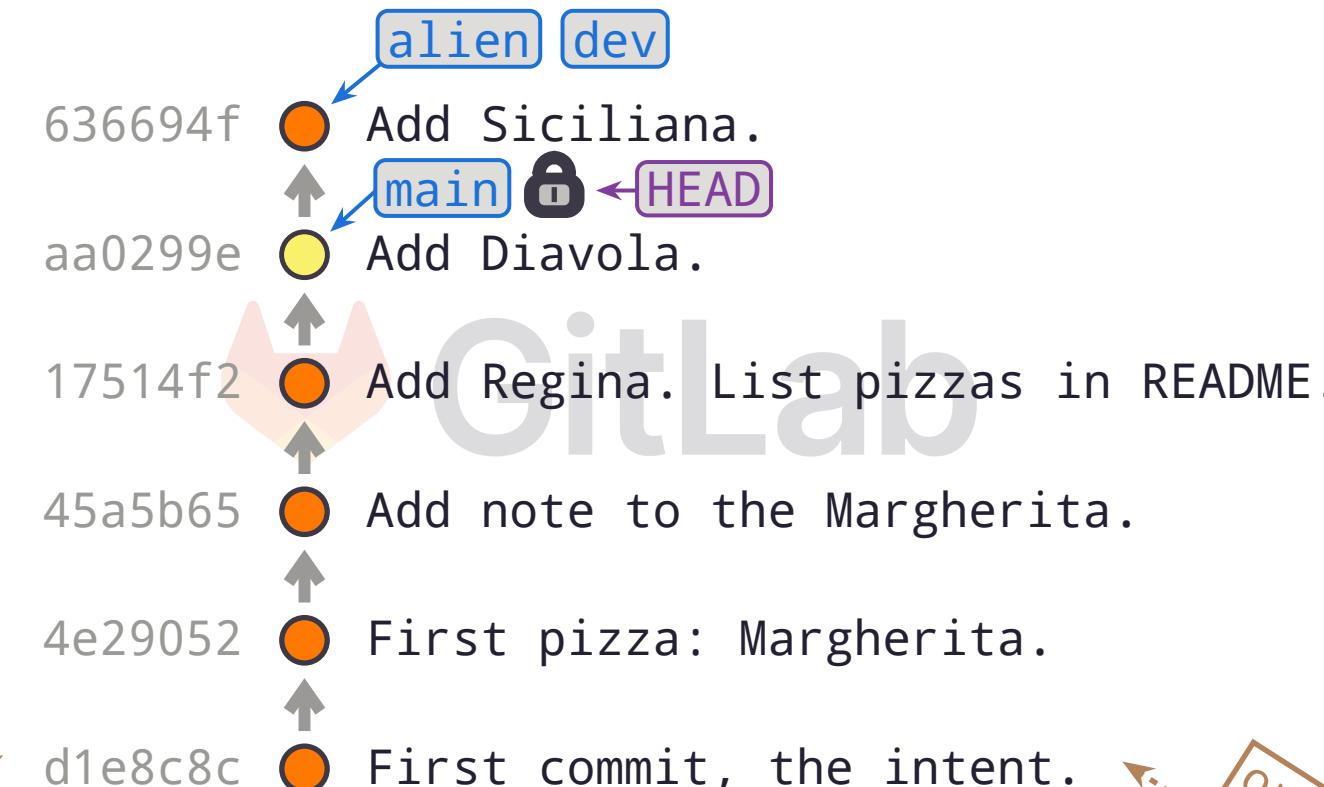


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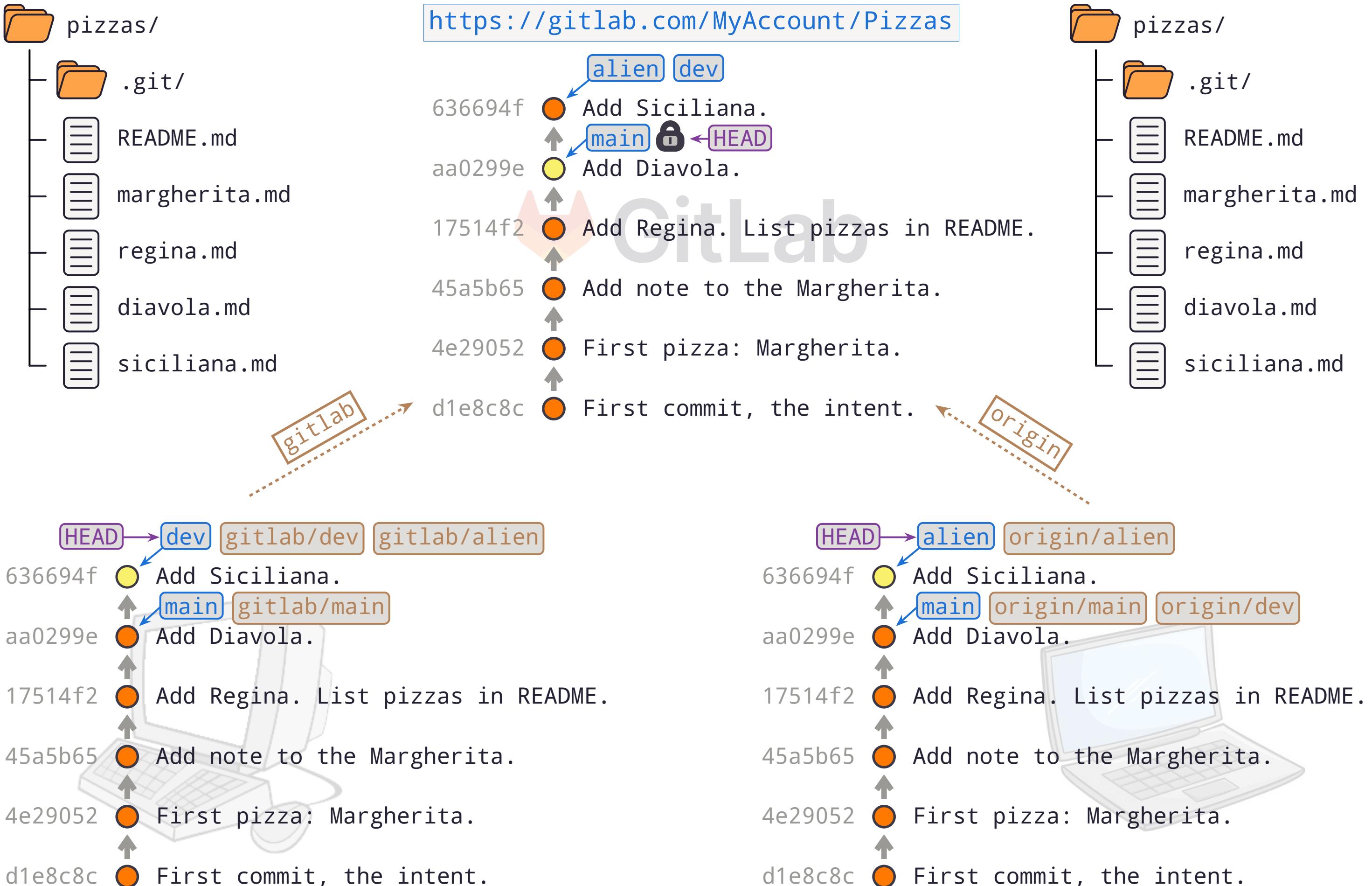


# Collaboration Divergence

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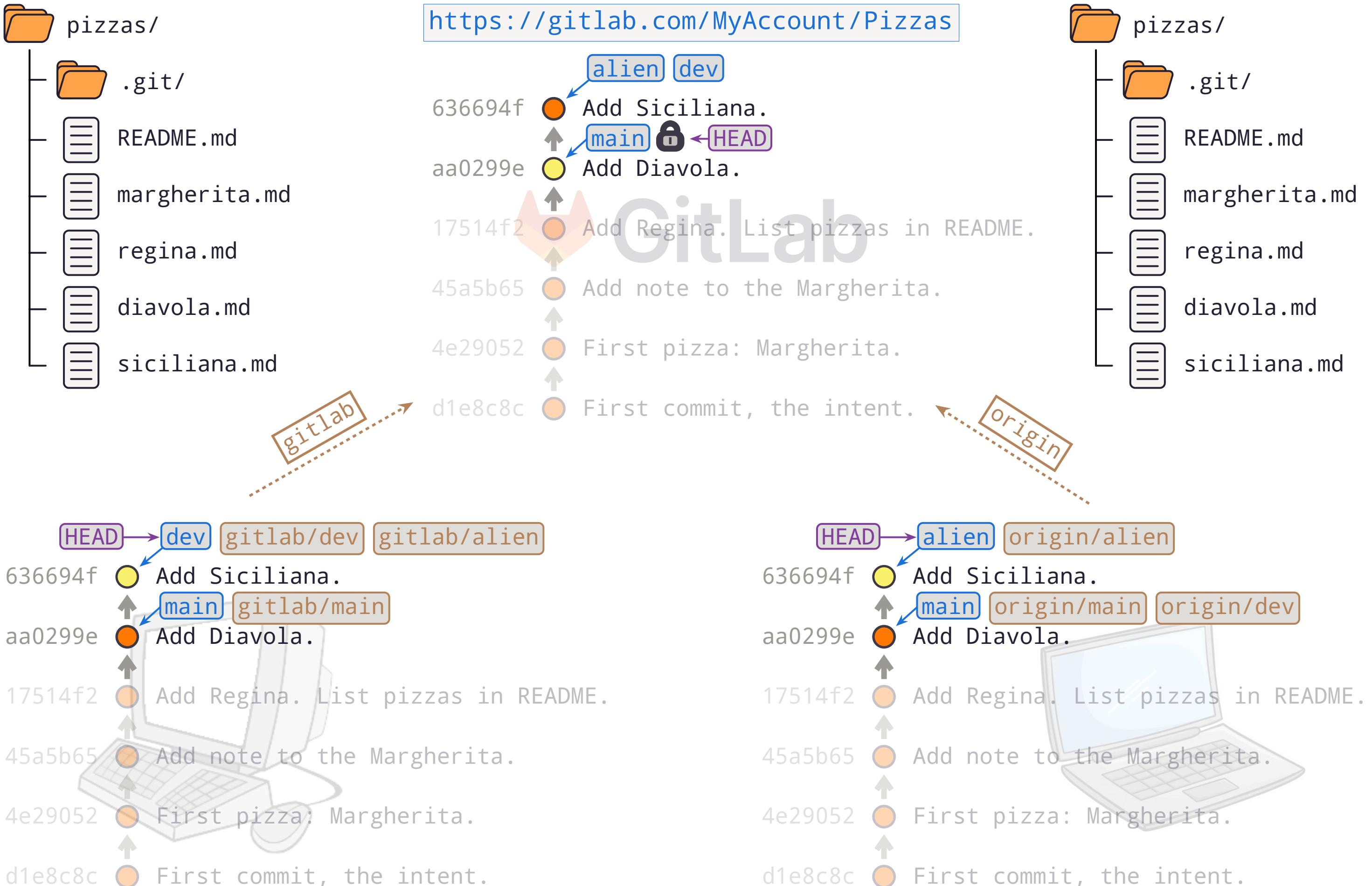
# Collaborate

When you Diverge



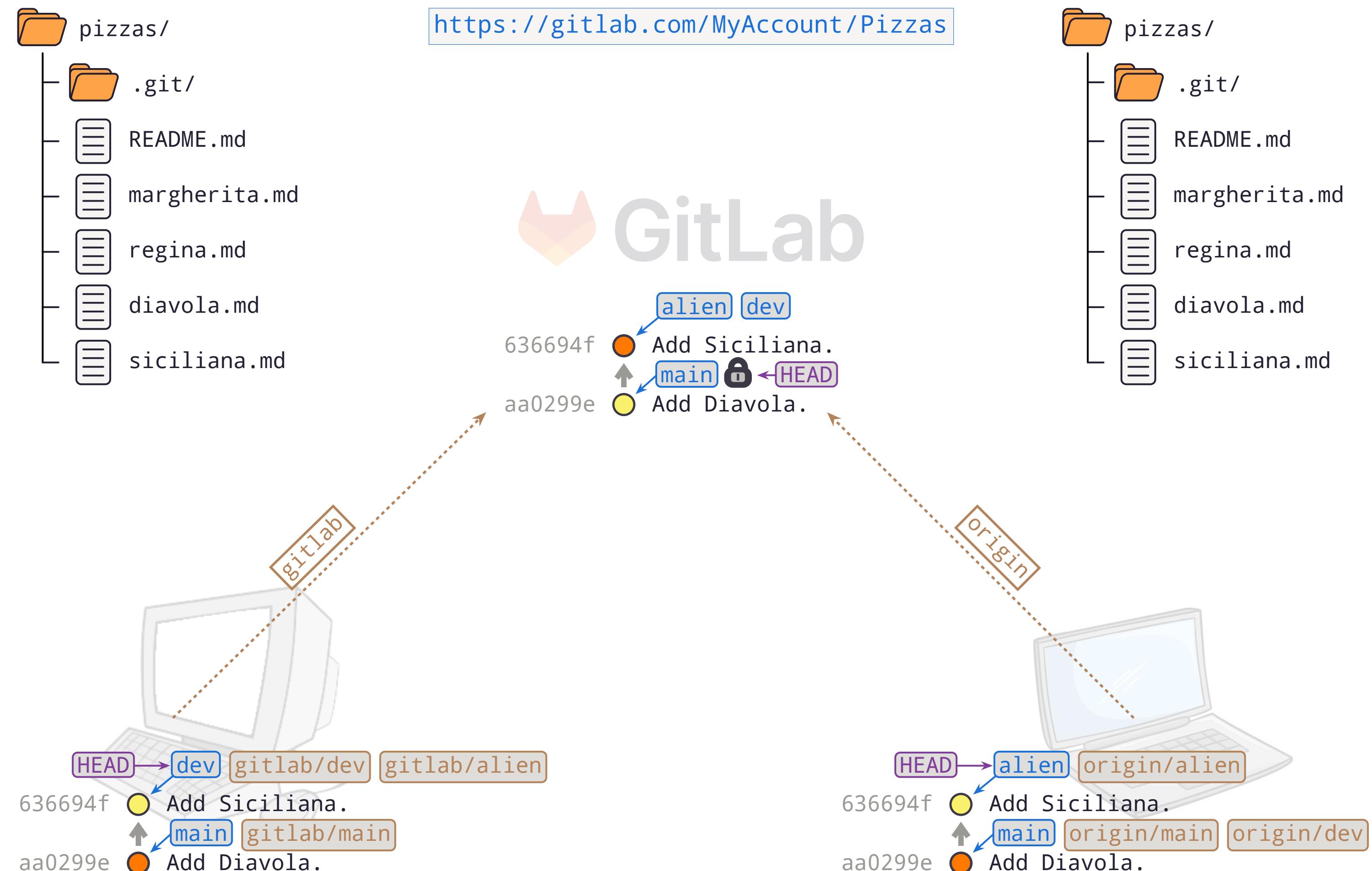
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When you Diverge



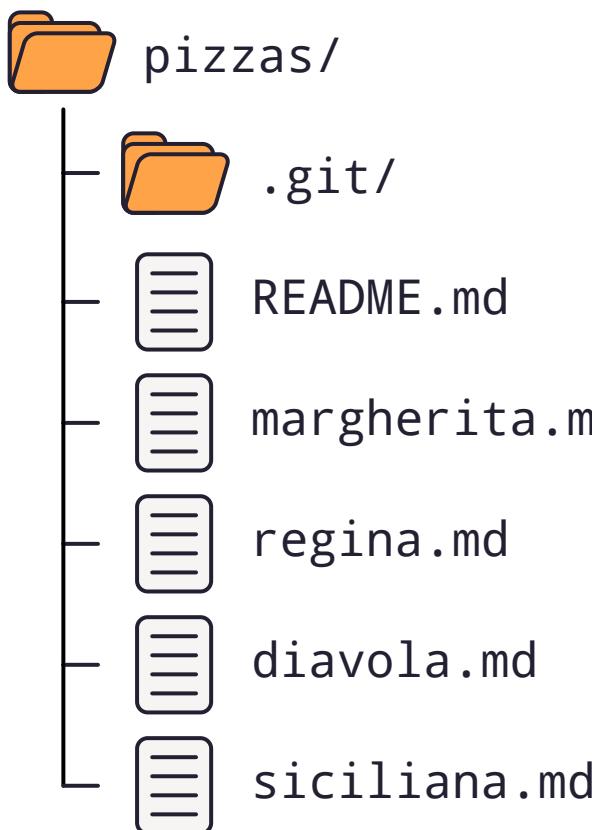
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When you Diverge

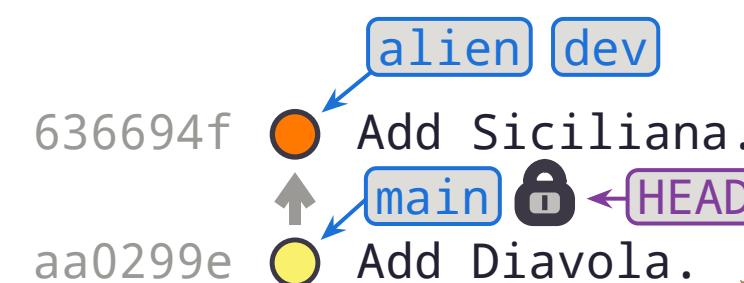


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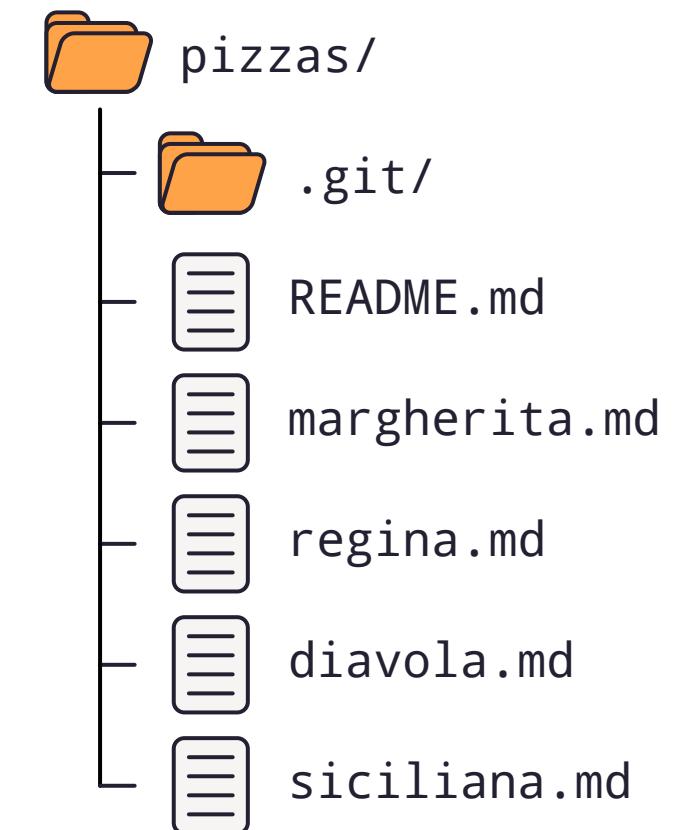
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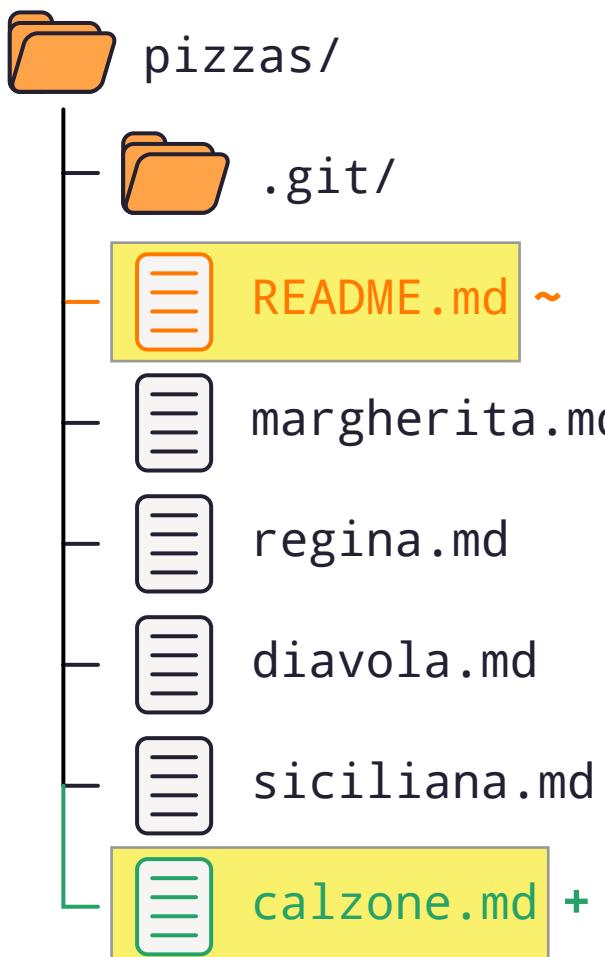


ab/alien

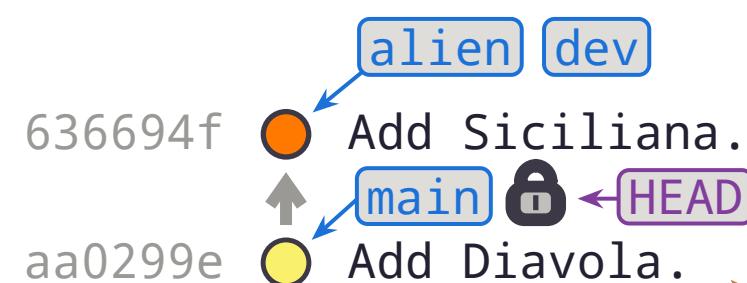


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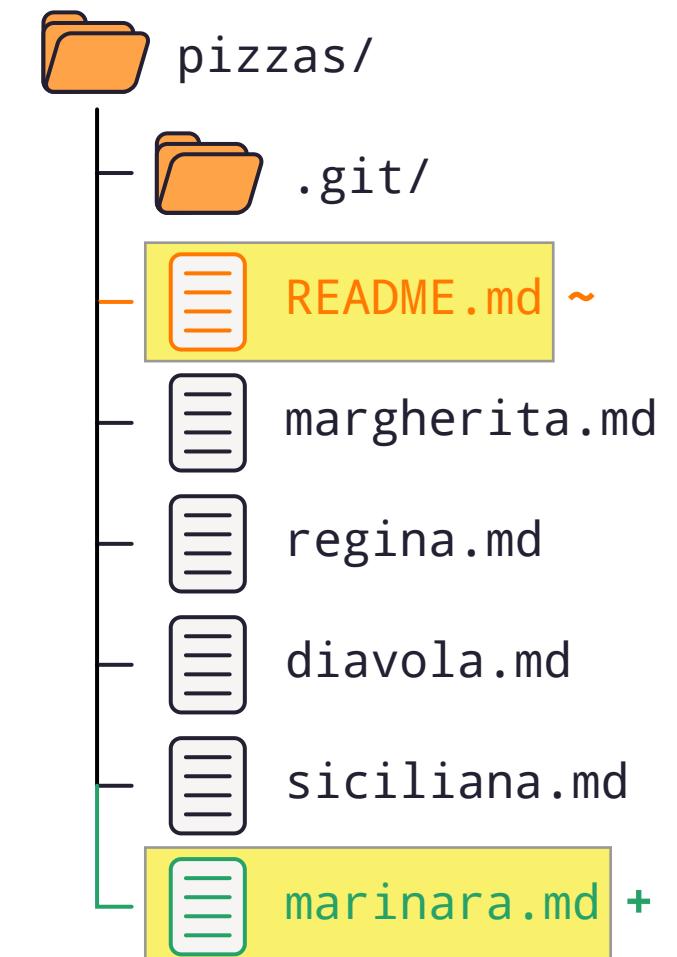
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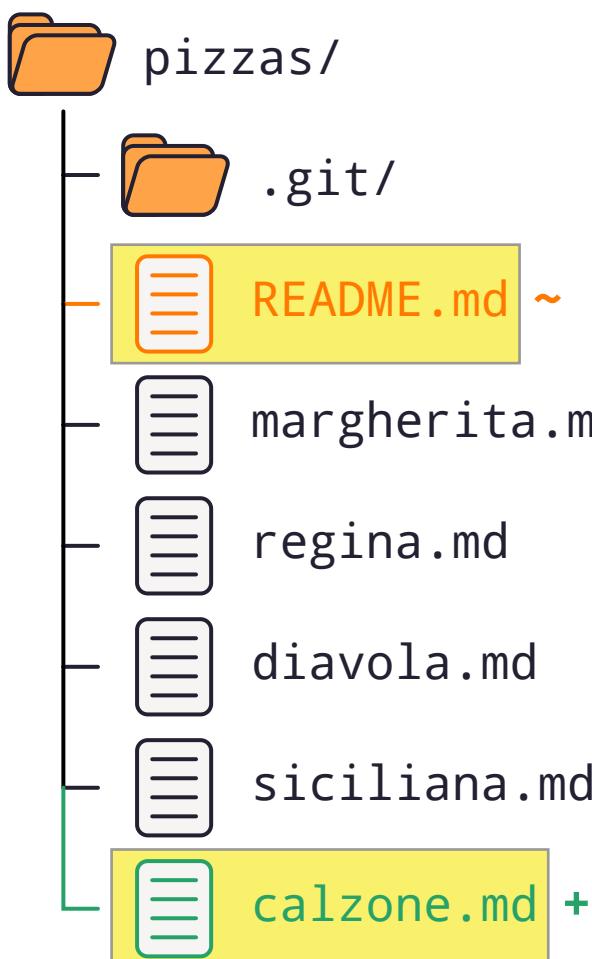


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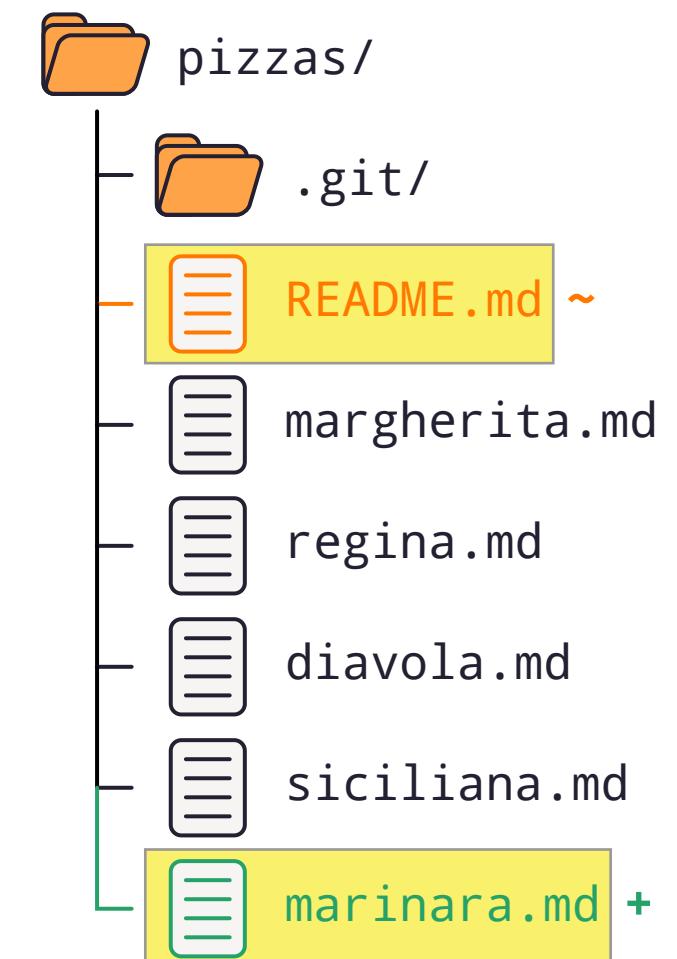
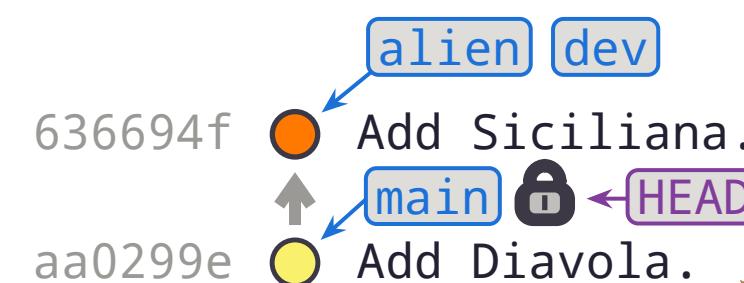


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When you Diverge

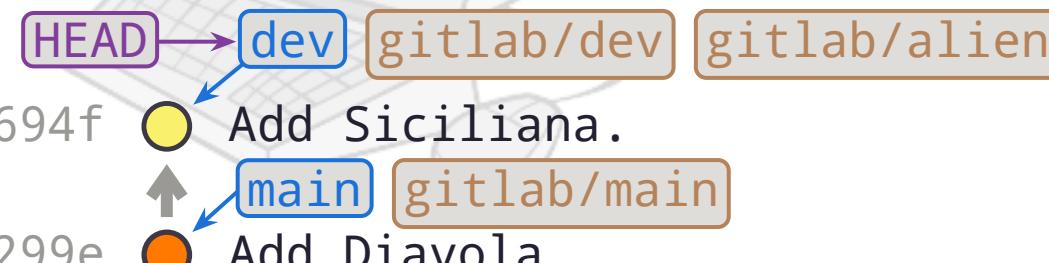


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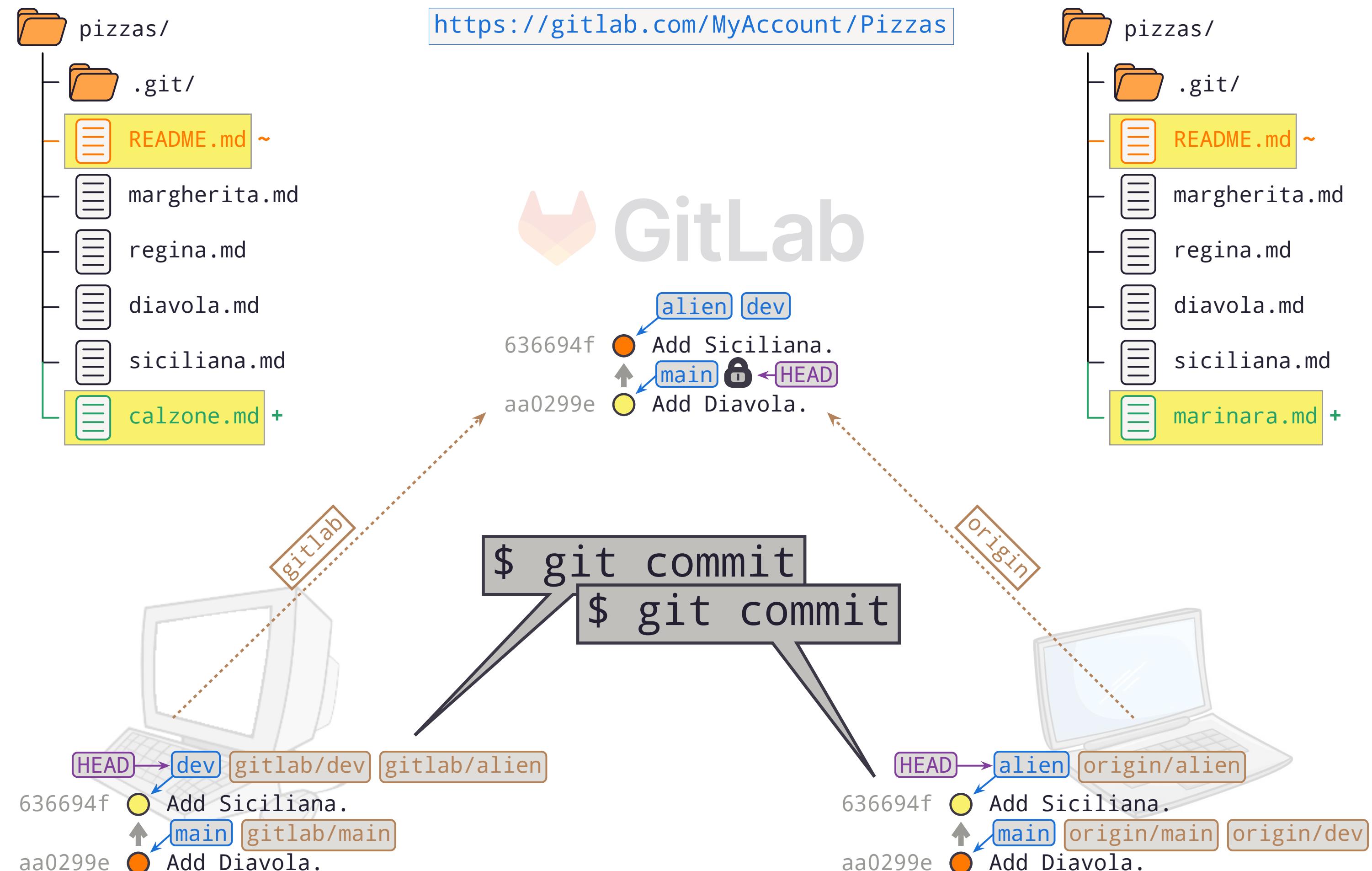
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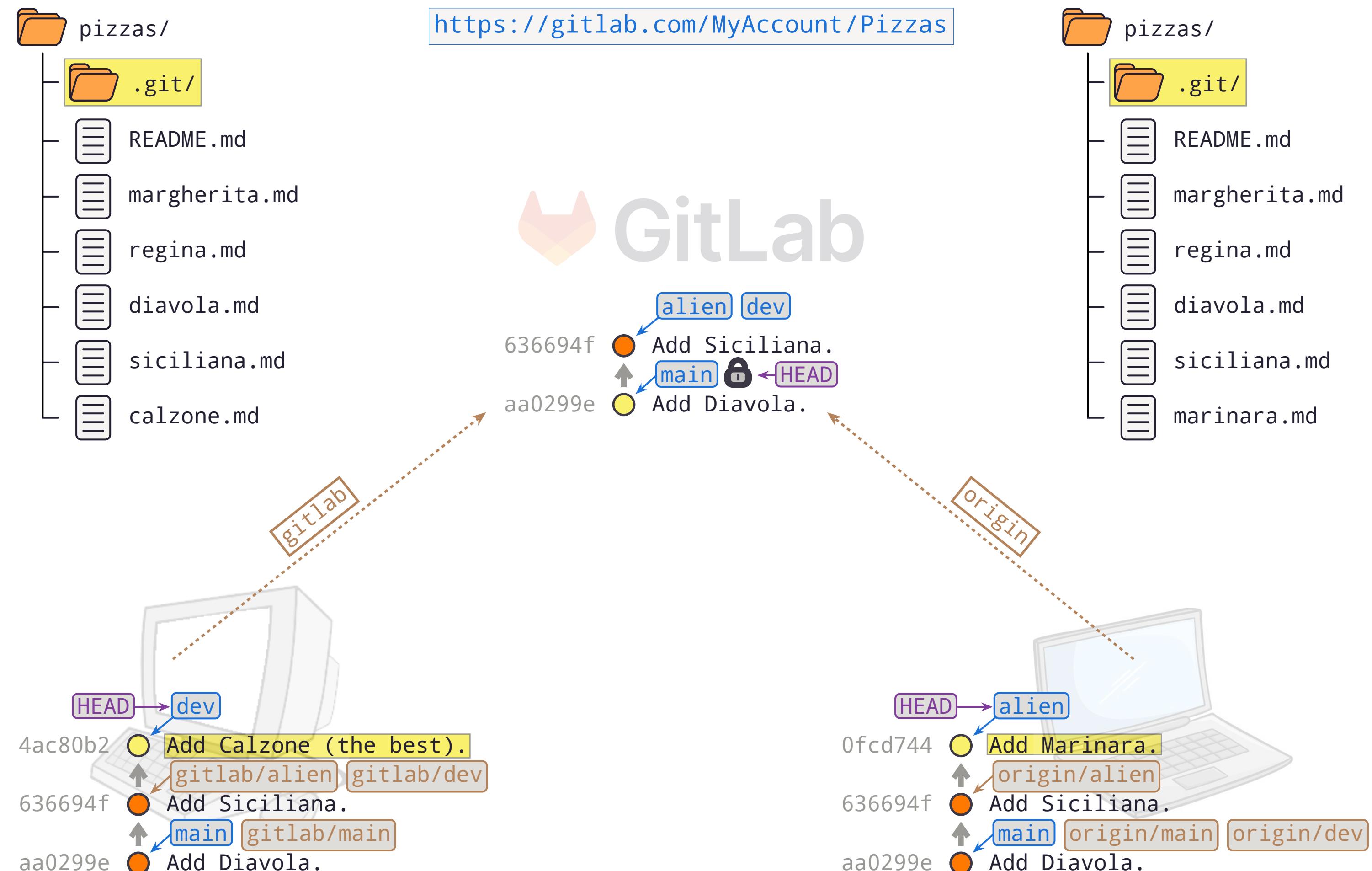
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When you Diverge



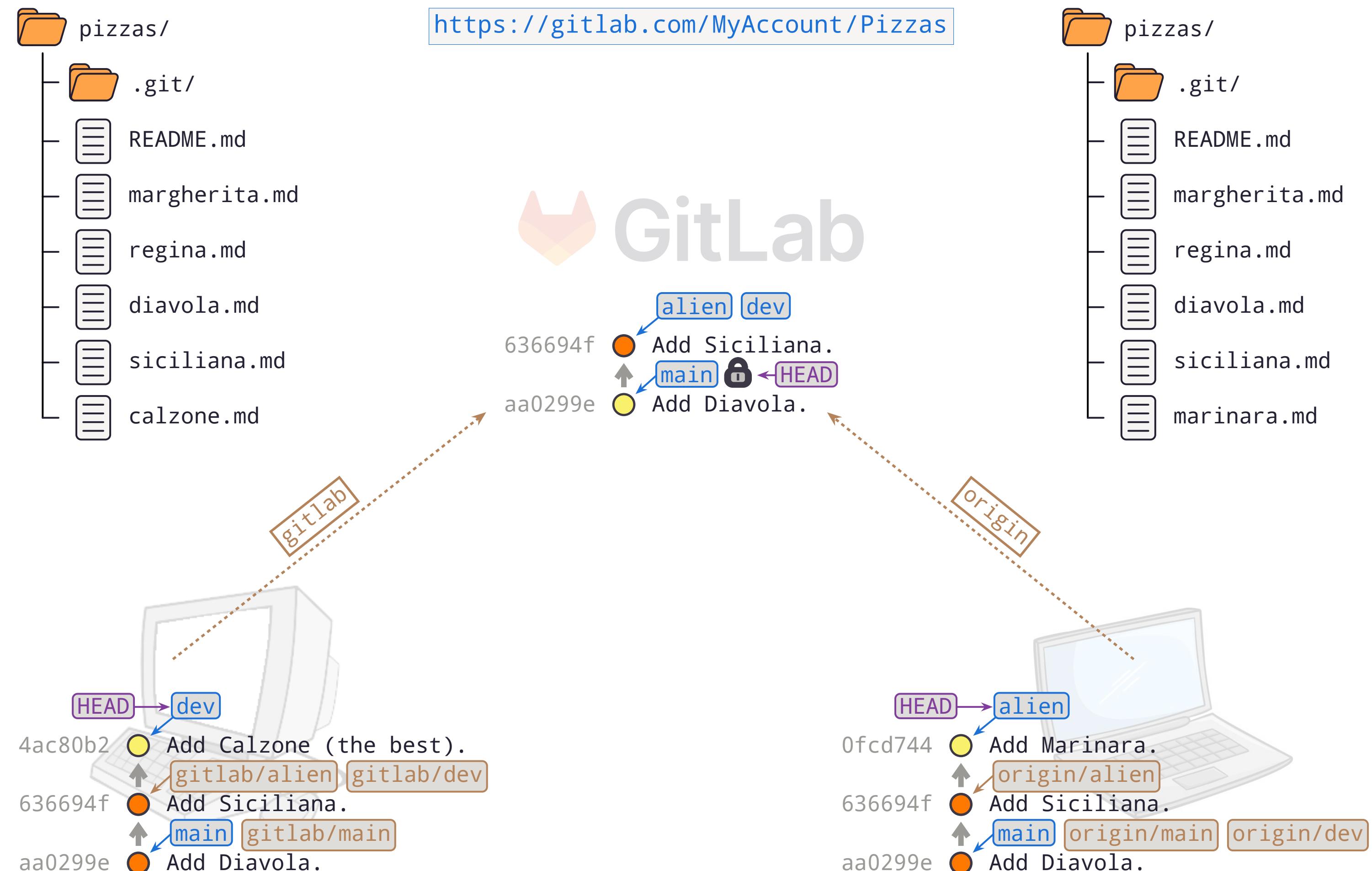
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When you Diverge



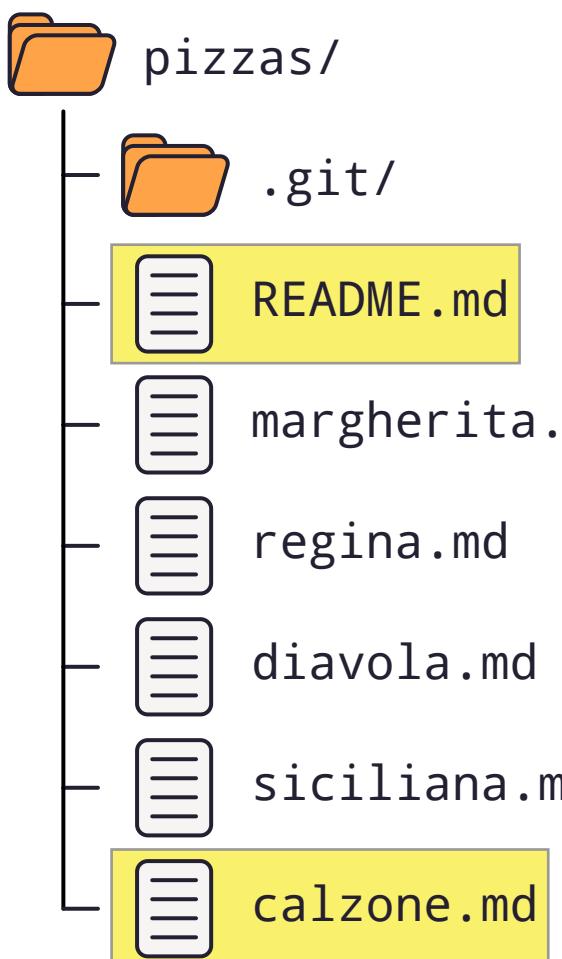
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When you Diverge

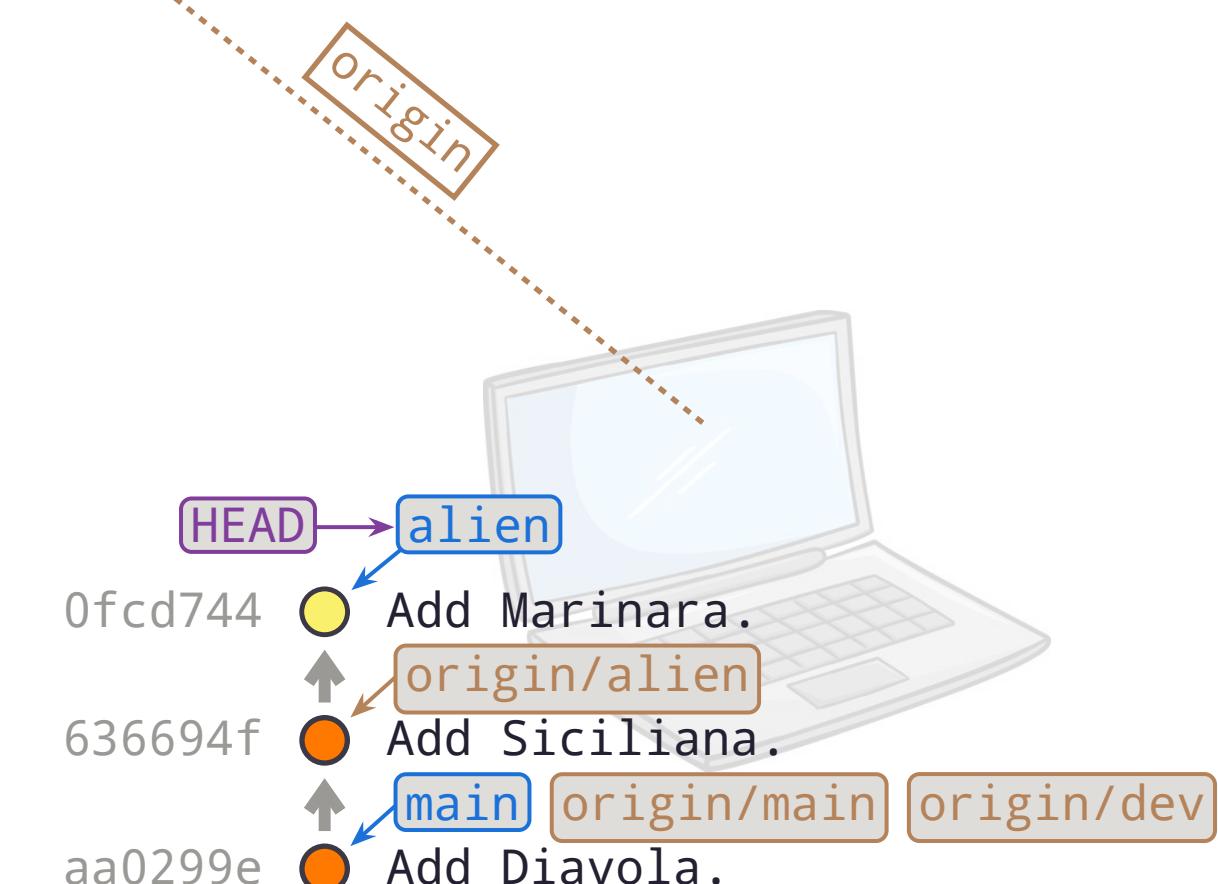
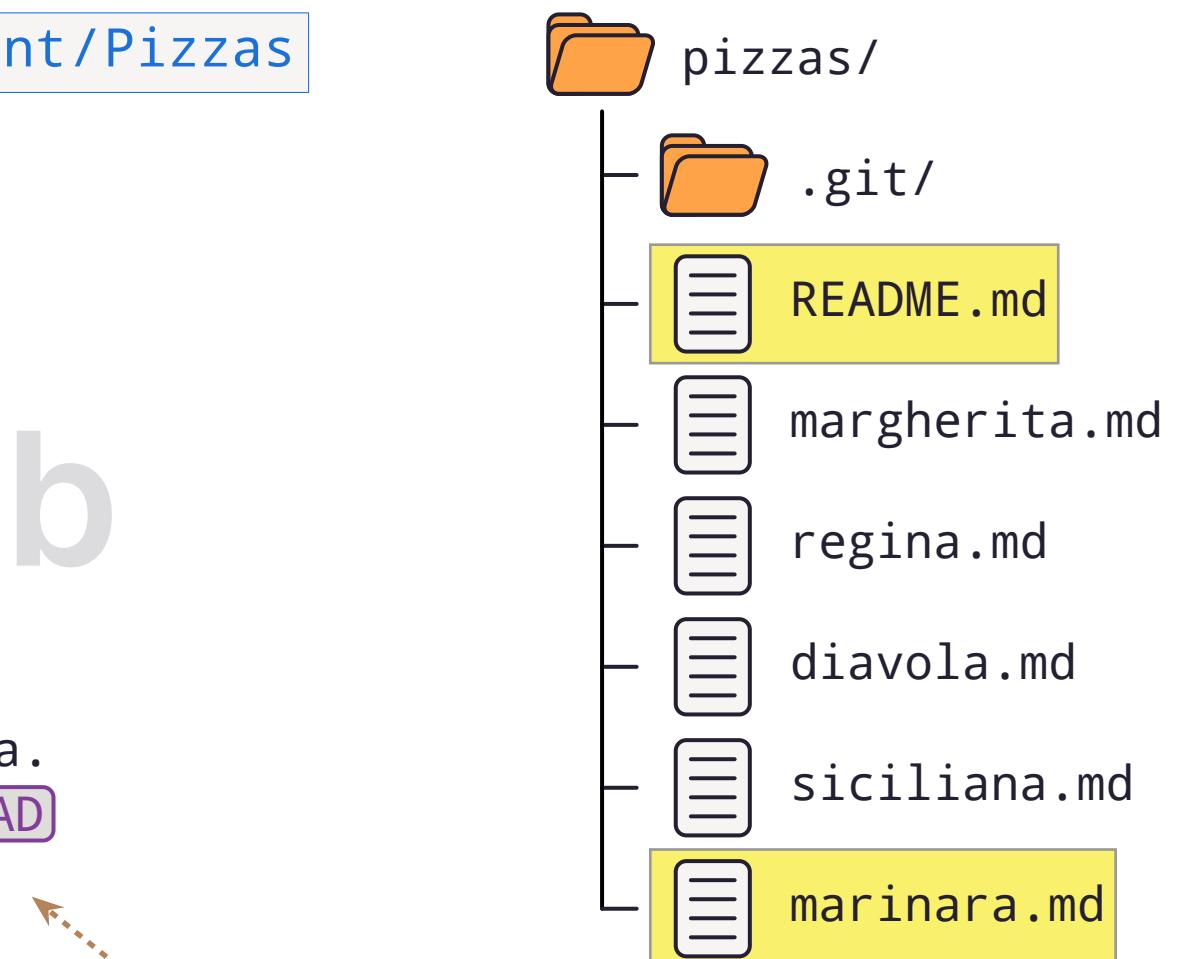
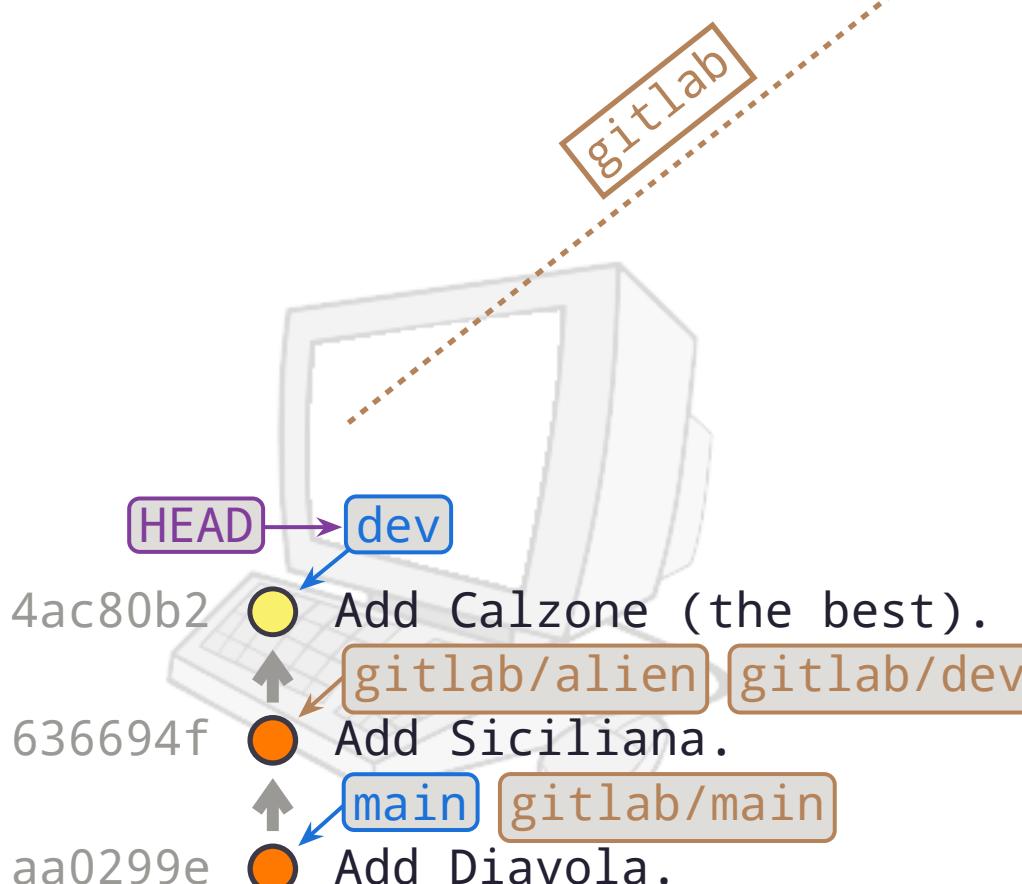
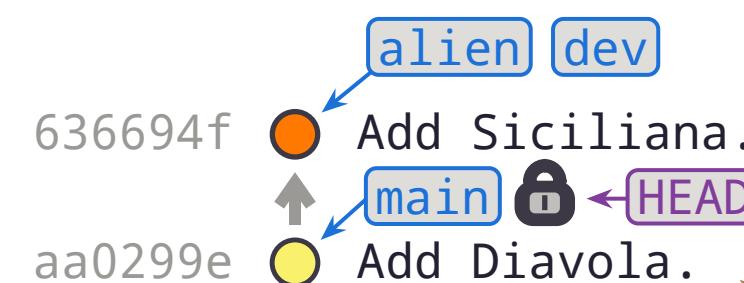


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When you Diverge

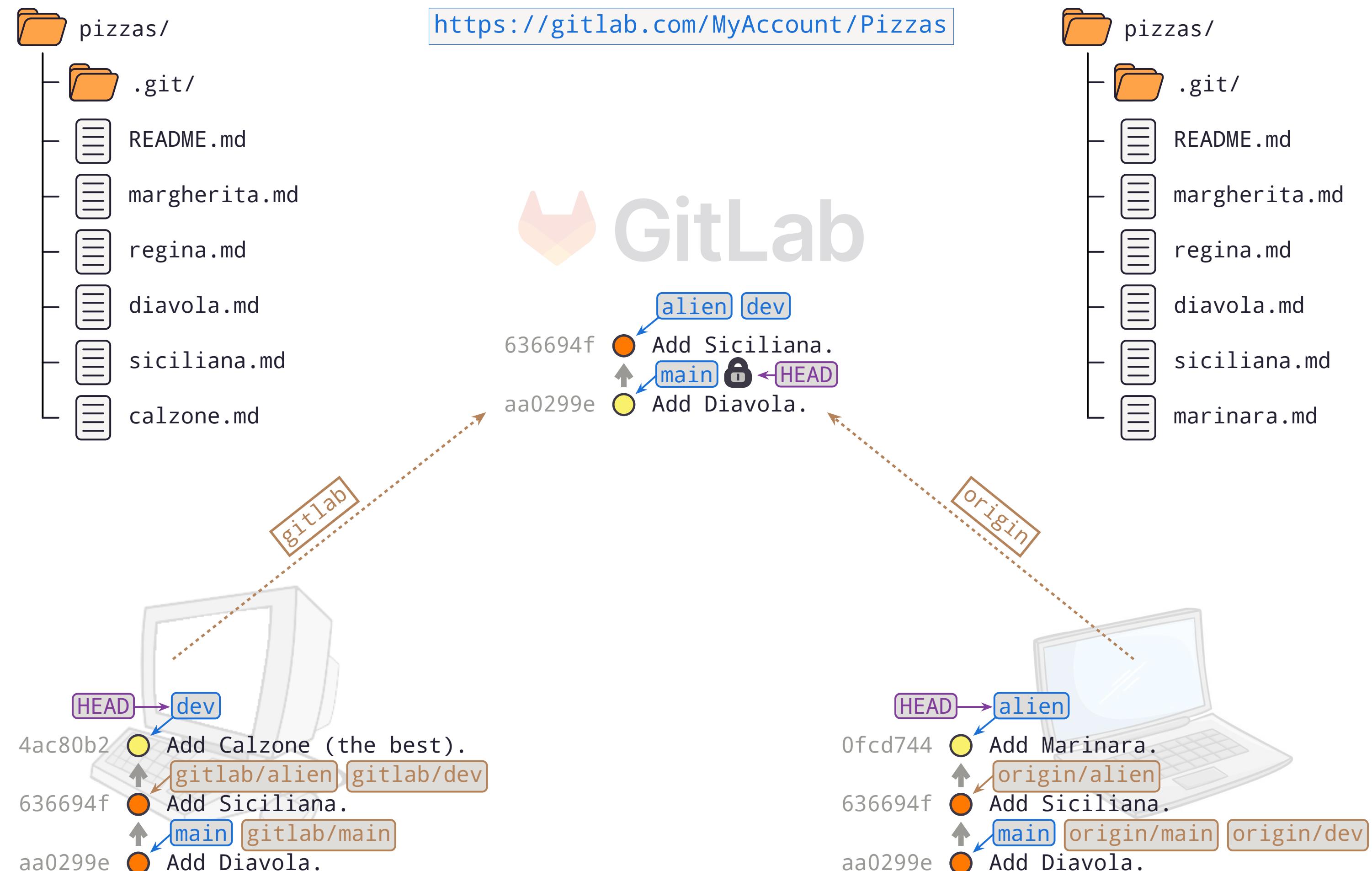


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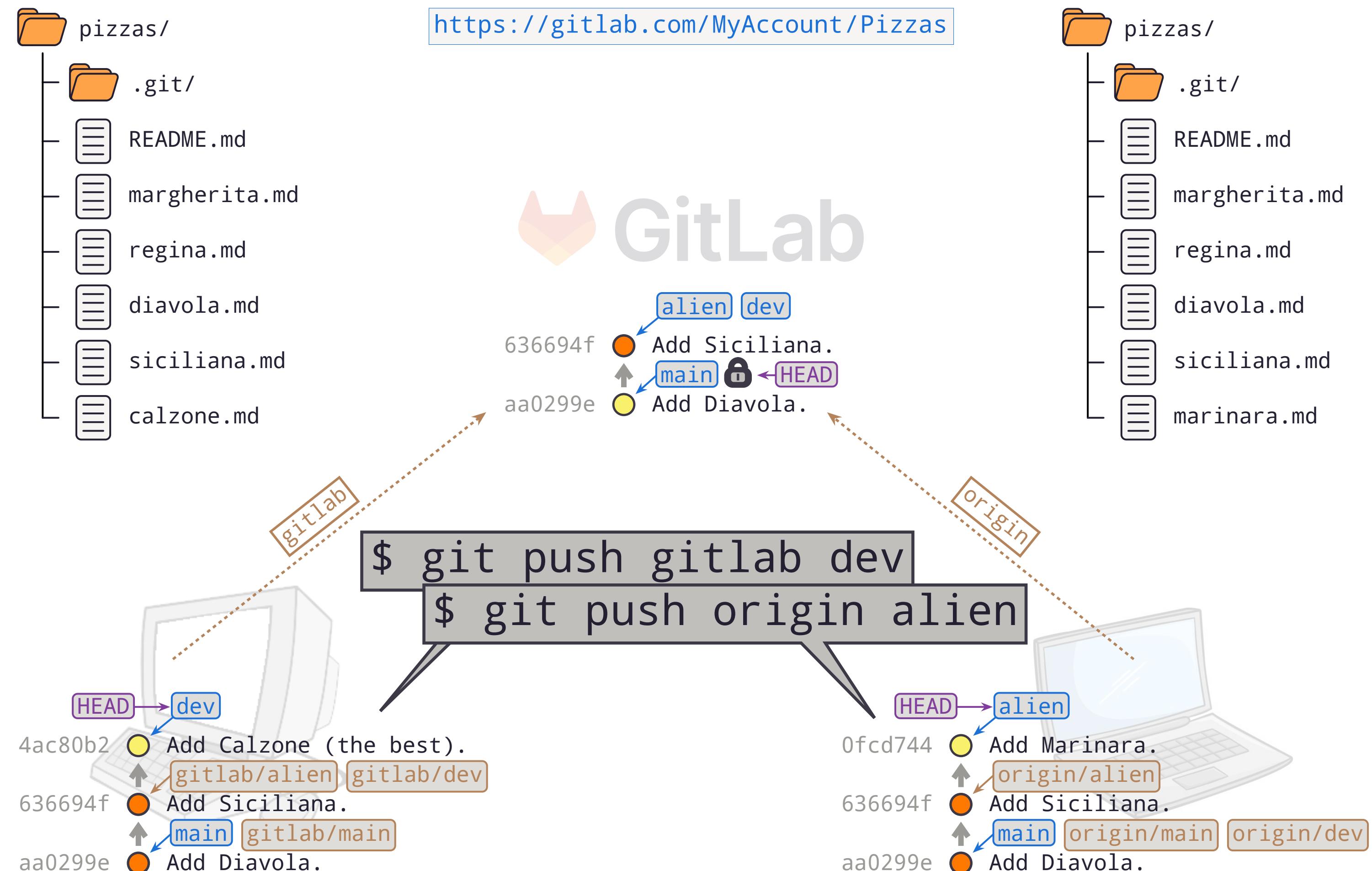
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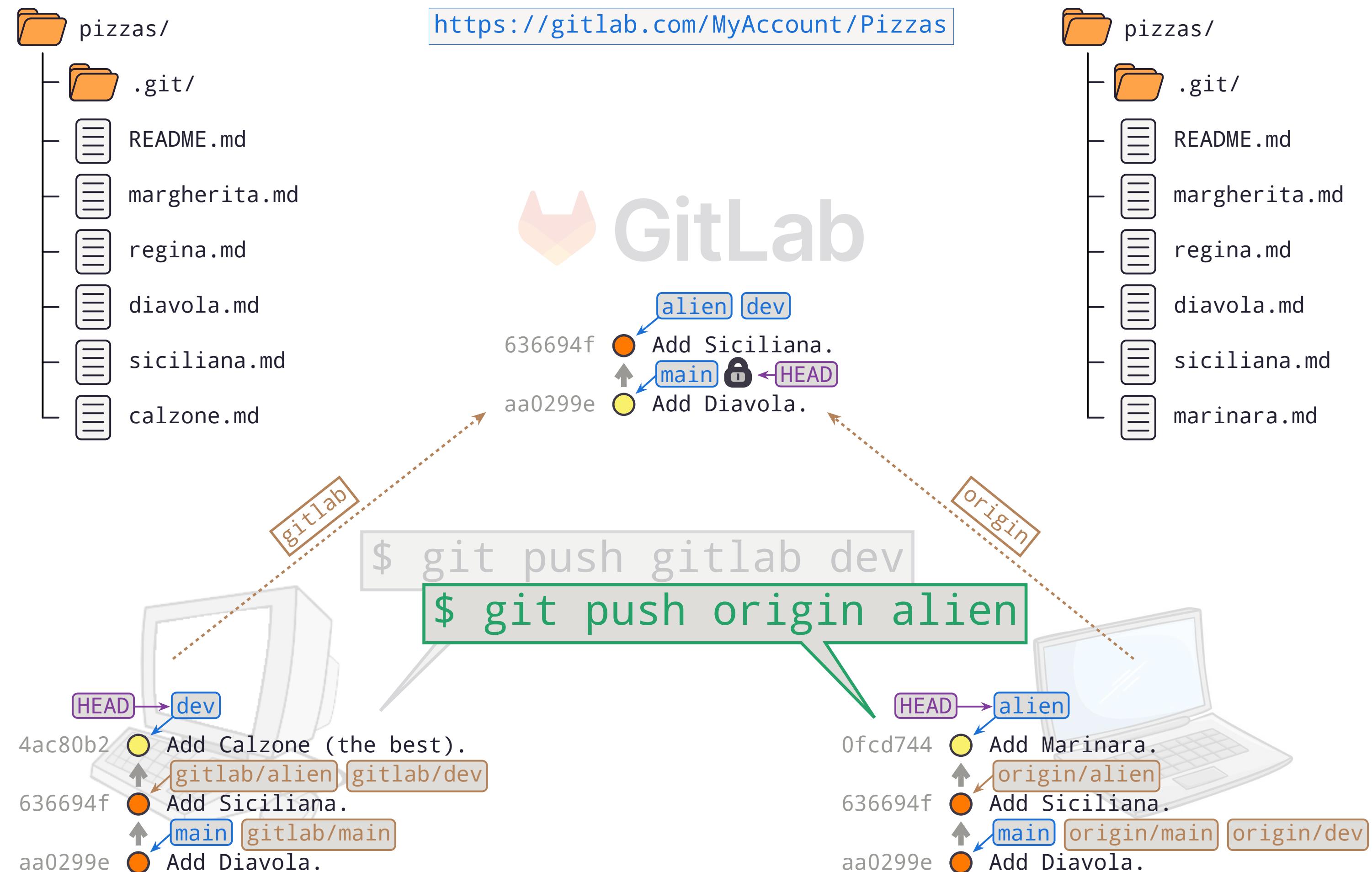
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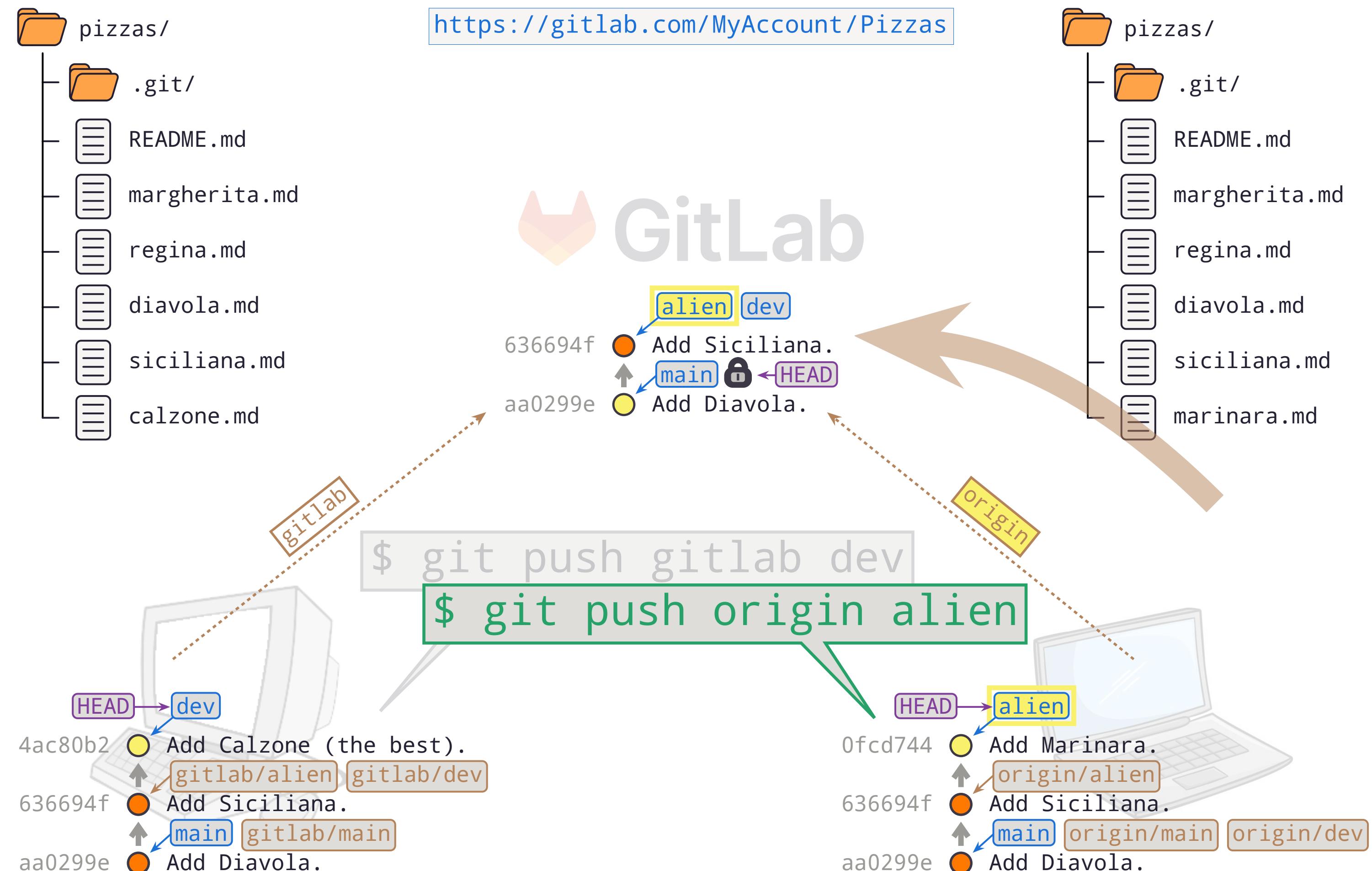
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When you Diverge



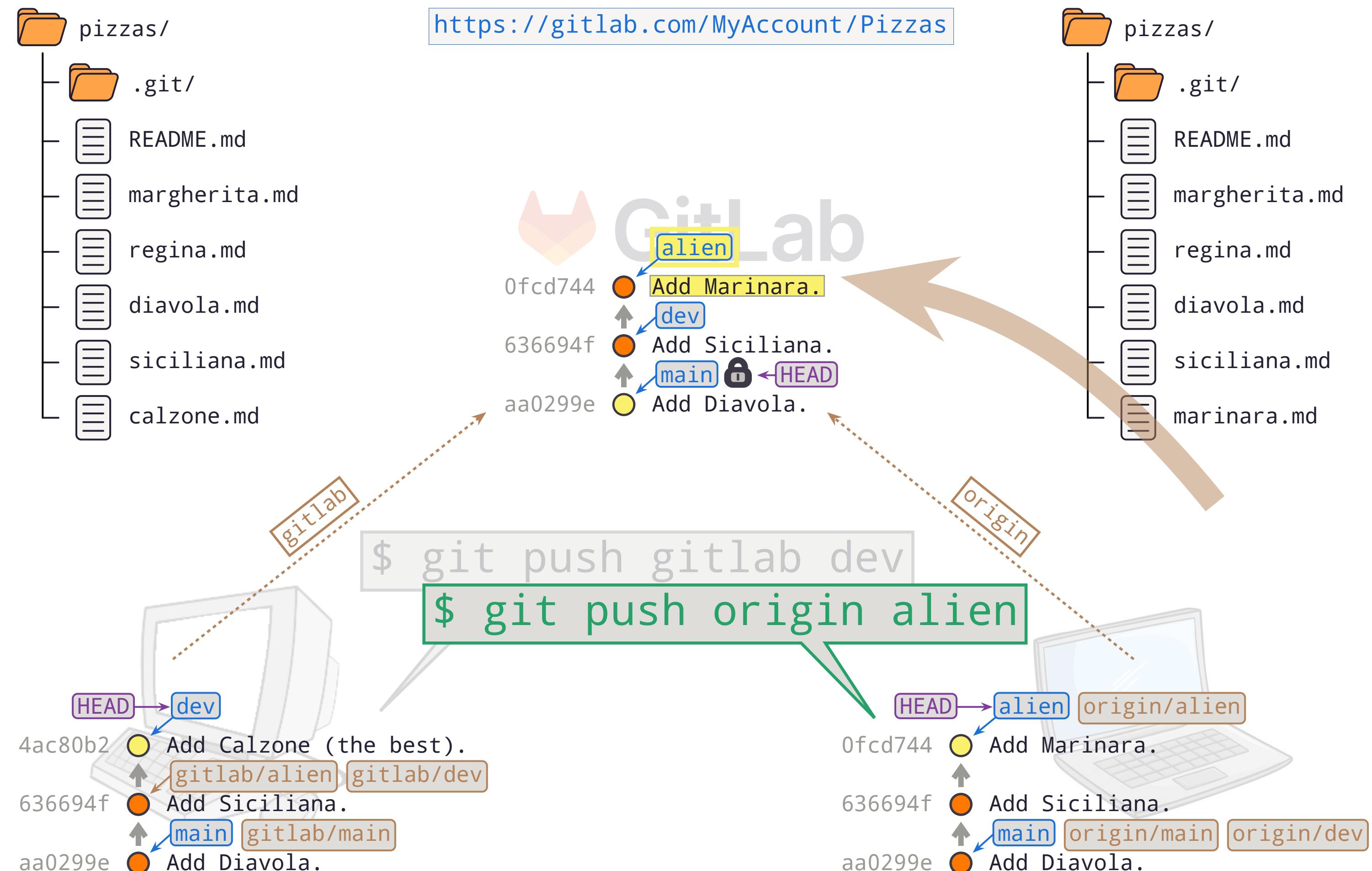
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When you Diverge



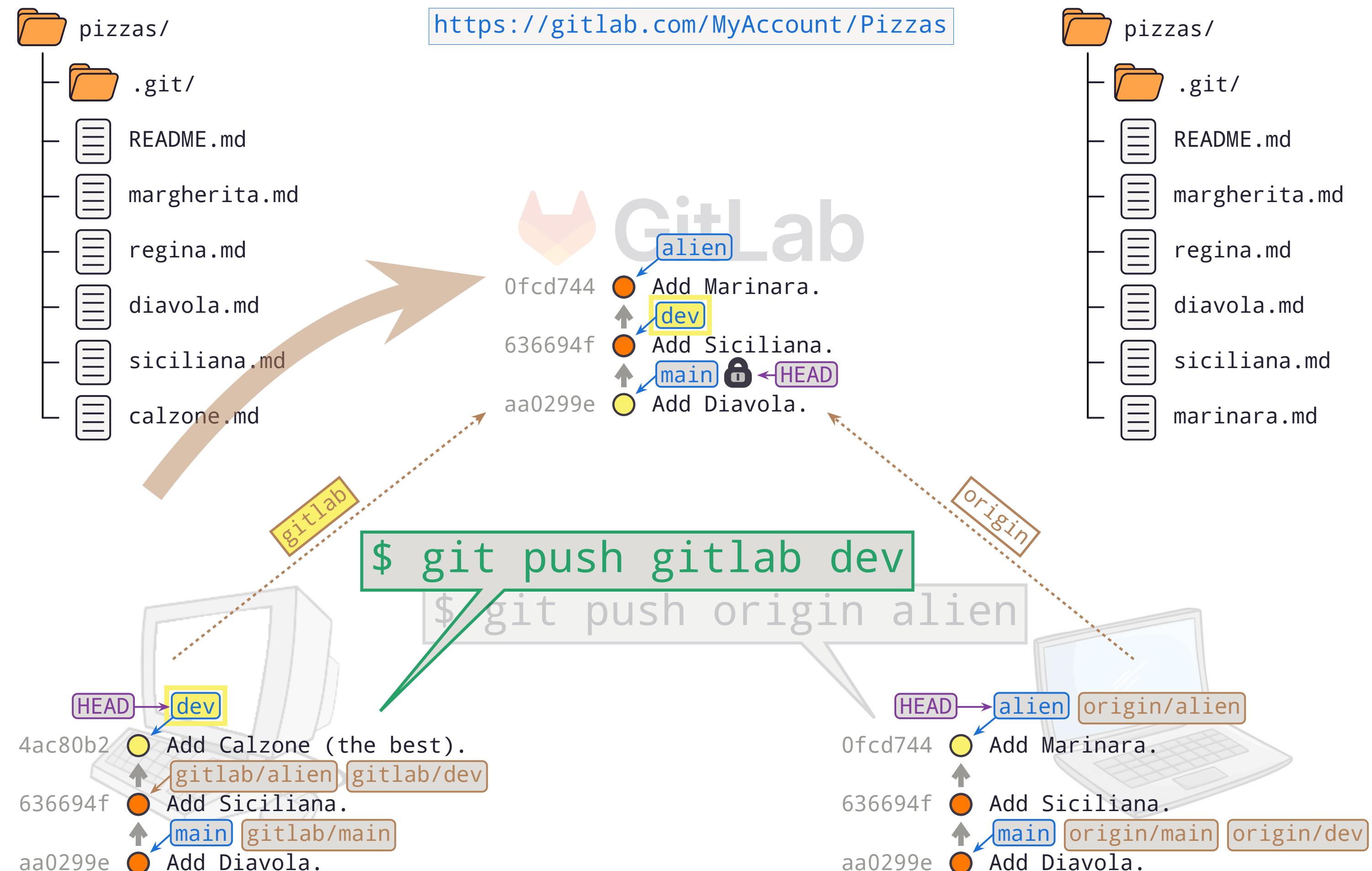
# Collaborate

When you Diverge



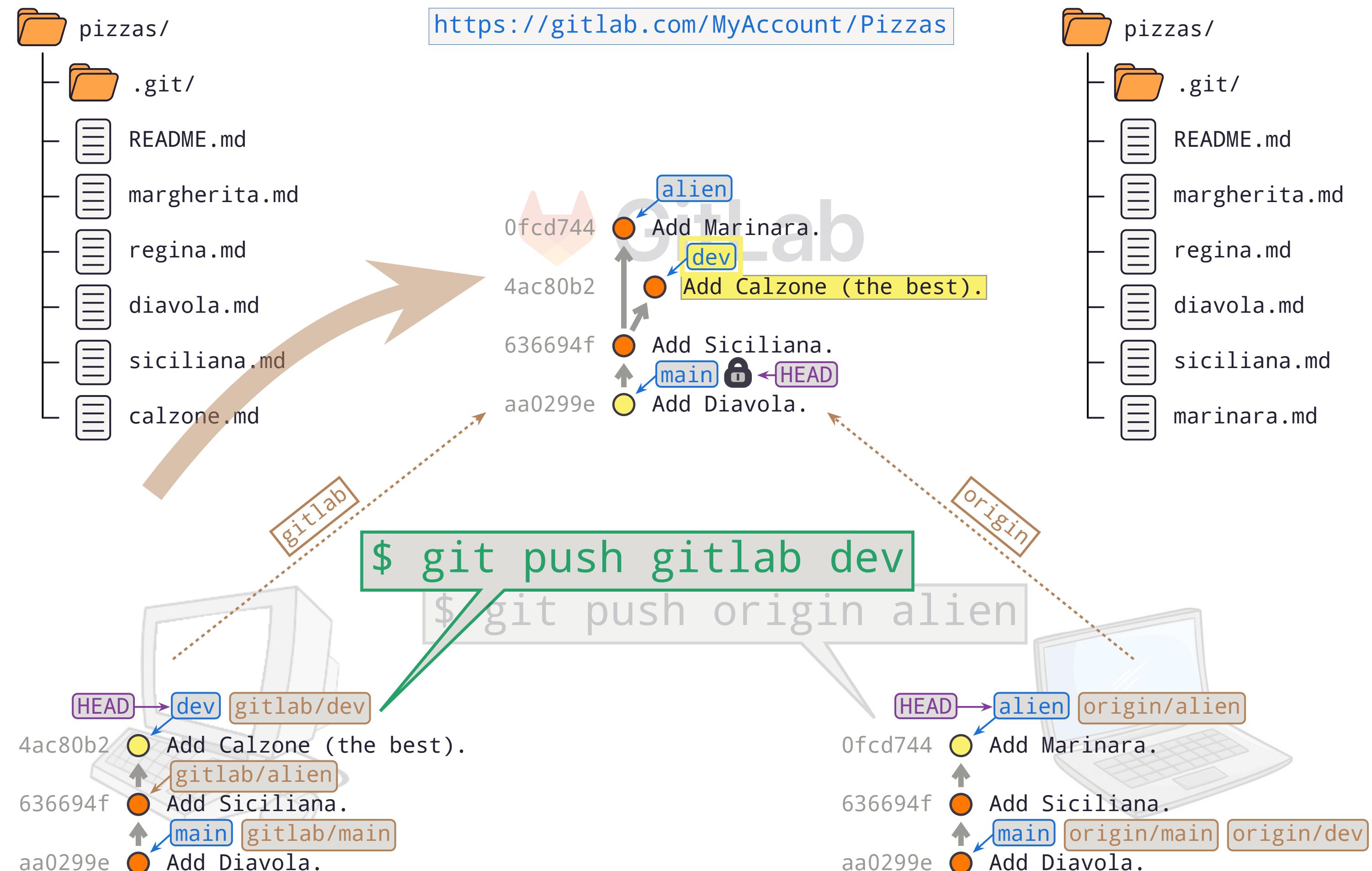
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When you Diverge



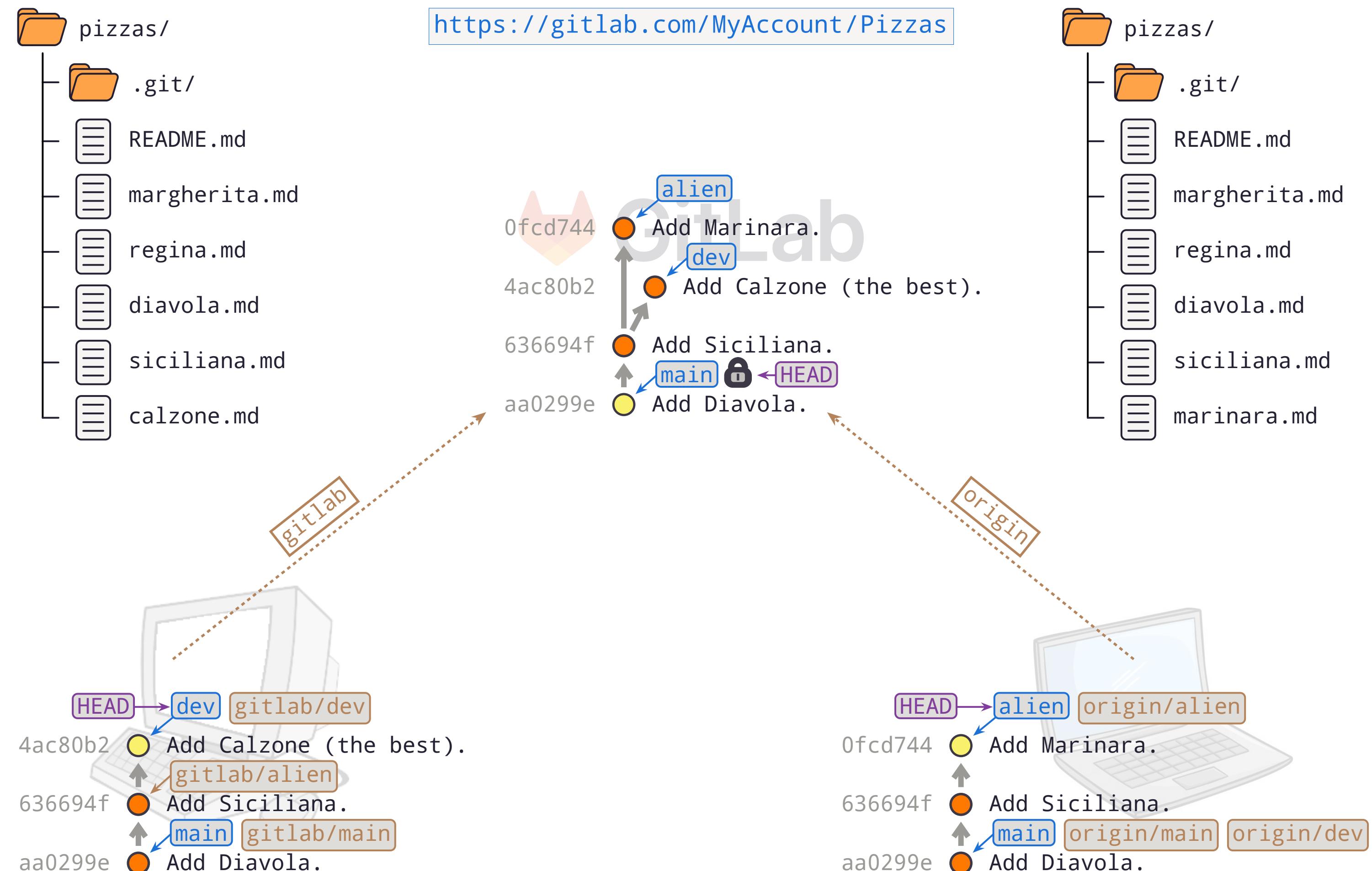
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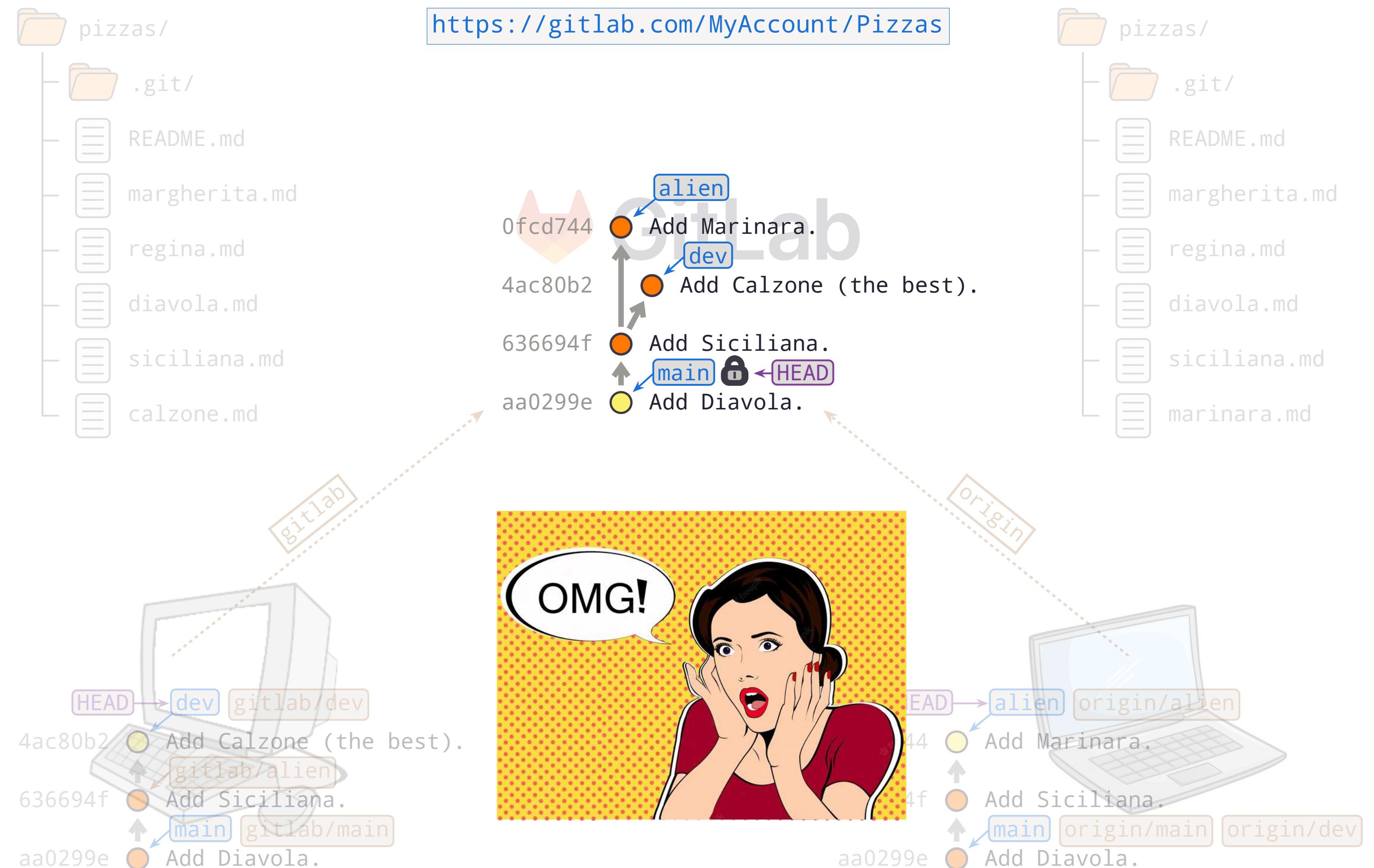
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When you Diverge



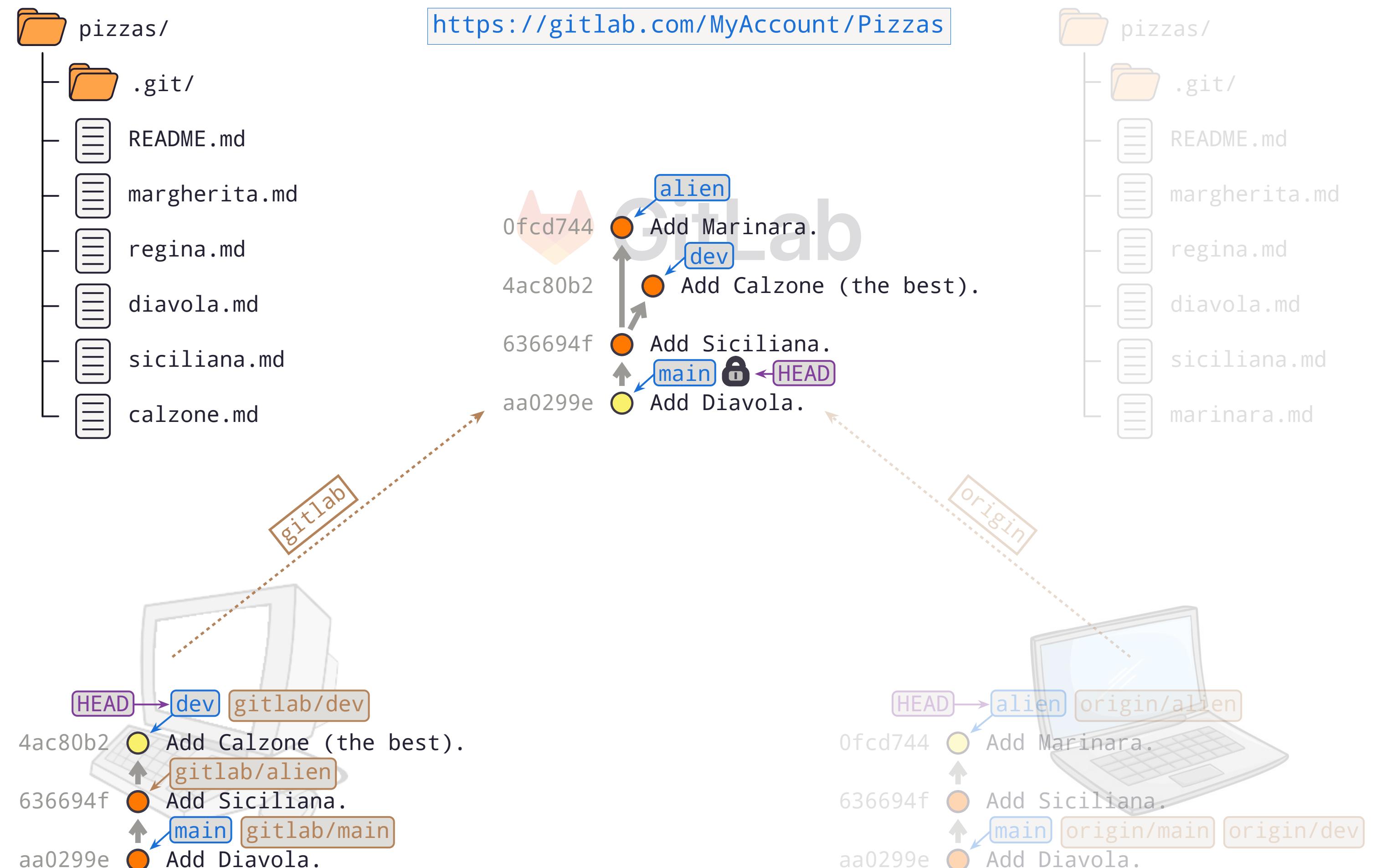
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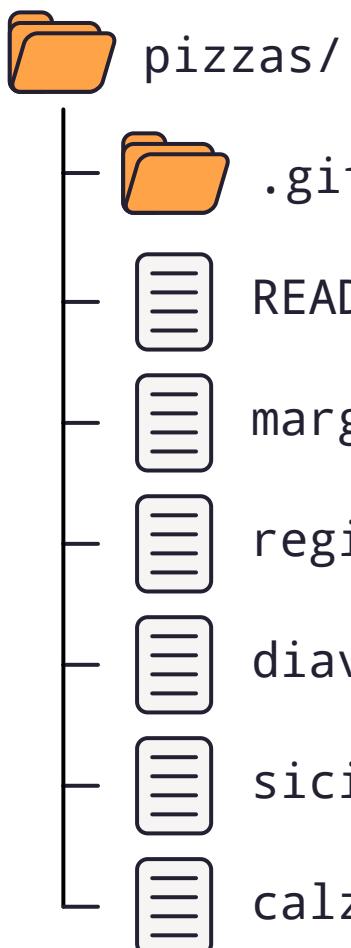
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When you Diverge

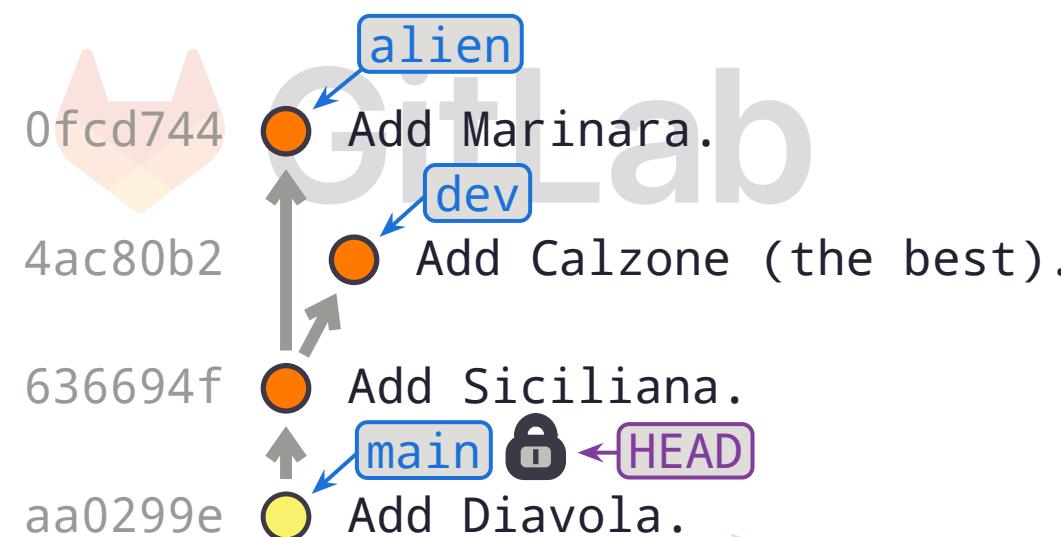


# Collaborate

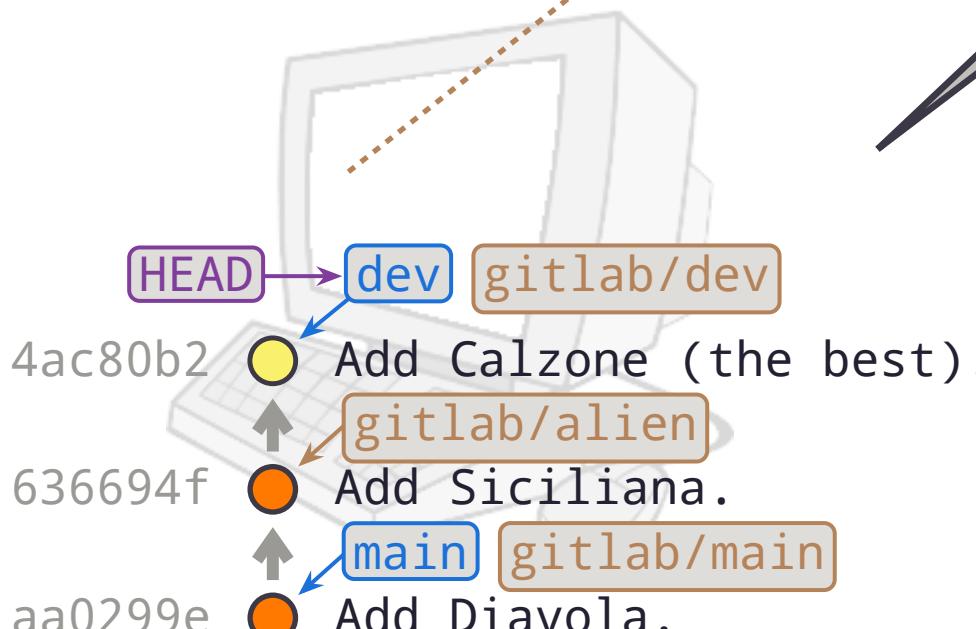
When you Diverge



<https://gitlab.com/MyAccount/Pizzas>

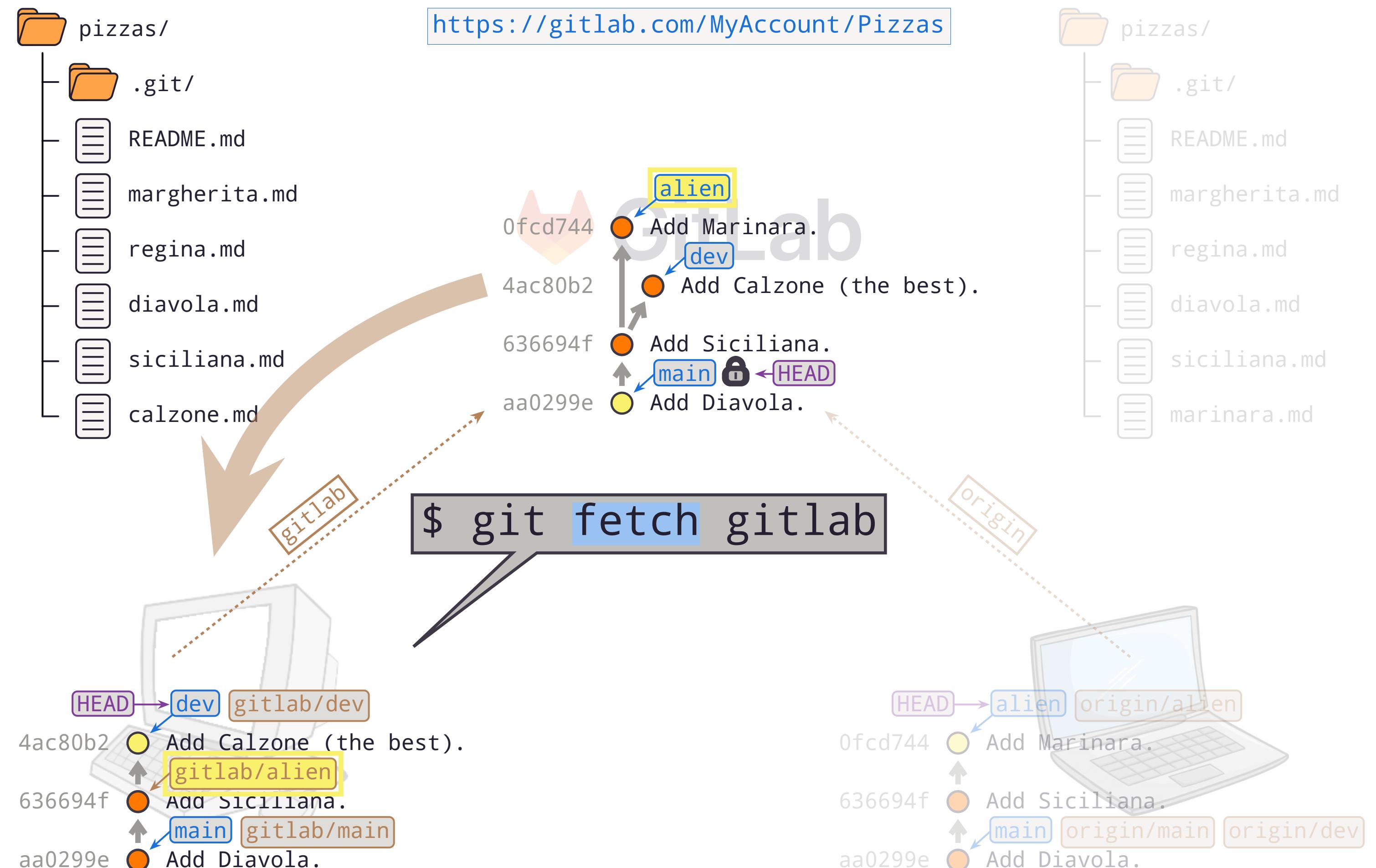


\$ git fetch gitlab



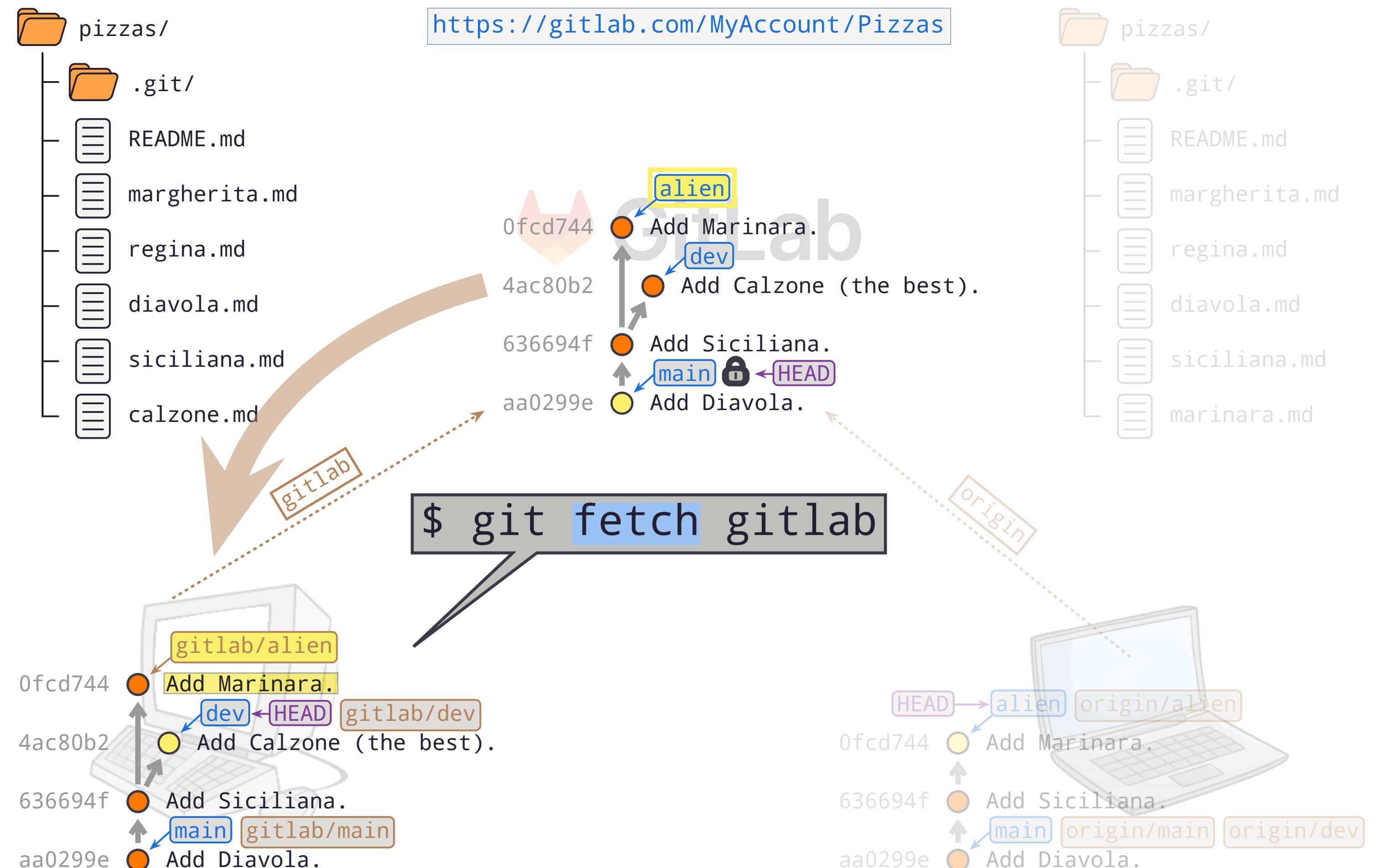
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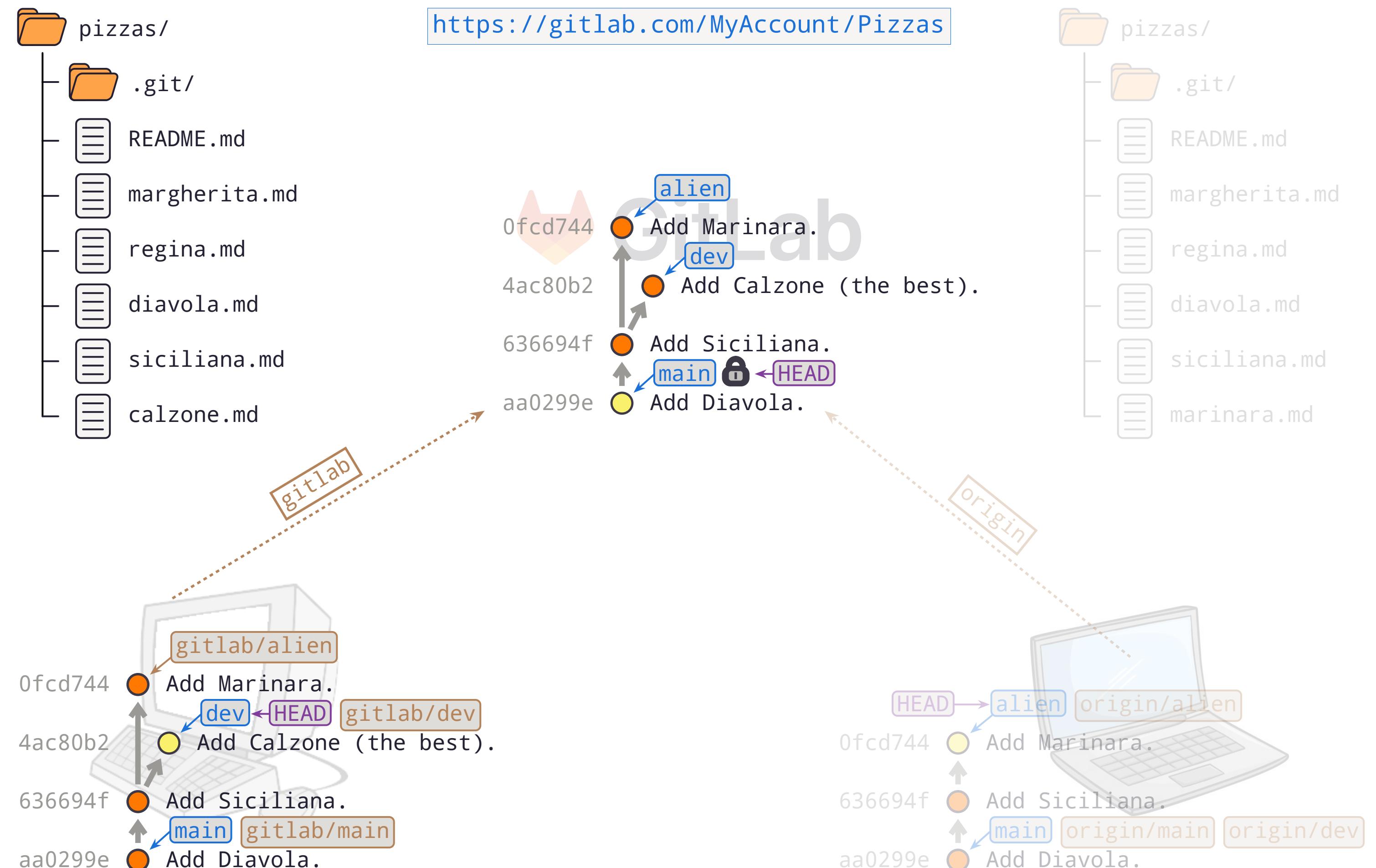
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When you Diverge



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When you Diverge



# Collaborate

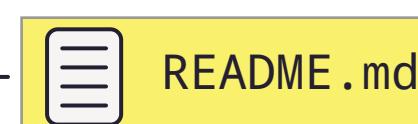
When you Diverge



pizzas/



.git/



README.md



margherita.md



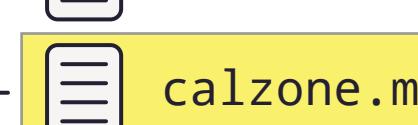
regina.md



diavola.md

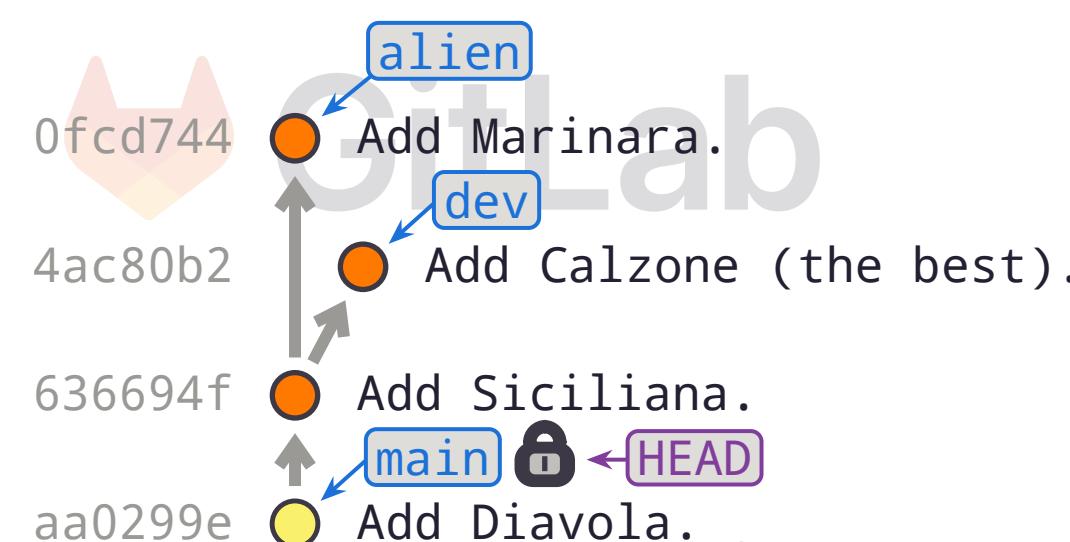


siciliana.md

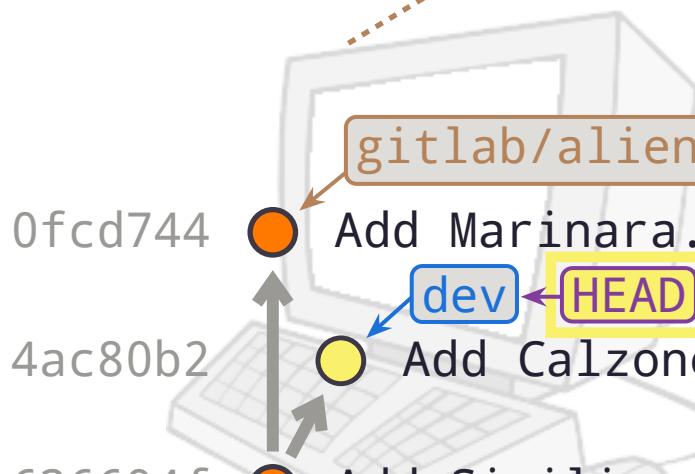


calzone.md

<https://gitlab.com/MyAccount/Pizzas>



gitlab



gitlab



pizzas/



.git/



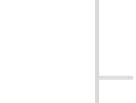
README.md



margherita.md



regina.md



diavola.md



siciliana.md



marinara.md

origin



# Collaborate

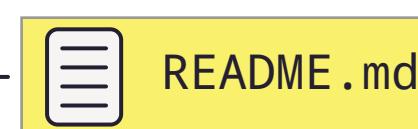
When you Diverge



pizzas/



.git/



README.md



margherita.md



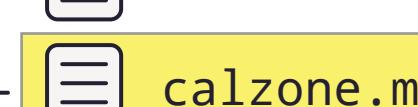
regina.md



diavola.md

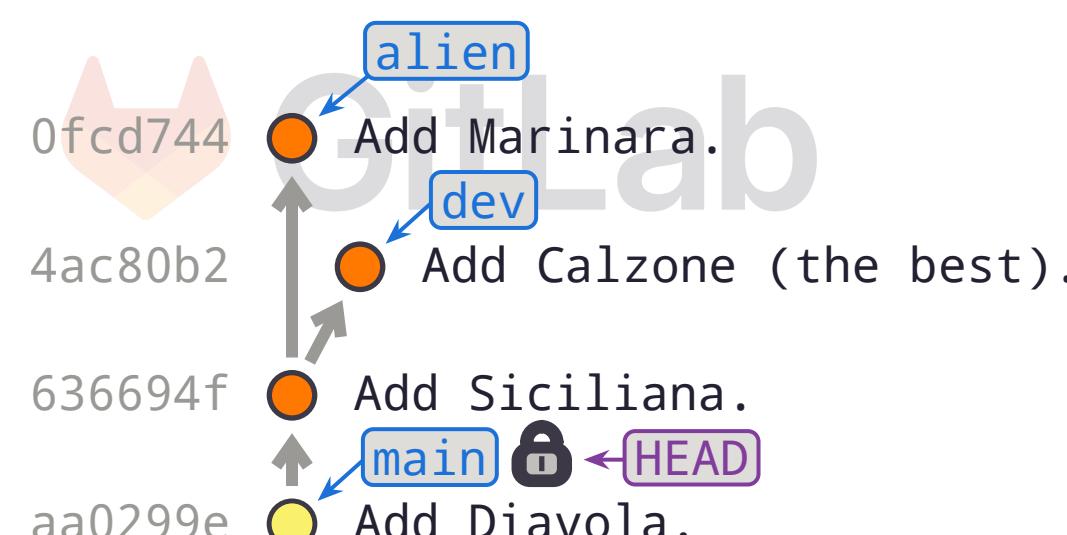


siciliana.md



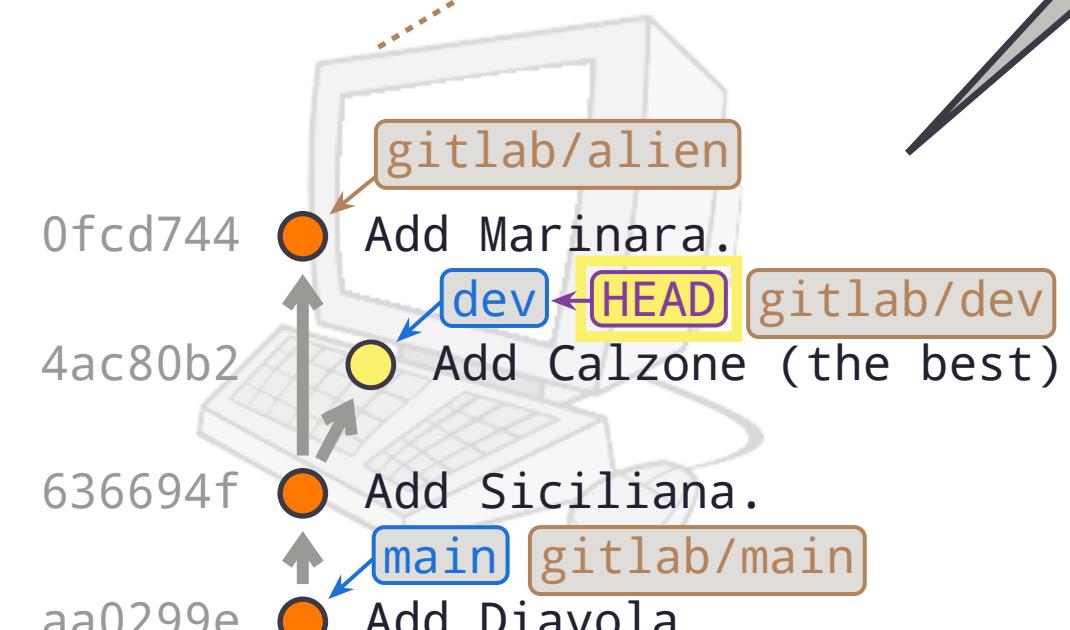
calzone.md

<https://gitlab.com/MyAccount/Pizzas>



gitlab

\$ git checkout gitlab/alien



pizzas/



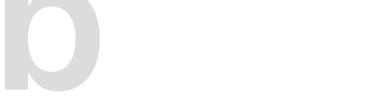
.git/



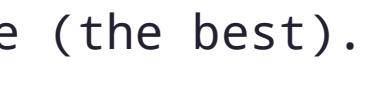
README.md



margherita.md



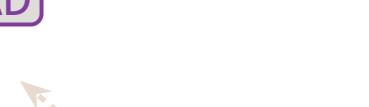
regina.md



diavola.md



siciliana.md

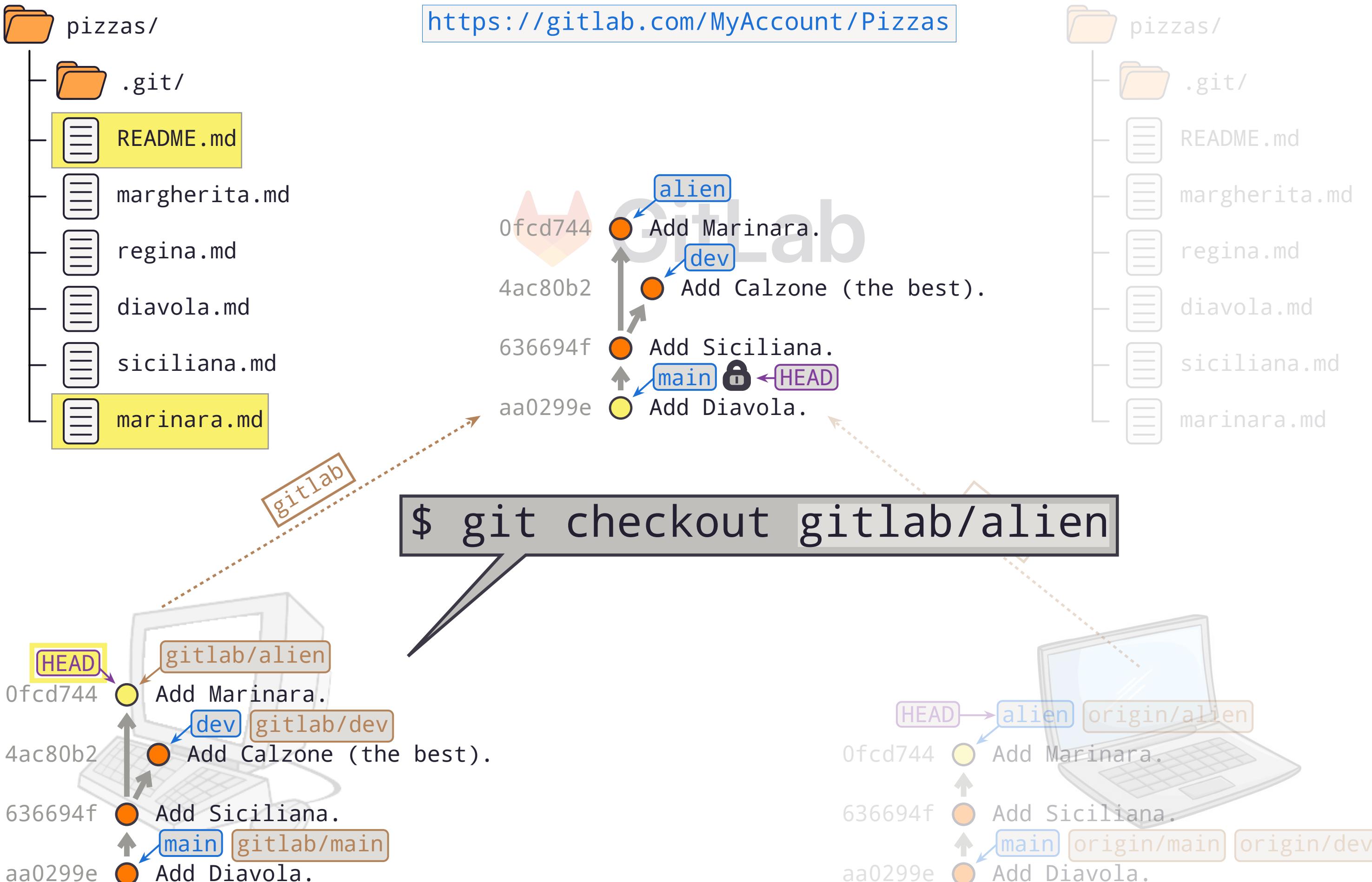


marinara.md



# Collaborate

When you Diverge



# Collaborate

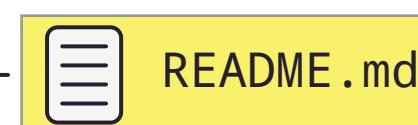
When you Diverge



pizzas/



.git/



README.md



margherita.md



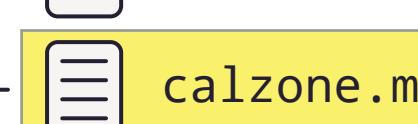
regina.md



diavola.md

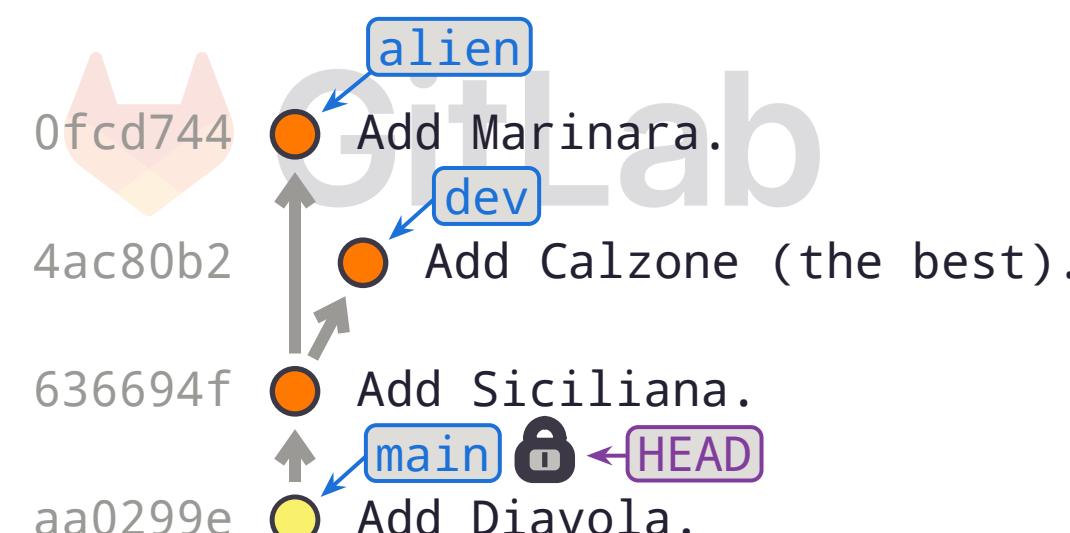


siciliana.md



calzone.md

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gitlab

\$ git checkout dev



pizzas/



.git/



README.md



margherita.md



regina.md



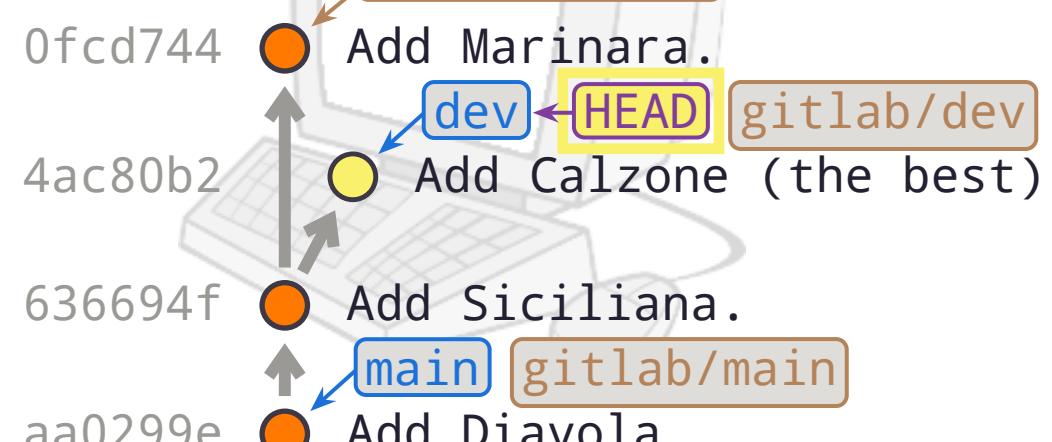
diavola.md



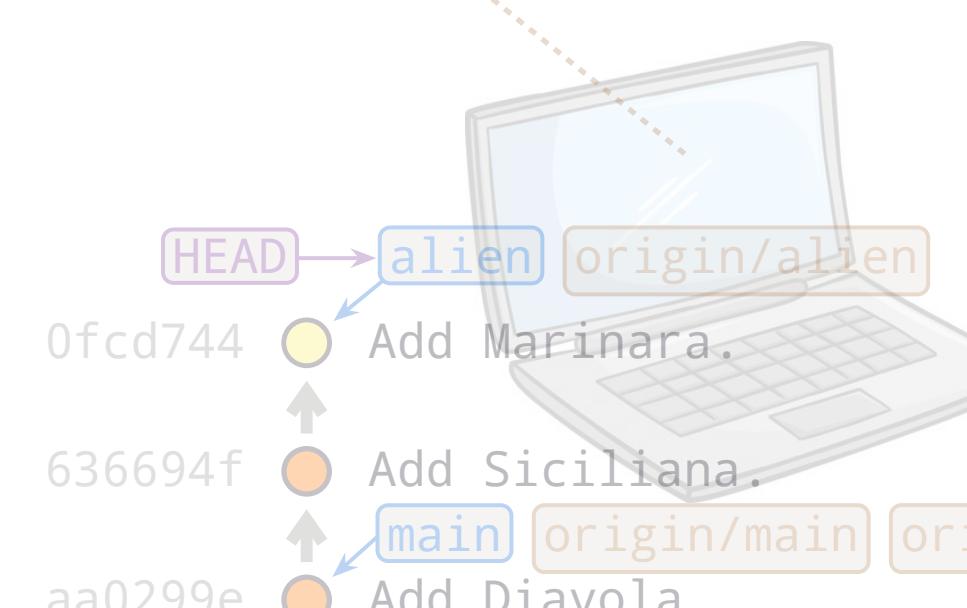
siciliana.md



marinara.md

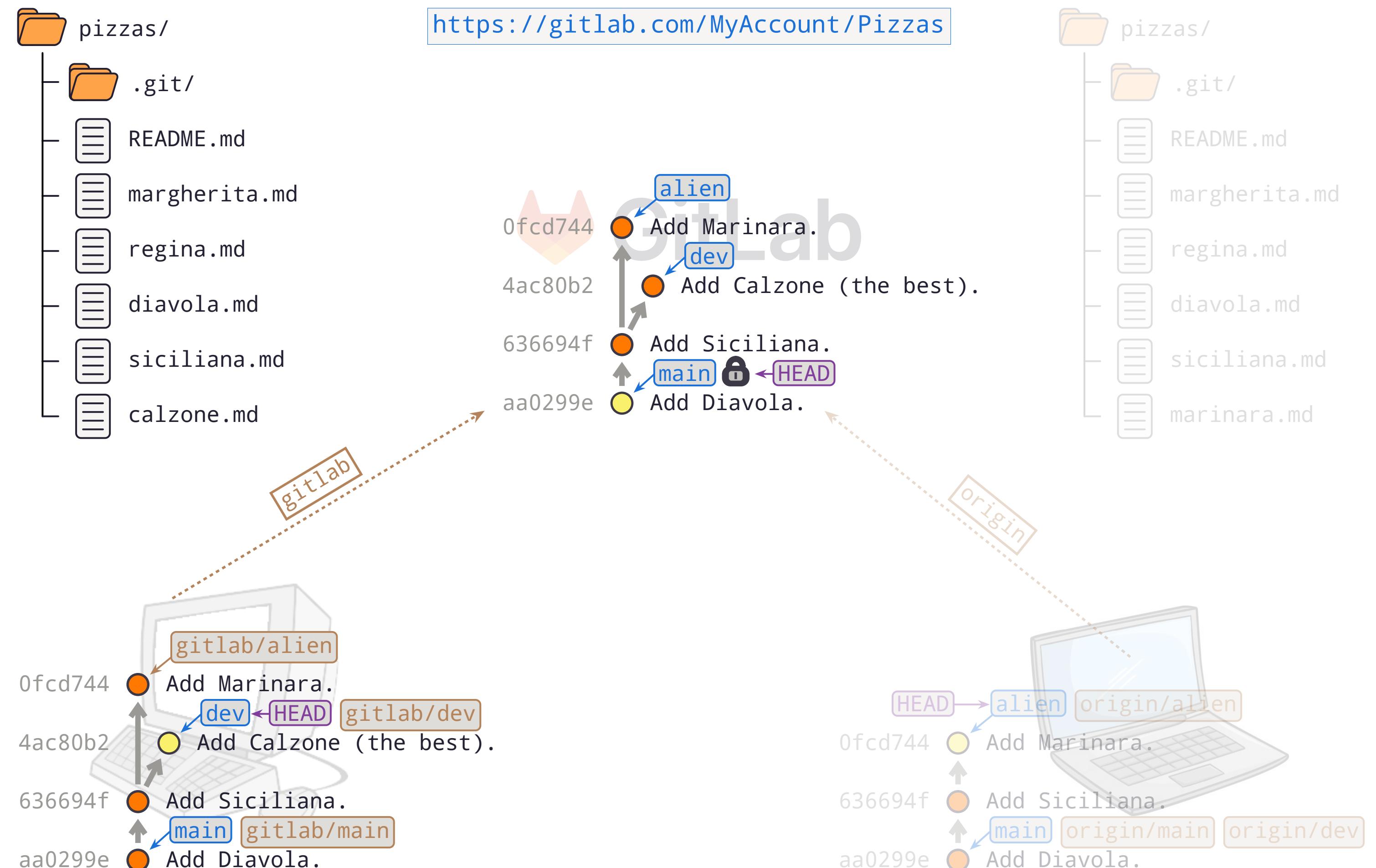


origin



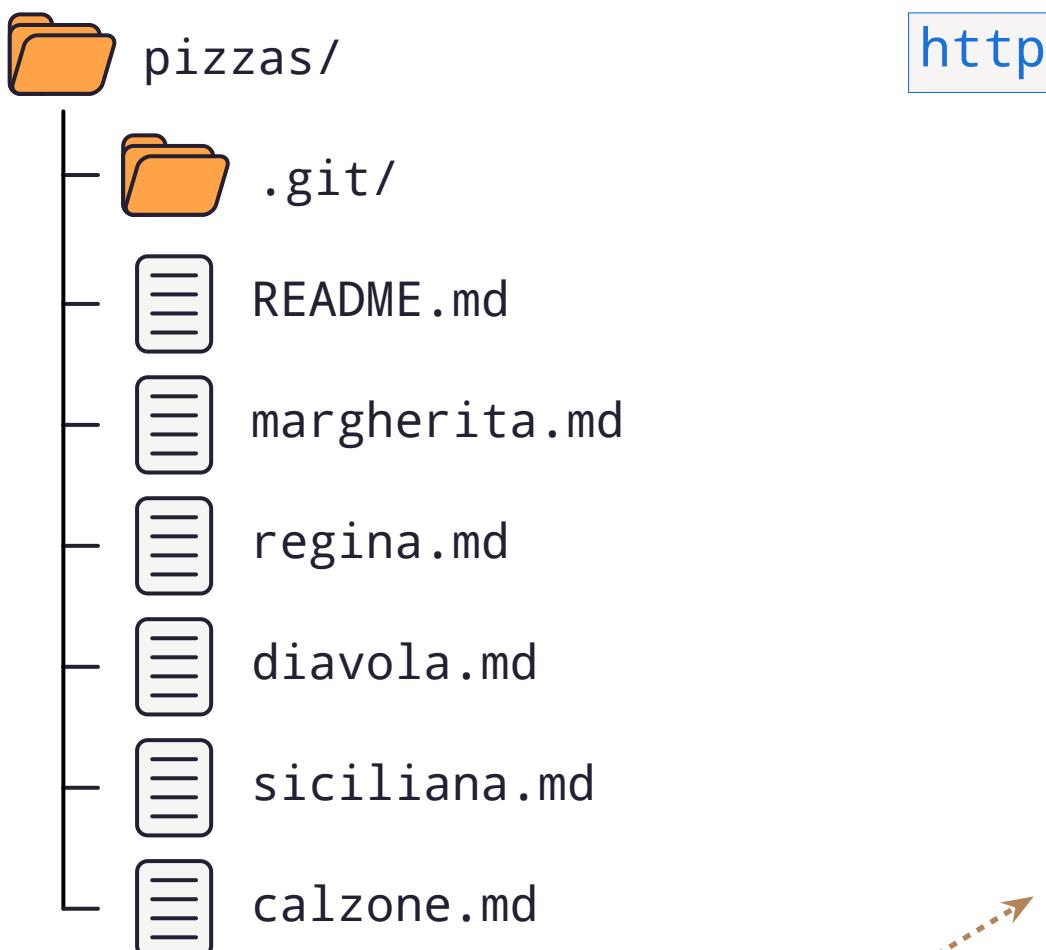
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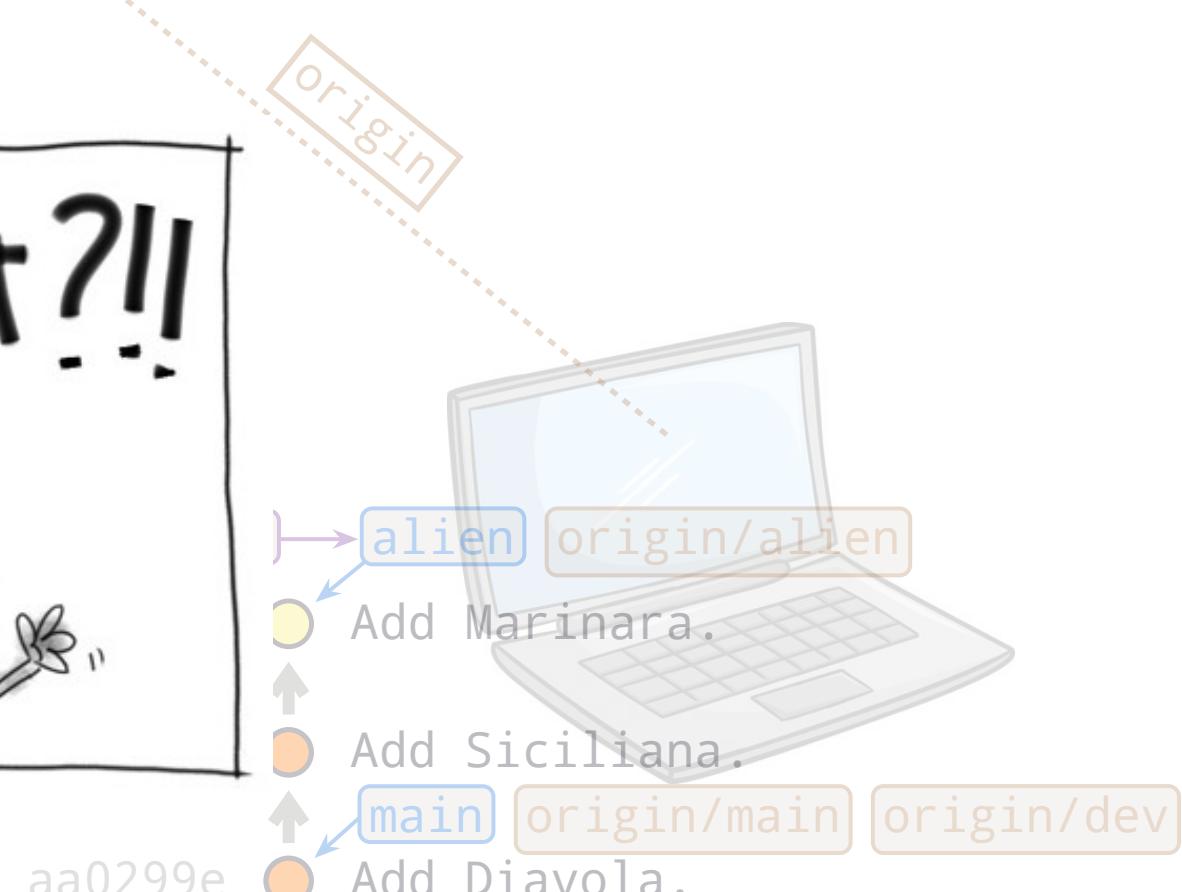
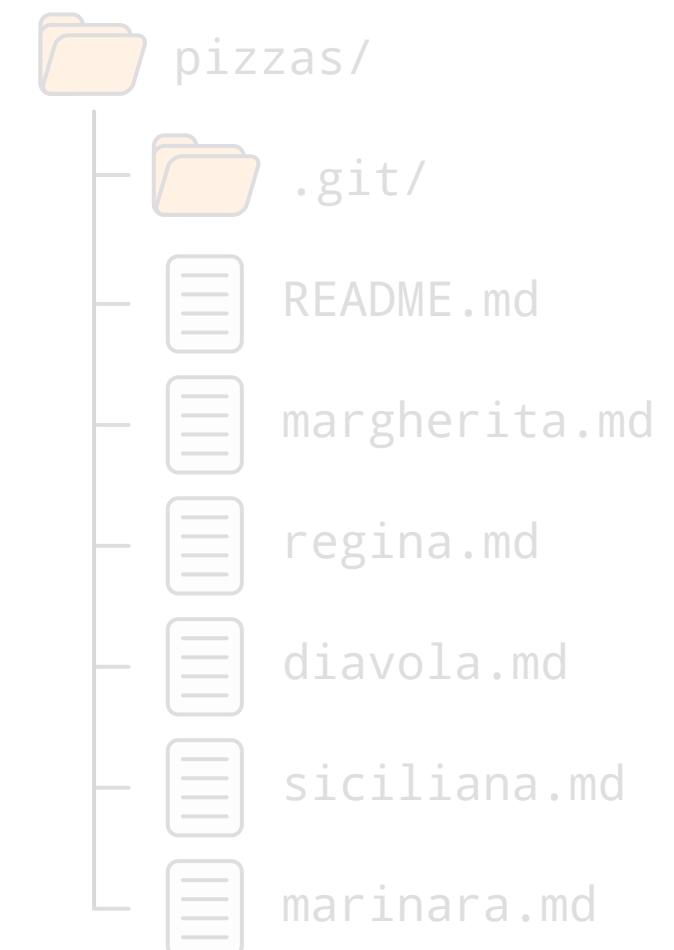
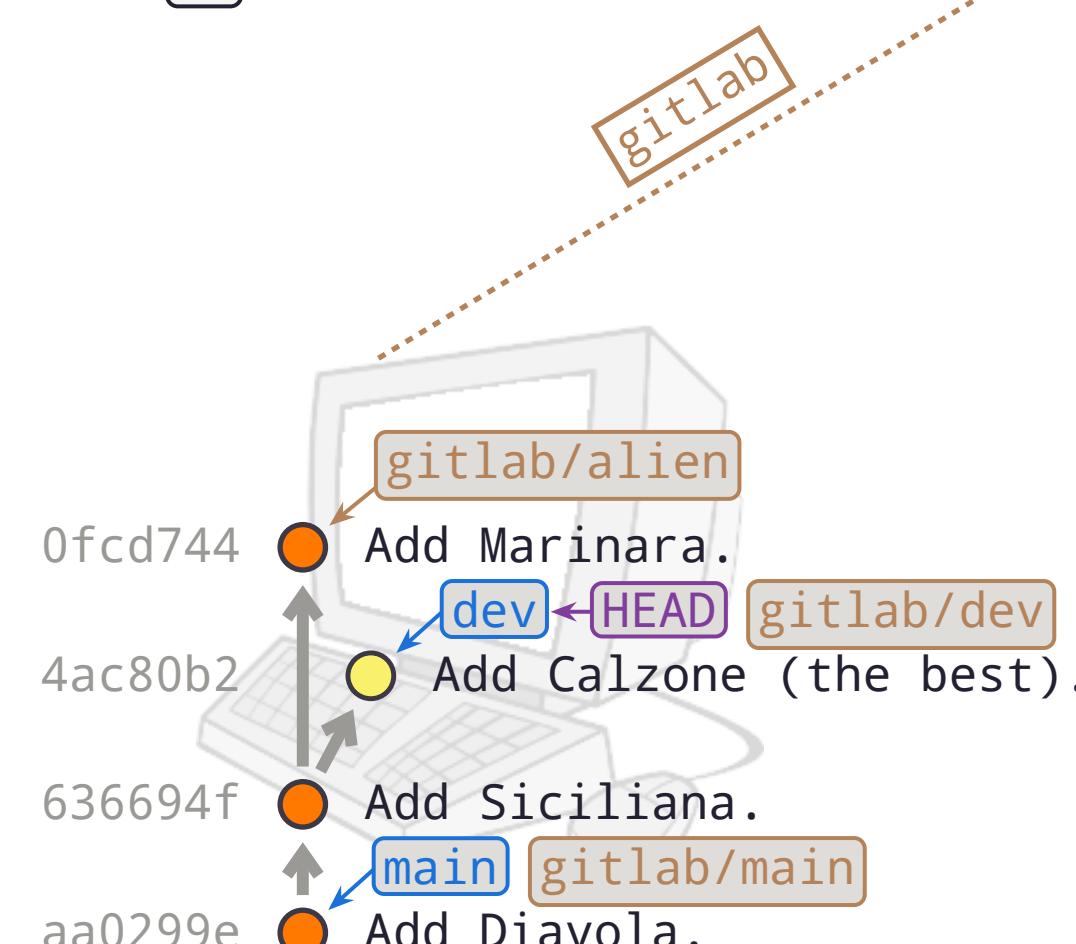
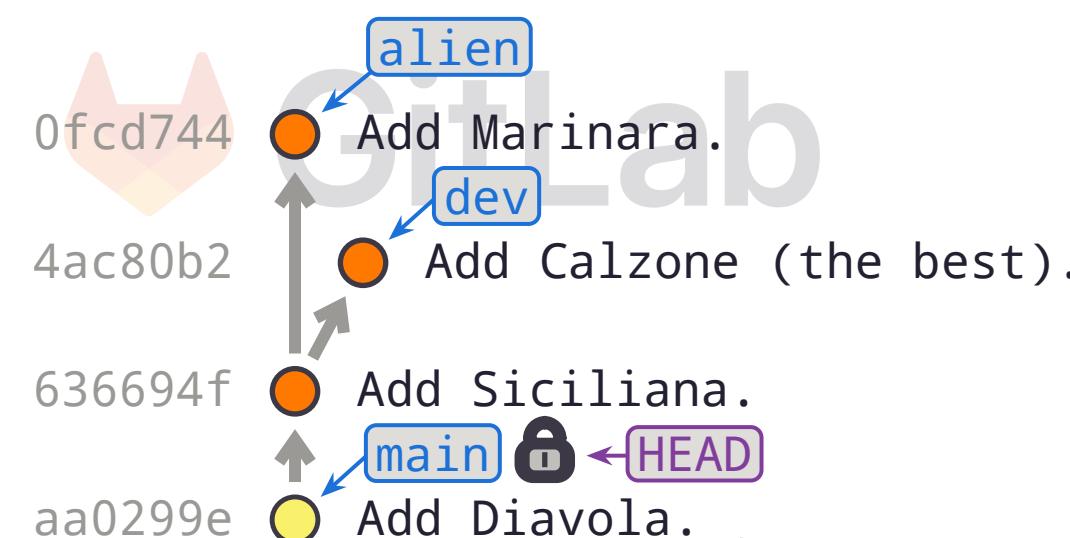


# Collaborate

When you Diverge



<https://gitlab.com/MyAccount/Pizzas>



# Conflicts



# Resolve Conflicts

What a “Conflict” Means

# Resolve Conflicts

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no change

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no conflicts  
*(happy zone)*  
:-)

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change on one side

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change on both sides

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disjoint lines

# Resolve Conflicts

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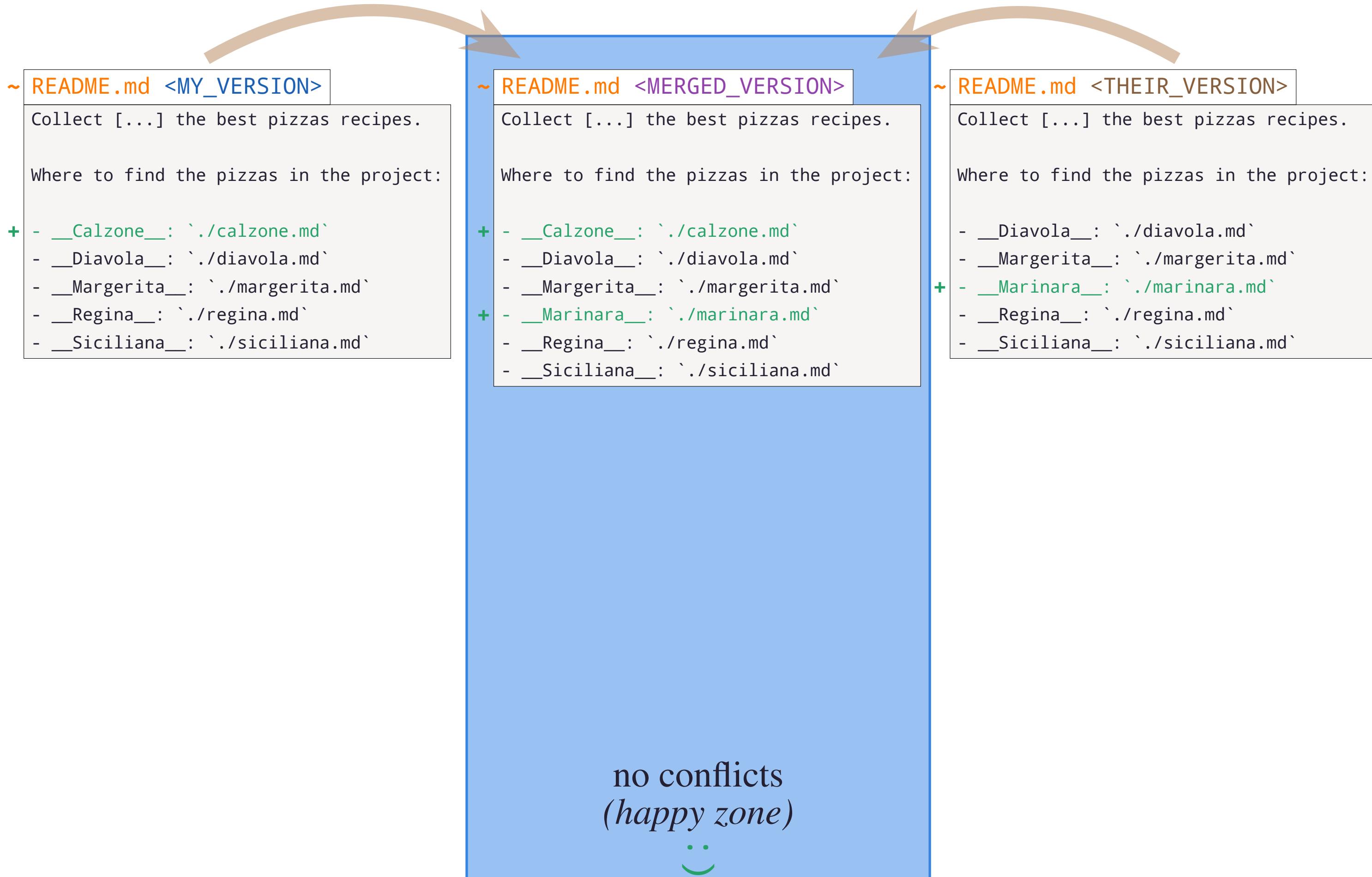
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no conflicts  
*(happy zone)*  
:-)

# Resolve Conflicts

## What a “Conflict” Means



# Resolve Conflicts

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no conflicts  
(*happy zone*)  
:-)

# Resolve Conflicts

## What a “Conflict” Means

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inline changes?

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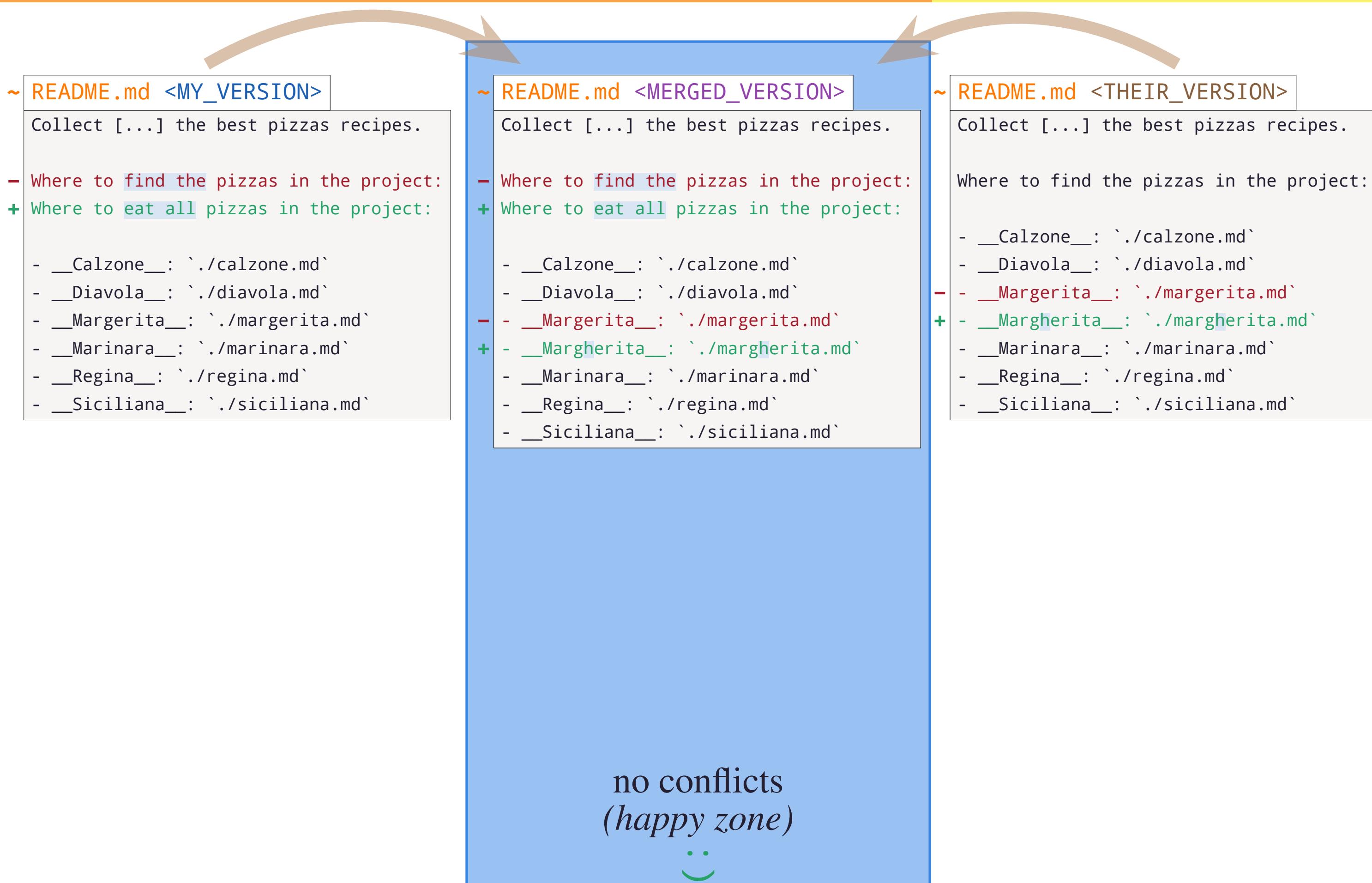
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disjoint lines

# Resolve Conflicts

## What a “Conflict” Means



# Resolve Conflicts

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😊

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no conflicts  
(*happy zone*)  
:-)

# Resolve Conflicts

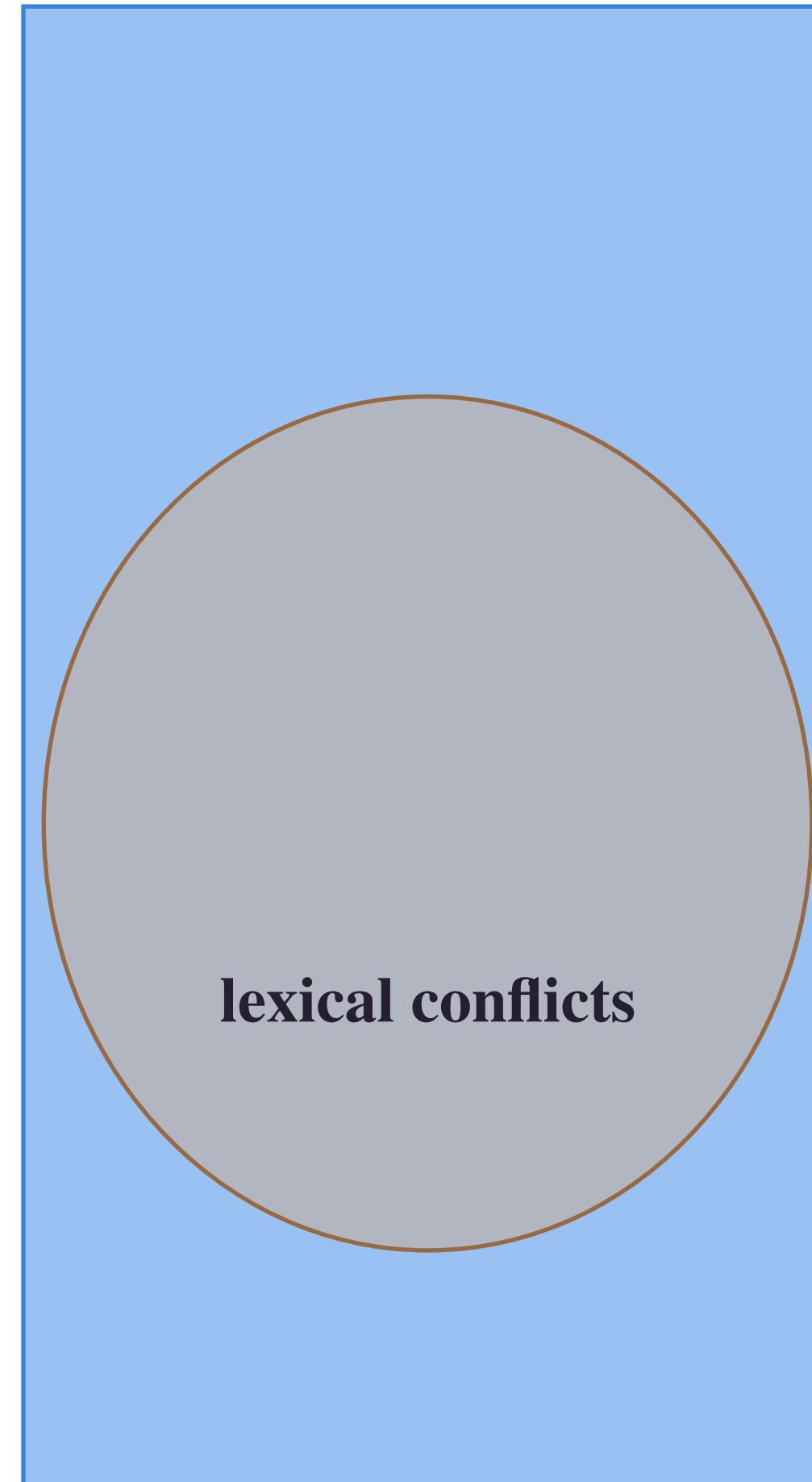
What a “Conflict” Means

no conflicts  
*(happy zone)*



# Resolve Conflicts

What a “Conflict” Means



# Resolve Conflicts

What a “Conflict” Means

suprise.md <MY\_VERSION>

```
# The SURPRISE pizza
```

A wonderful suprise of the dev team  
dedicated just to your fancy  
thirst for fortune and originality <3

\_\_Base:\_\_ sour cream

\_\_Topping:\_\_

- Garlic
- Basil
- eggplant
- Hazelnuts



# Resolve Conflicts

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lexical conflicts

# Resolve Conflicts

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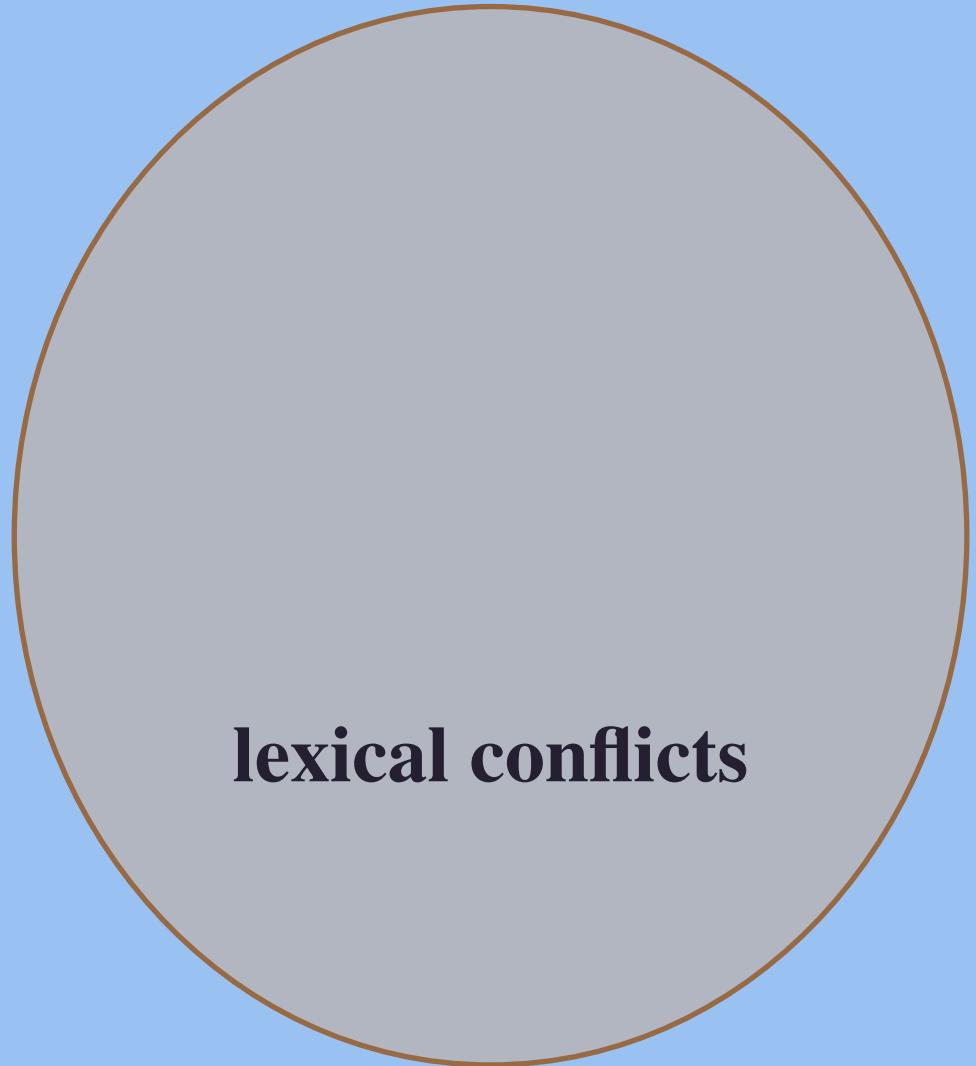
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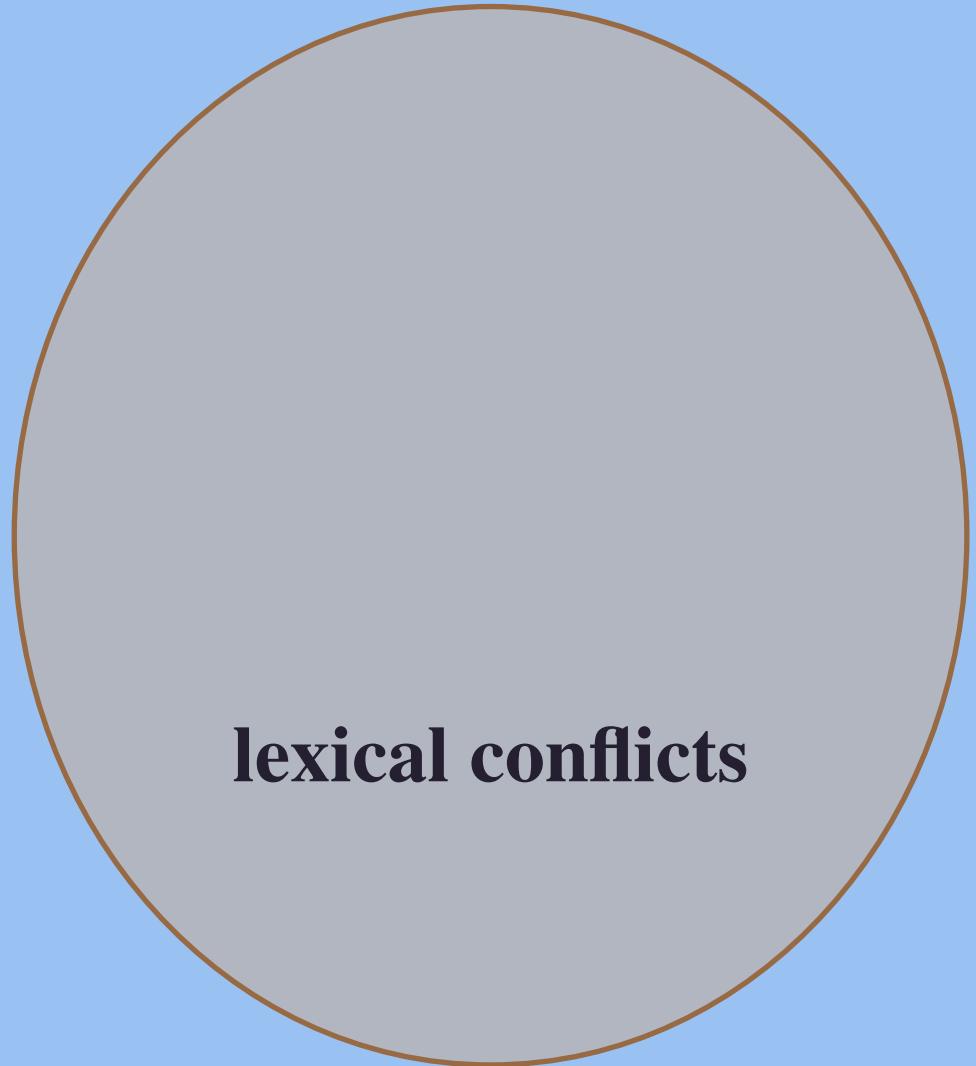
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**lexical conflicts**

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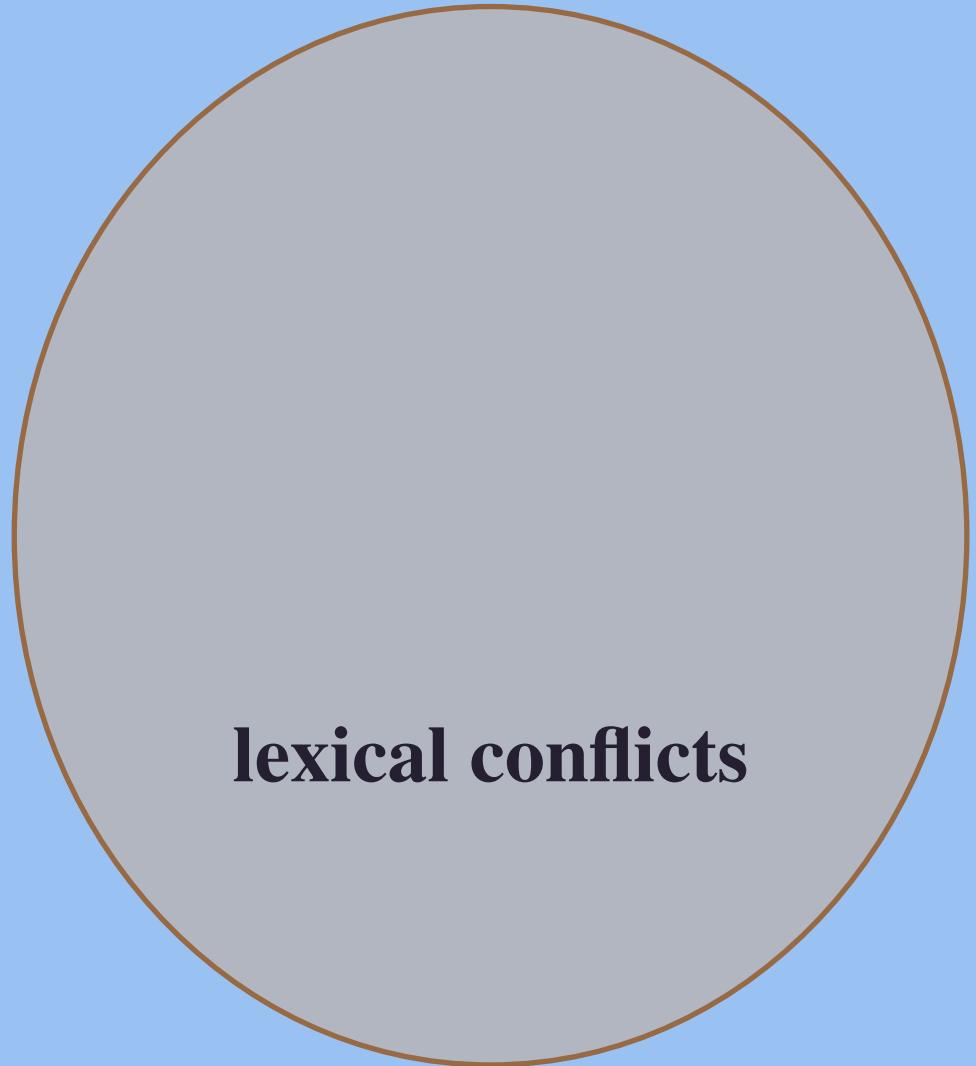
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! same lines !

**lexical conflicts**

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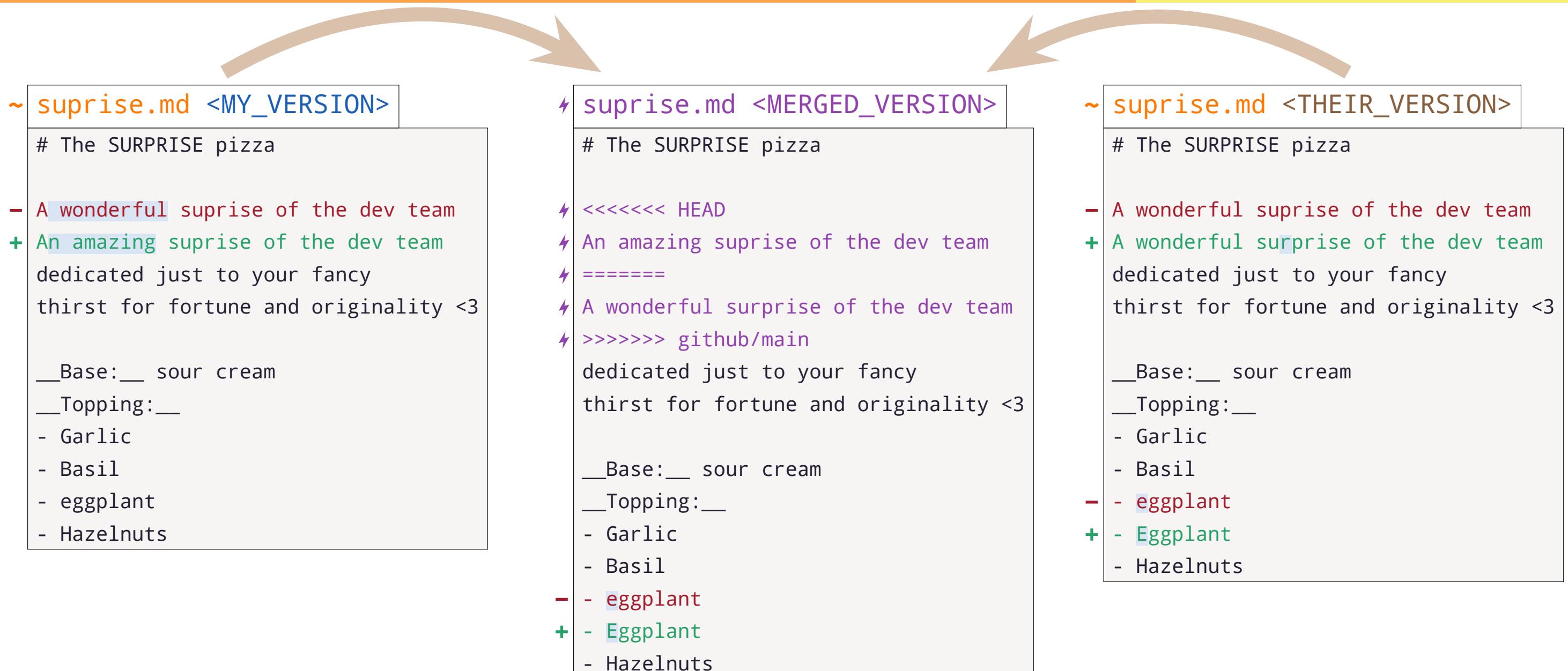
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**lexical conflicts**  
>> git conflicts <<

# Resolve Conflicts

## What a “Conflict” Means



# Resolve Conflicts

## What a “Conflict” Means

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⚡ suprise.md <MERGED\_VERSION>

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Human, you are in charge now.

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Think, think, think.

Human, you are in charge now.

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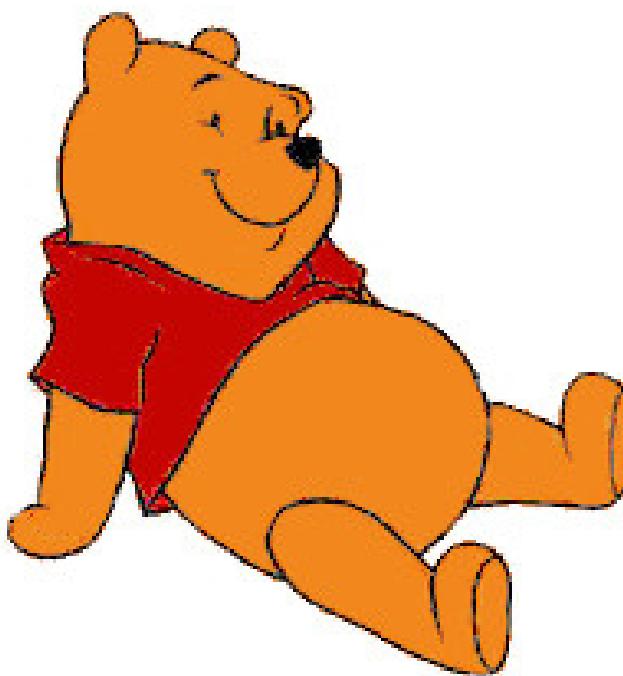
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- Garlic
- Basil
- Eggplant
- Hazelnuts
```

suprise.md <THEIR\_VERSION>

```
# The SURPRISE pizza

An amazing surprise of the dev team
dedicated just to your fancy
thirst for fortune and originality <3

__Base:__ sour cream
__Topping:__
- Garlic
- Basil
- Eggplant
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```



Human, you are in charge now.

# Resolve Conflicts

## What a “Conflict” Means

suprise.md <MY\_VERSION>

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```
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**semantic conflicts**

suprise.md <THEIR\_VERSION>

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```
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# Resolve Conflicts

## What a “Conflict” Means

```
~ surprise.md <MY_VERSION>
```

```
- # The SURPRISE pizza
```

```
+ # The SURPRISE vegetarian pizza
```

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\_\_Topping:\_\_

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## semantic conflicts

```
~ surprise.md <THEIR_VERSION>
```

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```
+ Bacon
```

- Hazelnuts

# Resolve Conflicts

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~ surprise.md <MY_VERSION>
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semantic conflicts  
disjoint lines

# Resolve Conflicts

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~ surprise.md <MY_VERSION>
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### semantic conflicts

disjoint lines

### lexical conflicts

```
~ surprise.md <THEIR_VERSION>
```

```
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+ Bacon

- Hazelnuts

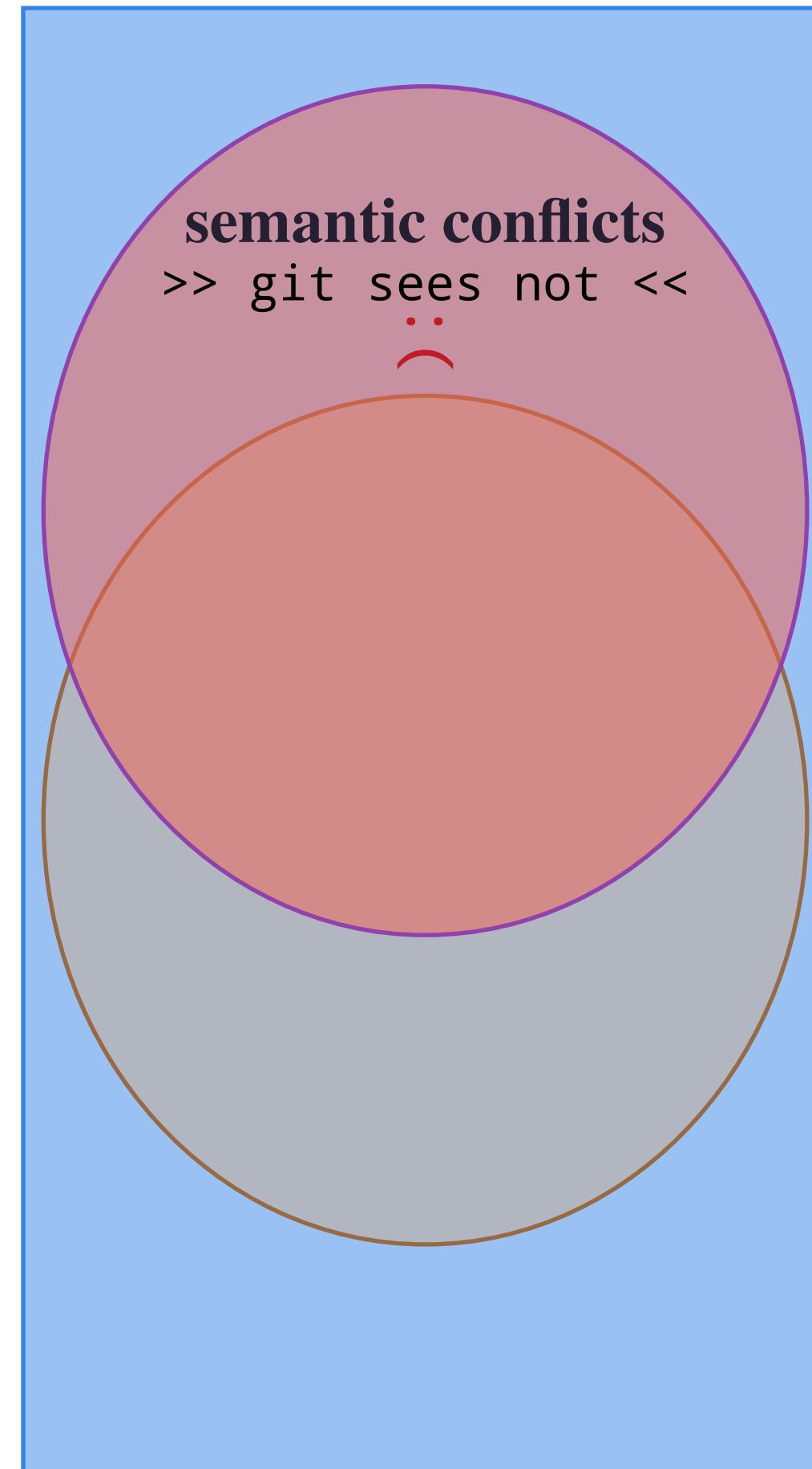
# Resolve Conflicts

## What a “Conflict” Means

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# Resolve Conflicts

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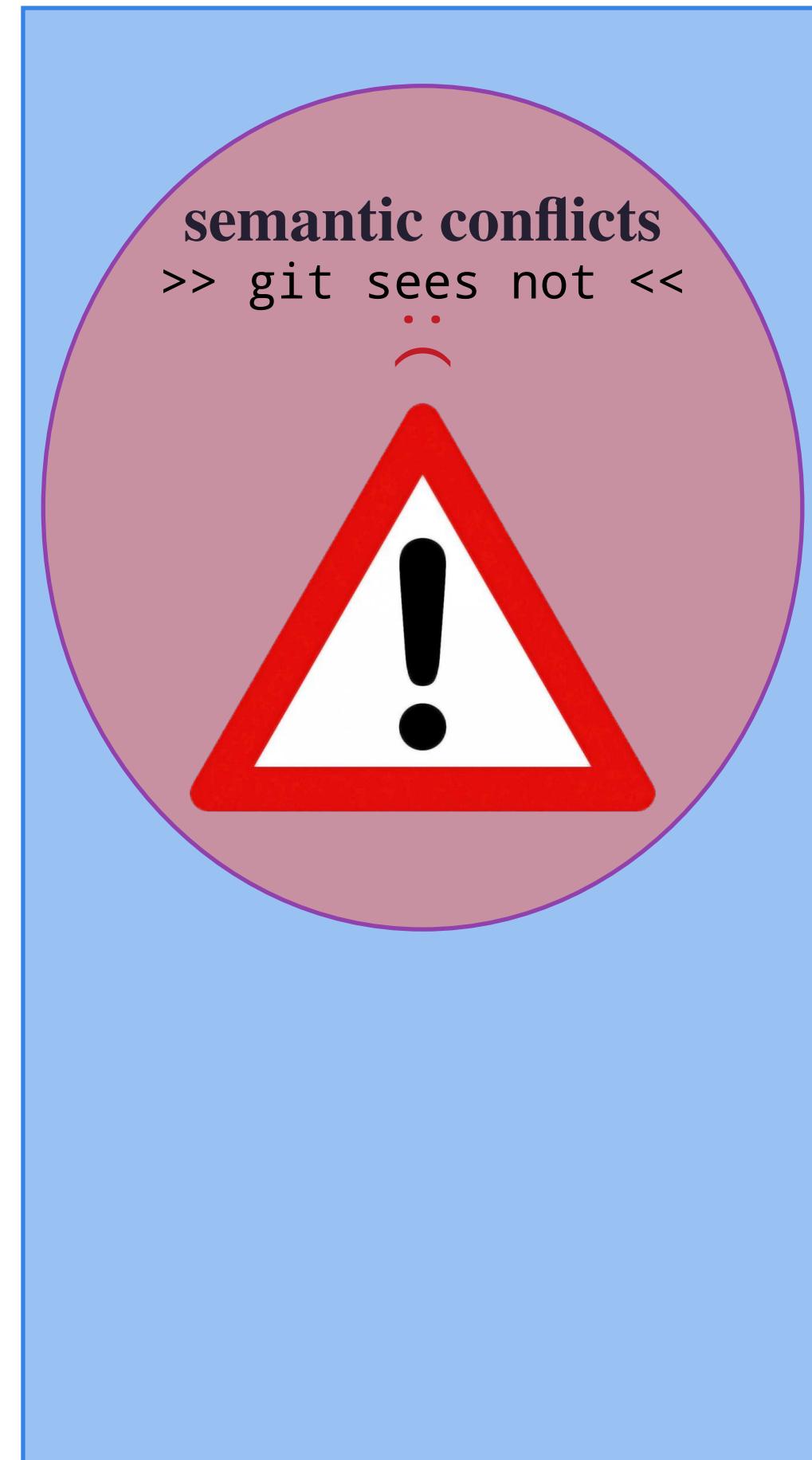
- Garlic

- Basil

- Eggplant

```
+ - Bacon
```

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# Resolve Conflicts

## What a “Conflict” Means

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surprise.md <MERGED\_VERSION>

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So keep this in mind:

# Resolve Conflicts

## What a “Conflict” Means

suprise.md <MY\_VERSION>

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no conflicts  
*(happy zone)*  
:-)

# Resolve Conflicts

What a “Conflict” Means

suprise.md <MY\_VERSION>

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suprise.md <THEIR\_VERSION>

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# Resolve Conflicts

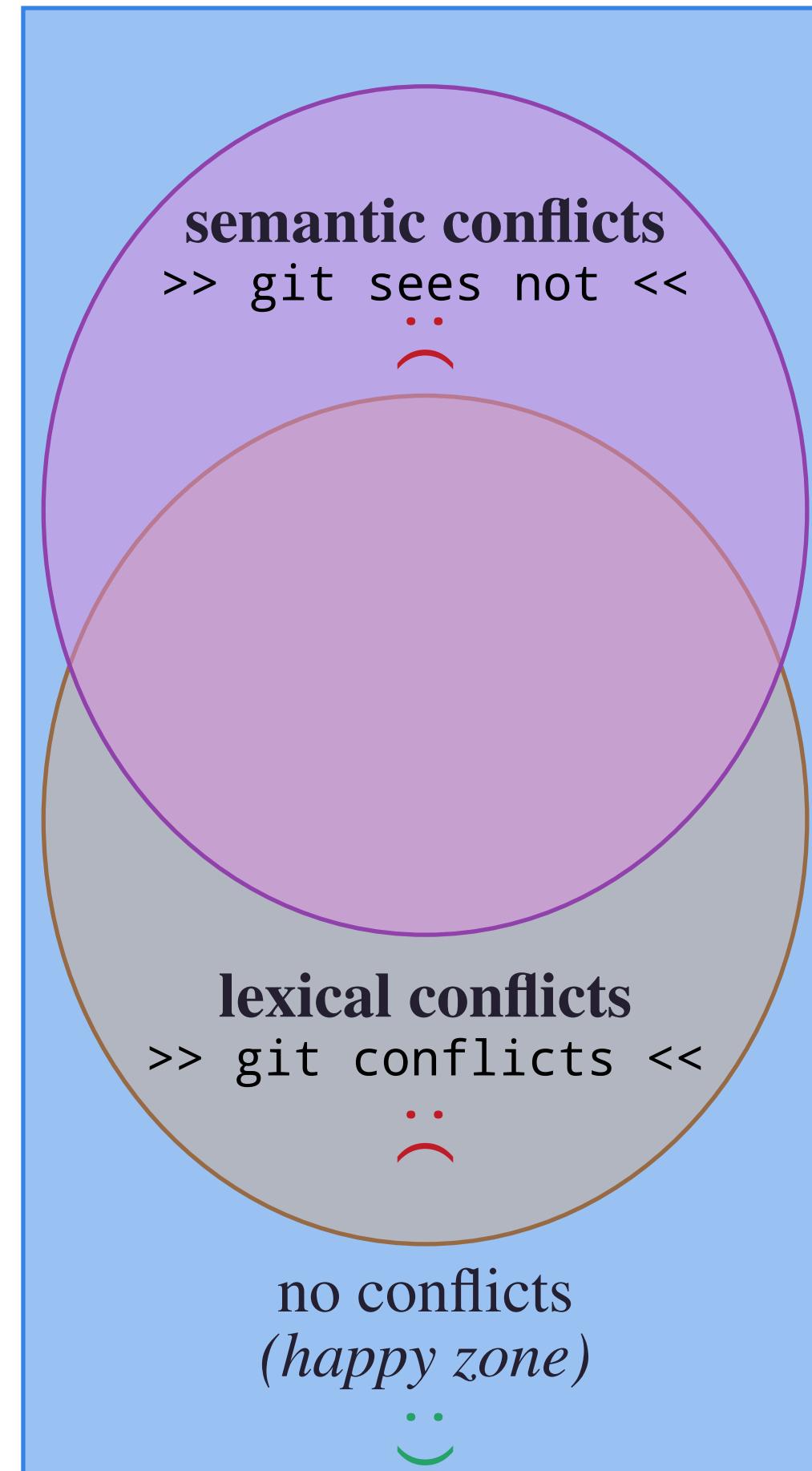
## What a “Conflict” Means

surprise.md <MY\_VERSION>

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surprise.md <THEIR\_VERSION>

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# Resolve Conflicts

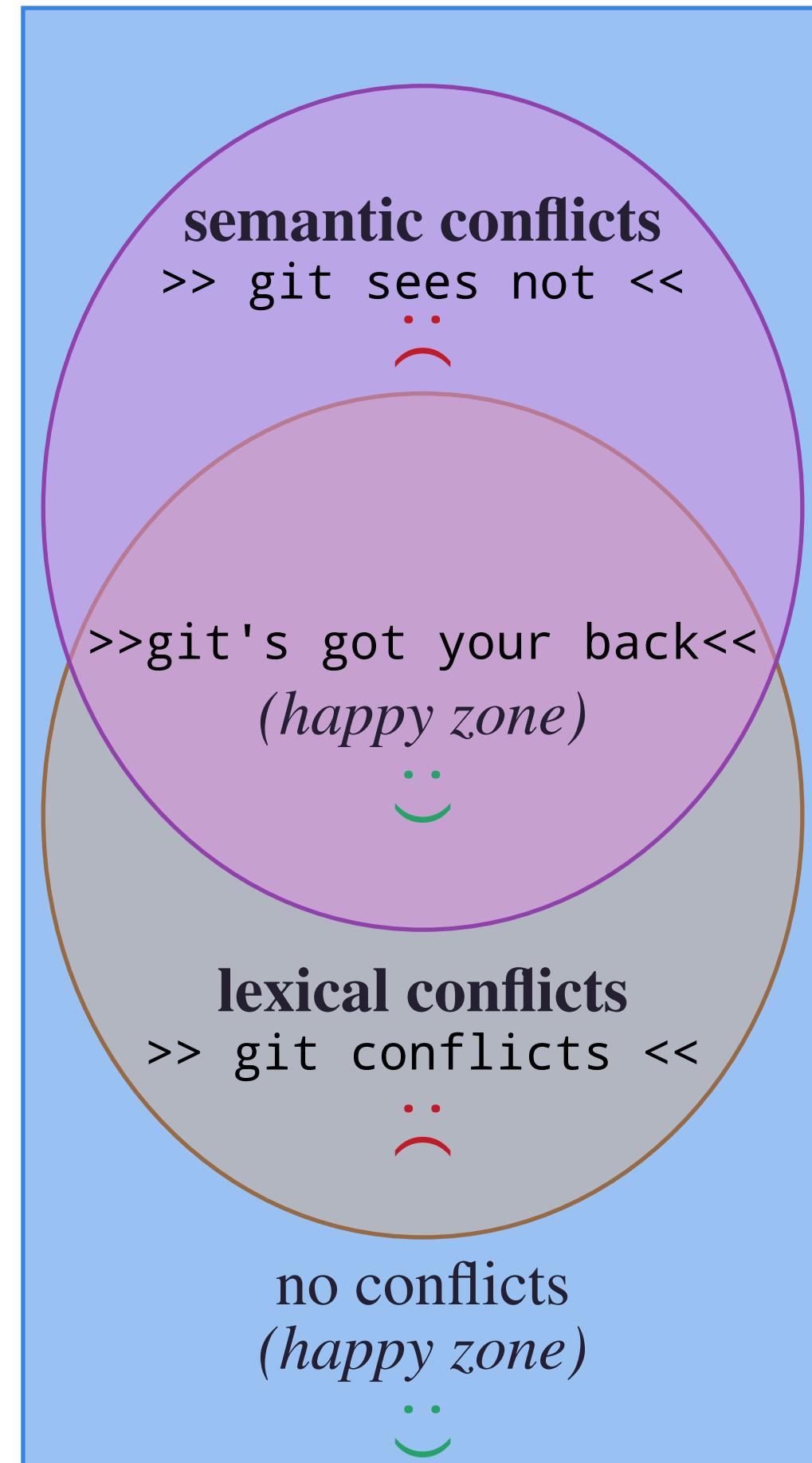
What a “Conflict” Means

surprise.md <MY\_VERSION>

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surprise.md <THEIR\_VERSION>

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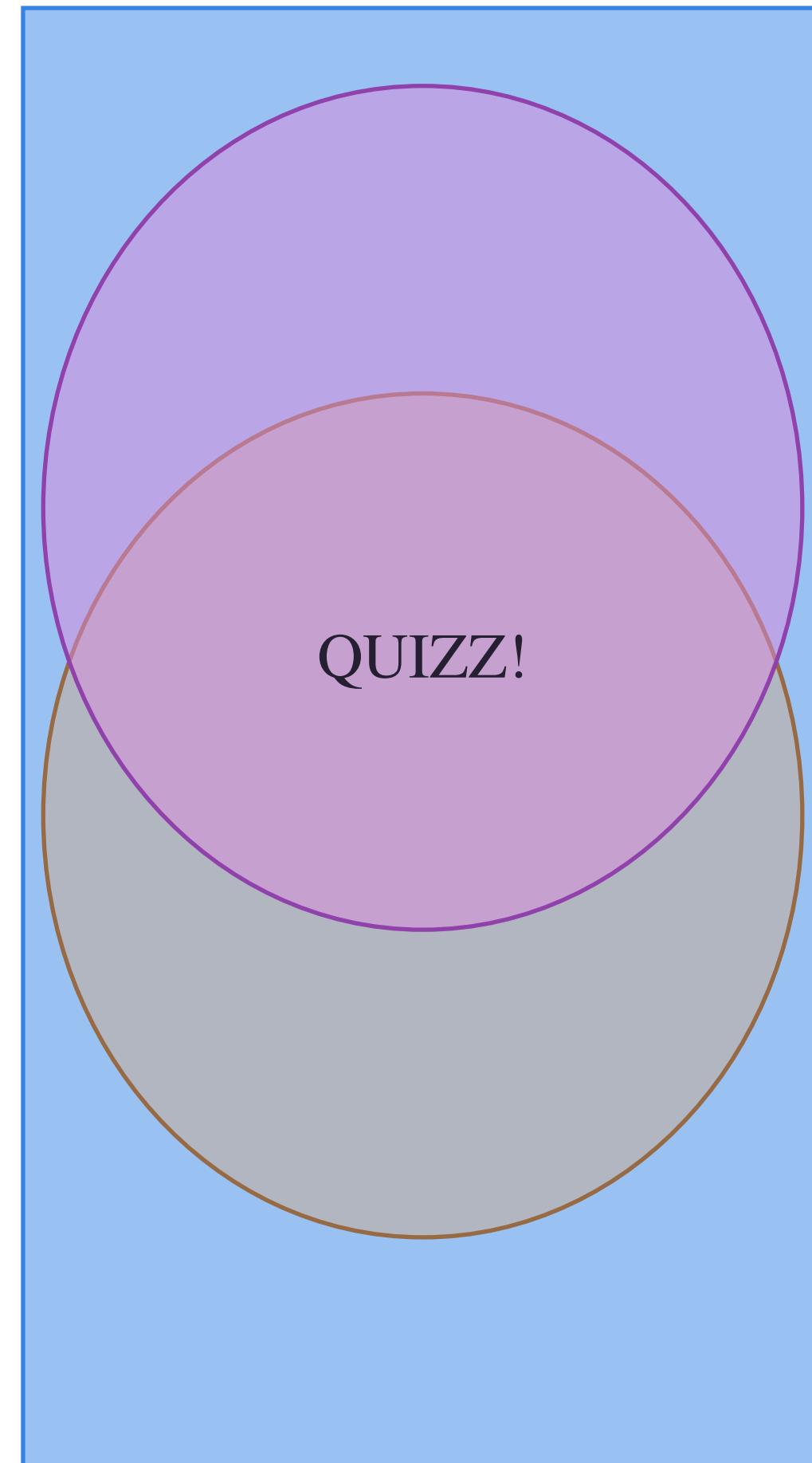
```
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suprise.md <THEIR\_VERSION>

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# Resolve Conflicts

## What a “Conflict” Means

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+ craave for fortune and originality <3

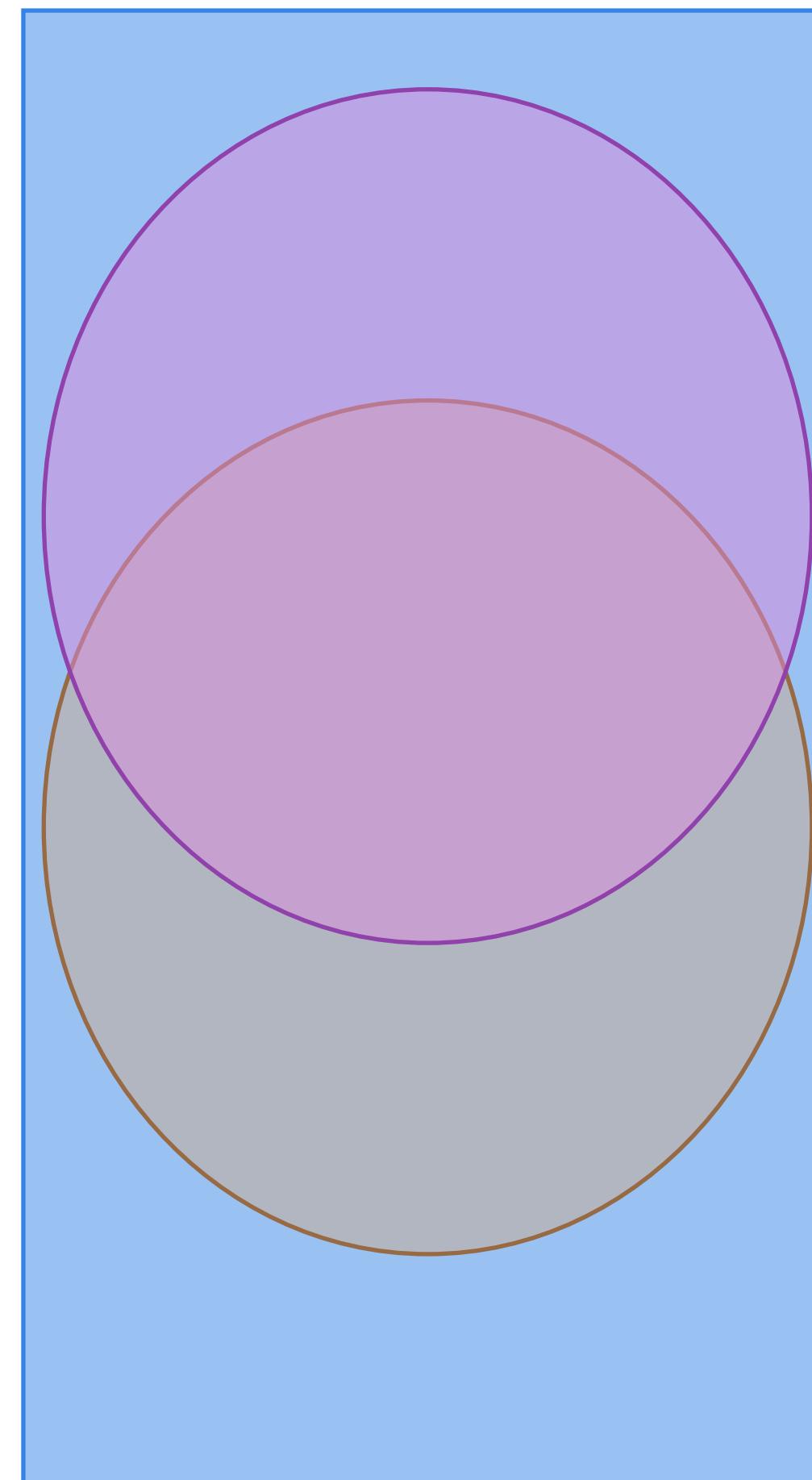
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# Resolve Conflicts

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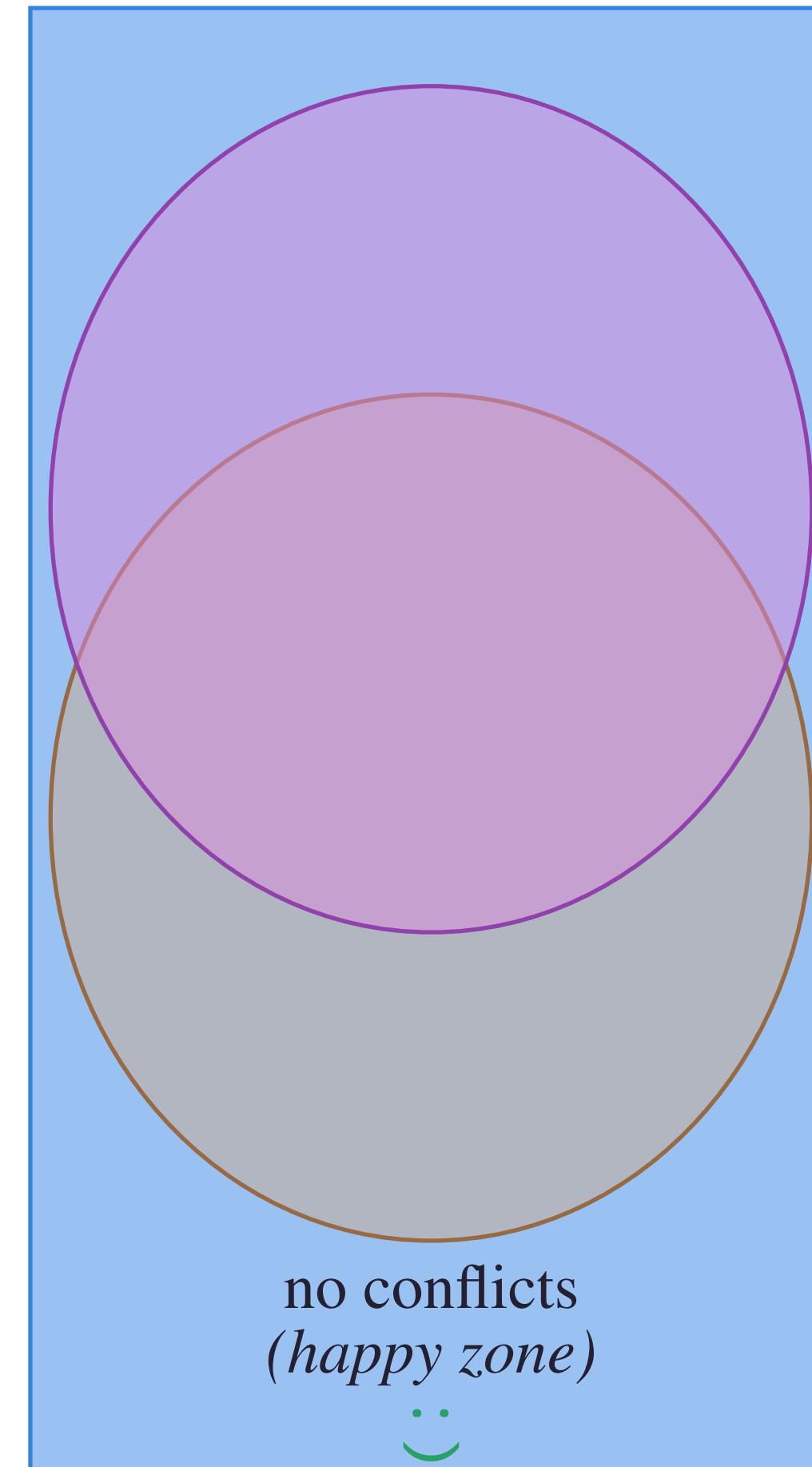
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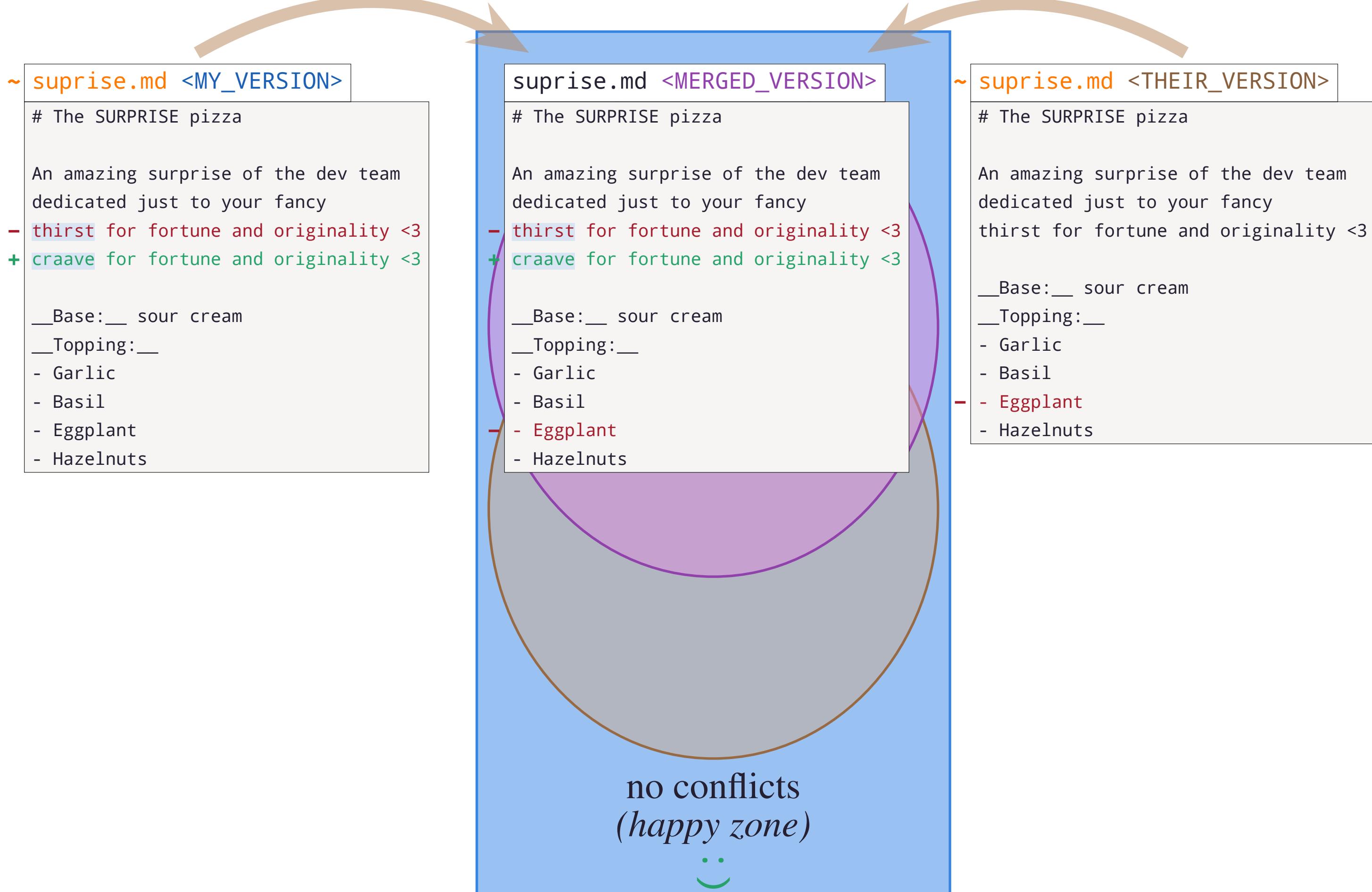
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# Resolve Conflicts

## What a “Conflict” Means



# Resolve Conflicts

## What a “Conflict” Means

~ `suprise.md <MY_VERSION>`

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no conflicts  
(*happy zone*)  
:-)

# Resolve Conflicts

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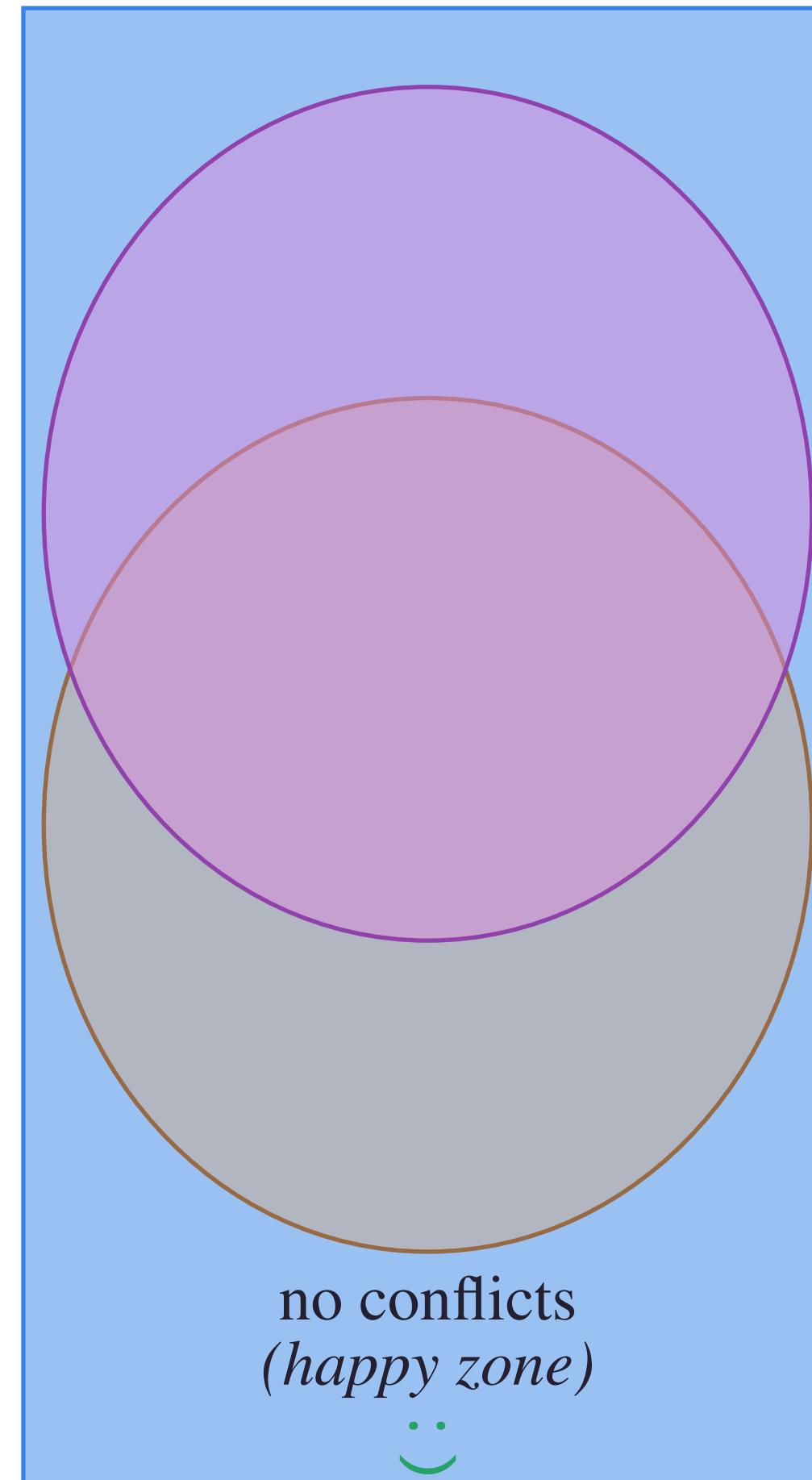
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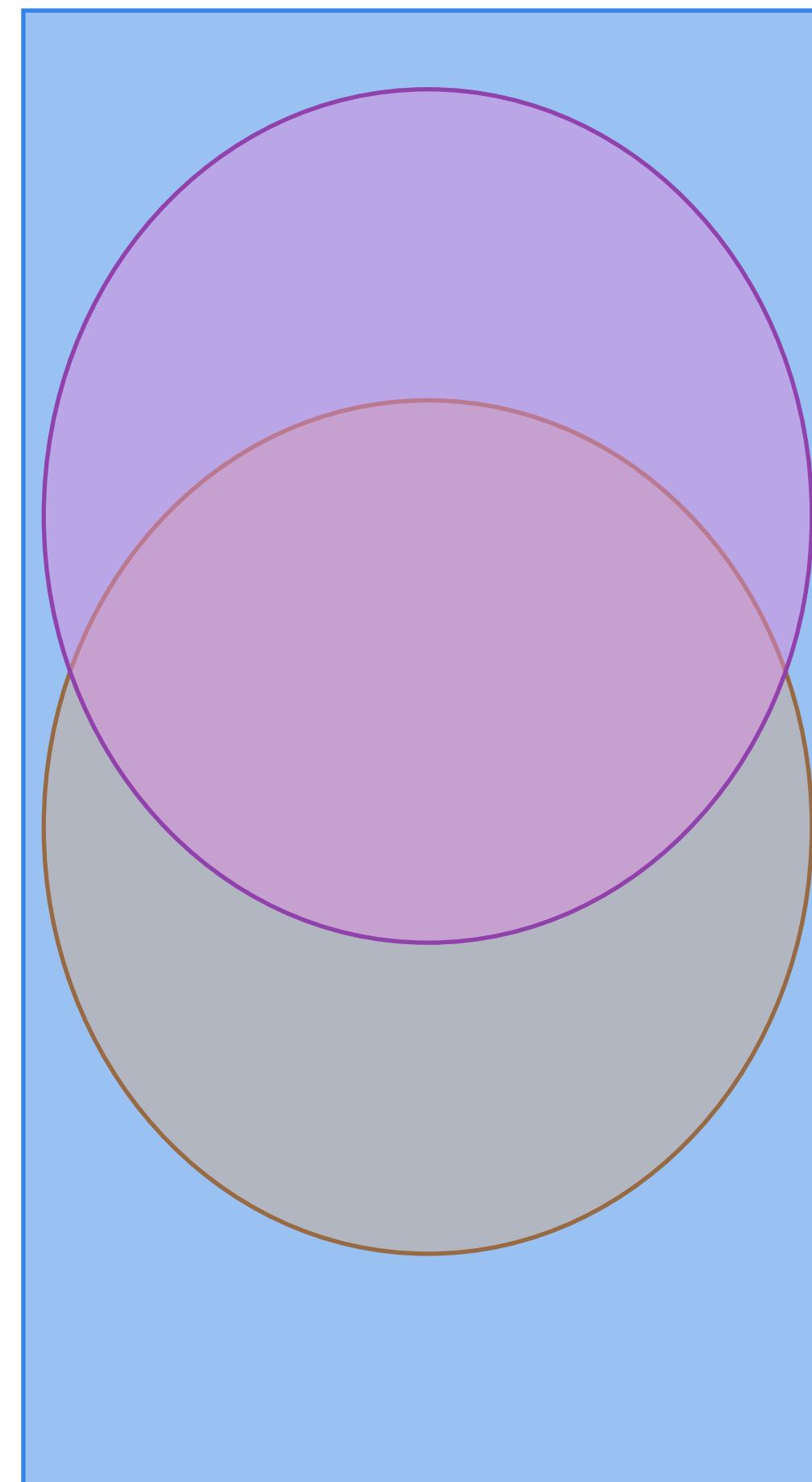
- __Base:__ sour cream
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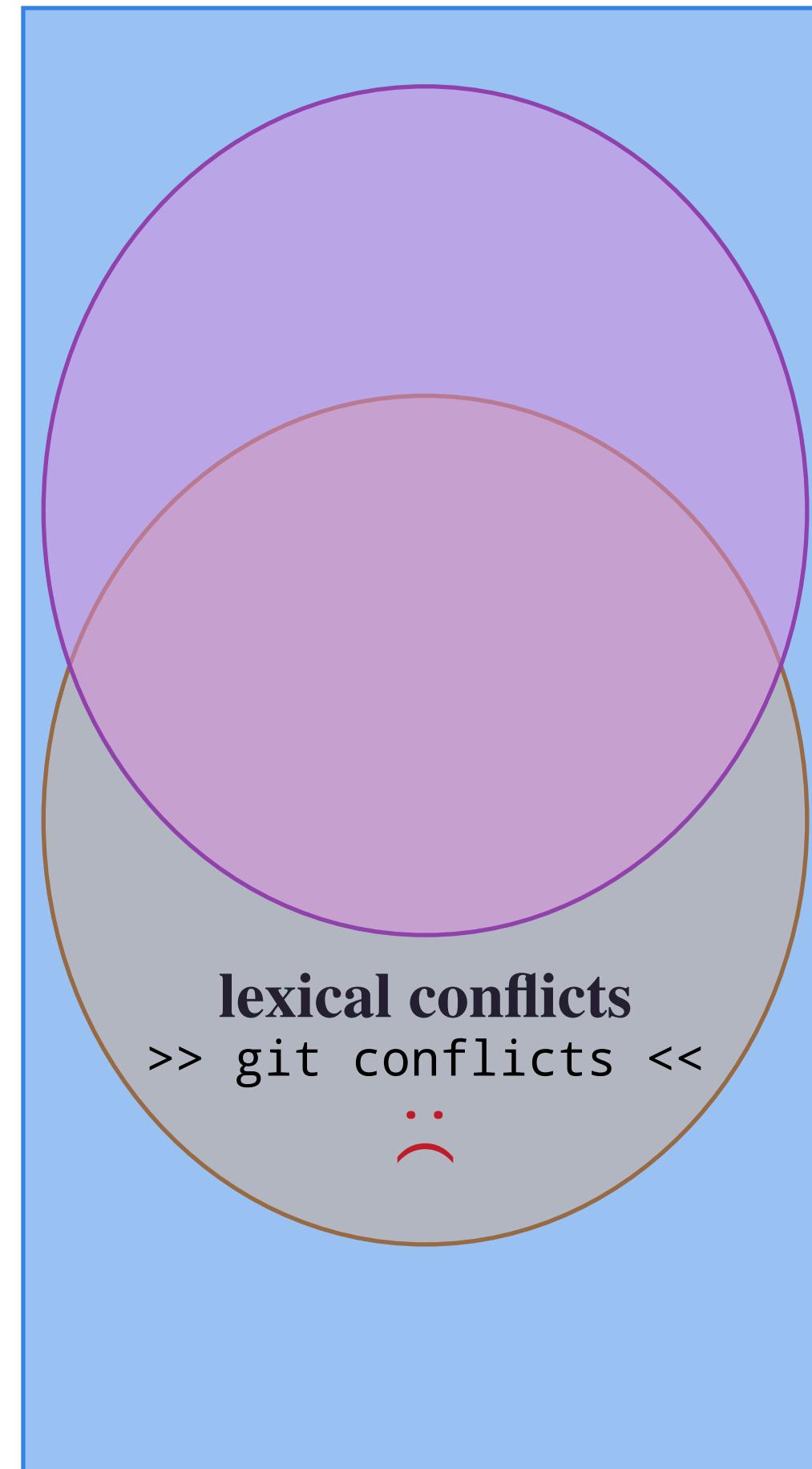
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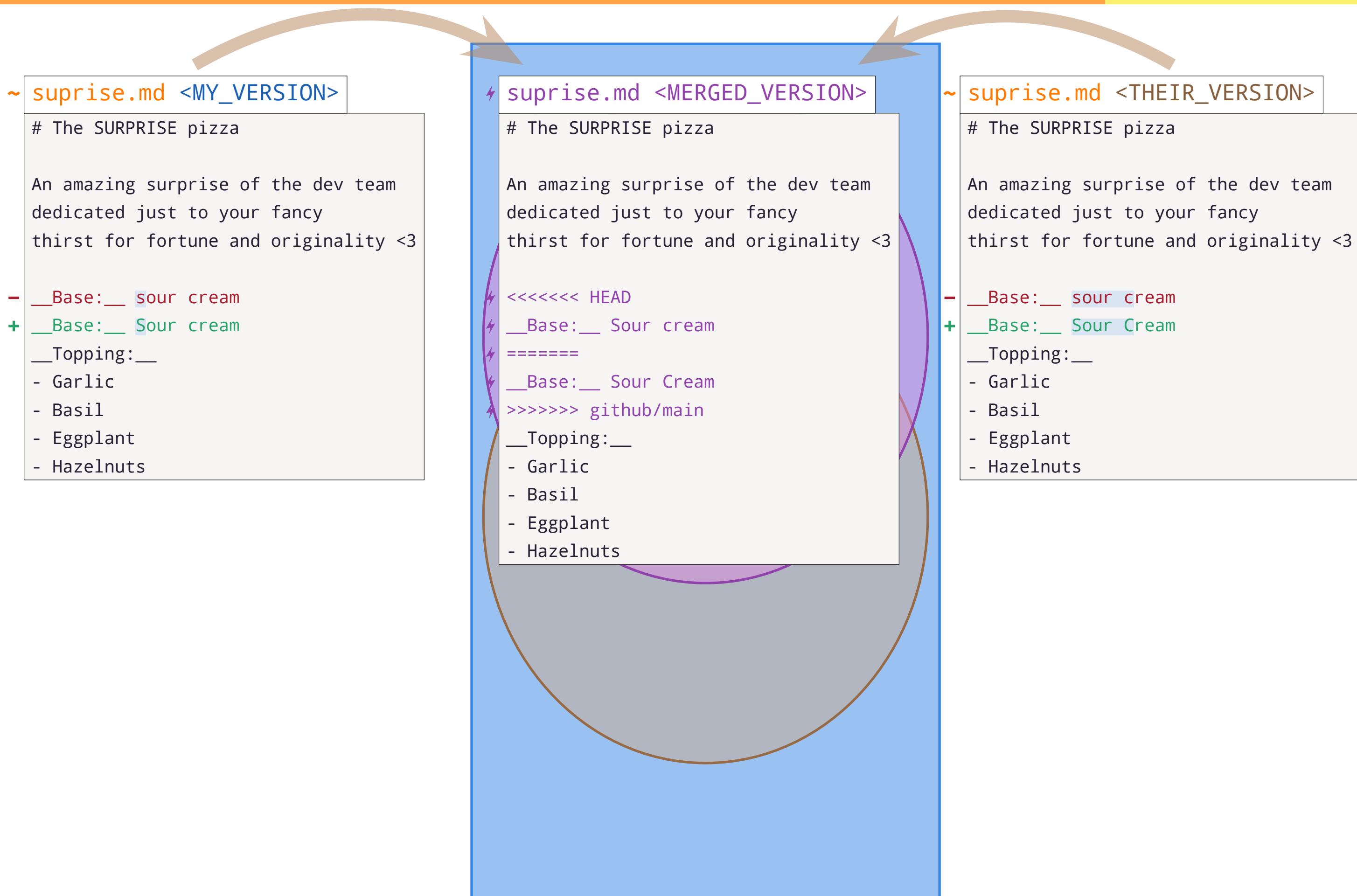
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# Resolve Conflicts

## What a “Conflict” Means



# Resolve Conflicts

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Think, think, think.

~ surprise.md <MERGED\_VERSION>

```
# The SURPRISE pizza

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<<<<< HEAD
__Base:__ Sour cream
=====
__Base:__ Sour Cream
>>>> github/main
__Topping:__
- Garlic
- Basil
- Eggplant
- Hazelnuts
```

~ surprise.md <THEIR\_VERSION>

```
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⚡ surprise.md <MERGED\_VERSION>

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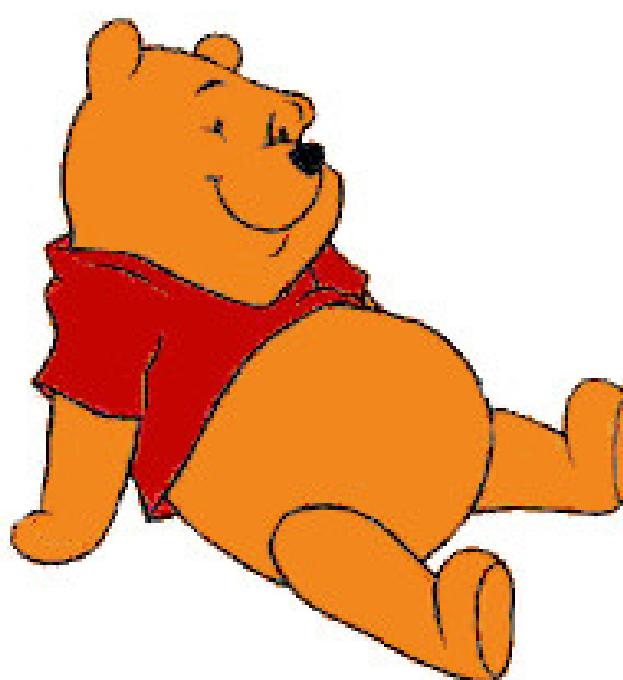
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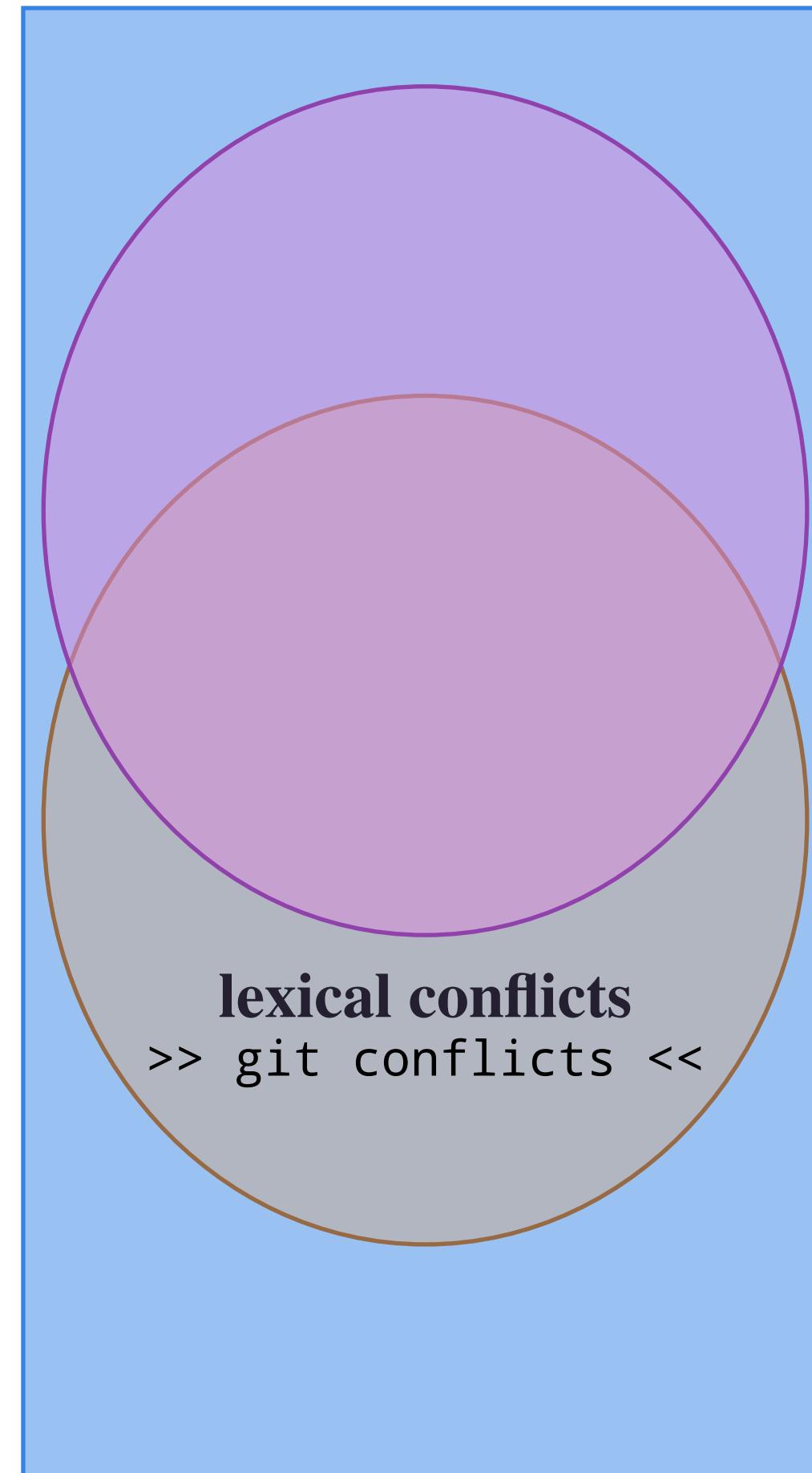
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suprise.md <THEIR\_VERSION>

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```

```
__Base:__ Sour Cream
__Topping:__
- Garlic
- Basil
- Eggplant
- Hazelnuts
```



# Resolve Conflicts

## What a “Conflict” Means

suprise.md <MY\_VERSION>

```
# The SURPRISE pizza

An amazing surprise of the dev team
dedicated just to your fancy
thirst for fortune and originality <3

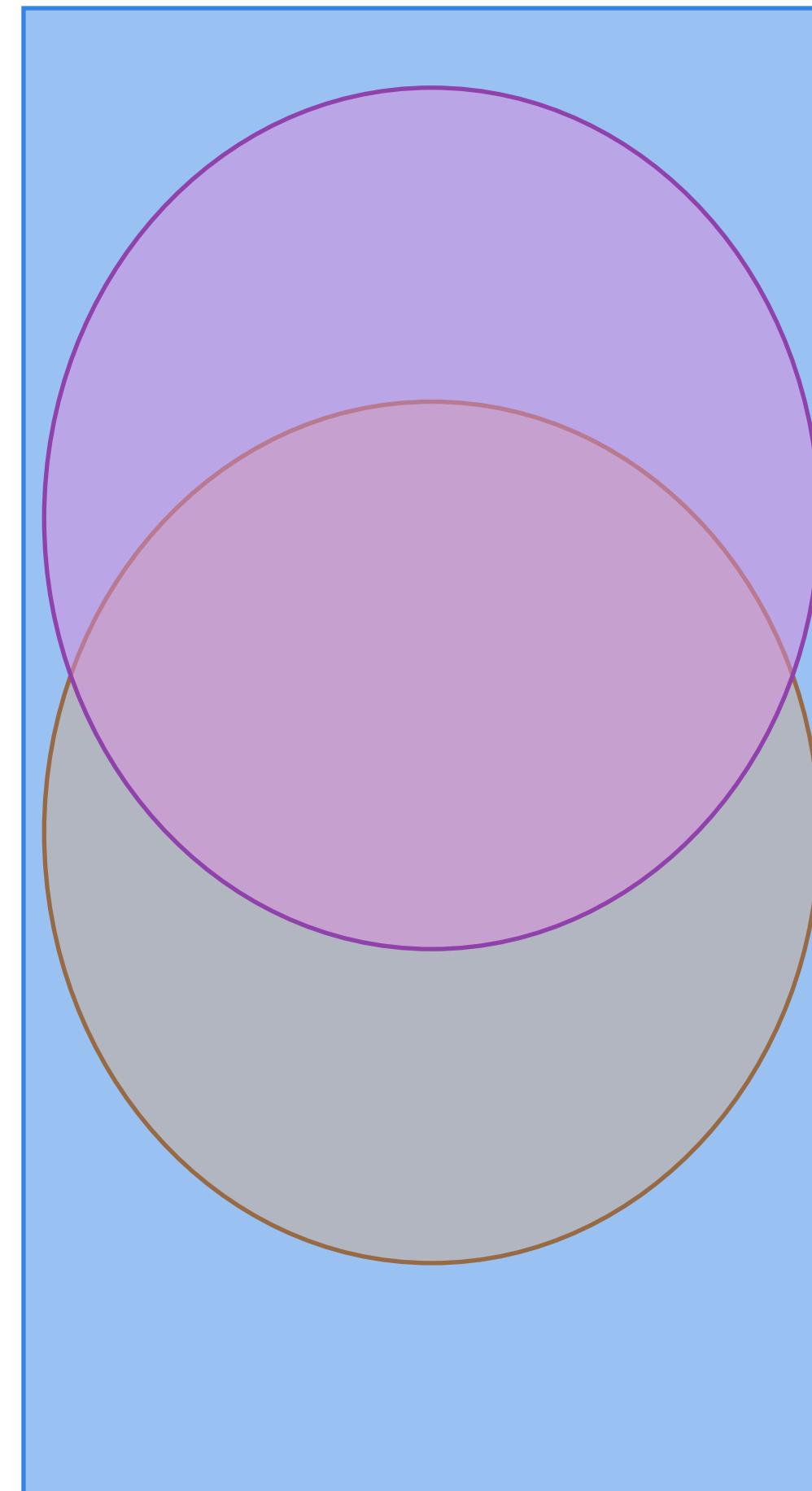
__Base:__ sour cream
__Topping:__
- Garlic
- Basil
- Eggplant
- Hazelnuts
```

~ suprise.md <THEIR\_VERSION>

```
# The SURPRISE pizza

- An amazing surprise of the dev team
+ An amazing surprise of the dev team,
+ a typical tomato-based pizza, but
dedicated just to your fancy
thirst for fortune and originality <3

__Base:__ sour cream
__Topping:__
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- Basil
- Eggplant
- Hazelnuts
```



# Resolve Conflicts

## What a “Conflict” Means

suprise.md <MY\_VERSION>

```
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__Topping:__
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- Basil
- Eggplant
- Hazelnuts
```

**semantic conflicts**  
->> git sees not <<

~ suprise.md <THEIR\_VERSION>

```
# The SURPRISE pizza

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# Resolve Conflicts

## What a “Conflict” Means

suprise.md <MY\_VERSION>

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- Basil
- Eggplant
- Hazelnuts
```

~ suprise.md <MERGED\_VERSION>

```
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- Eggplant
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~ suprise.md <THEIR\_VERSION>

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- Basil
- Eggplant
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~ suprise.md <MERGED\_VERSION>

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## What a “Conflict” Means

suprise.md <MY\_VERSION>

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suprise.md <MERGED\_VERSION>

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suprise.md <THEIR\_VERSION>

```
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# Resolve Conflicts

## What a “Conflict” Means

suprise.md <MY\_VERSION>

```
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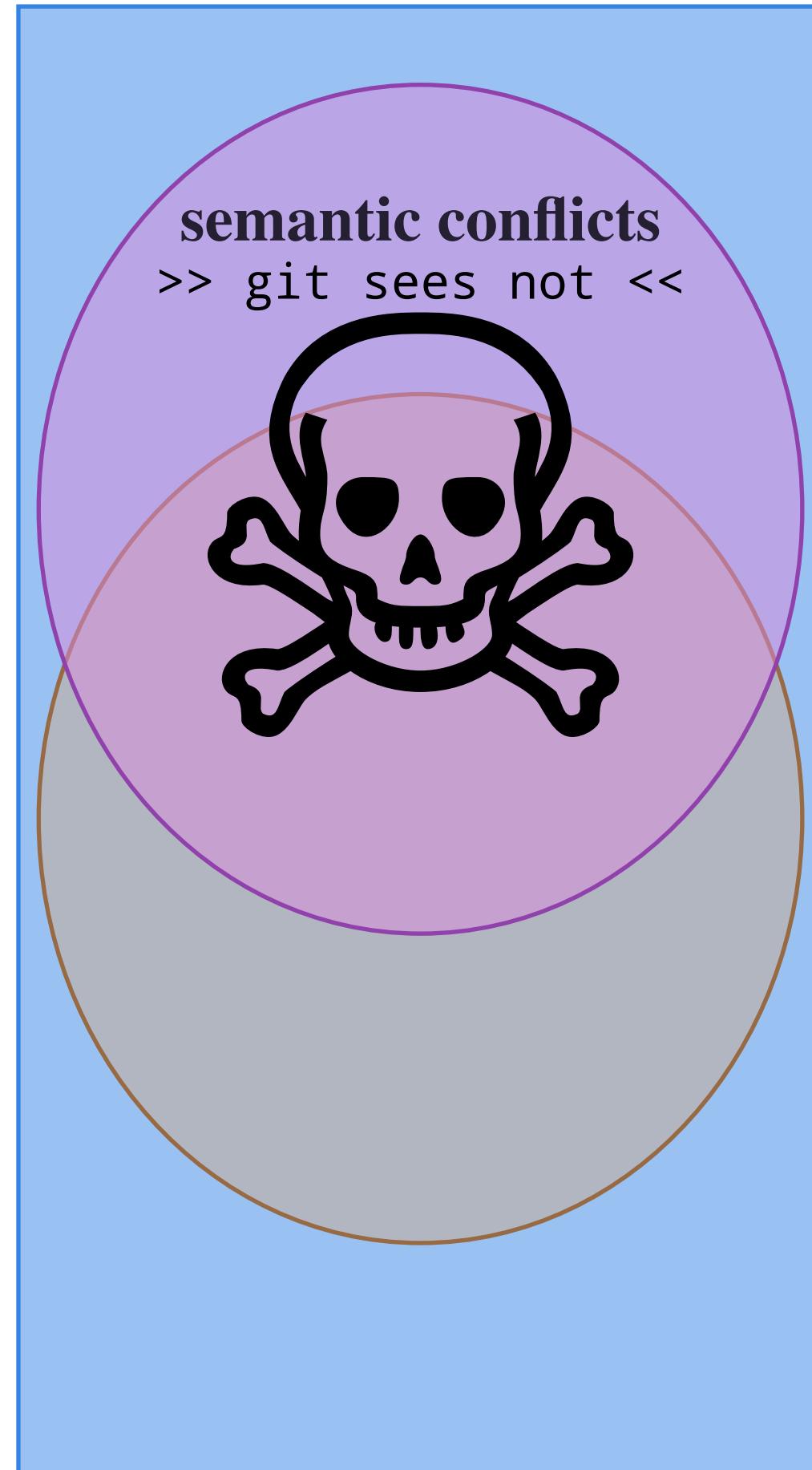
__Base:__ sour cream
__Topping:__
- Garlic
- Basil
- Eggplant
- Hazelnuts
```

suprise.md <THEIR\_VERSION>

```
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a typical tomato-based pizza, but
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- Eggplant
- Hazelnuts
```



# Resolve Conflicts

## What a “Conflict” Means

~ **suprise.md <MY\_VERSION>**

```
# The SURPRISE pizza
```

An amazing surprise of the dev team  
dedicated just to your fancy  
thirst for fortune and originality <3

\_\_Base:\_\_ sour cream

\_\_Topping:\_\_

- Garlic

+ Sweet garlic

- Basil

- Eggplant

- Hazelnuts

~ **suprise.md <THEIR\_VERSION>**

```
# The SURPRISE pizza
```

An amazing surprise of the dev team  
dedicated just to your fancy  
thirst for fortune and originality <3

\_\_Base:\_\_ sour cream

\_\_Topping:\_\_

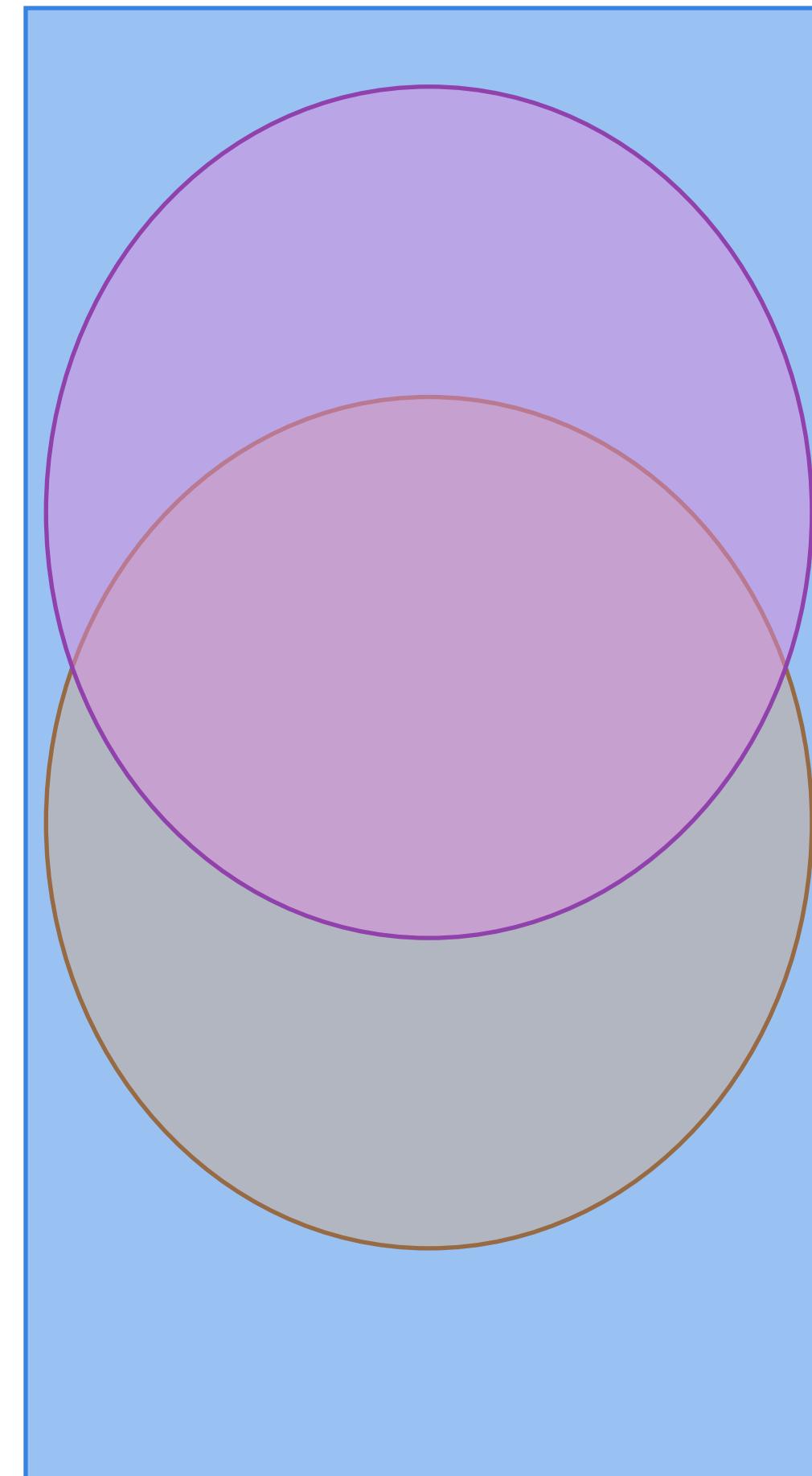
- Garlic

+ Garlic, pepper or anything spicy

- Basil

- Eggplant

- Hazelnuts



# Resolve Conflicts

## What a “Conflict” Means

~ **suprise.md <MY\_VERSION>**

```
# The SURPRISE pizza
```

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\_\_Base:\_\_ sour cream

\_\_Topping:\_\_

- Garlic

+ Sweet garlic

- Basil

- Eggplant

- Hazelnuts

~ **suprise.md <THEIR\_VERSION>**

```
# The SURPRISE pizza
```

An amazing surprise of the dev team  
dedicated just to your fancy  
thirst for fortune and originality <3

\_\_Base:\_\_ sour cream

\_\_Topping:\_\_

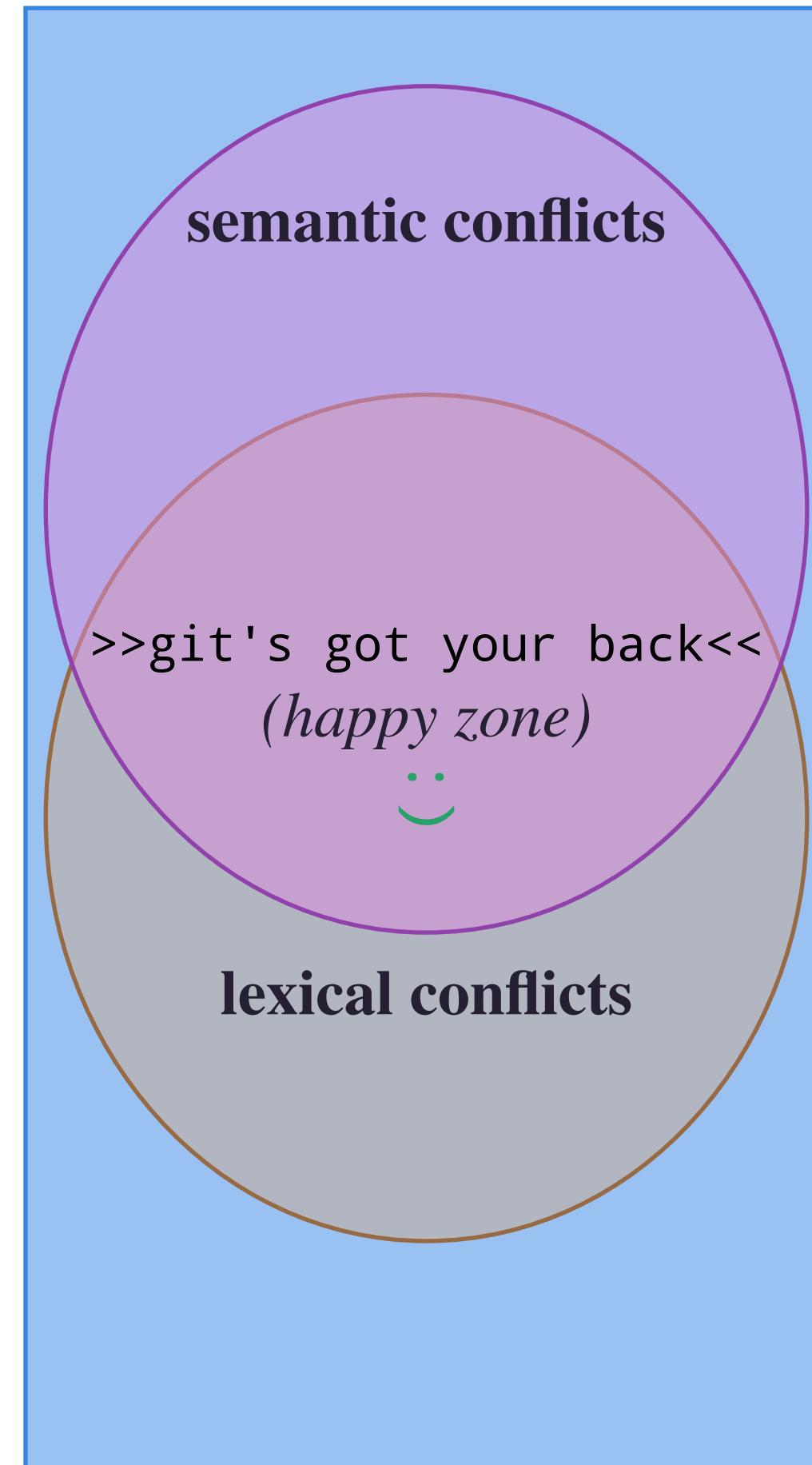
- Garlic

+ Garlic, pepper or anything spicy

- Basil

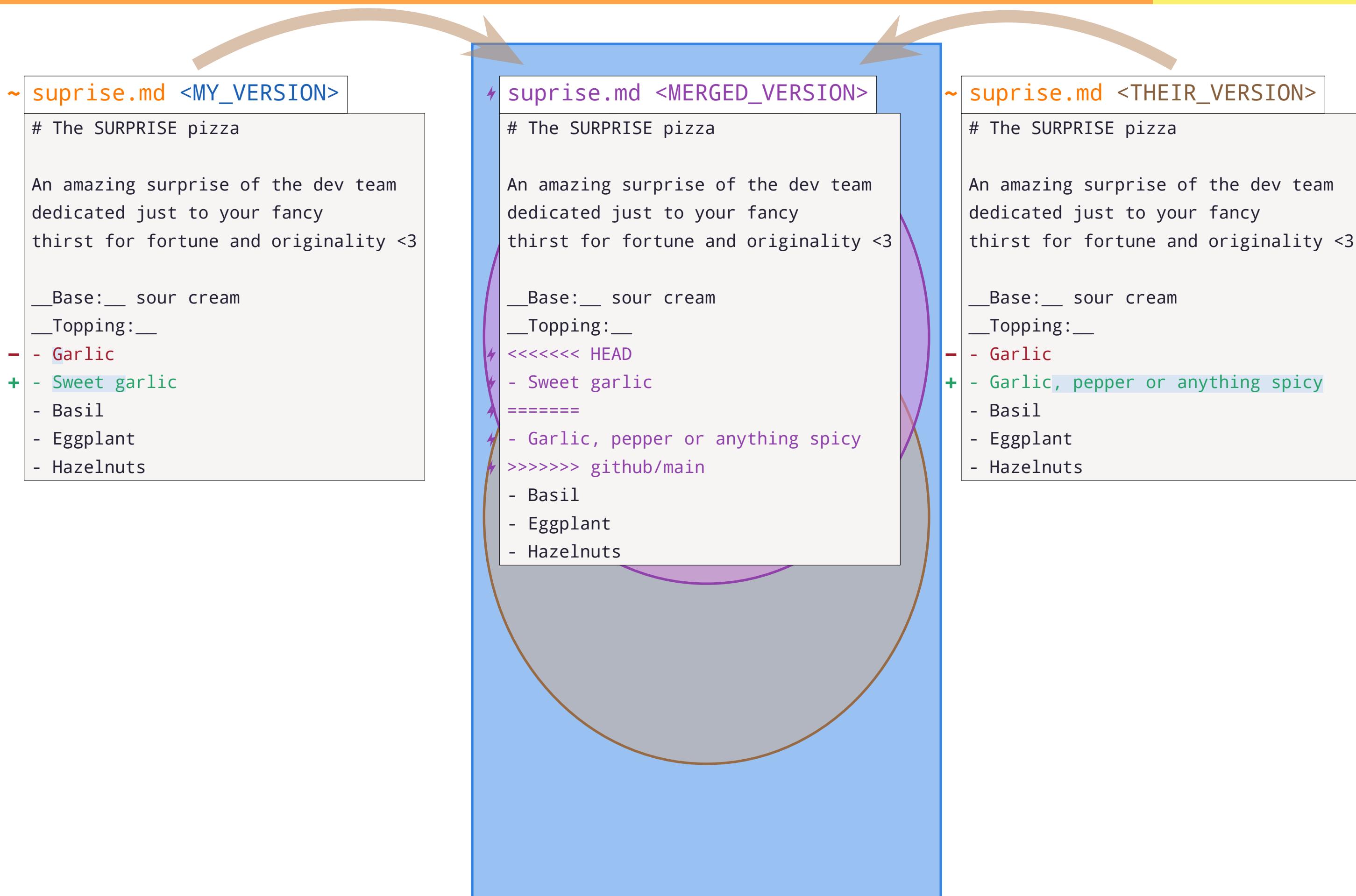
- Eggplant

- Hazelnuts



# Resolve Conflicts

## What a “Conflict” Means



# Resolve Conflicts

## What a “Conflict” Means

~ surprise.md <MY\_VERSION>

```
# The SURPRISE pizza
```

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dedicated just to your fancy  
thirst for fortune and originality <3

```
__Base:__ sour cream
```

```
__Topping:__
```

- Garlic

+ Sweet garlic

- Basil

- Eggplant

- Hazelnuts



Think, think, think.

~ surprise.md <MERGED\_VERSION>

```
# The SURPRISE pizza
```

An amazing surprise of the dev team  
dedicated just to your fancy  
thirst for fortune and originality <3

```
__Base:__ sour cream
```

```
__Topping:__
```

<<<<< HEAD

- Sweet garlic

=====

- Garlic, pepper or anything spicy

>>>>> github/main

- Basil

- Eggplant

- Hazelnuts

~ surprise.md <THEIR\_VERSION>

```
# The SURPRISE pizza
```

An amazing surprise of the dev team  
dedicated just to your fancy  
thirst for fortune and originality <3

```
__Base:__ sour cream
```

```
__Topping:__
```

- Garlic

+ Garlic, pepper or anything spicy

- Basil

- Eggplant

- Hazelnuts

# Resolve Conflicts

What a “Conflict” Means

~ suprise.md <MY\_VERSION>

# The SURPRISE pizza

An amazing surprise of the dev team  
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thirst for fortune and originality <3

\_\_Base:\_\_ sour cream

\_\_Topping:\_\_



- Garlic

+ Sweet garlic

- Basil

- Eggplant

- Hazelnuts

~ suprise.md <MERGED\_VERSION>

# The SURPRISE pizza

An amazing surprise of the dev team  
dedicated just to your fancy  
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\_\_Base:\_\_ sour cream

\_\_Topping:\_\_

<<<<< HEAD

- Sweet garlic

=====

- Garlic, pepper or anything spicy

>>>>> github/main

- Basil

- Eggplant

- Hazelnuts

~ suprise.md <THEIR\_VERSION>

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An amazing surprise of the dev team  
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thirst for fortune and originality <3

\_\_Base:\_\_ sour cream

\_\_Topping:\_\_

- Garlic

+ Garlic, pepper or anything spicy

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Think, think, think.

# Resolve Conflicts

## What a “Conflict” Means

~ surprise.md <MY\_VERSION>

```
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```

An amazing surprise of the team  
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```
_Base:_ sour cream
```

```
_Topping:_
```

- Garlic

+ Sweet garlic

- Basil

- Eggplant

- Hazelnuts



Think, think, think.

**semantic conflicts**

>> git sees not <<



>>git's got your back<<  
(happy zone)



**lexical conflicts**

>> git conflicts <<



no conflicts  
(happy zone)



~ surprise.md <THEIR\_VERSION>

```
# The SURPRISE pizza
```

An amazing surprise of the team  
dedicated just to your thirst for fortune and originality <3

```
_Base:_ sour cream
```

```
_Topping:_
```

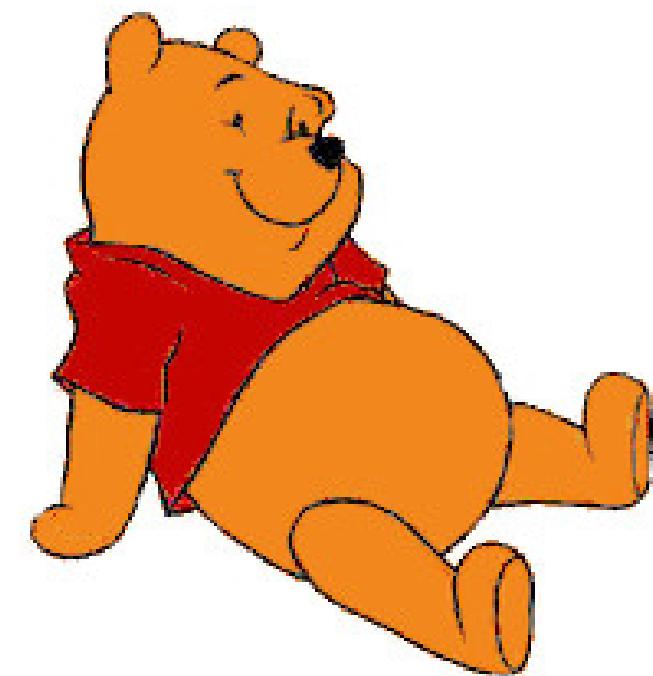
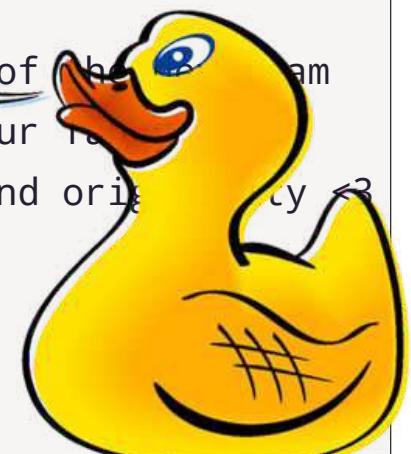
- Garlic

+ Garlic, pepper or anything spicy

- Basil

- Eggplant

- Hazelnuts

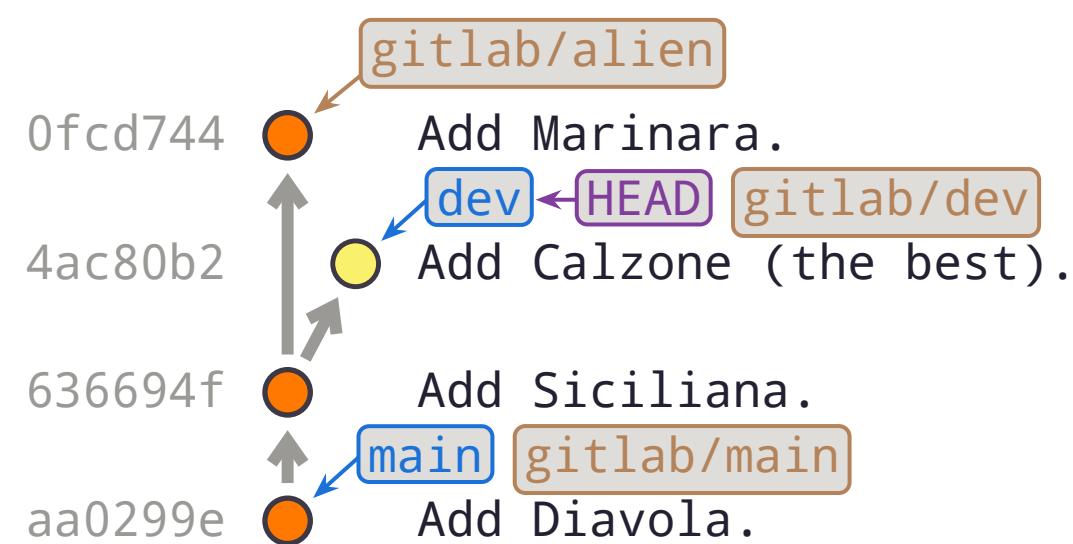


# Integrate Diverging Works

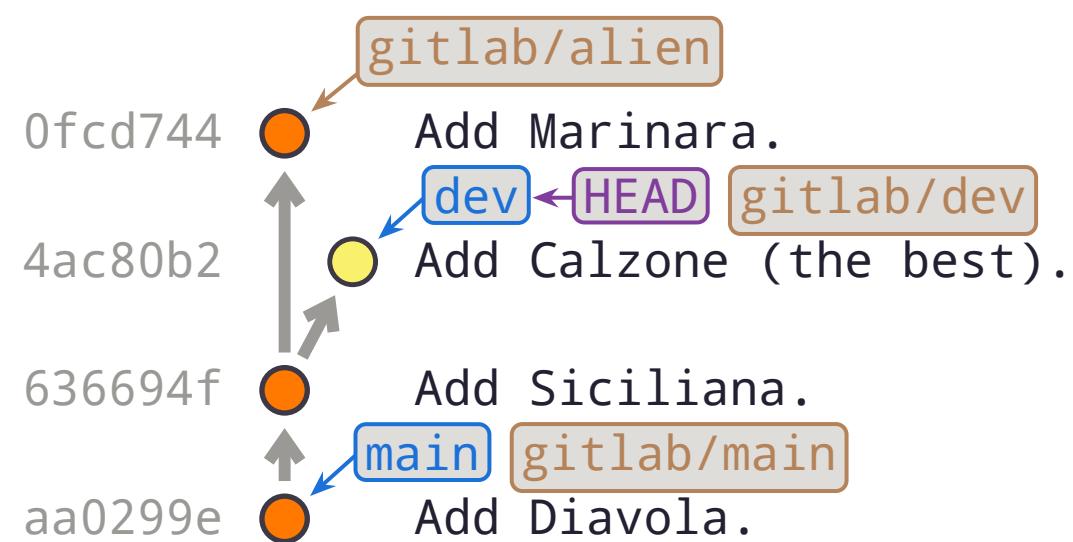
---

# Merge and Rebase

## Two Git Philosophies



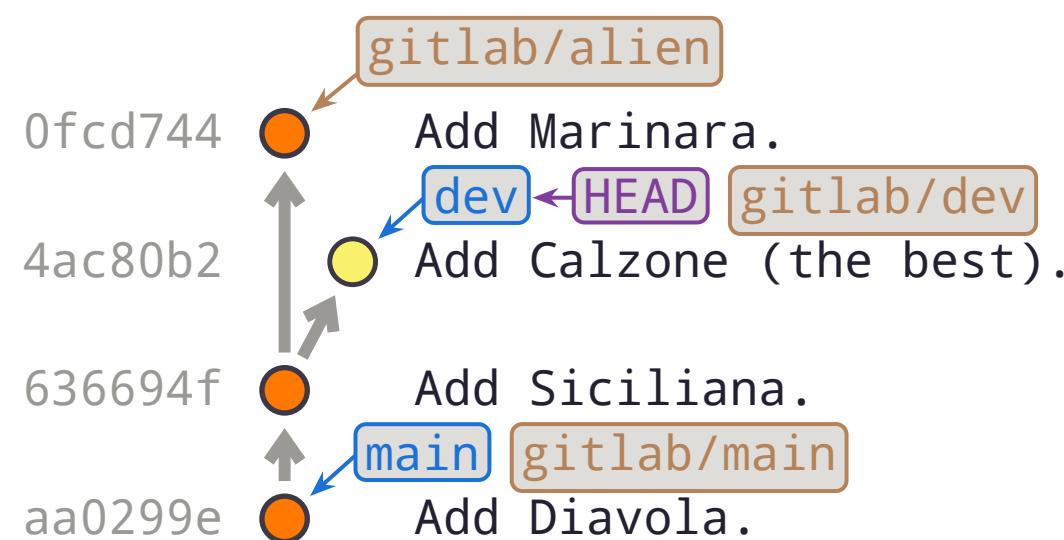
### Merge strategy



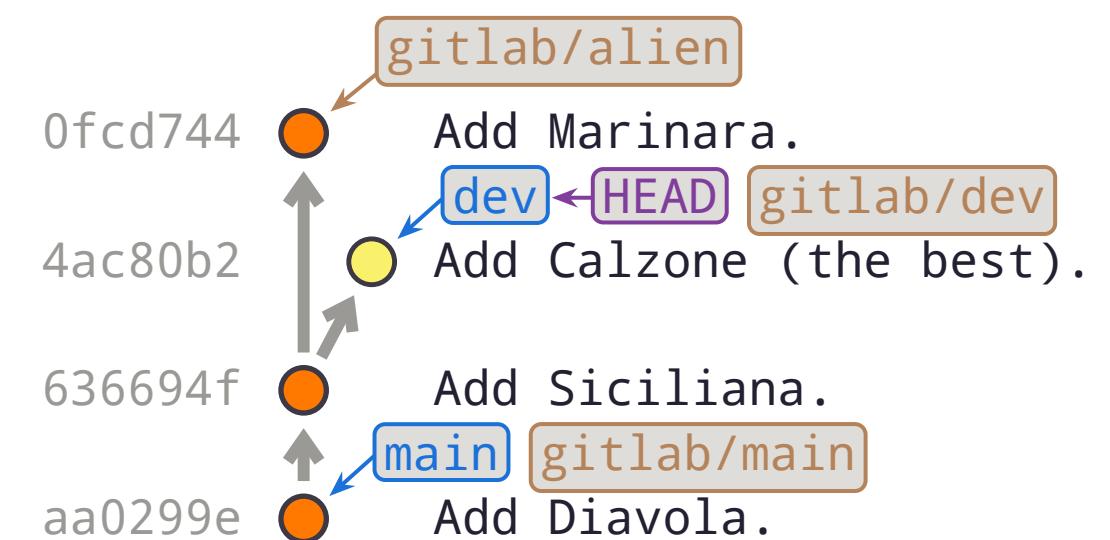
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



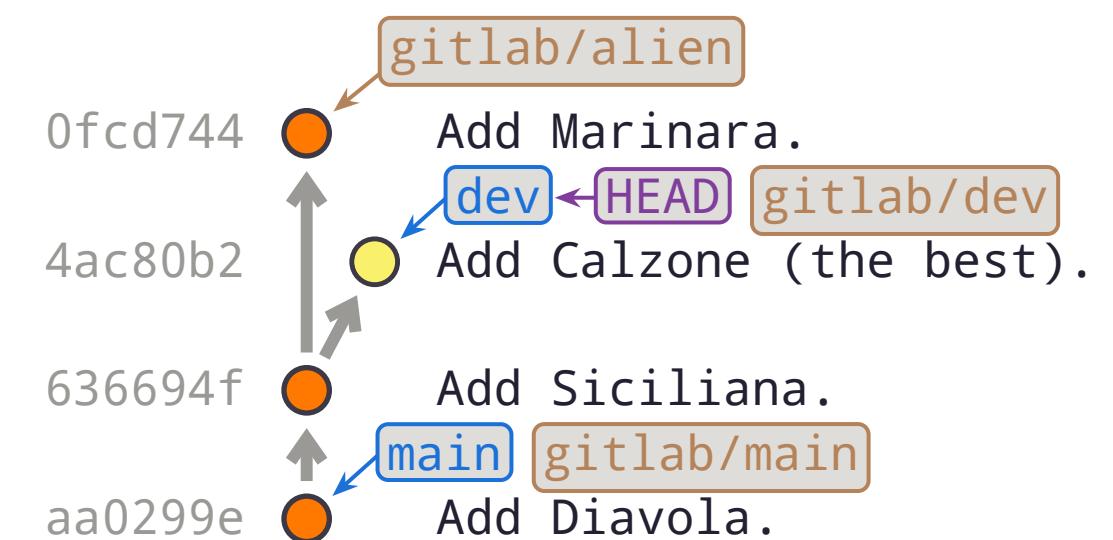
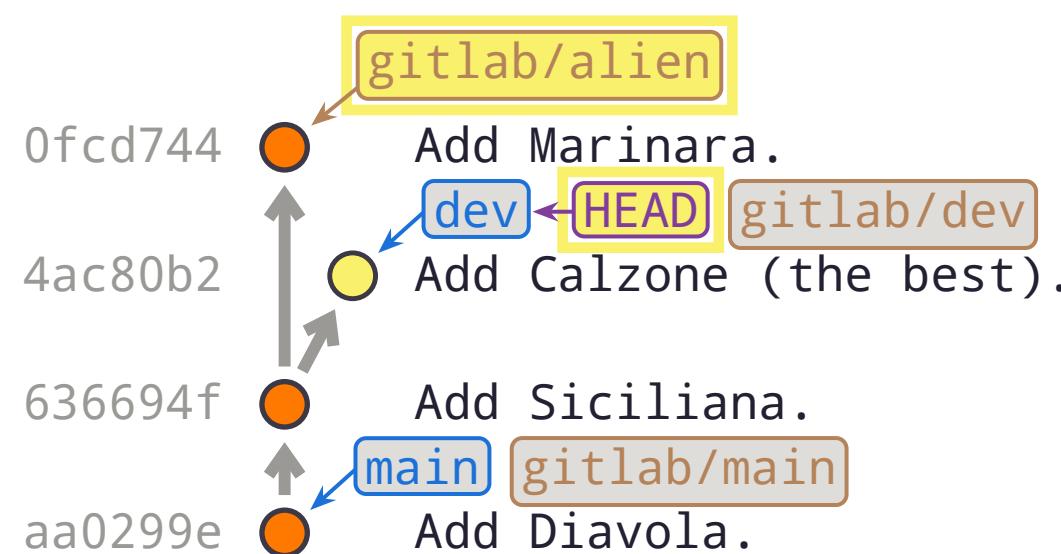
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

```
$ git merge gitlab/alien
```



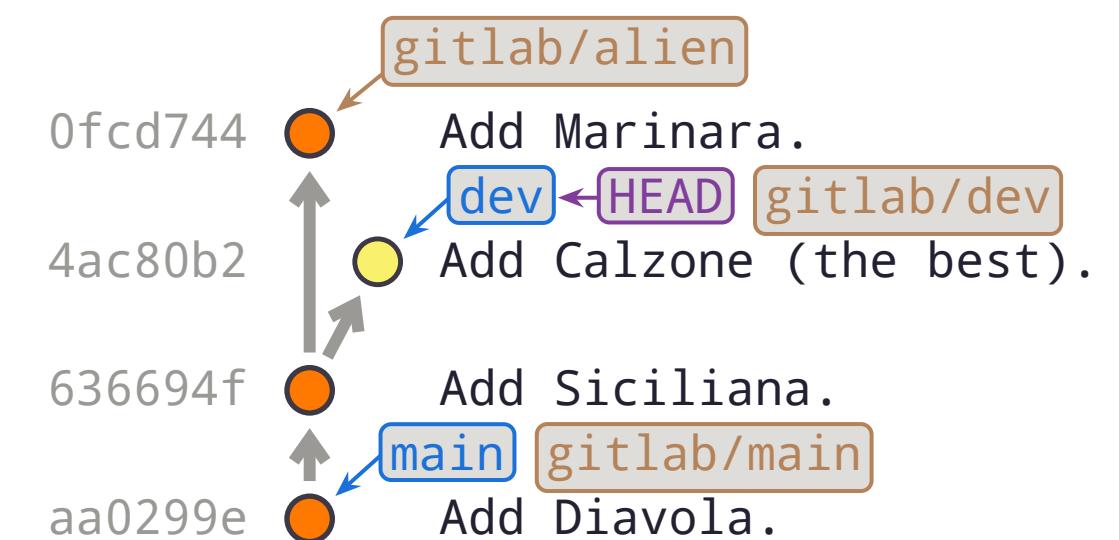
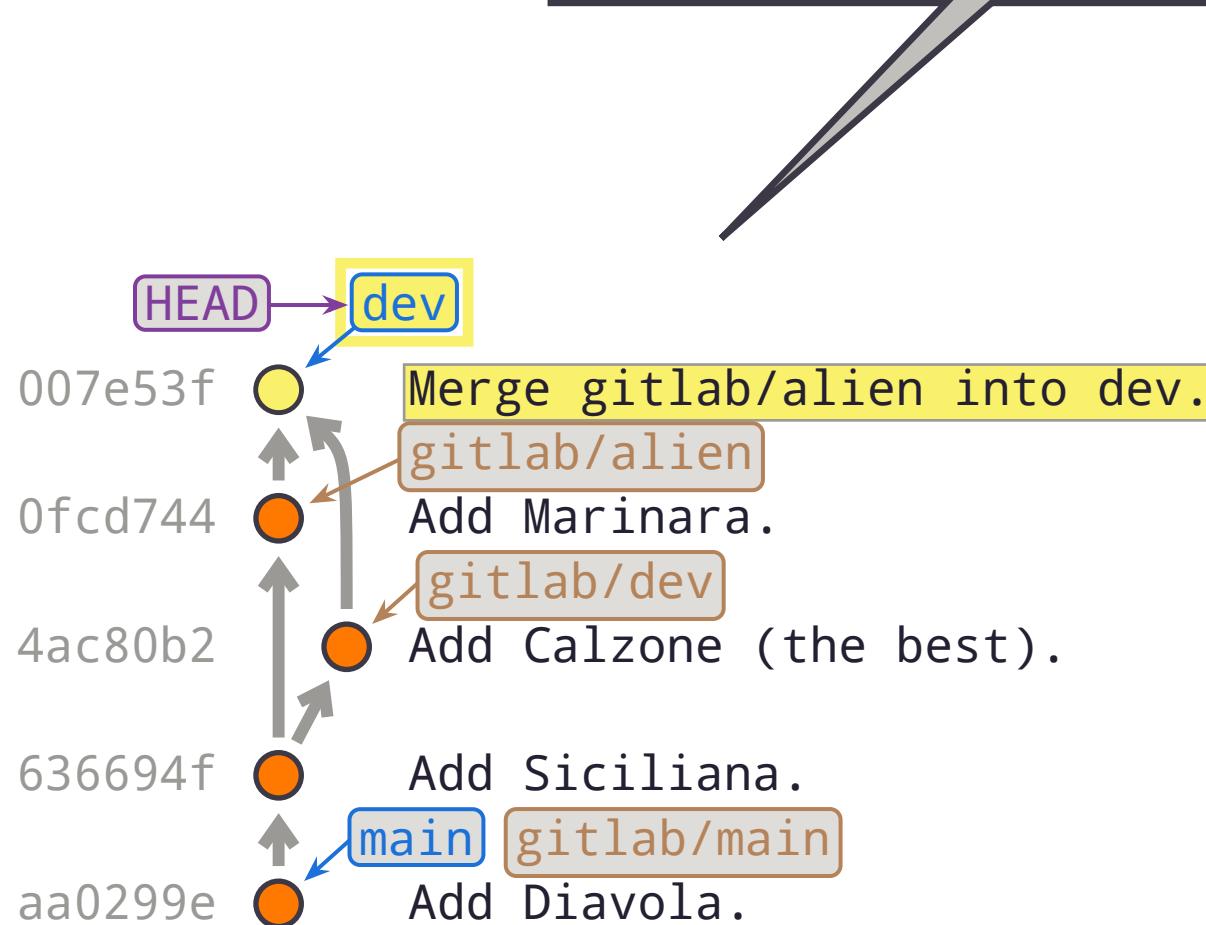
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

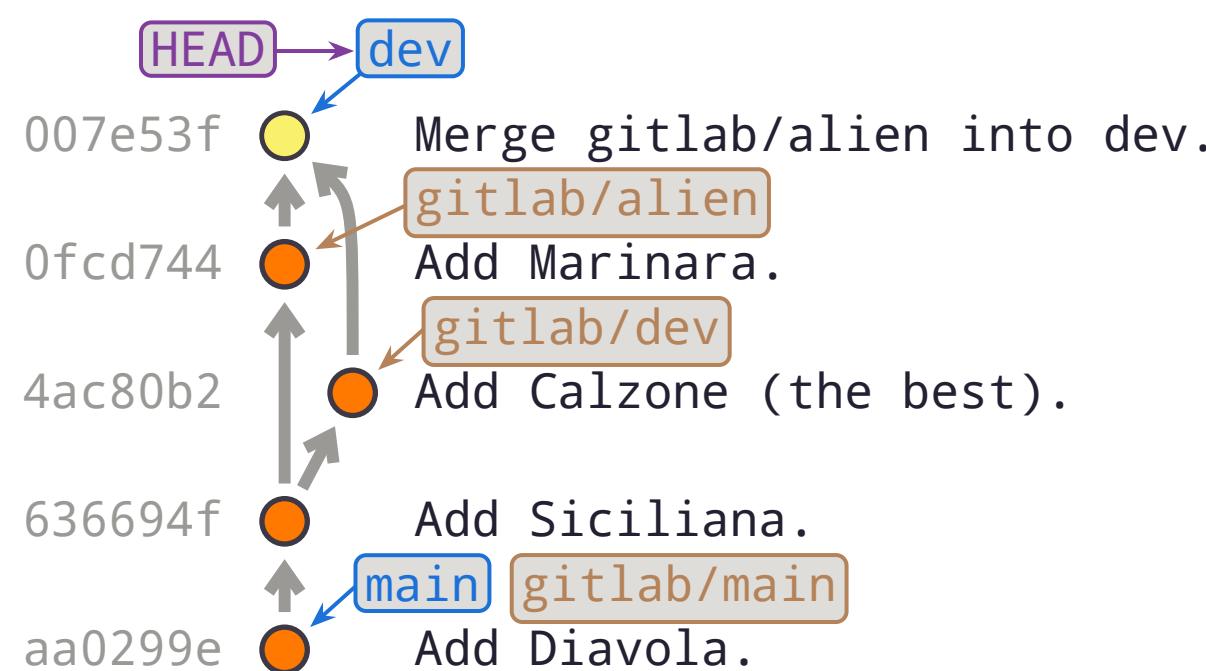
```
$ git merge gitlab/alien
```



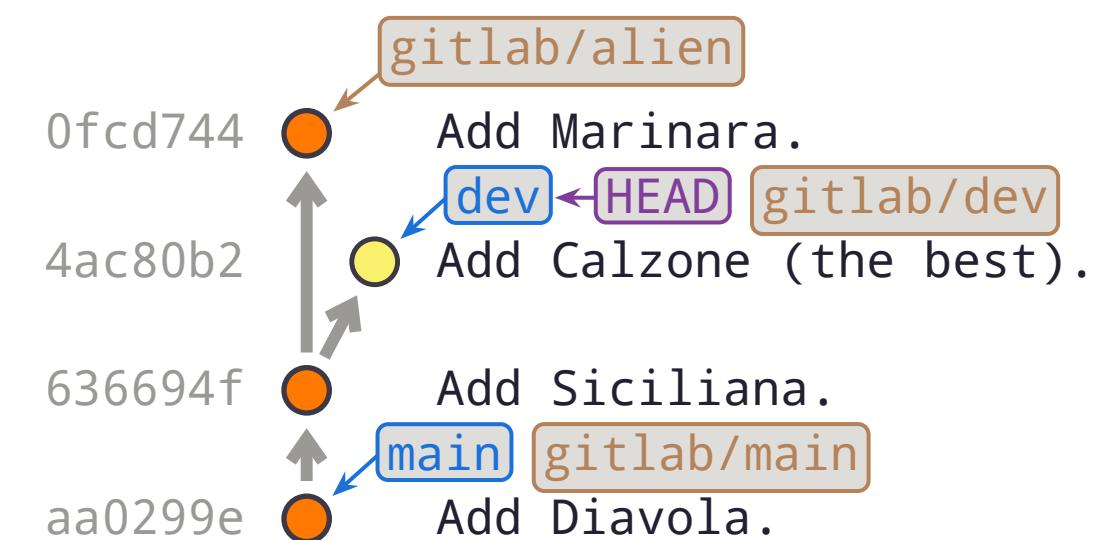
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy

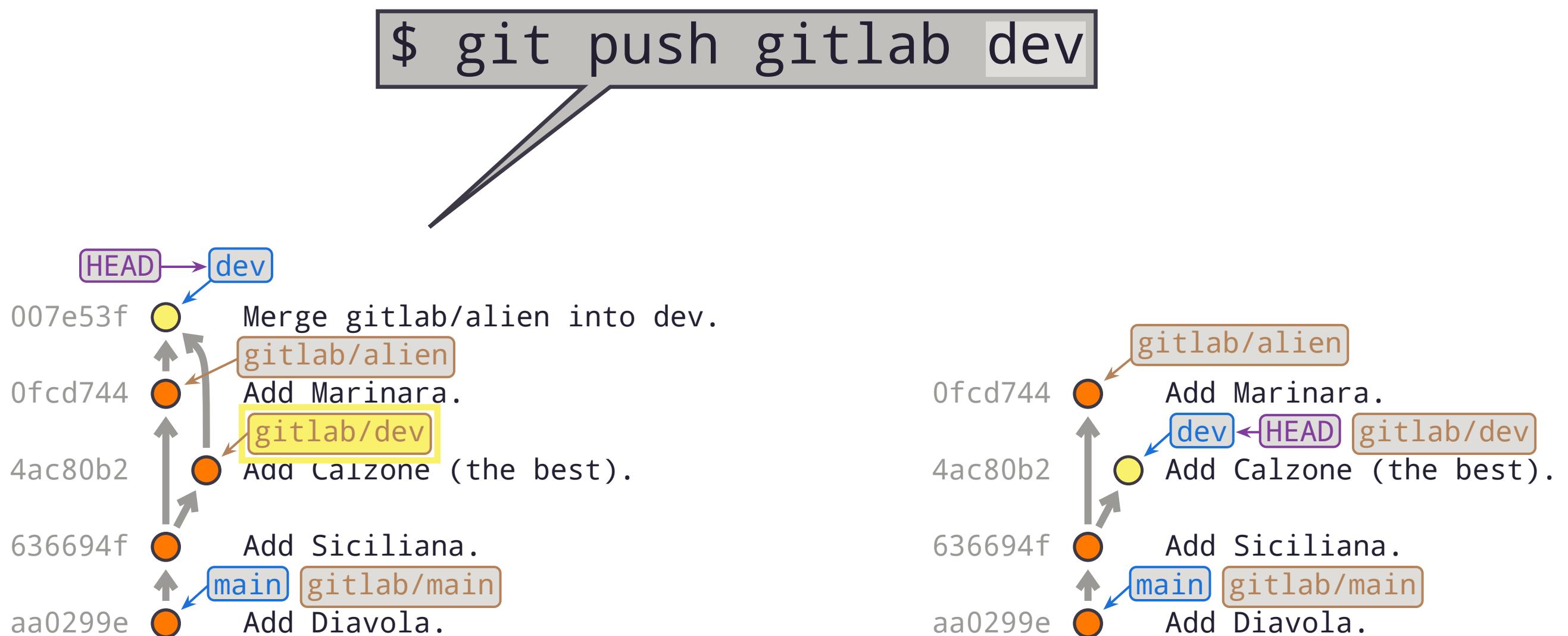


# Merge and Rebase

Two Git Philosophies

## Merge strategy

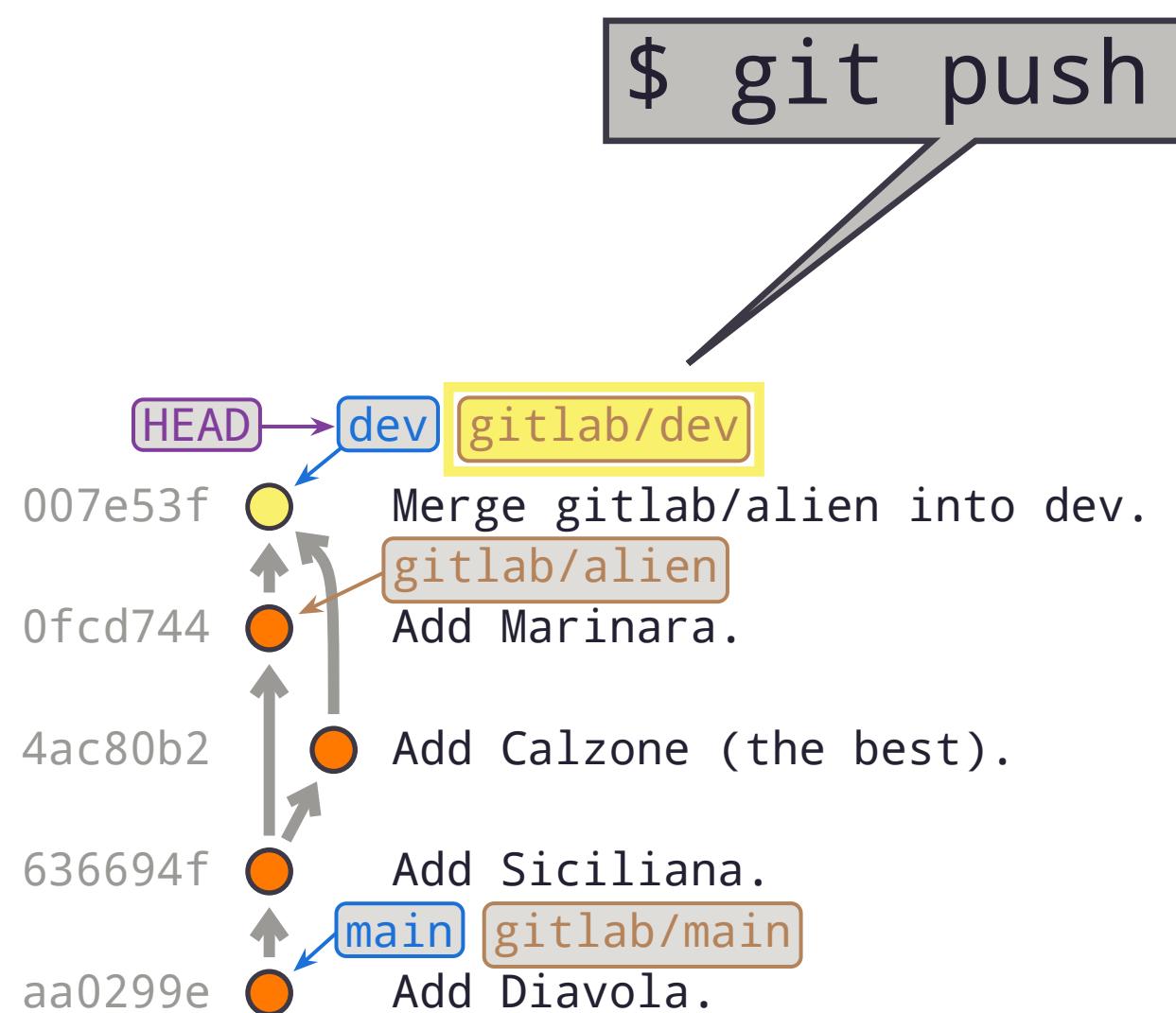
## Rebase strategy



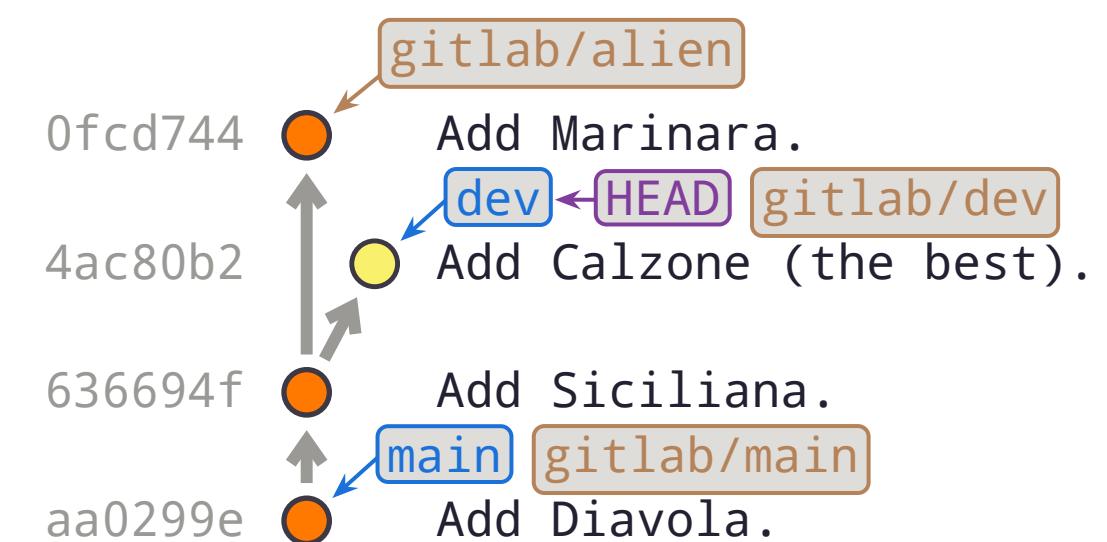
# Merge and Rebase

## Two Git Philosophies

### Merge strategy



### Rebase strategy

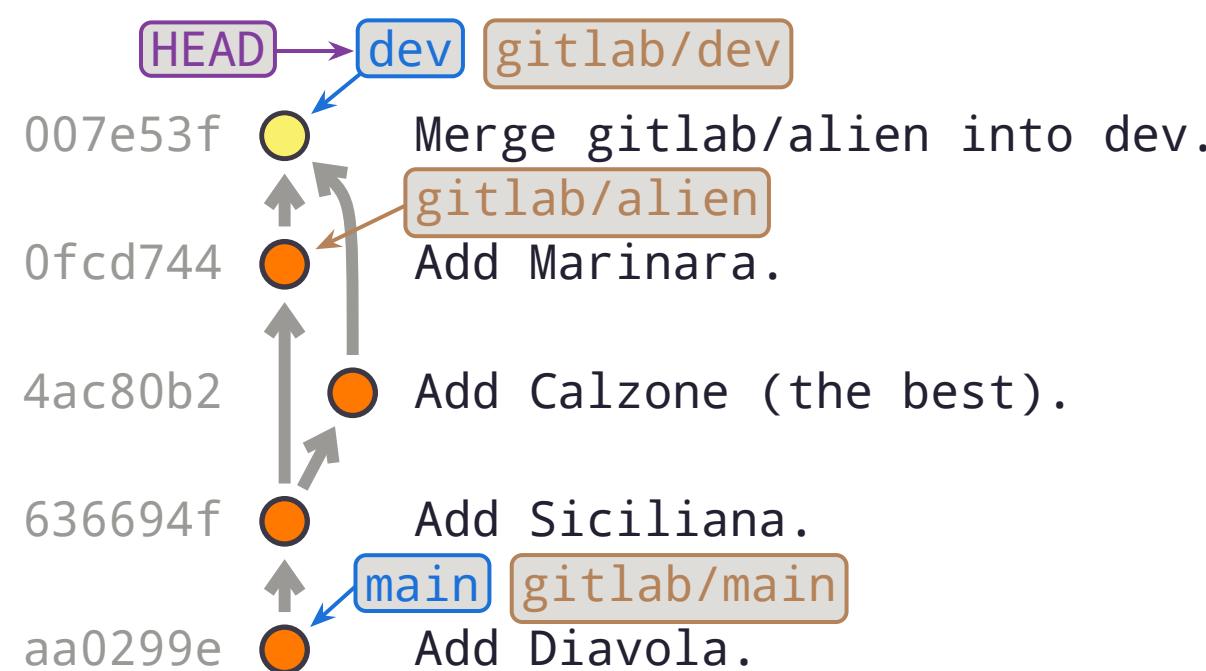


```
$ git push gitlab dev
```

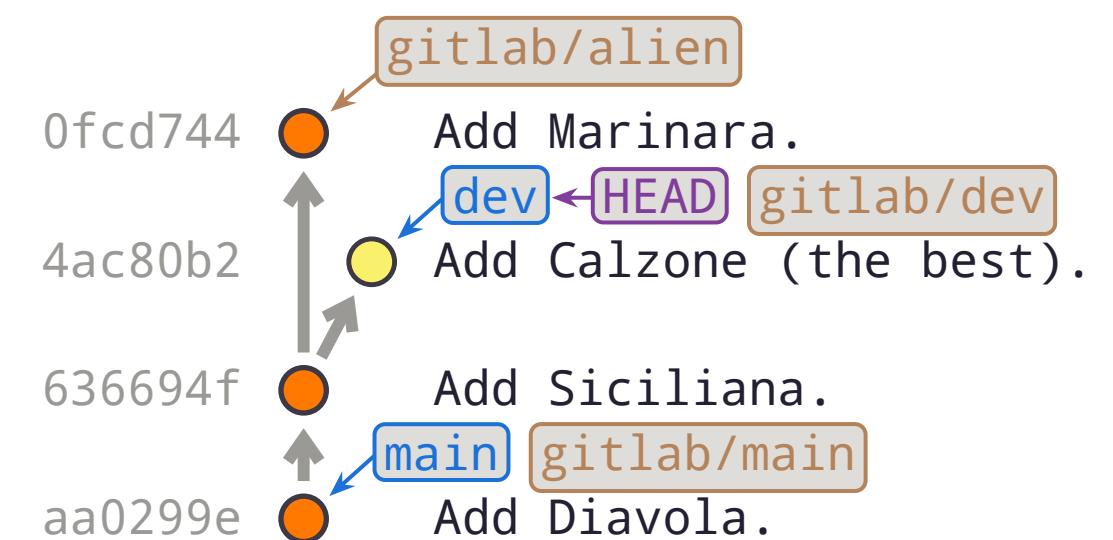
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



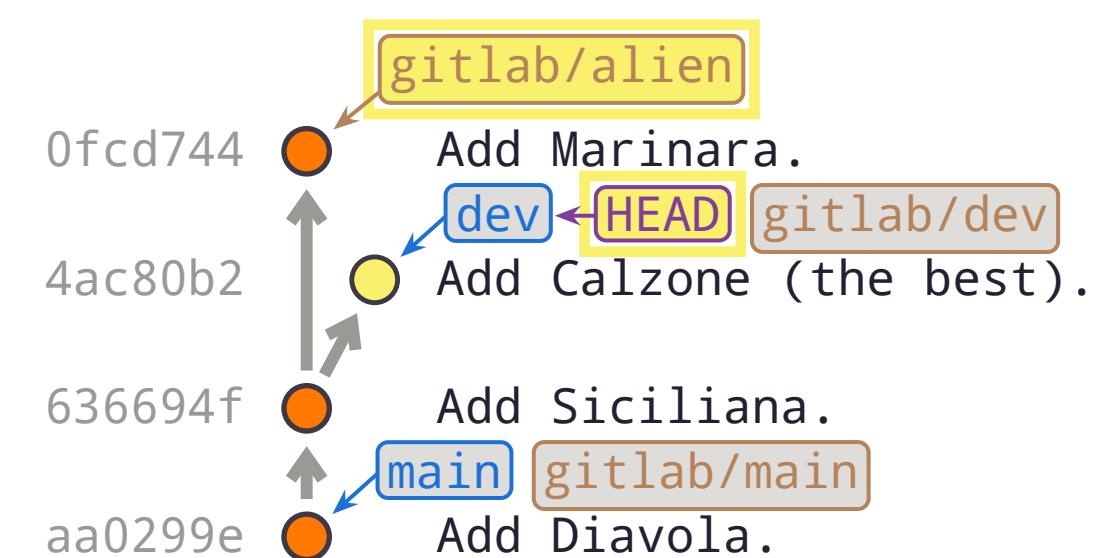
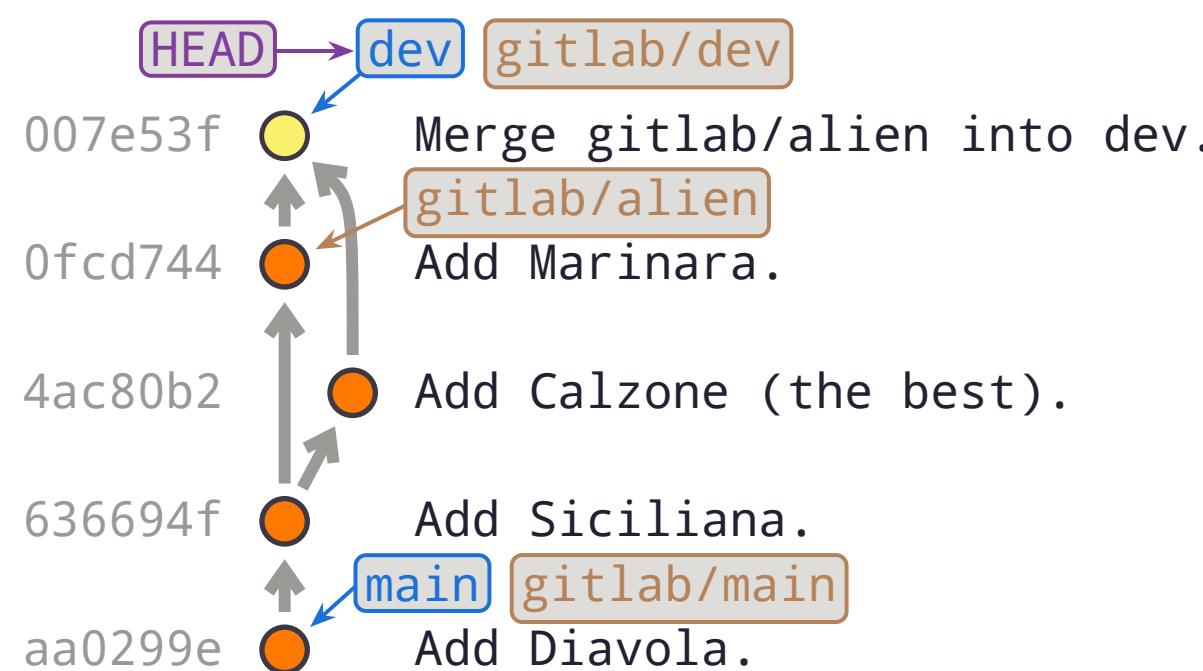
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

```
$ git rebase gitlab/alien
```



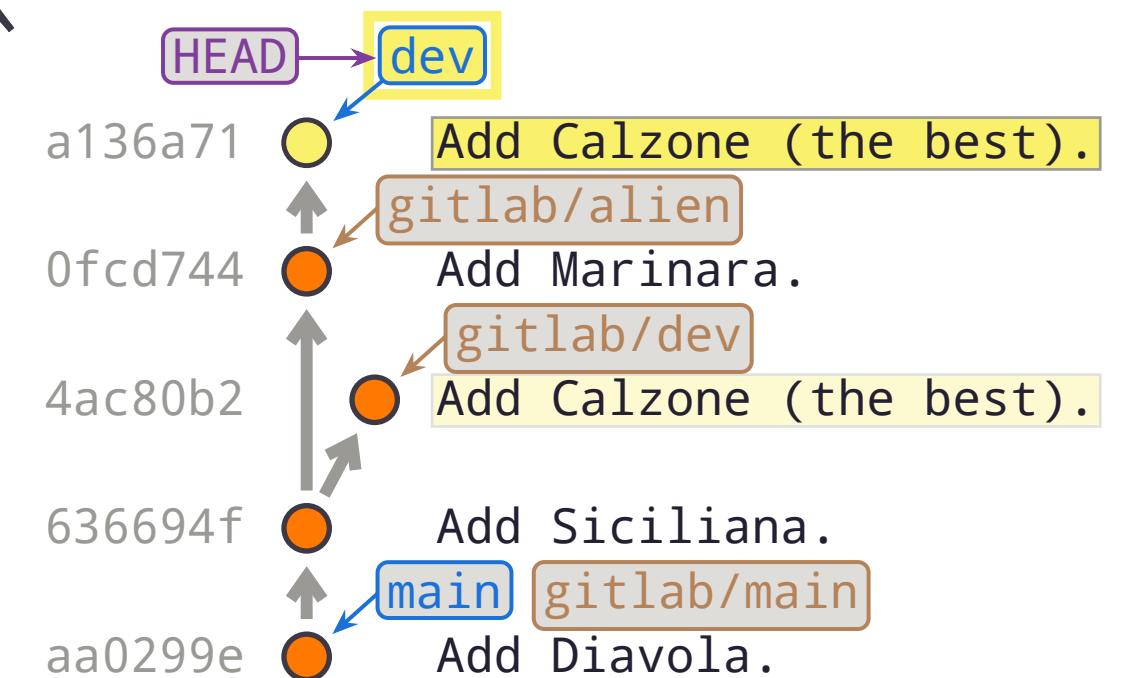
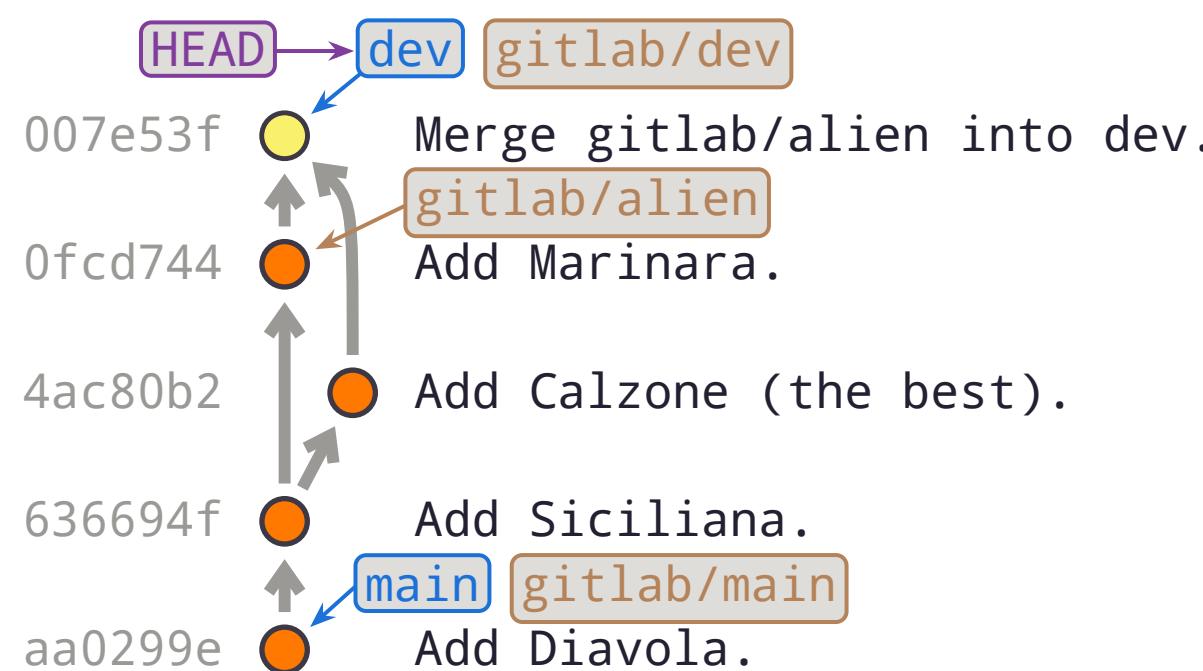
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Two Git Philosophies

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## Rebase strategy

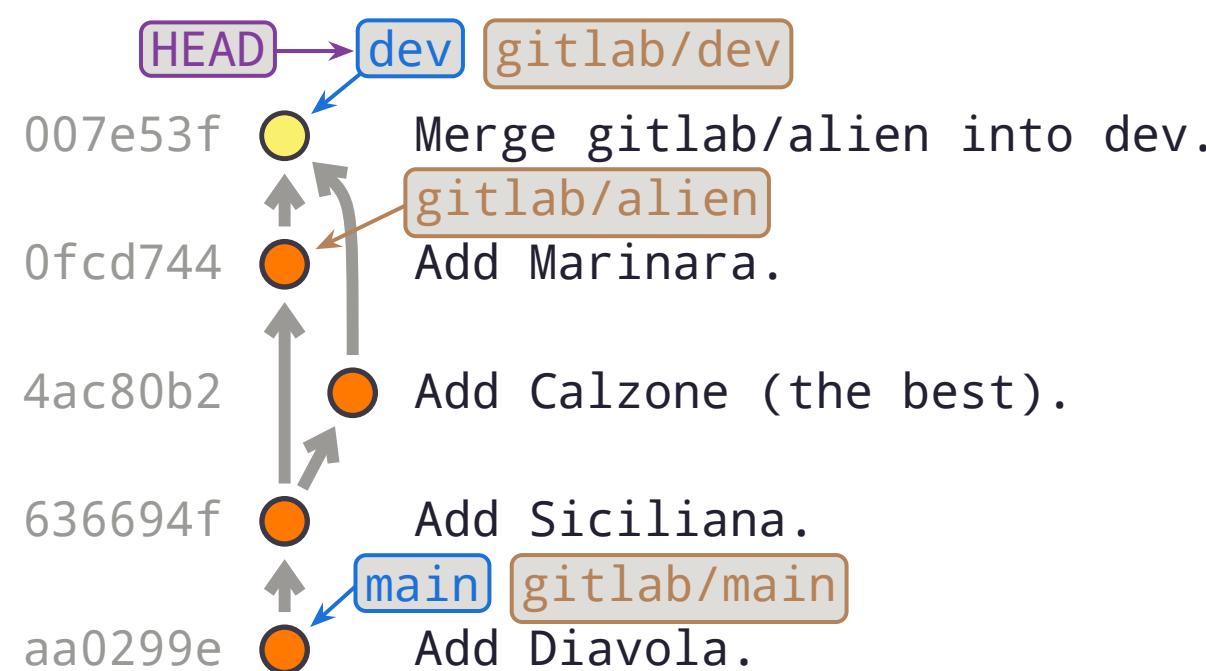
```
$ git rebase gitlab/alien
```



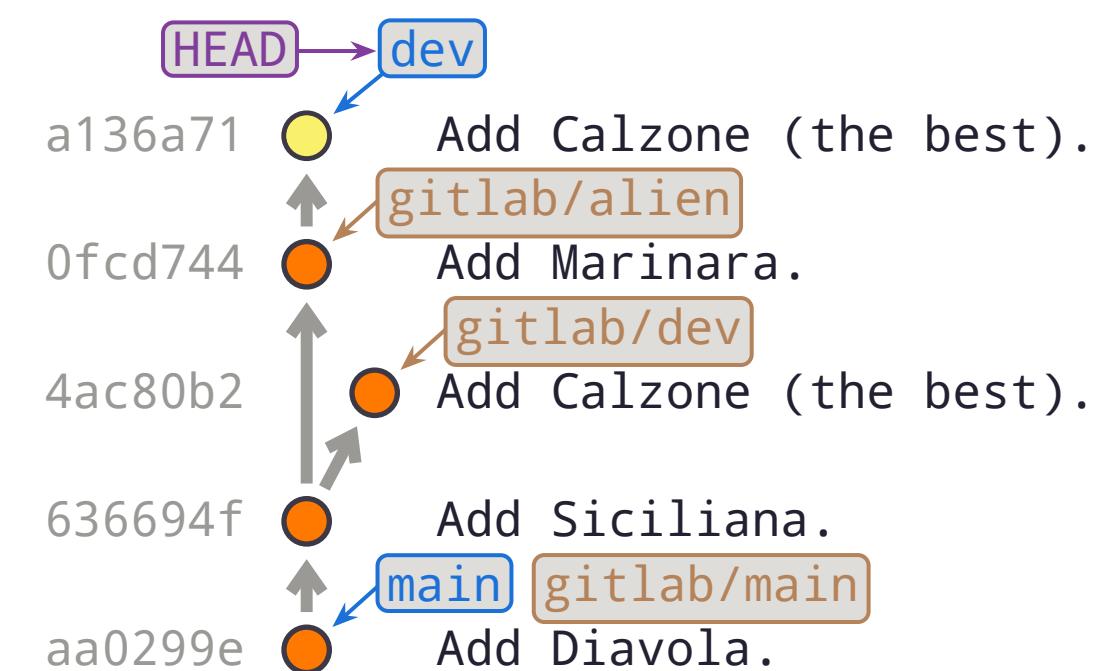
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



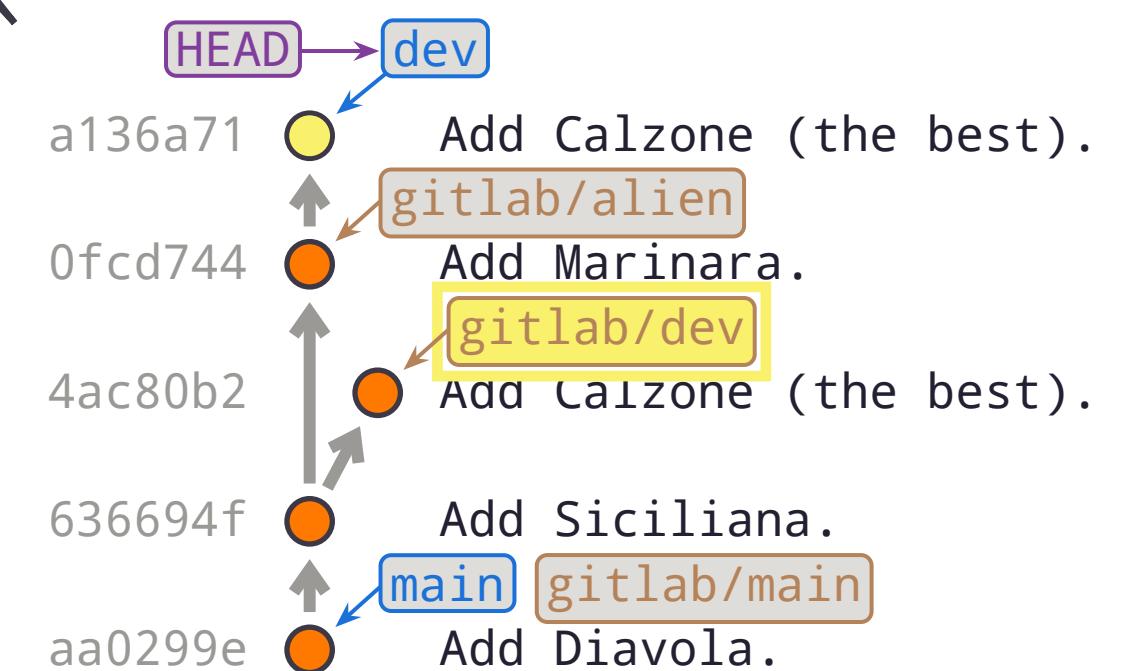
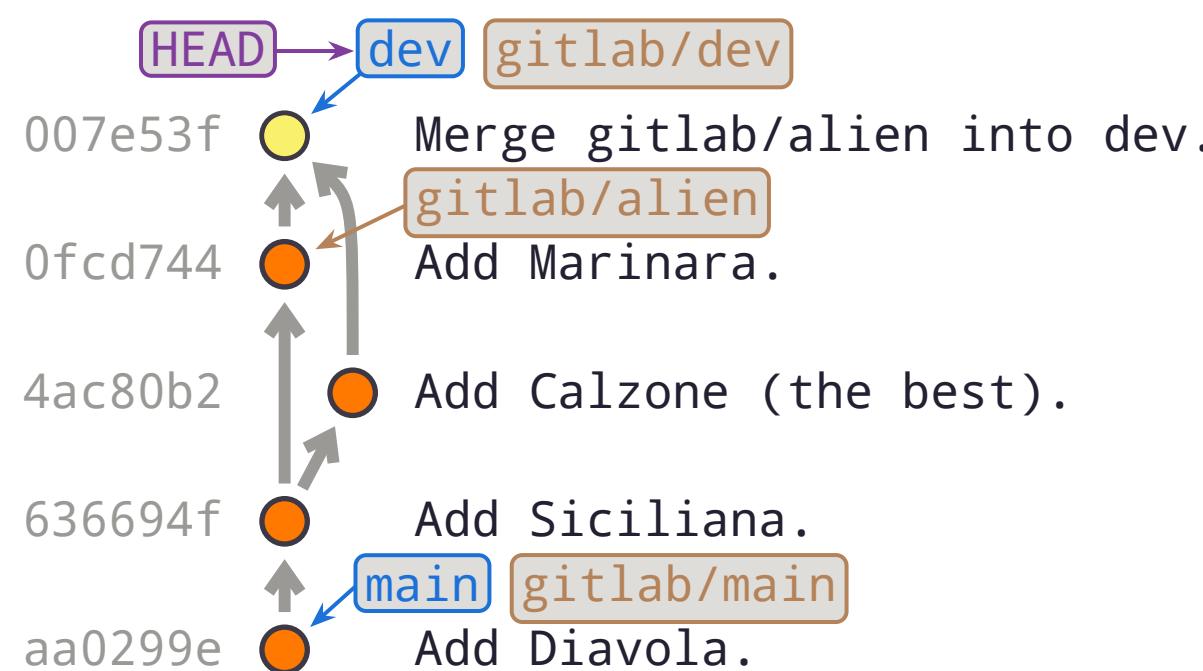
# Merge and Rebase

## Two Git Philosophies

### Merge strategy

### Rebase strategy

```
$ git push gitlab dev
```



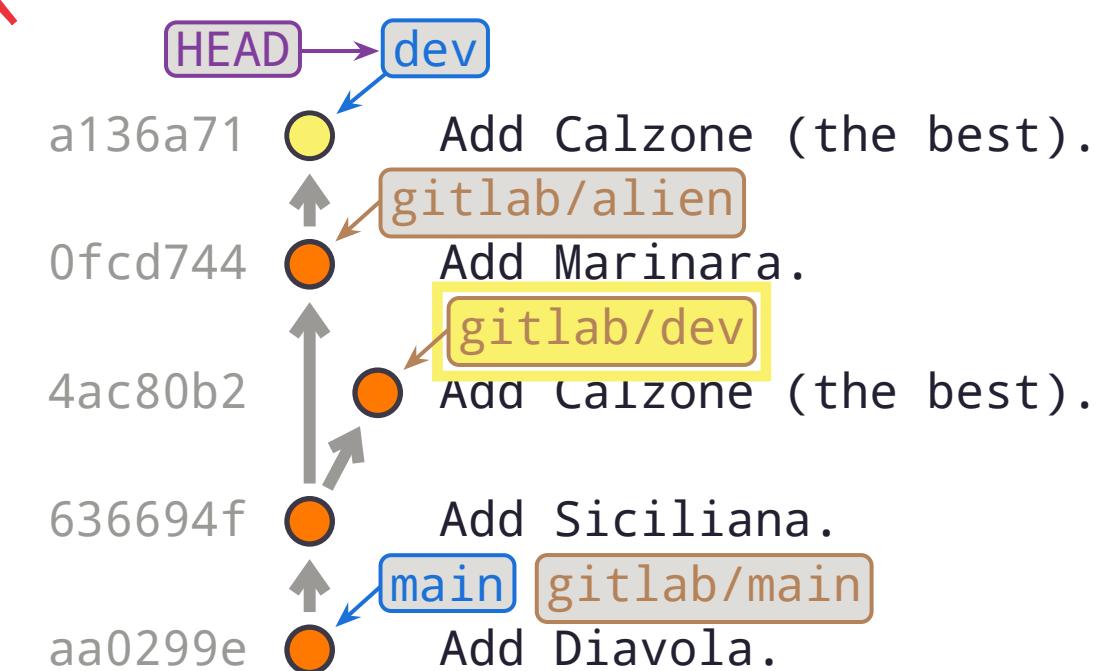
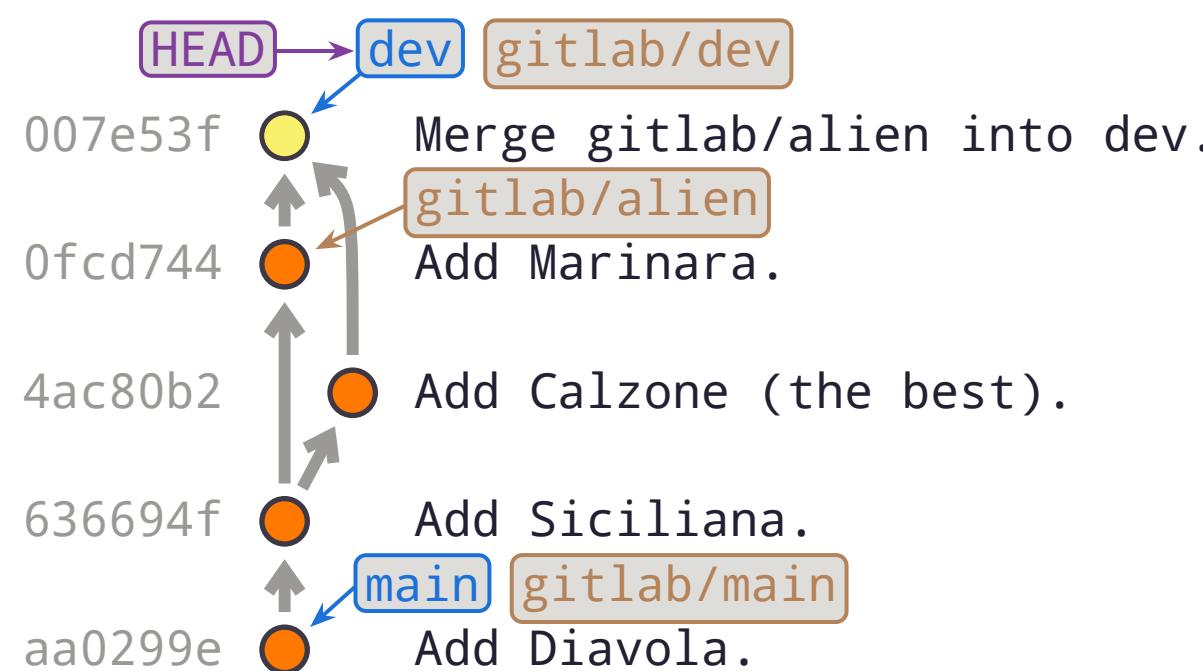
# Merge and Rebase

## Two Git Philosophies

### Merge strategy

### Rebase strategy

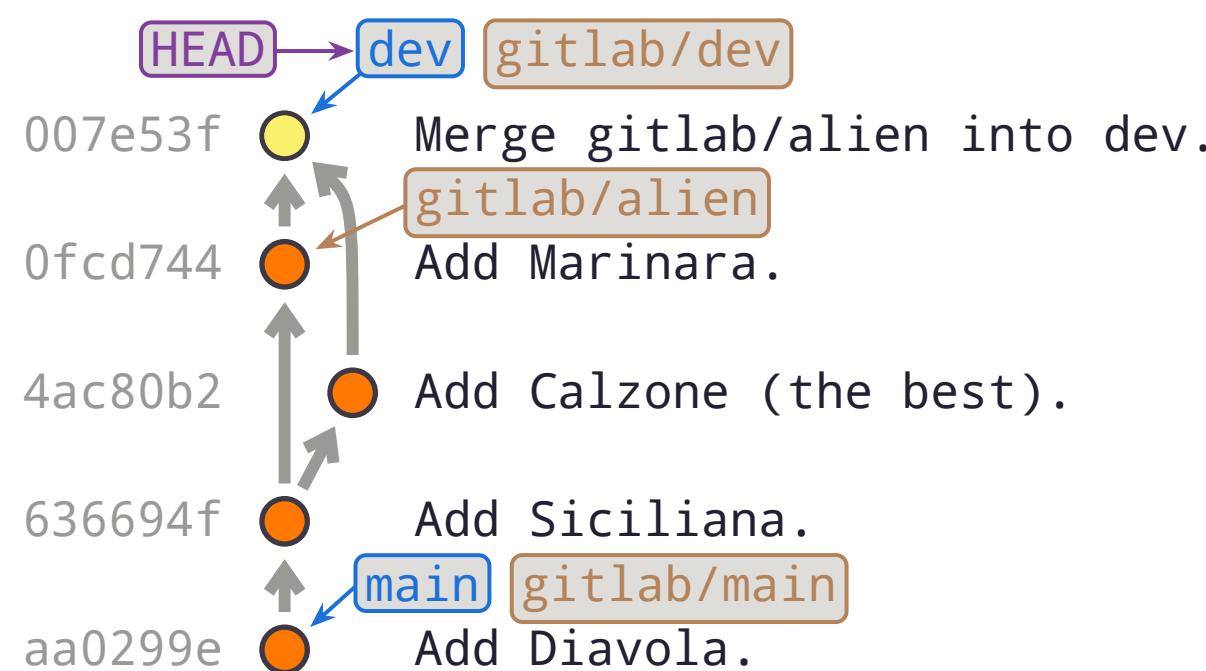
```
$ git push gitlab dev
```



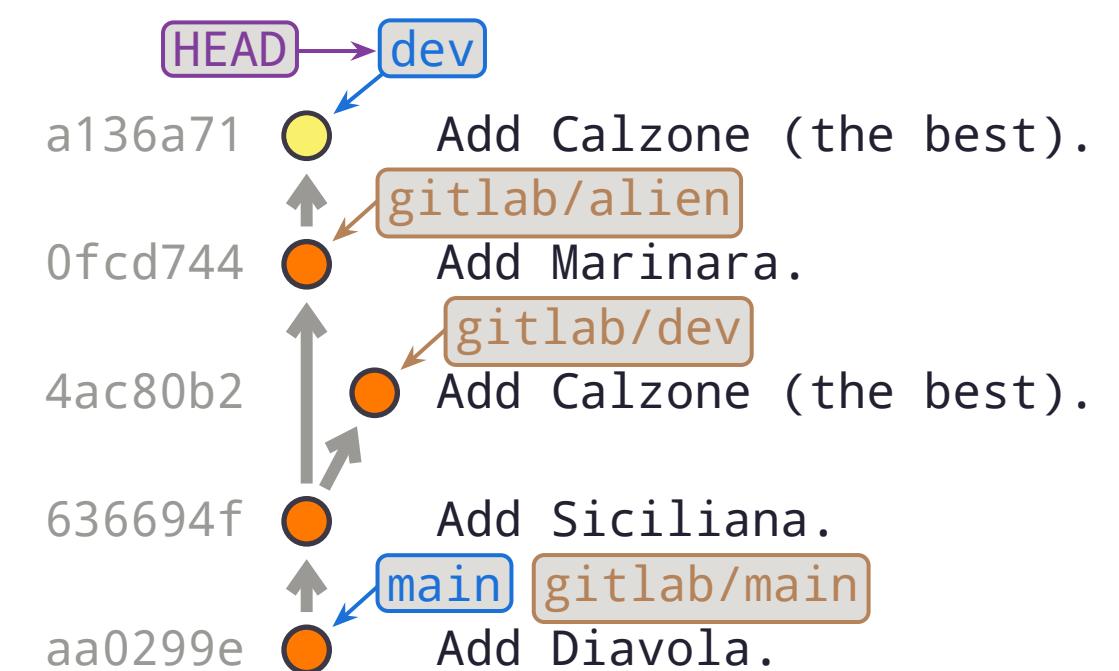
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



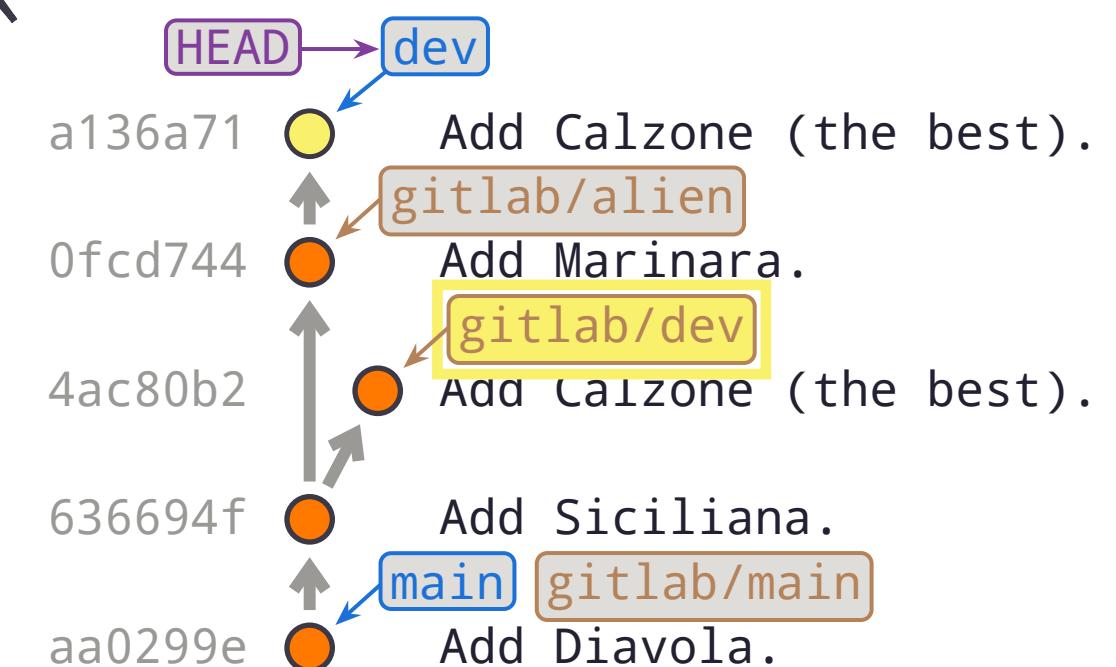
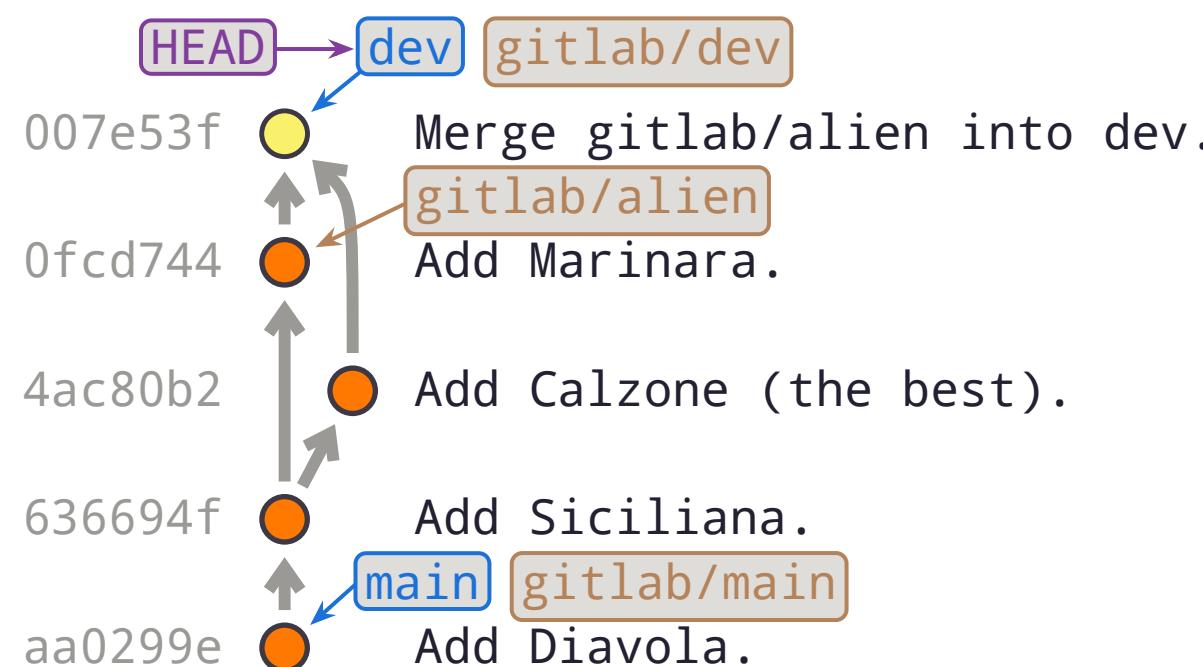
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

```
$ git push --force gitlab dev
```



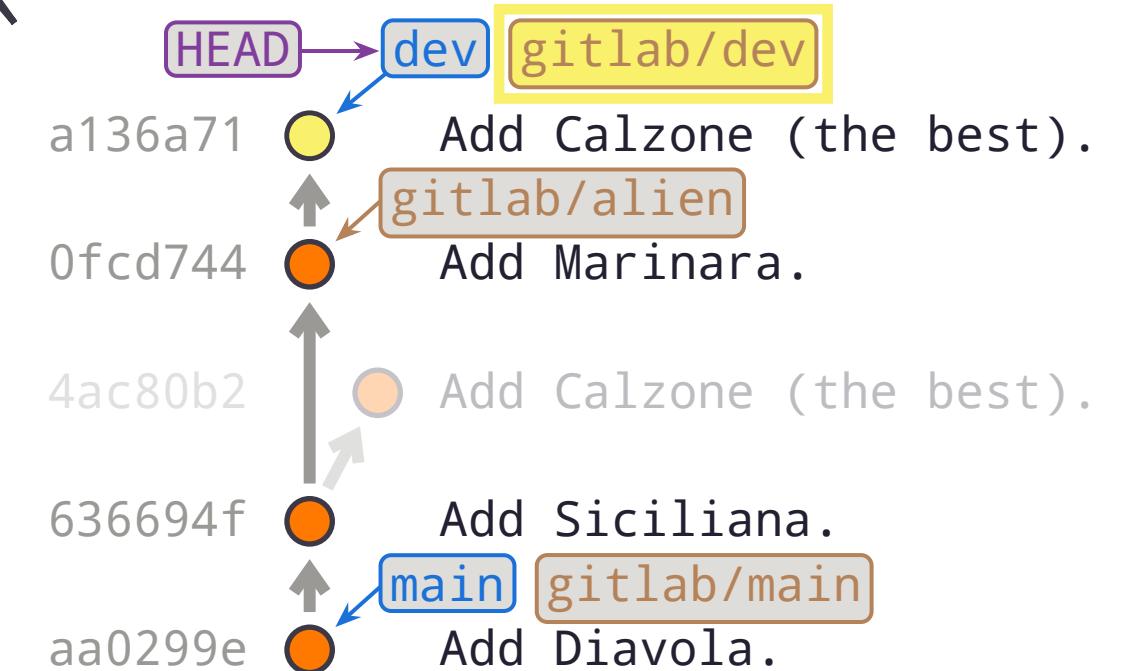
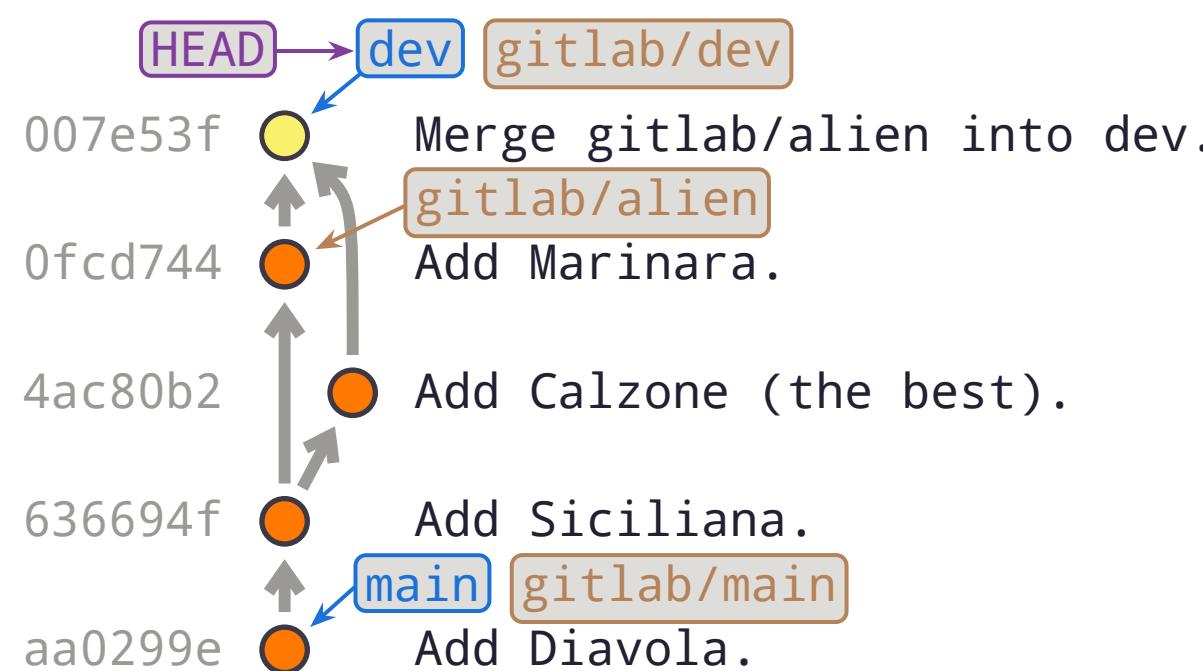
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

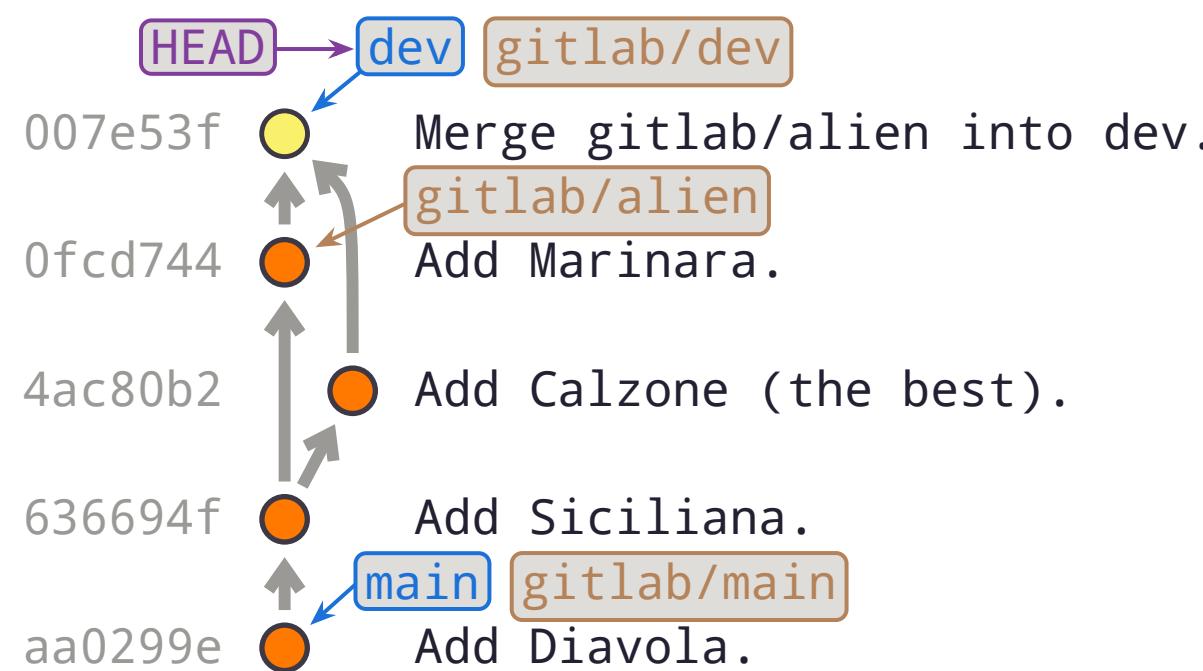
```
$ git push --force gitlab dev
```



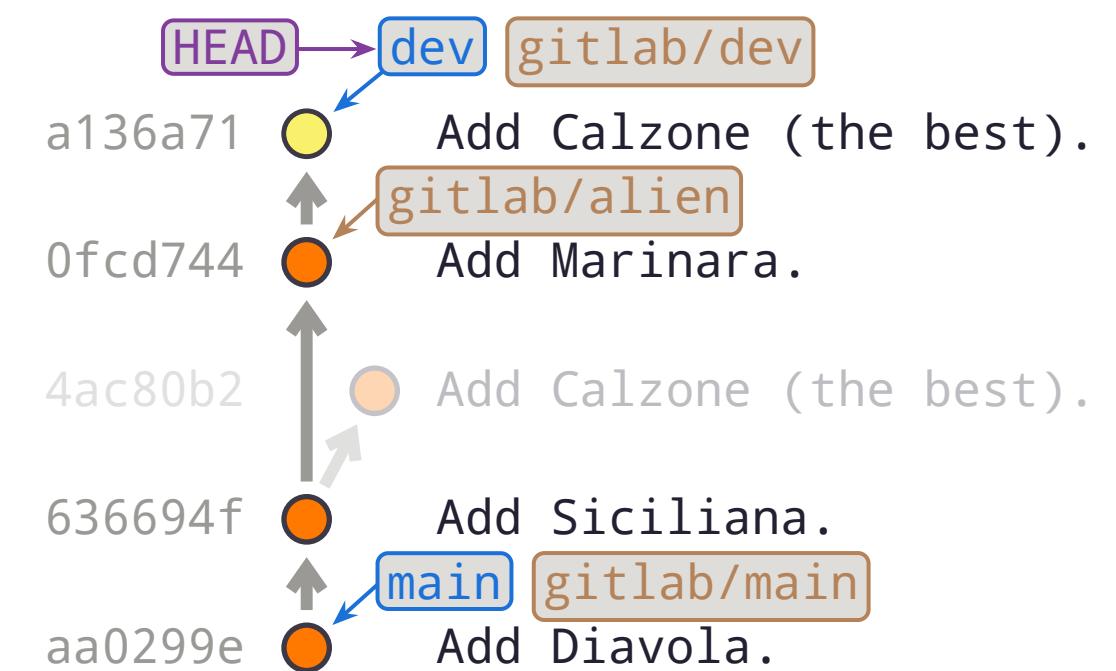
# Merge and Rebase

Two Git Philosophies

## Merge strategy



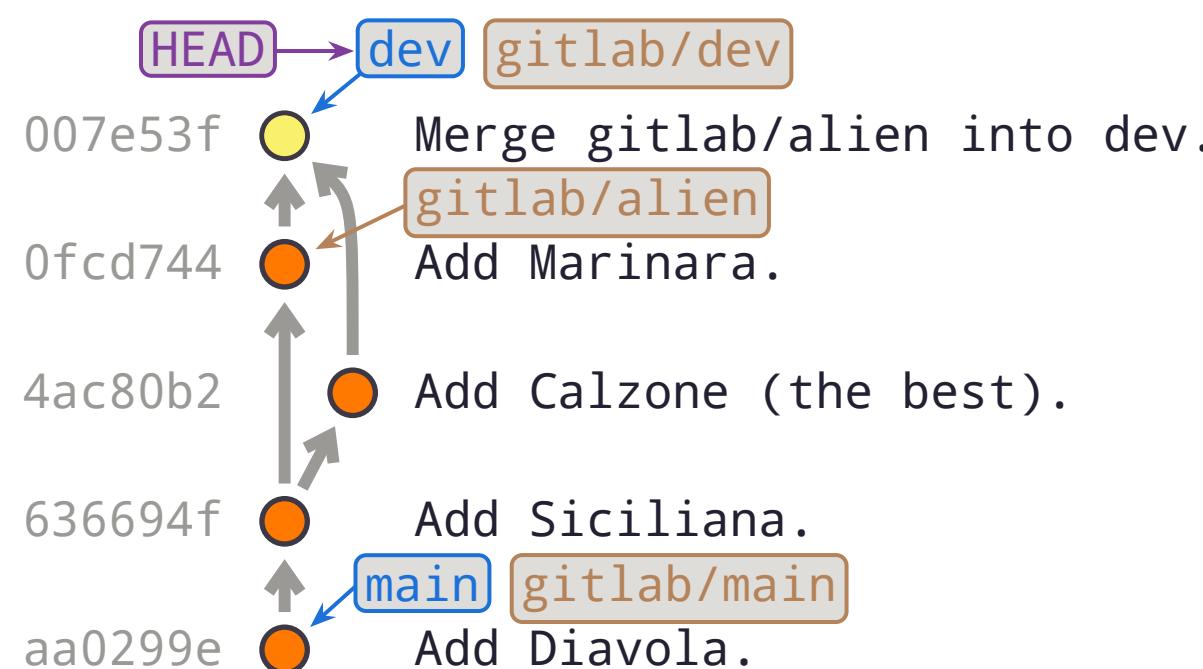
## Rebase strategy



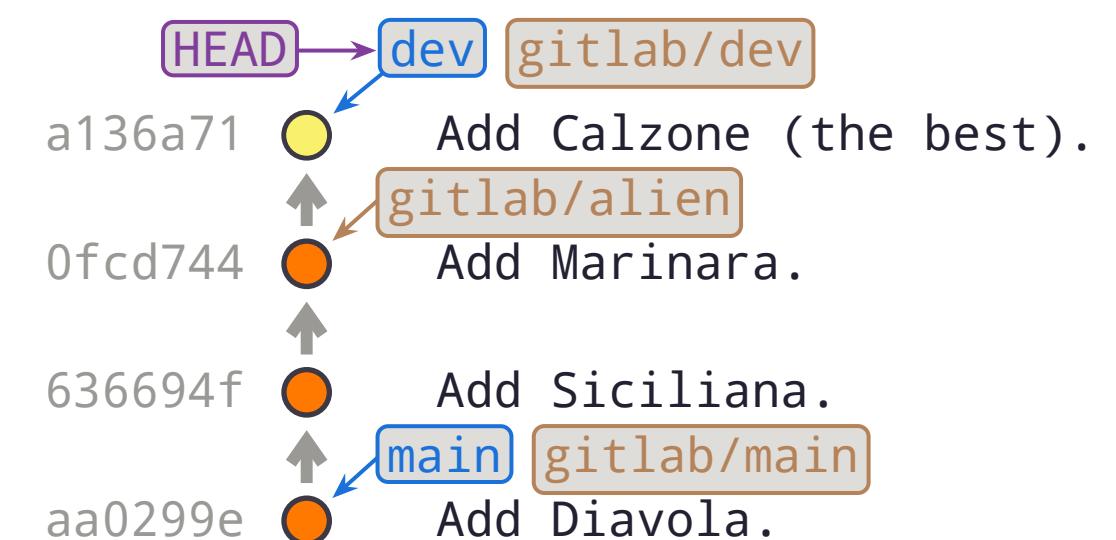
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



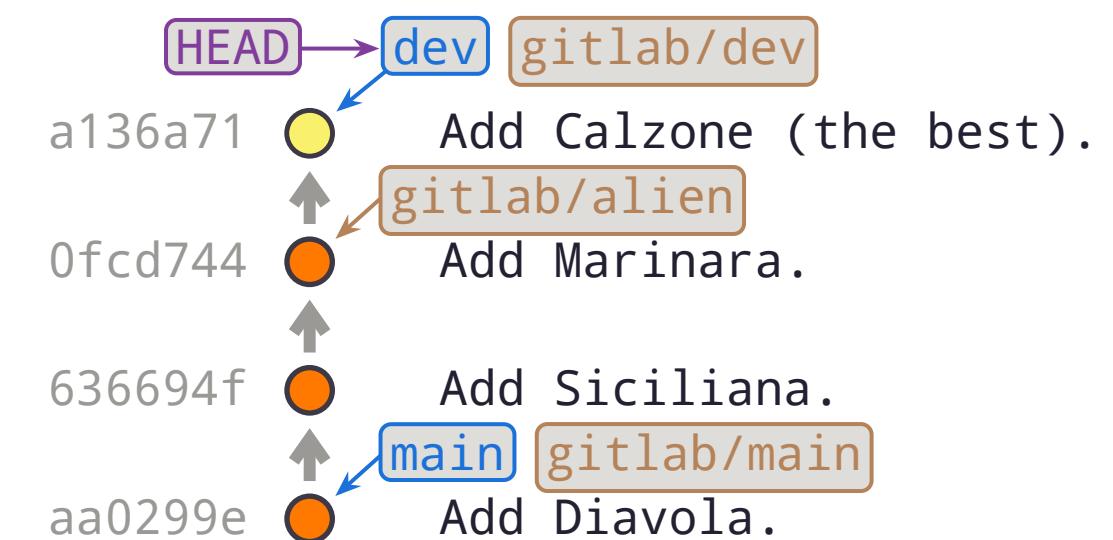
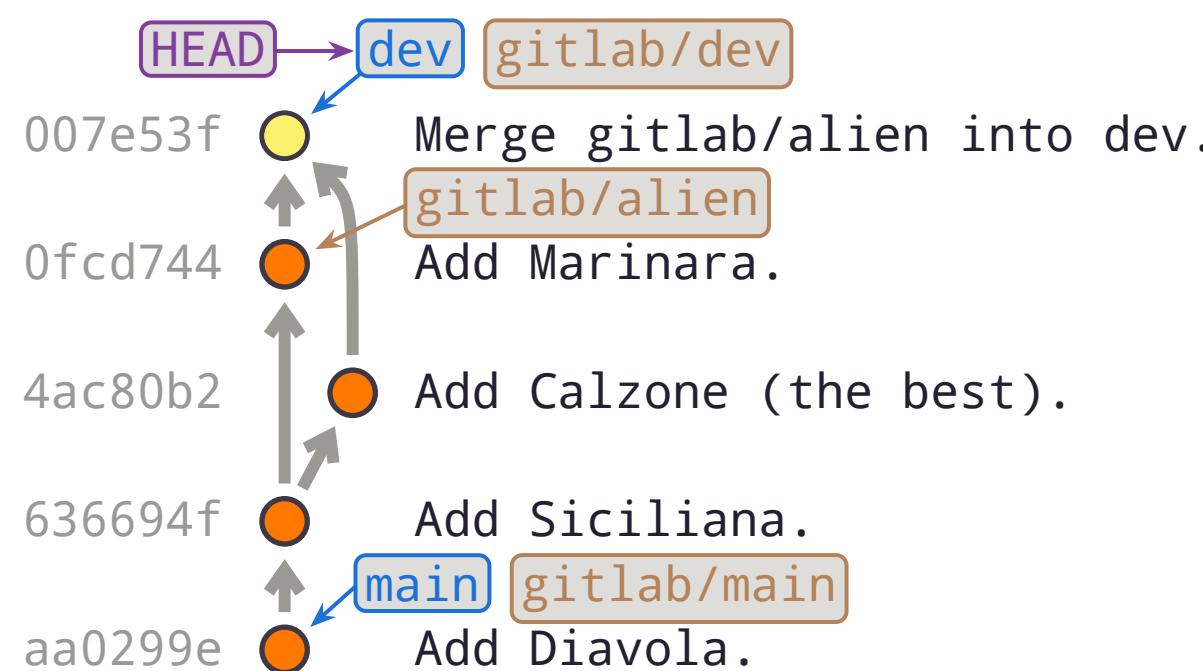
# Merge and Rebase

Two Git Philosophies

## Merge strategy

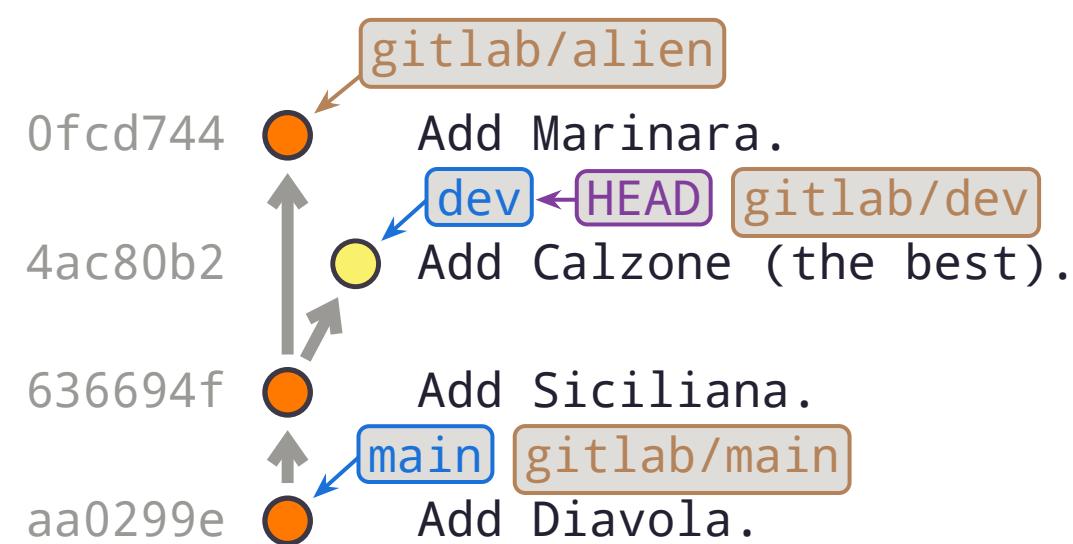
## Rebase strategy

Wait, do this again.



# Merge and Rebase

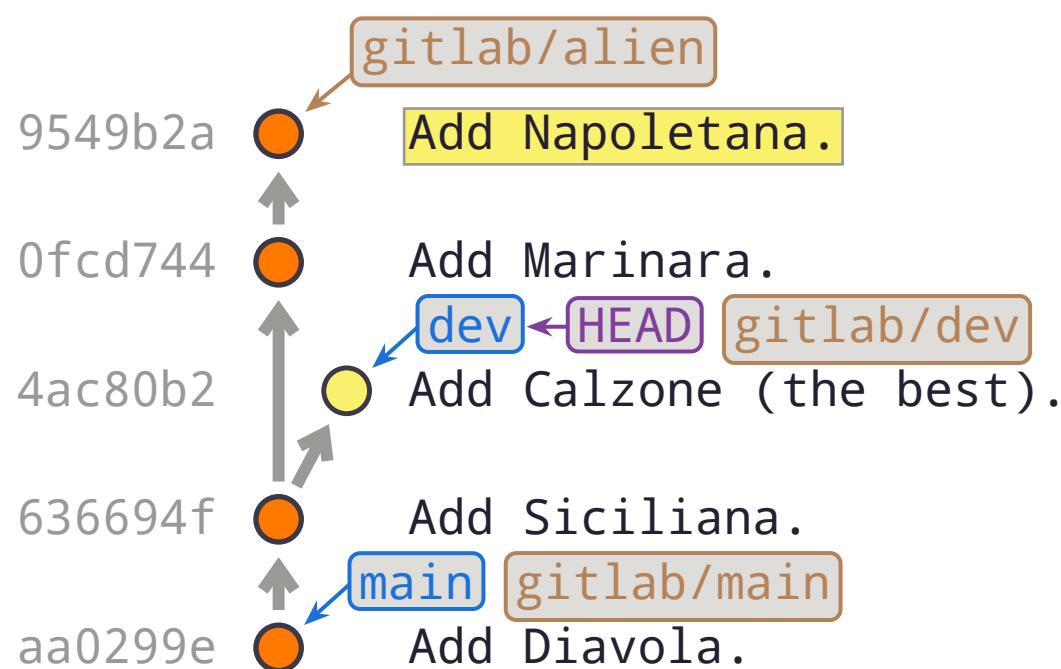
## Two Git Philosophies



# Merge and Rebase

## Two Git Philosophies

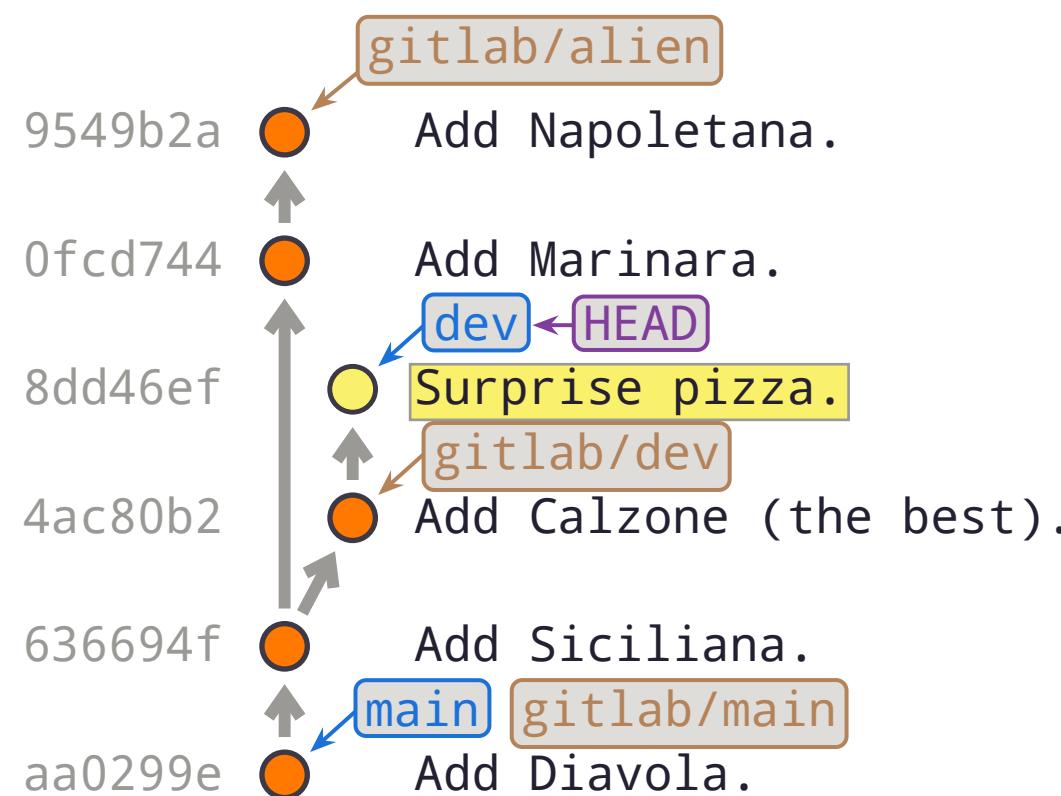
```
$ git fetch
```



# Merge and Rebase

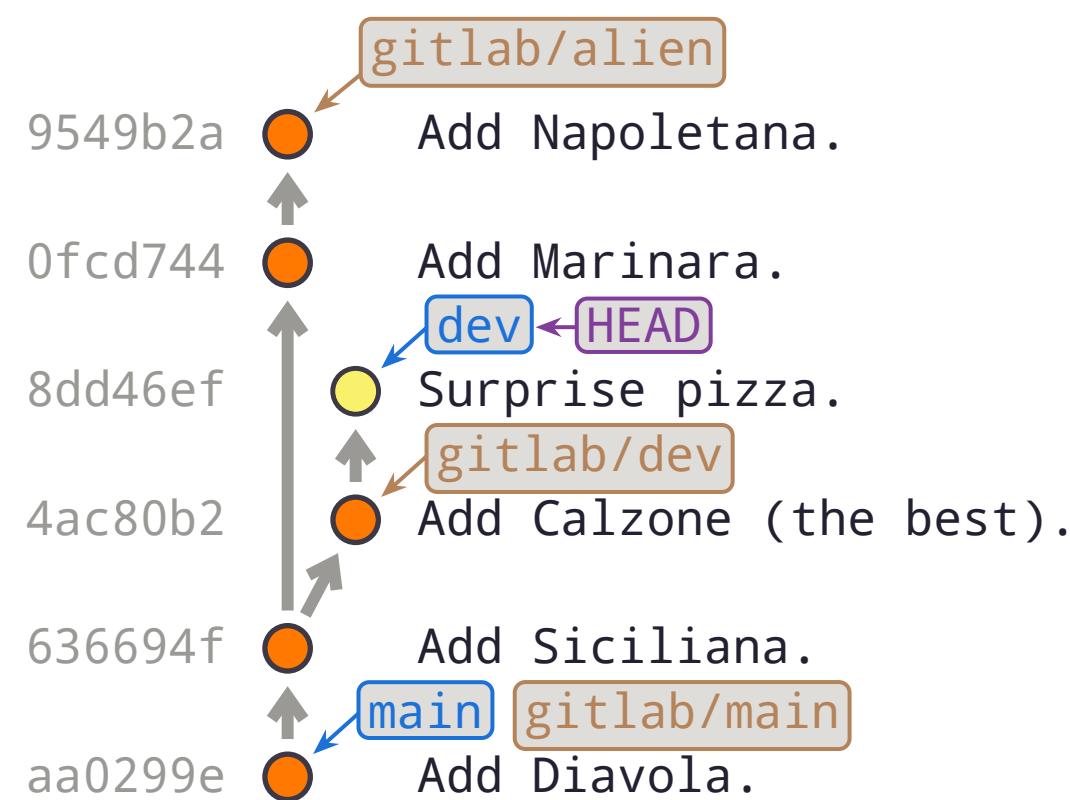
## Two Git Philosophies

```
$ git commit
```



# Merge and Rebase

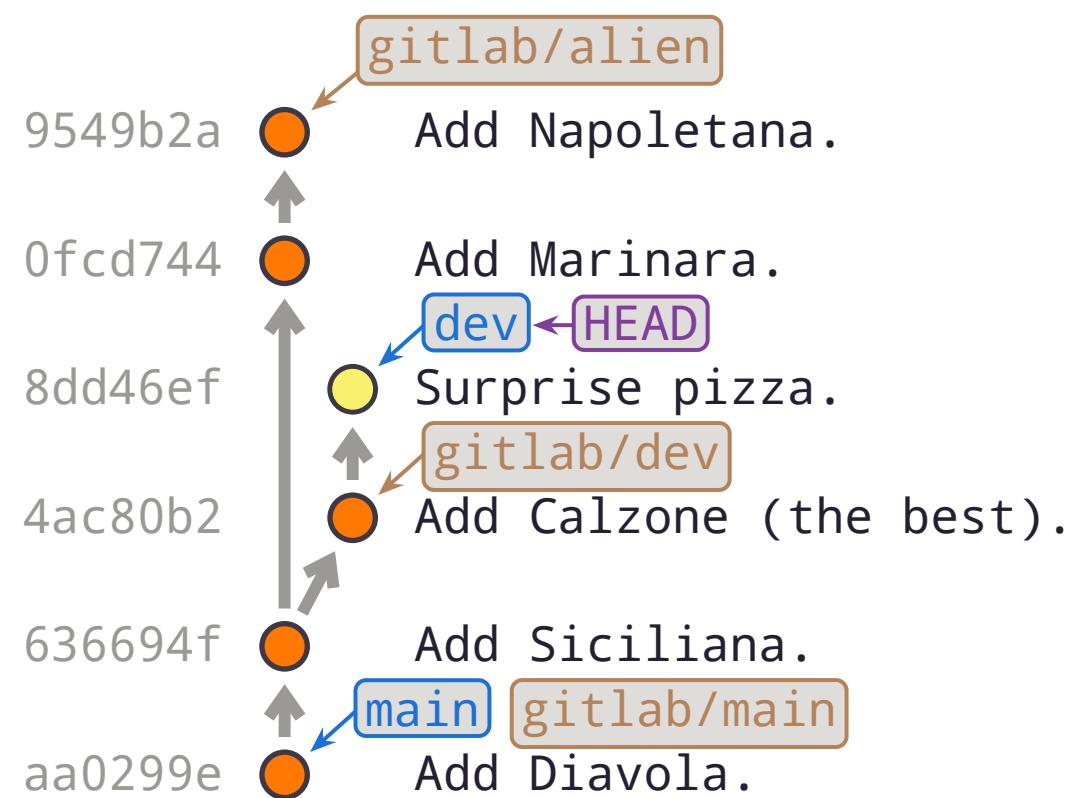
## Two Git Philosophies



# Merge and Rebase

Two Git Philosophies

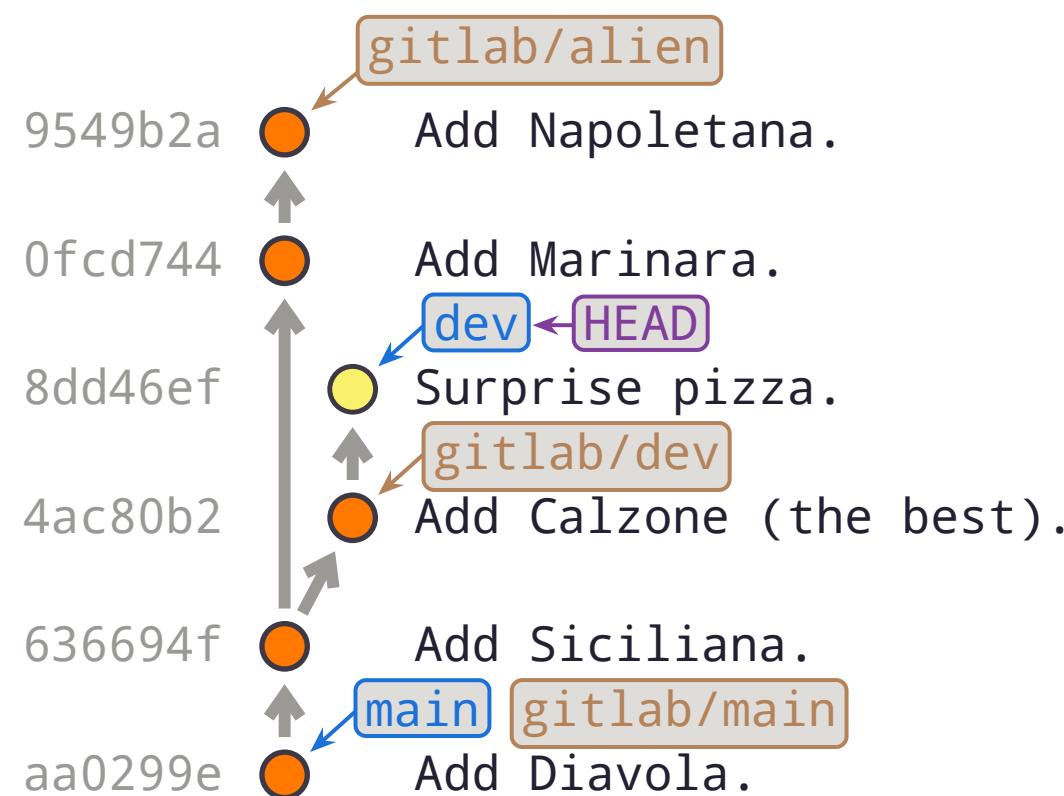
## Merge strategy



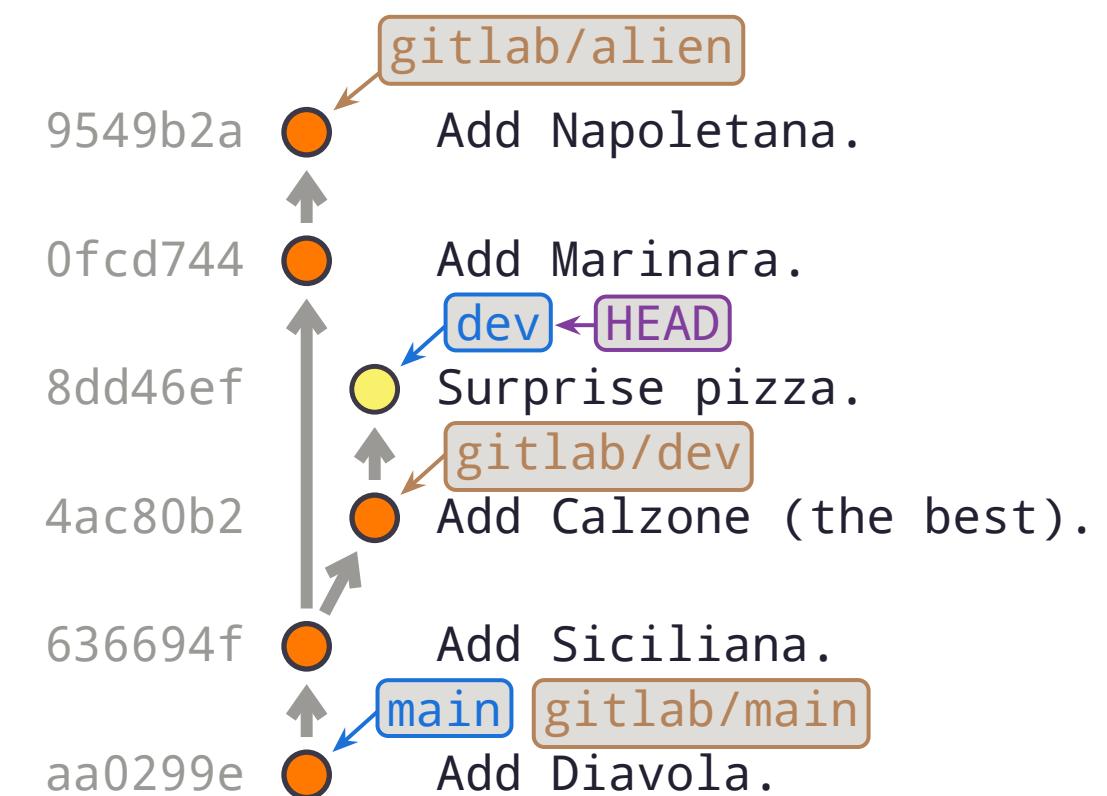
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



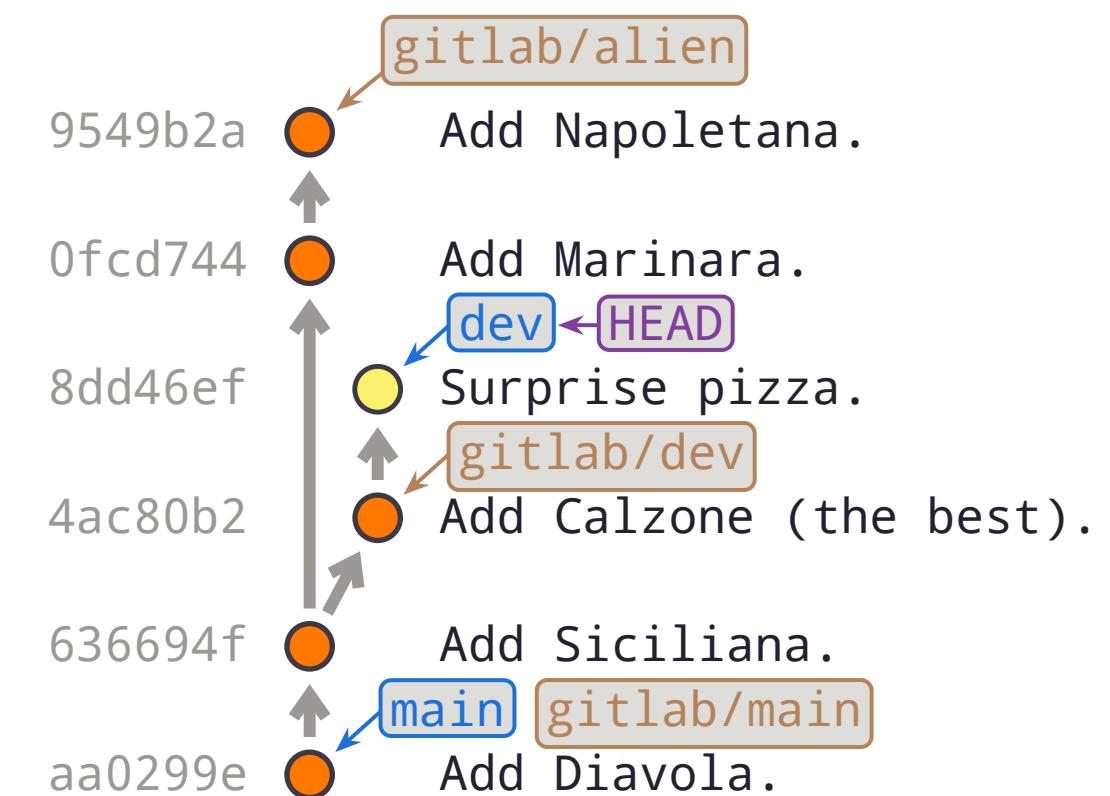
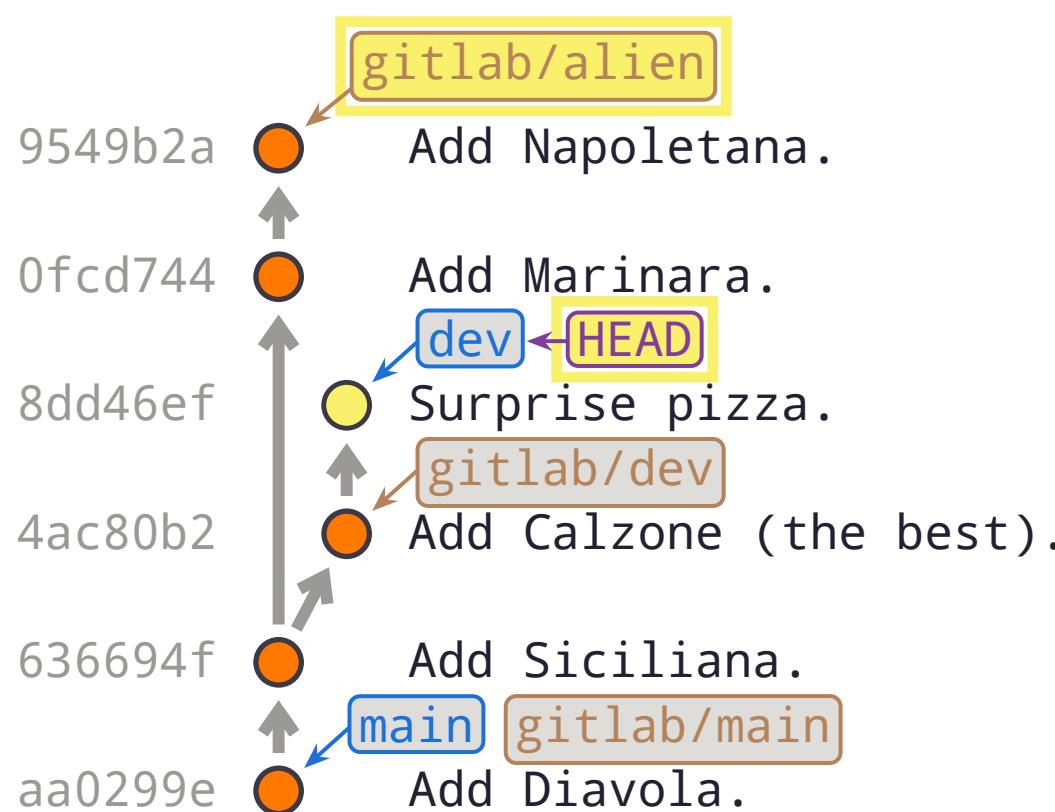
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

```
$ git merge gitlab/alien
```

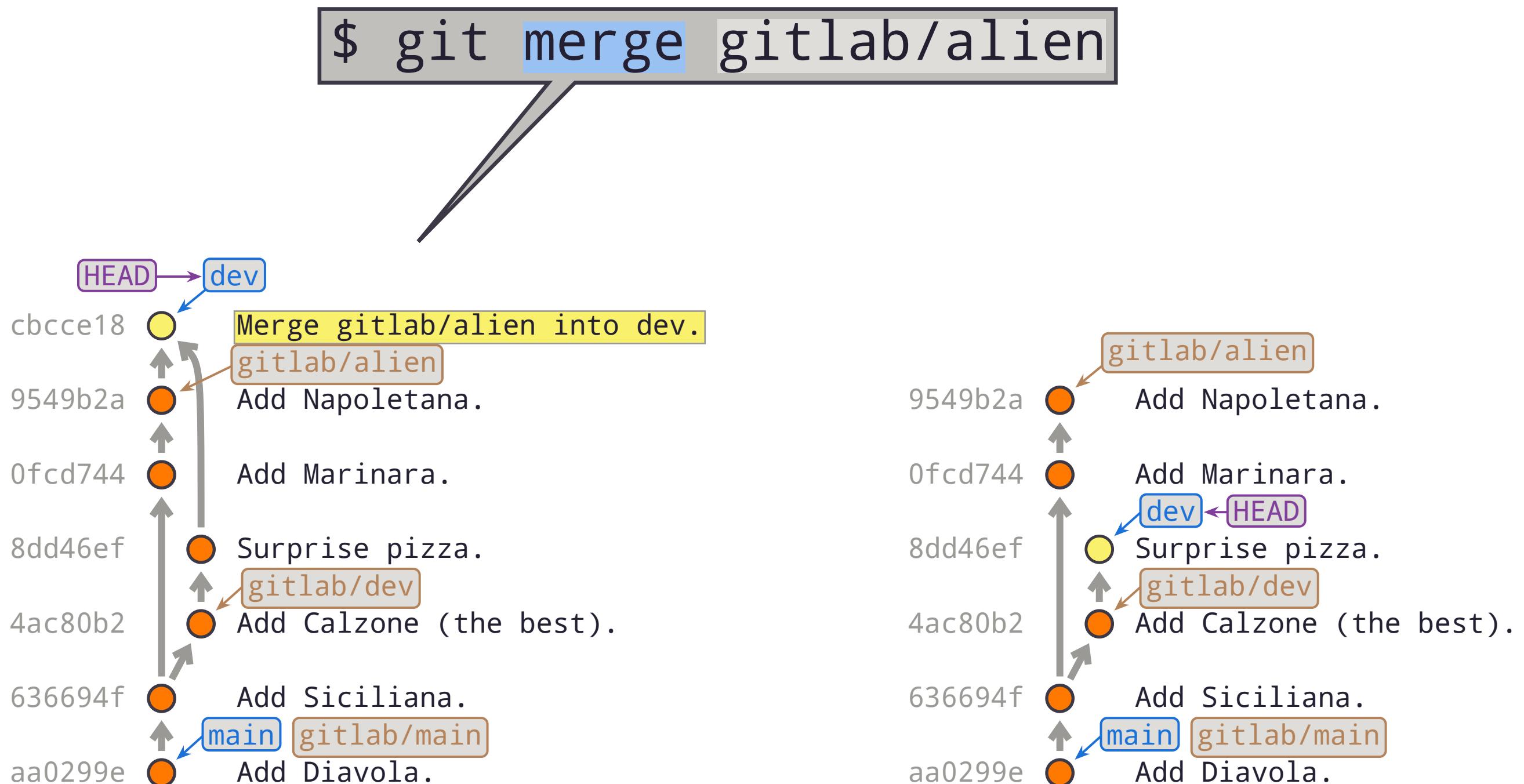


# Merge and Rebase

Two Git Philosophies

## Merge strategy

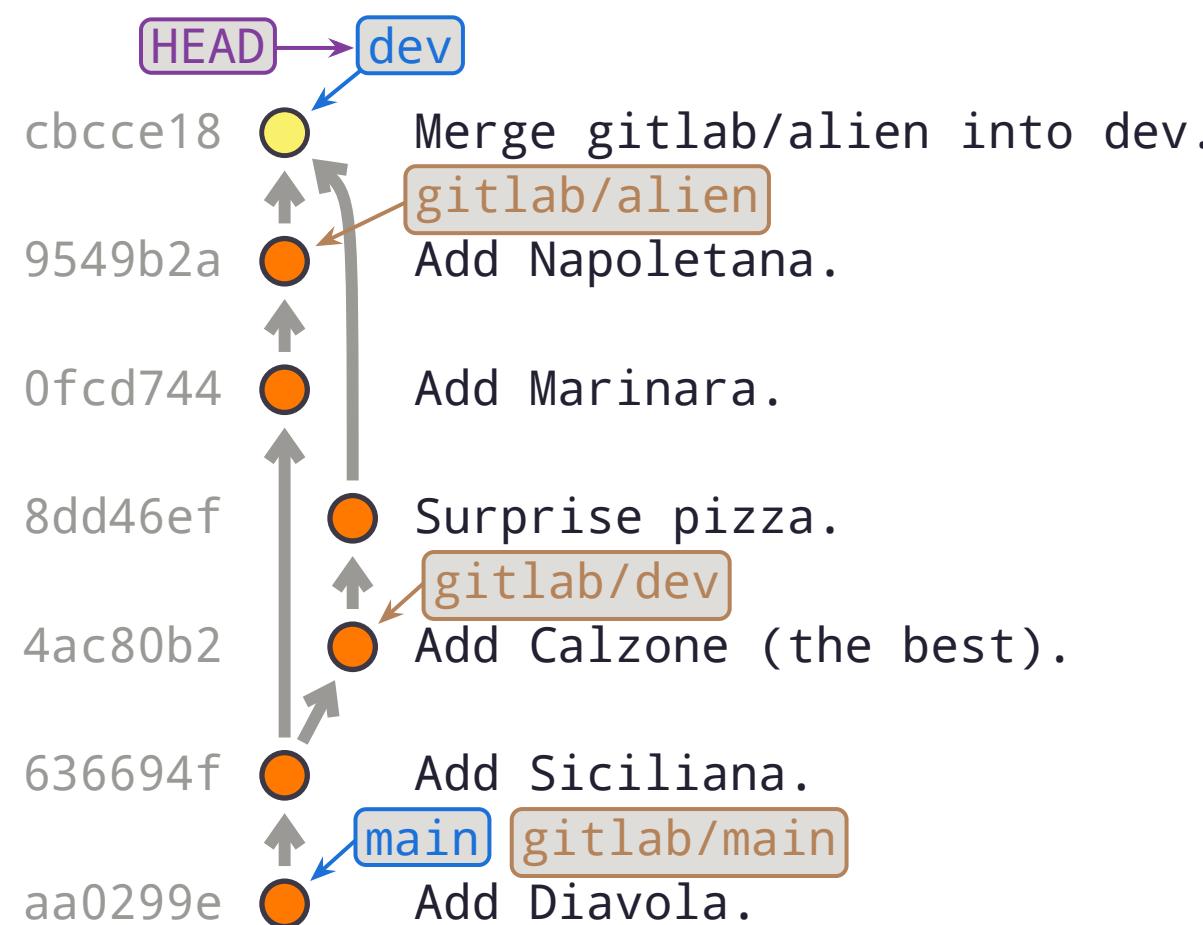
## Rebase strategy



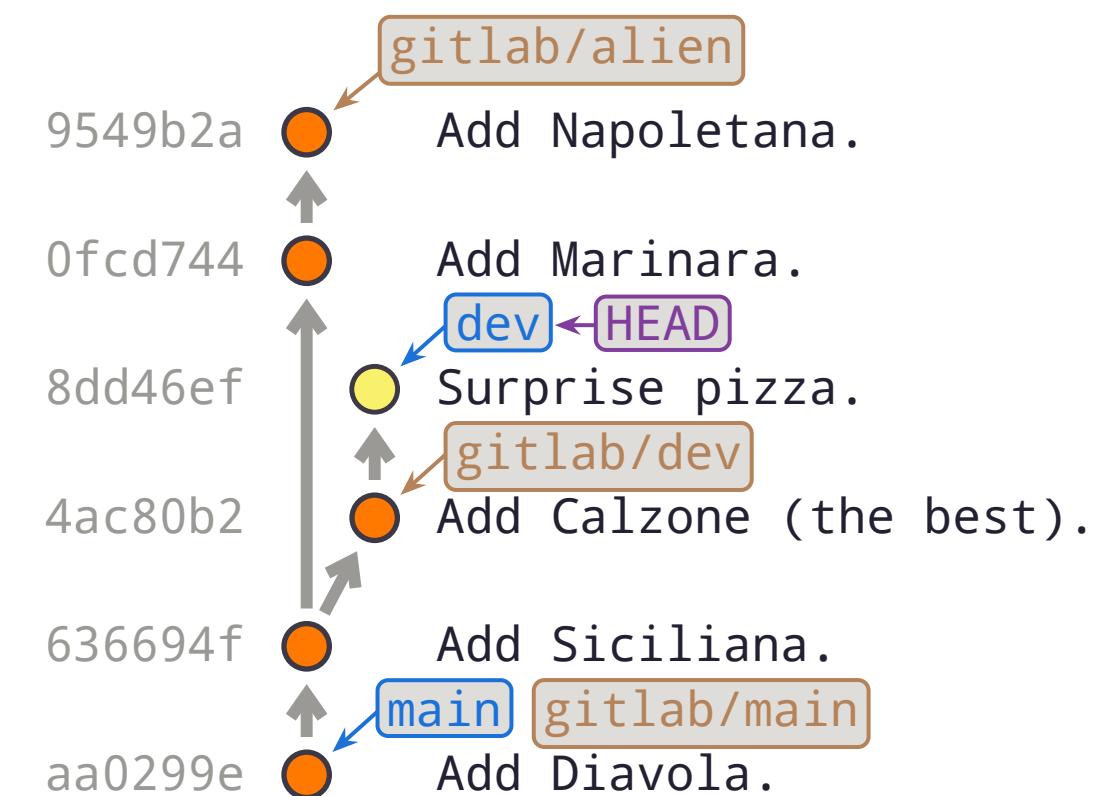
# Merge and Rebase

## Two Git Philosophies

### Merge strategy



### Rebase strategy

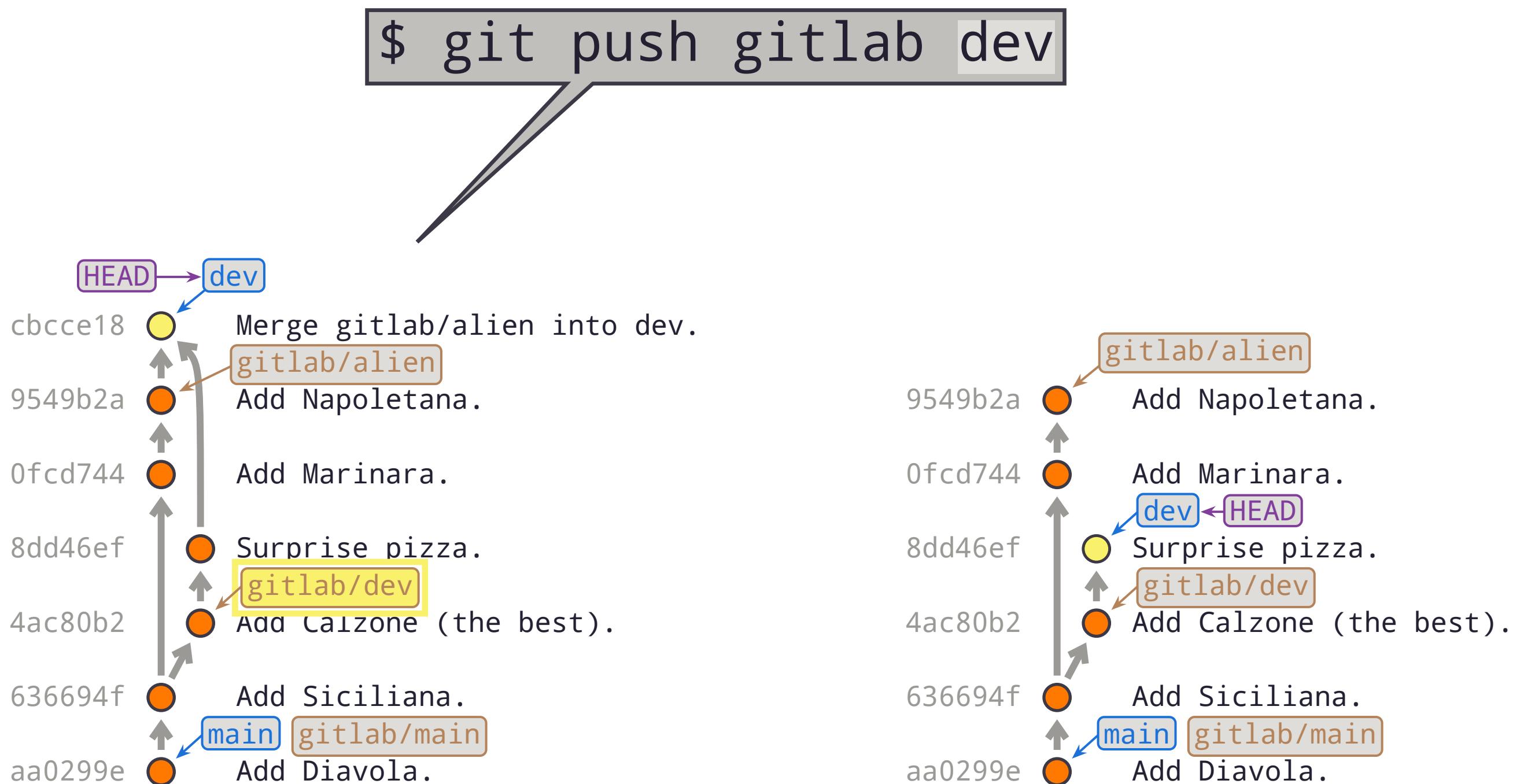


# Merge and Rebase

Two Git Philosophies

## Merge strategy

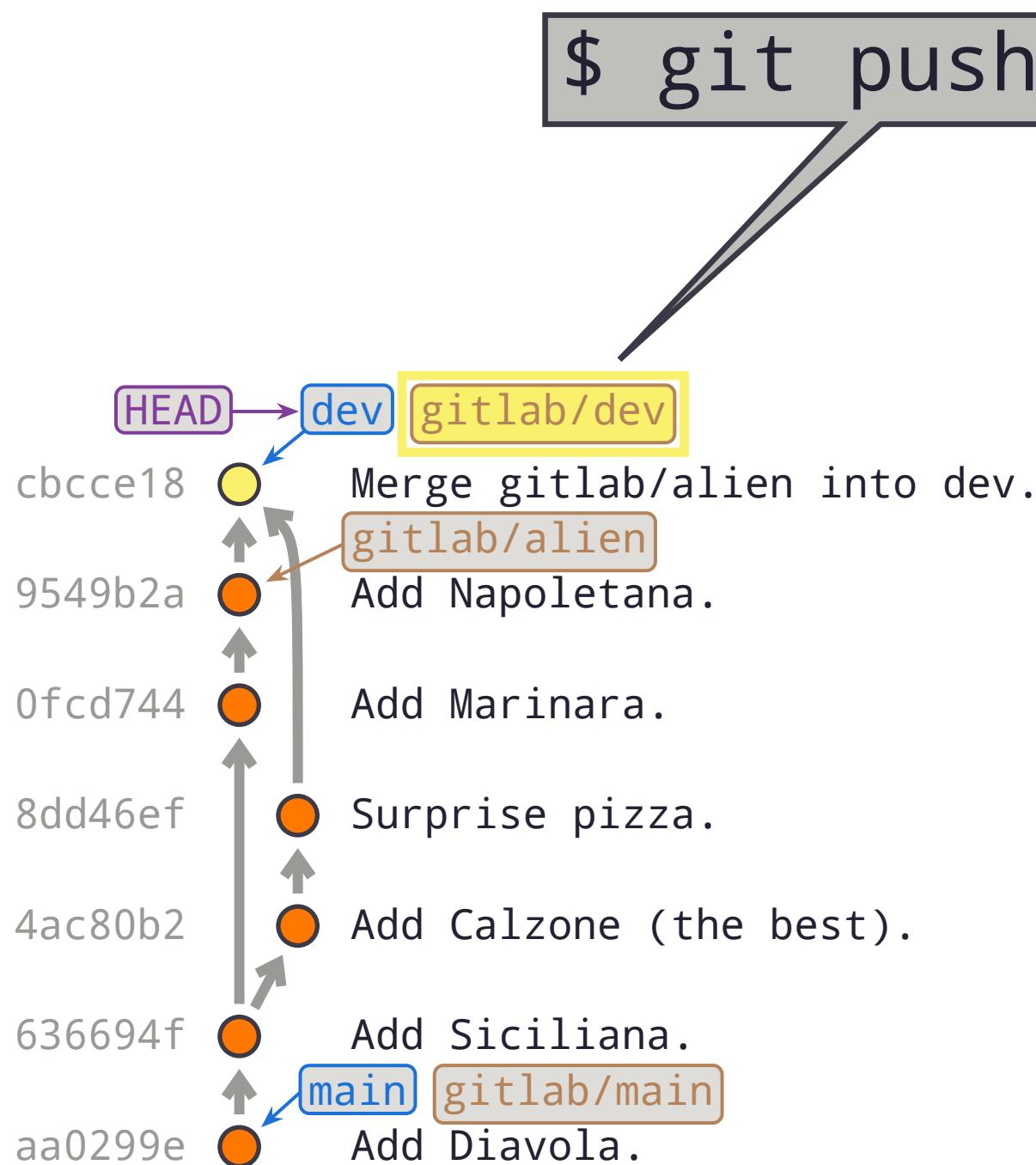
## Rebase strategy



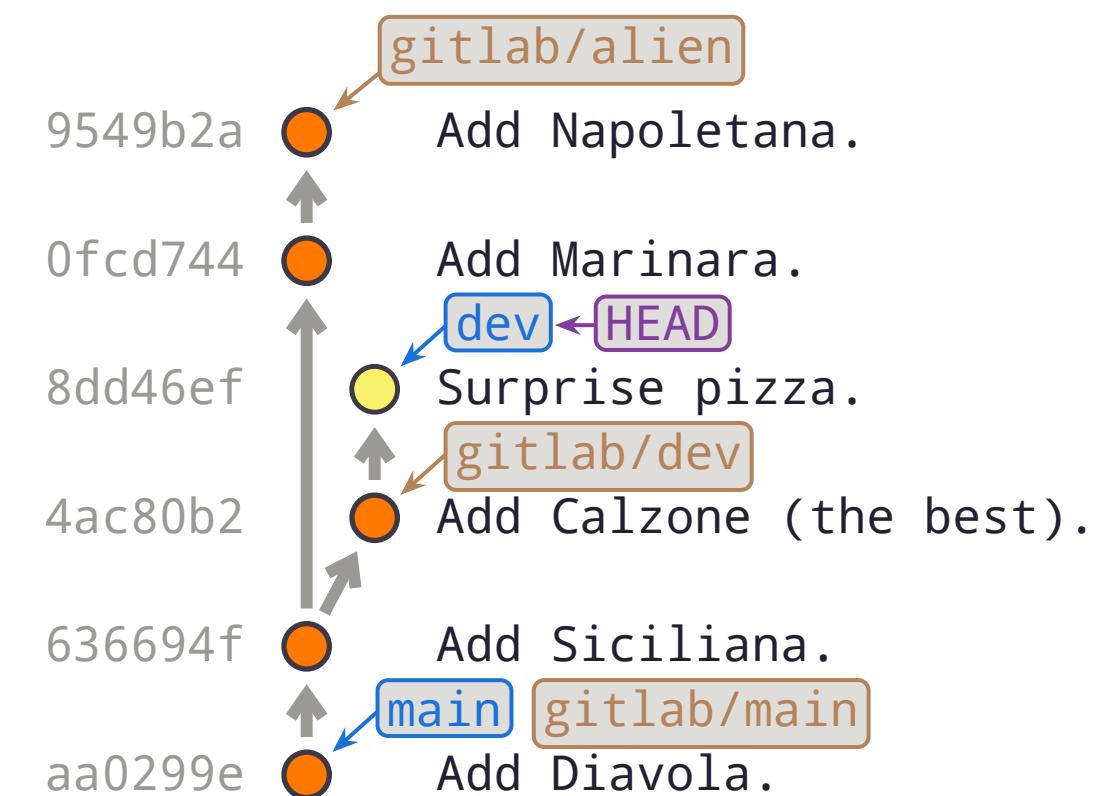
# Merge and Rebase

Two Git Philosophies

## Merge strategy



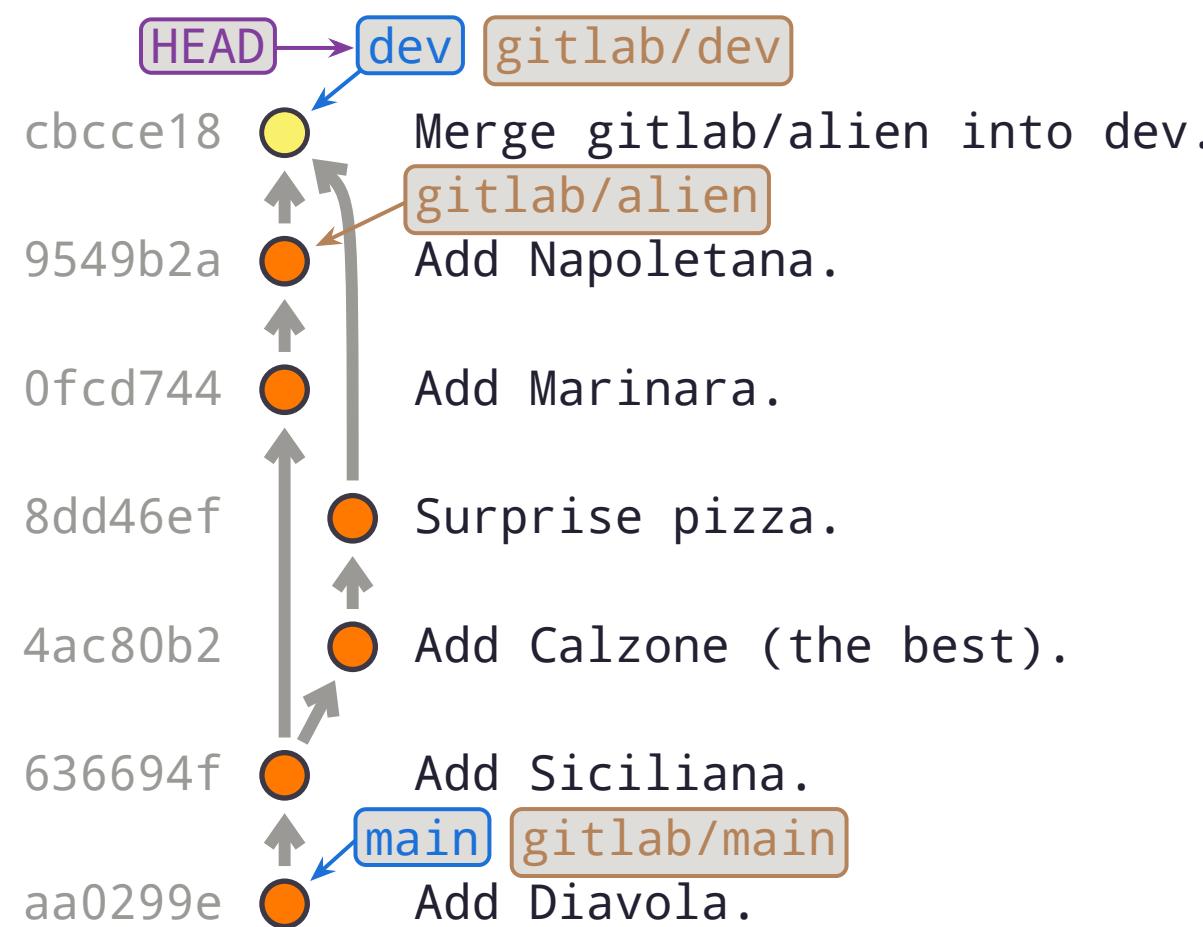
## Rebase strategy



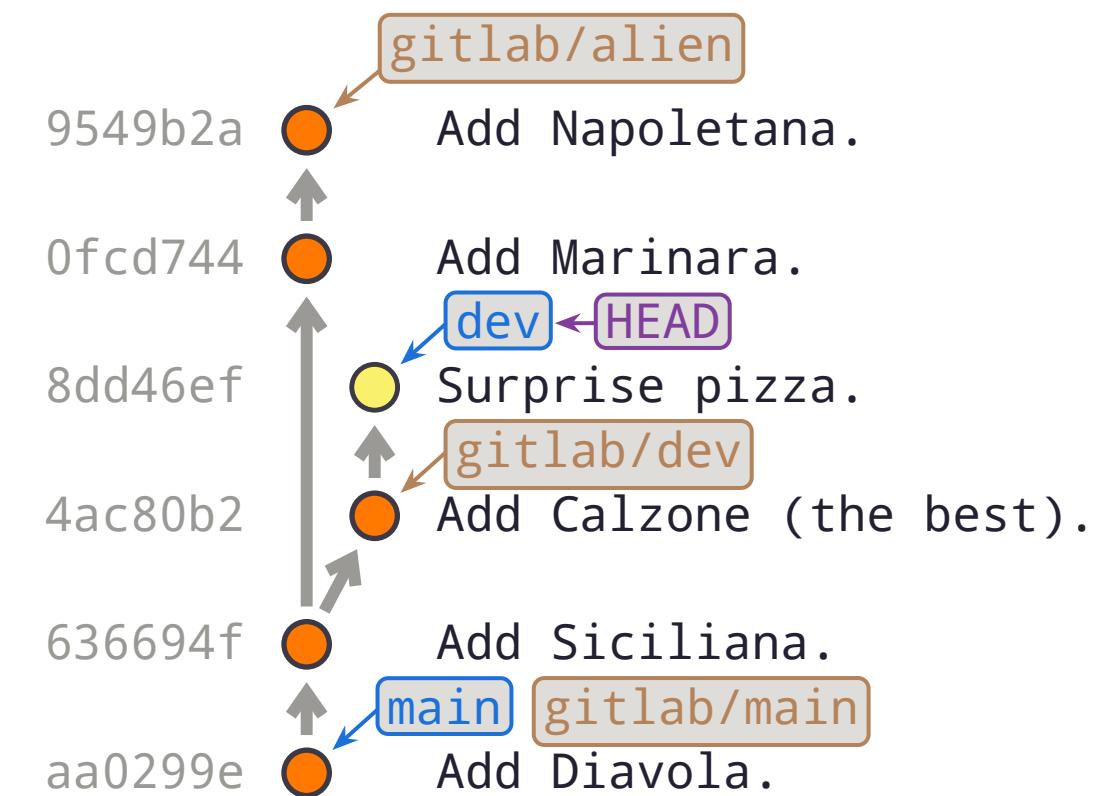
# Merge and Rebase

## Two Git Philosophies

### Merge strategy



### Rebase strategy



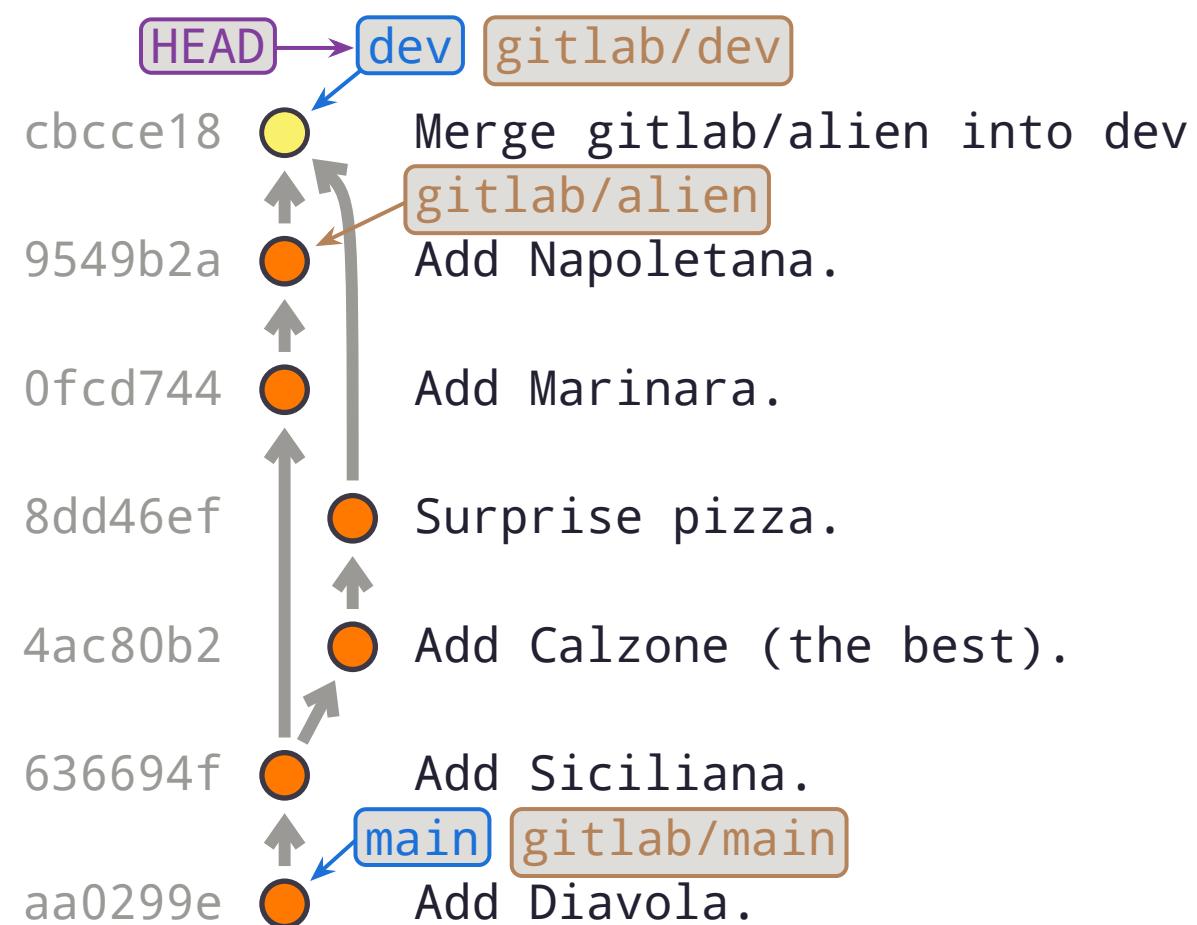
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

```
$ git rebase gitlab/alien
```



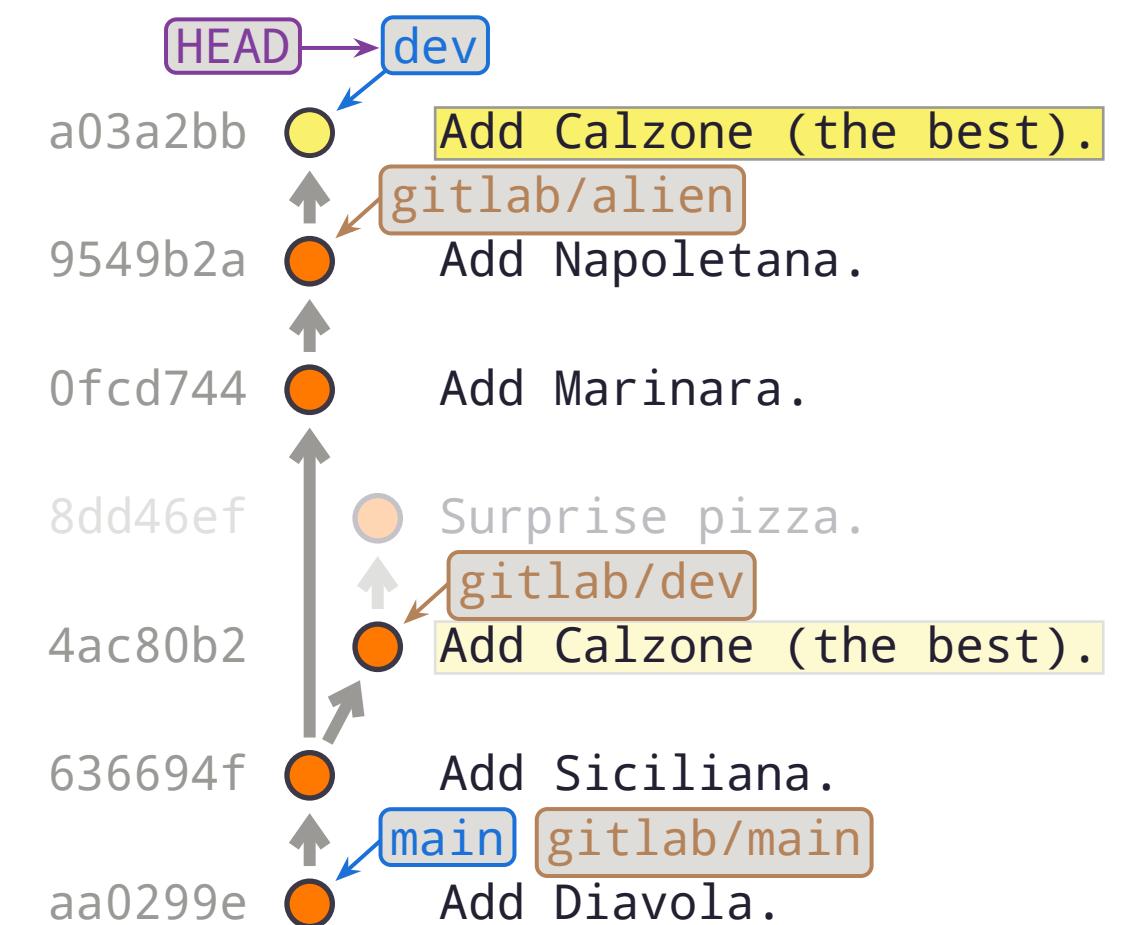
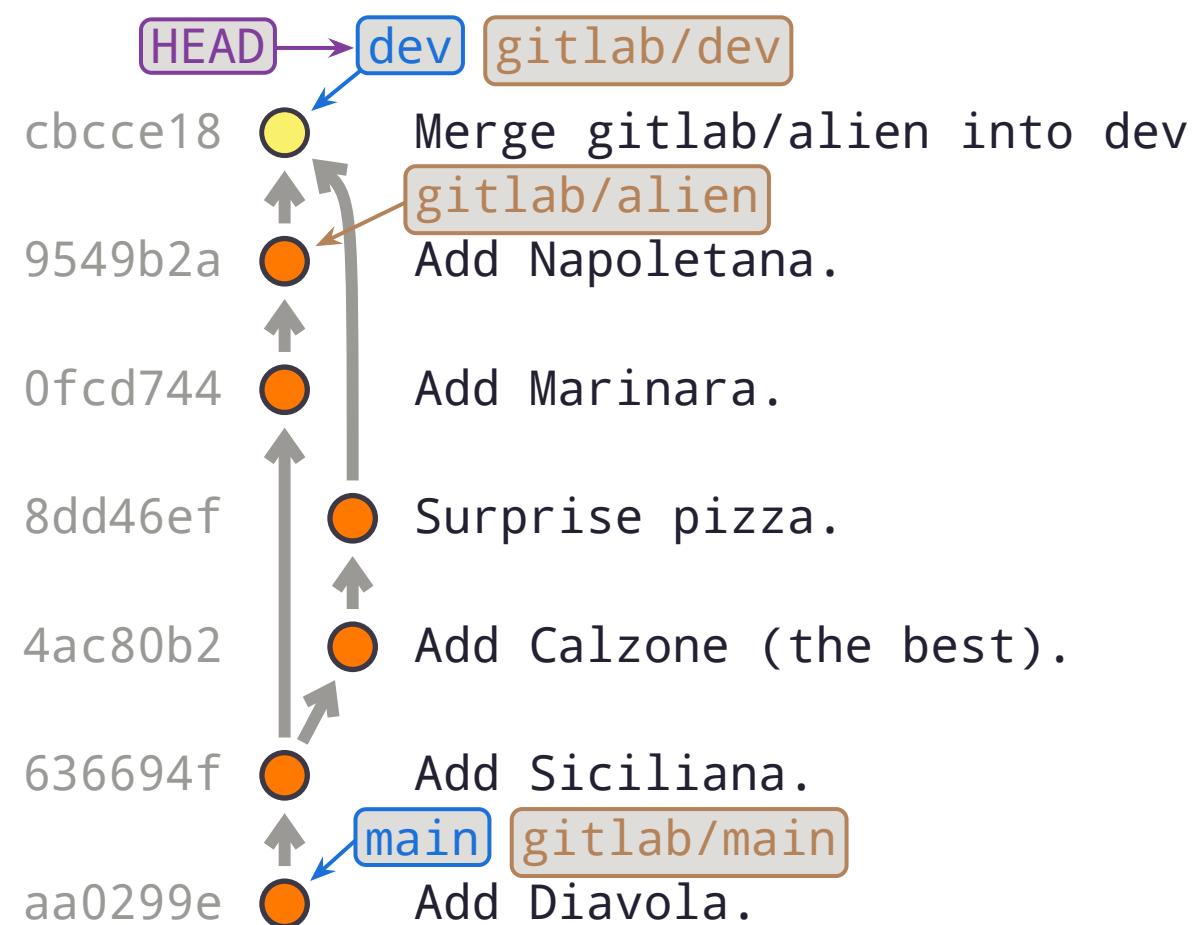
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

```
$ git rebase gitlab/alien
```



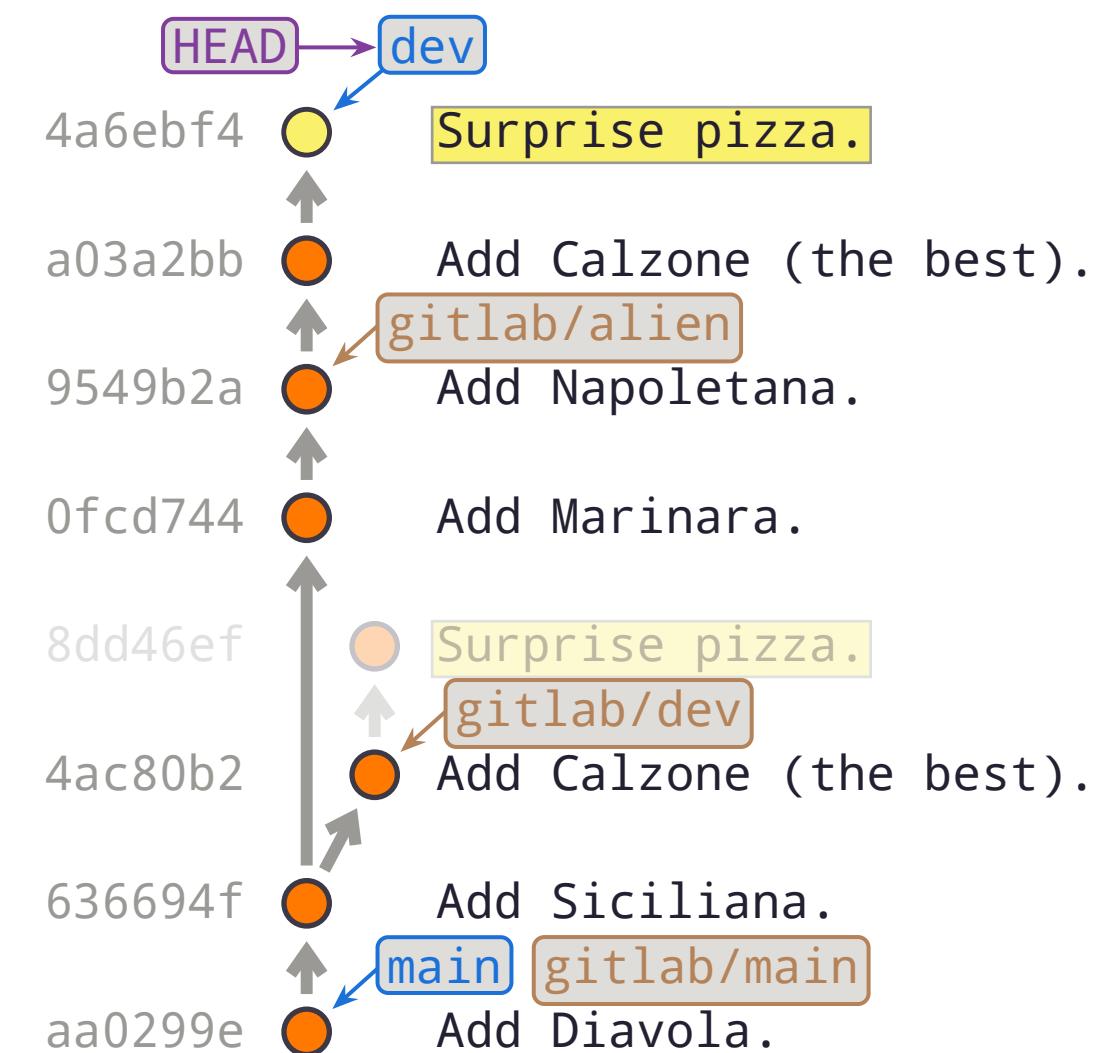
# Merge and Rebase

Two Git Philosophies

## Merge strategy



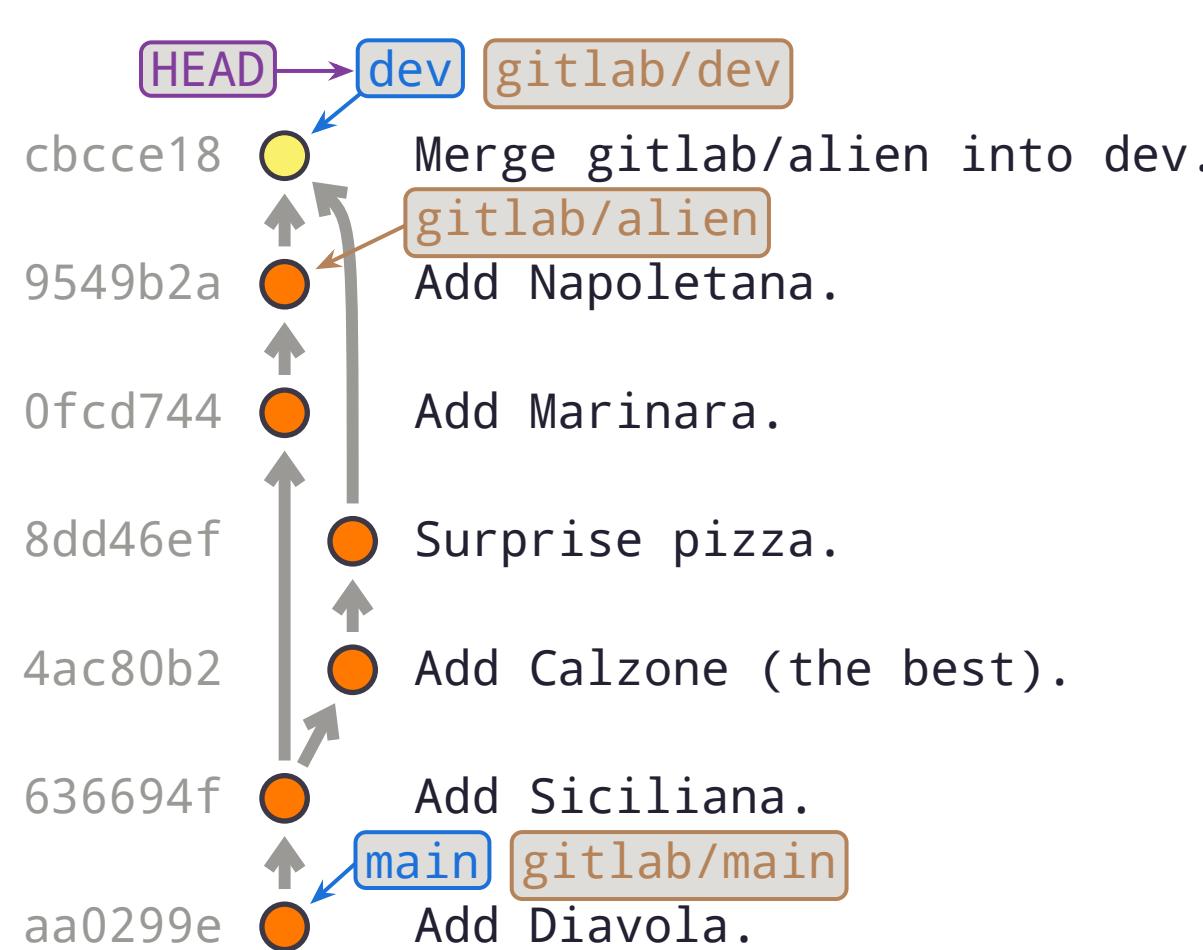
## Rebase strategy



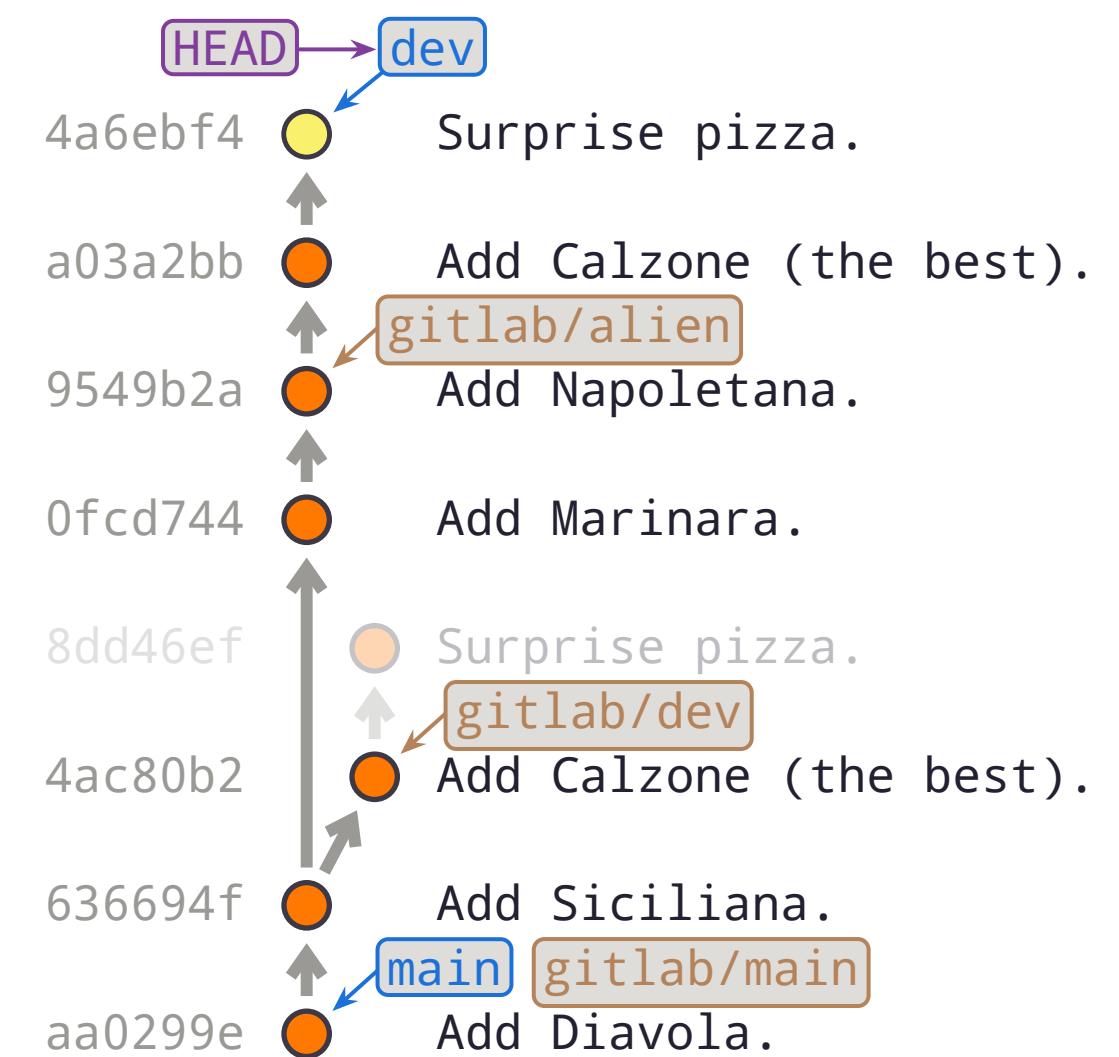
# Merge and Rebase

Two Git Philosophies

## Merge strategy



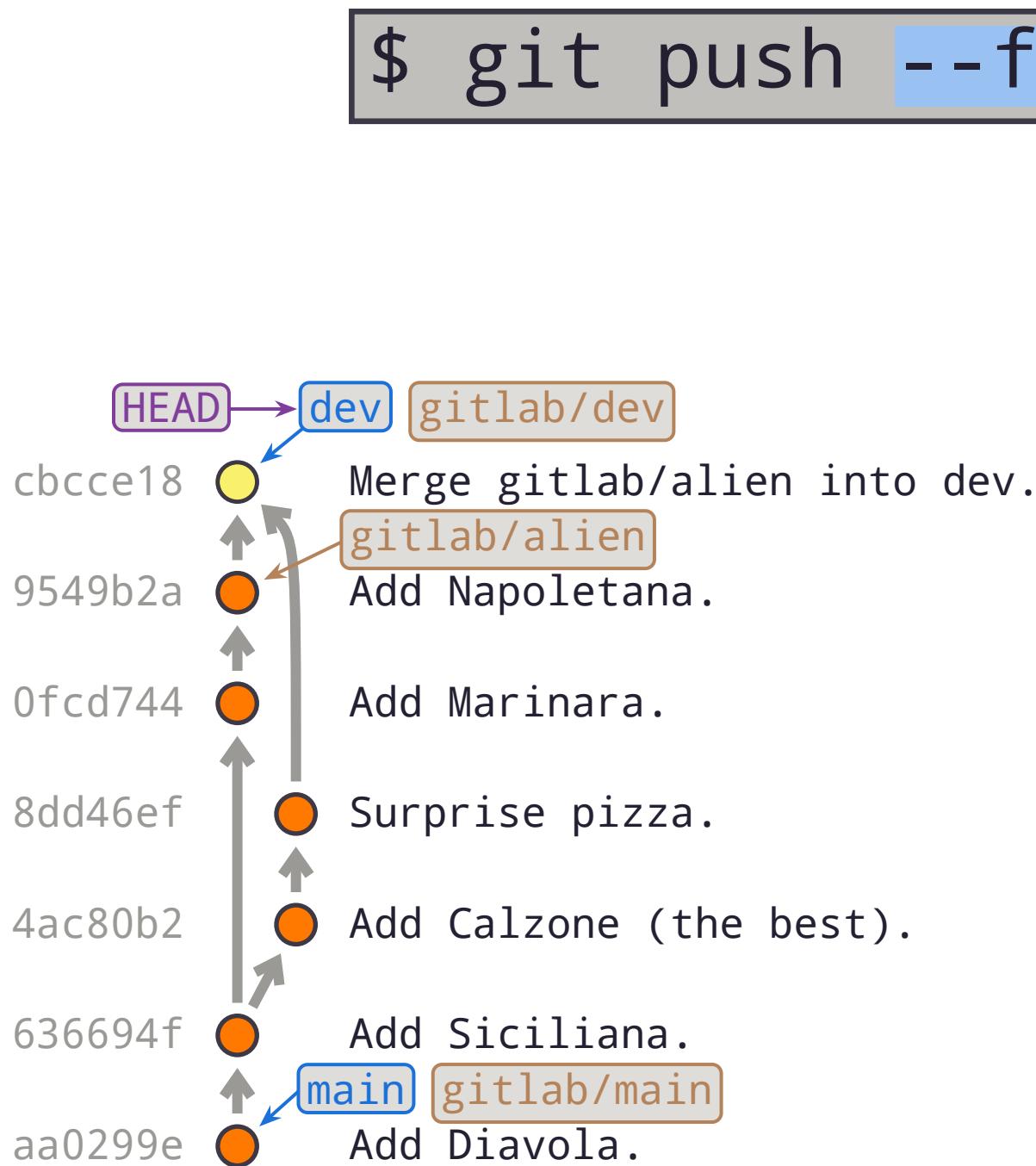
## Rebase strategy



# Merge and Rebase

Two Git Philosophies

## Merge strategy



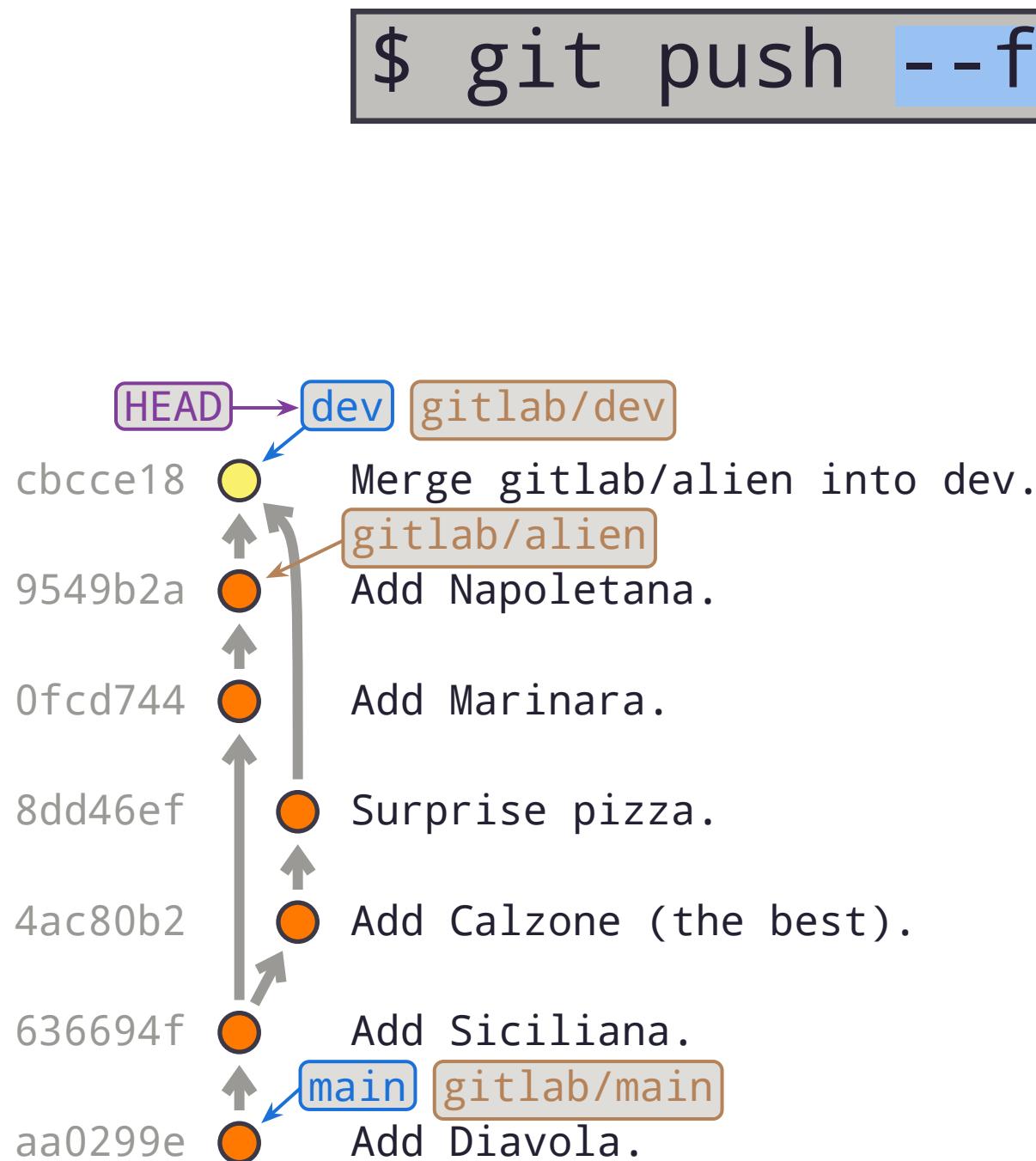
## Rebase strategy



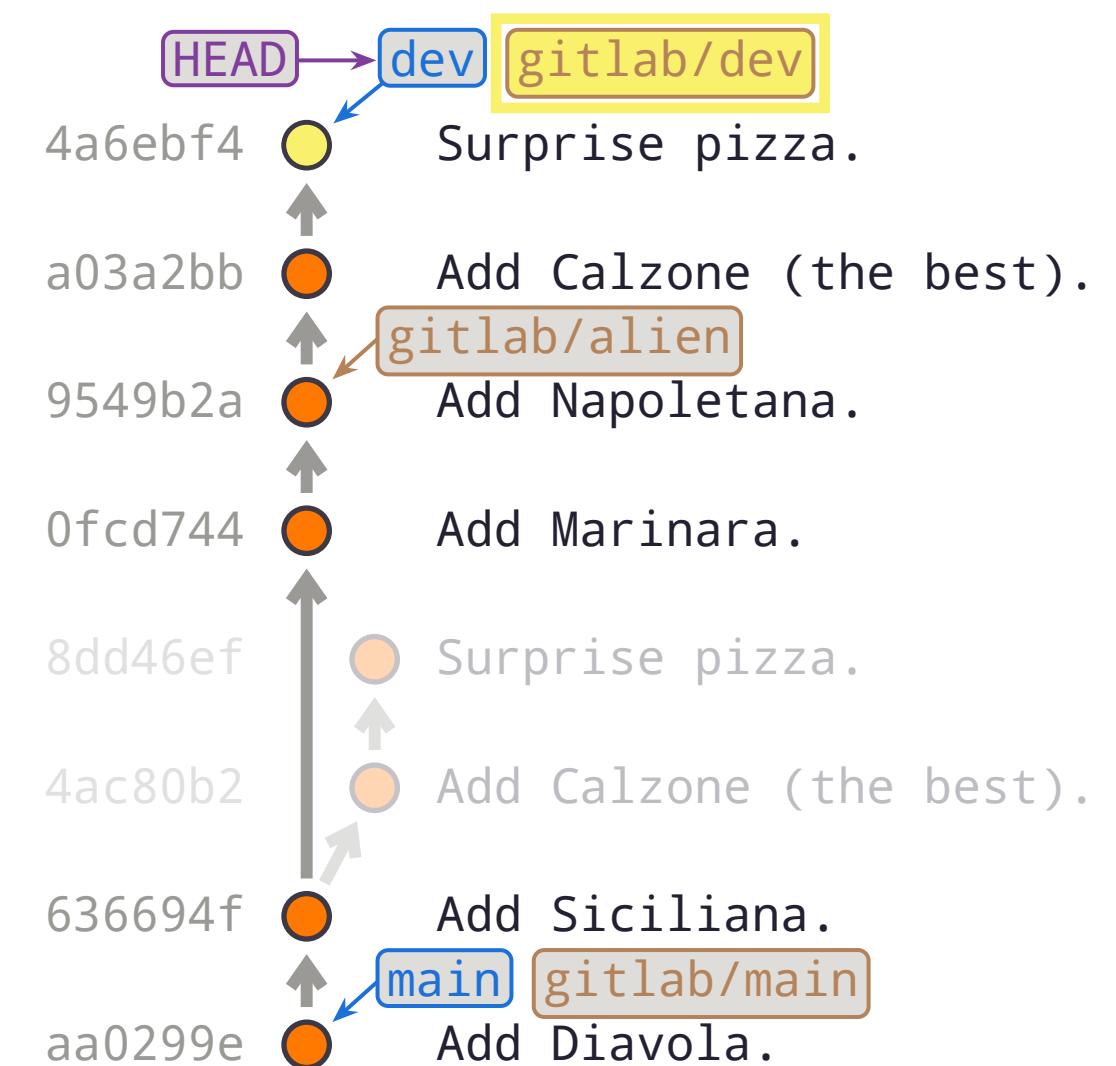
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



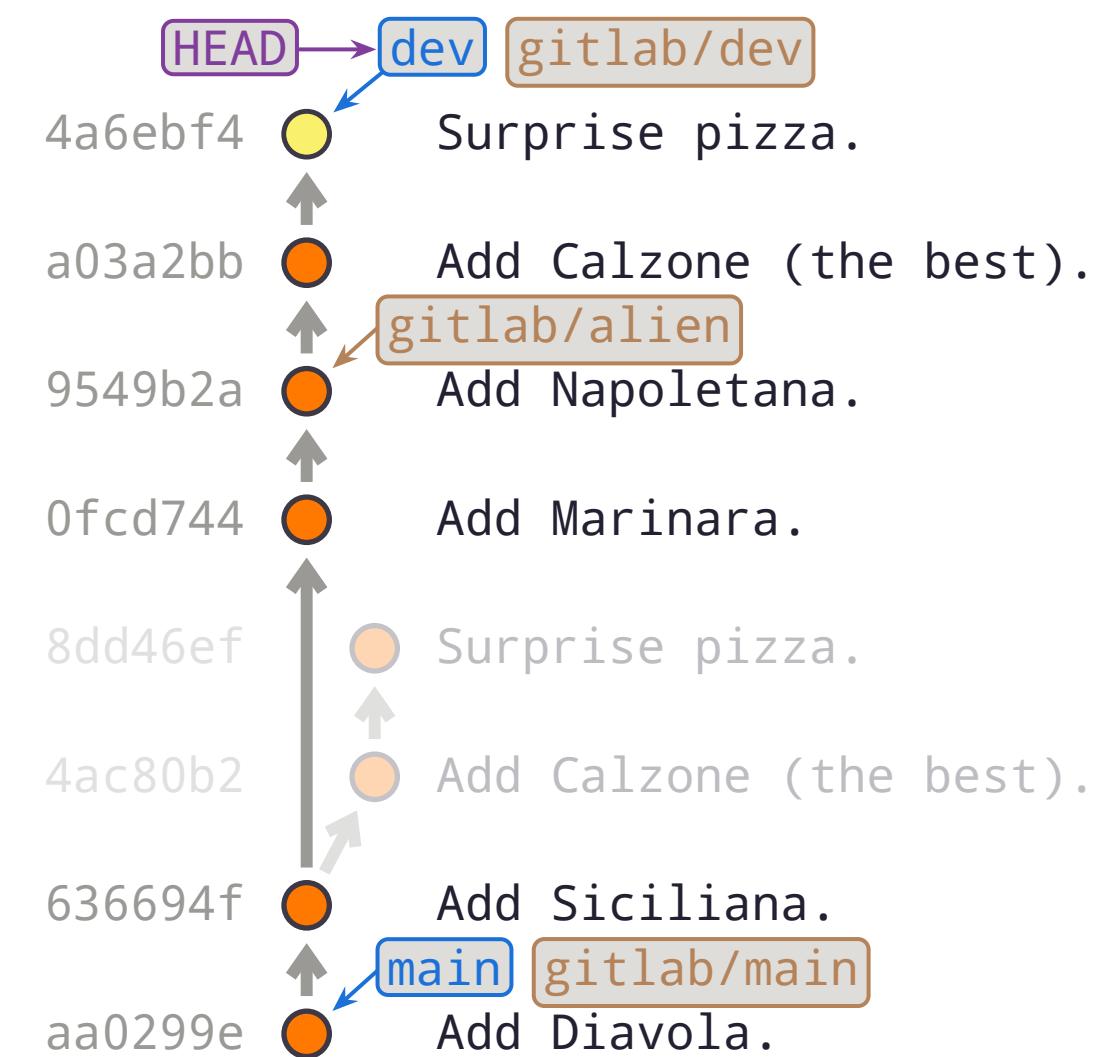
# Merge and Rebase

Two Git Philosophies

## Merge strategy



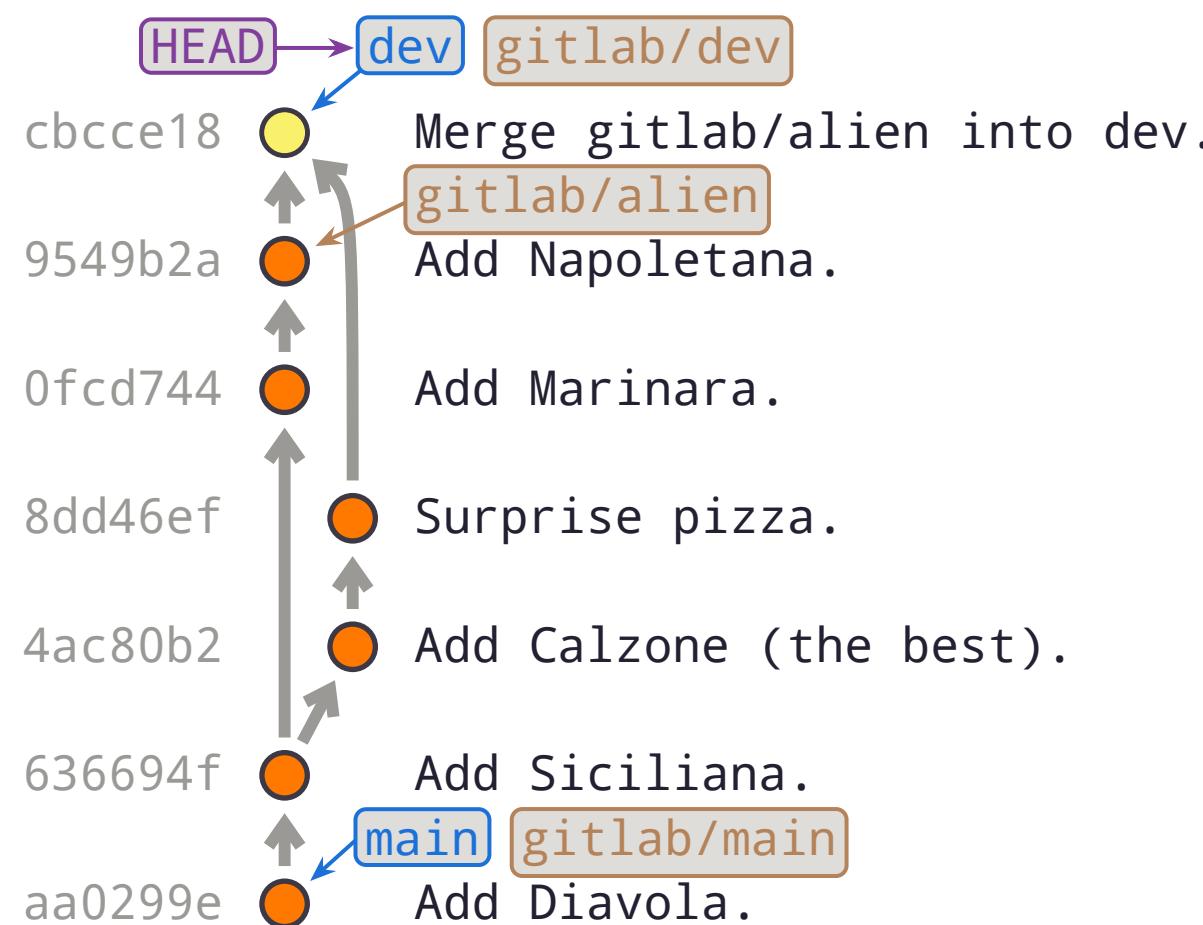
## Rebase strategy



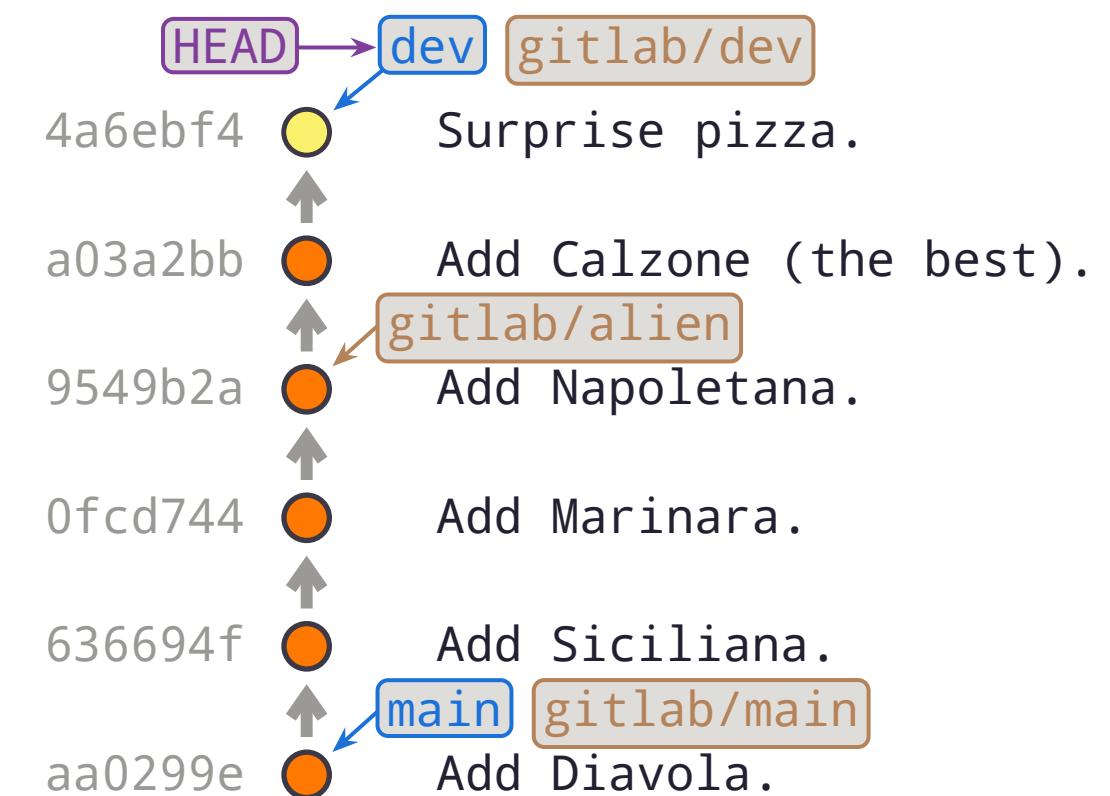
# Merge and Rebase

Two Git Philosophies

## Merge strategy



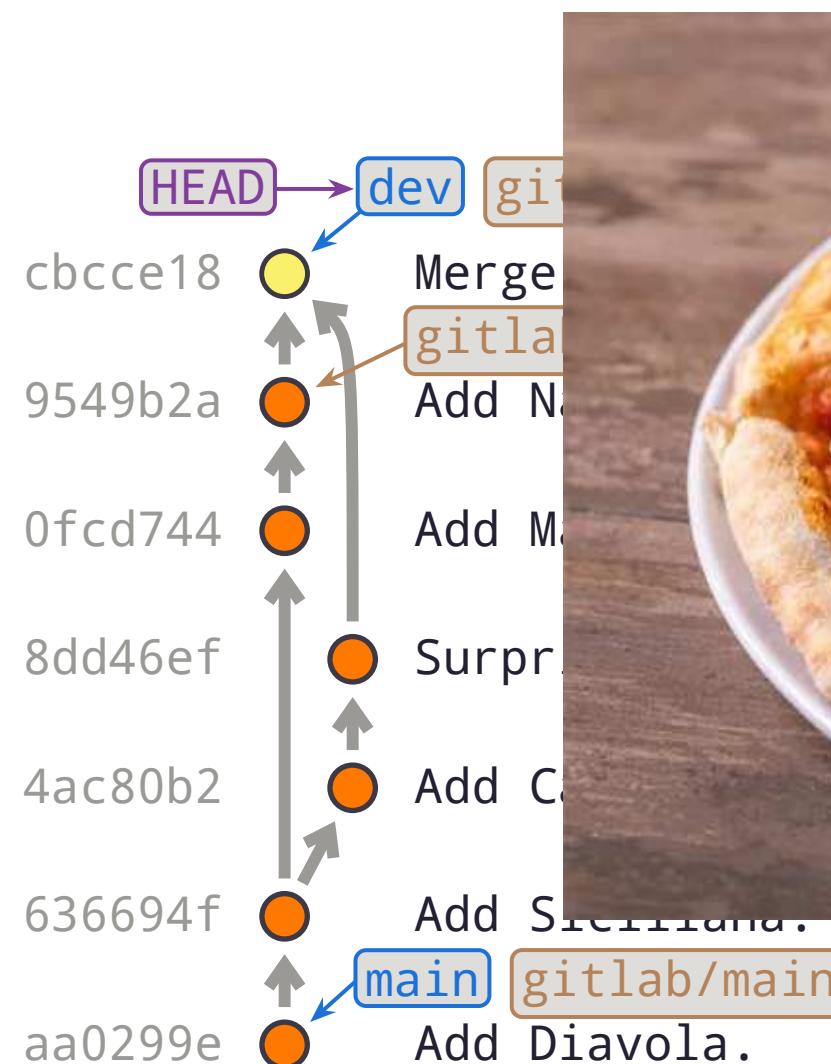
## Rebase strategy



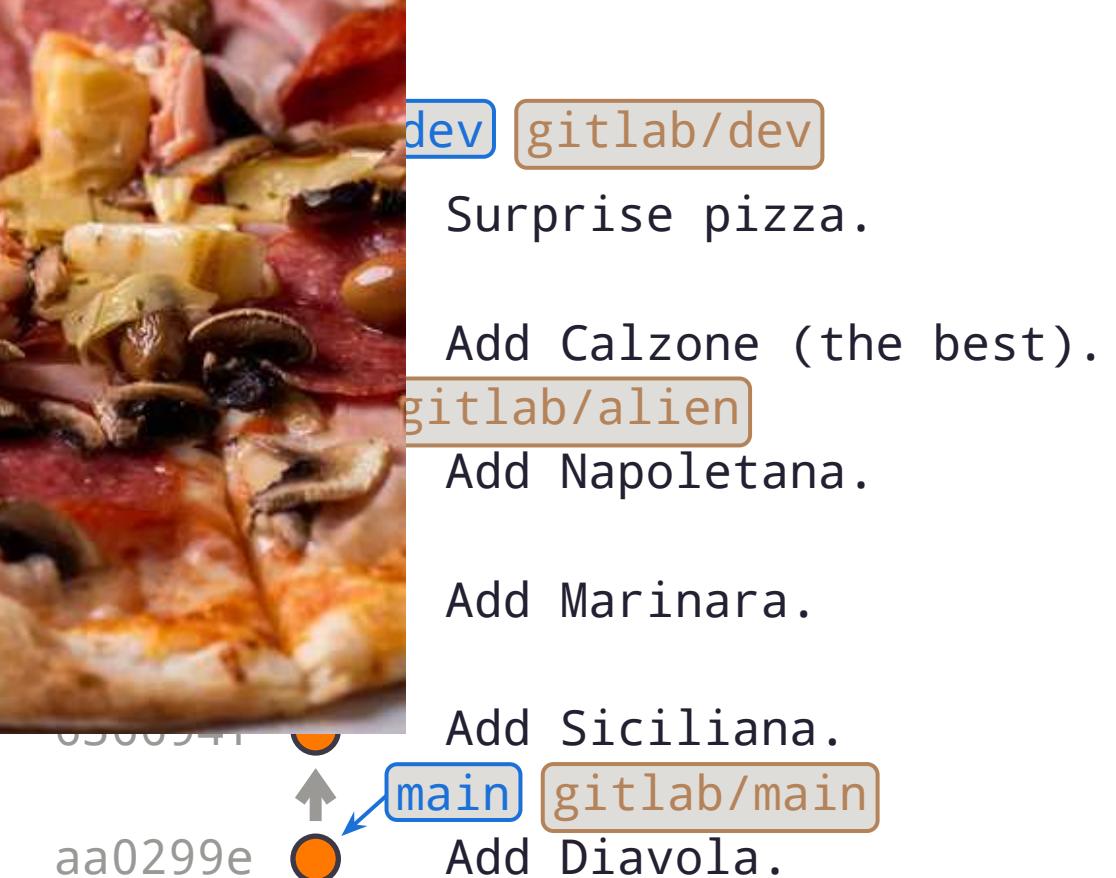
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



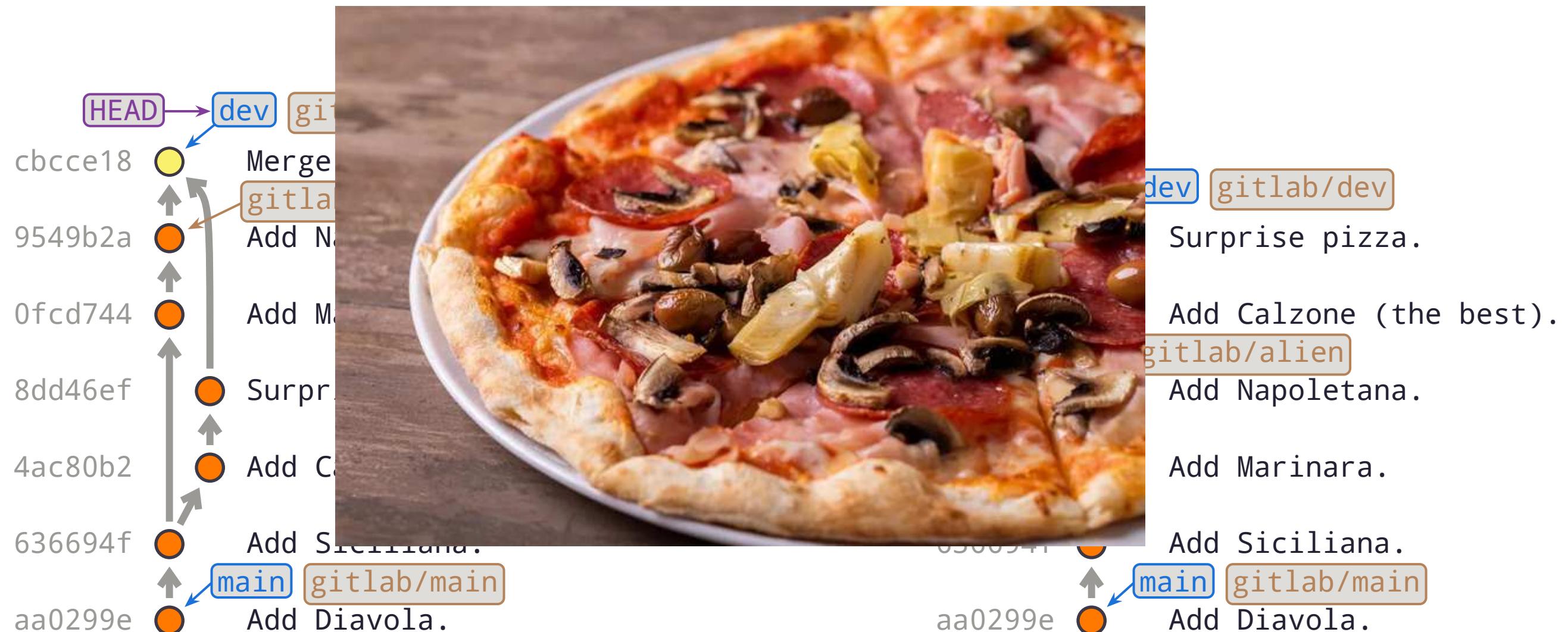
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

```
$ git commit
```



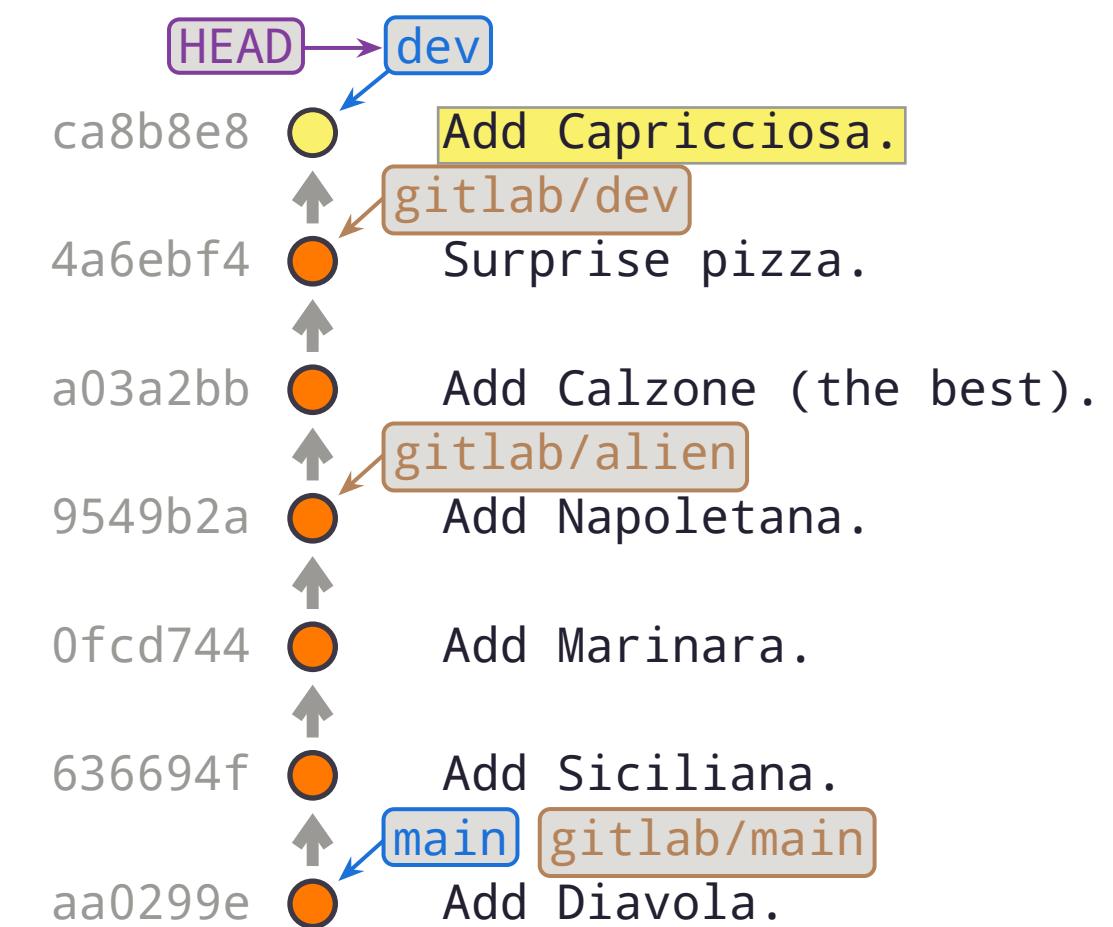
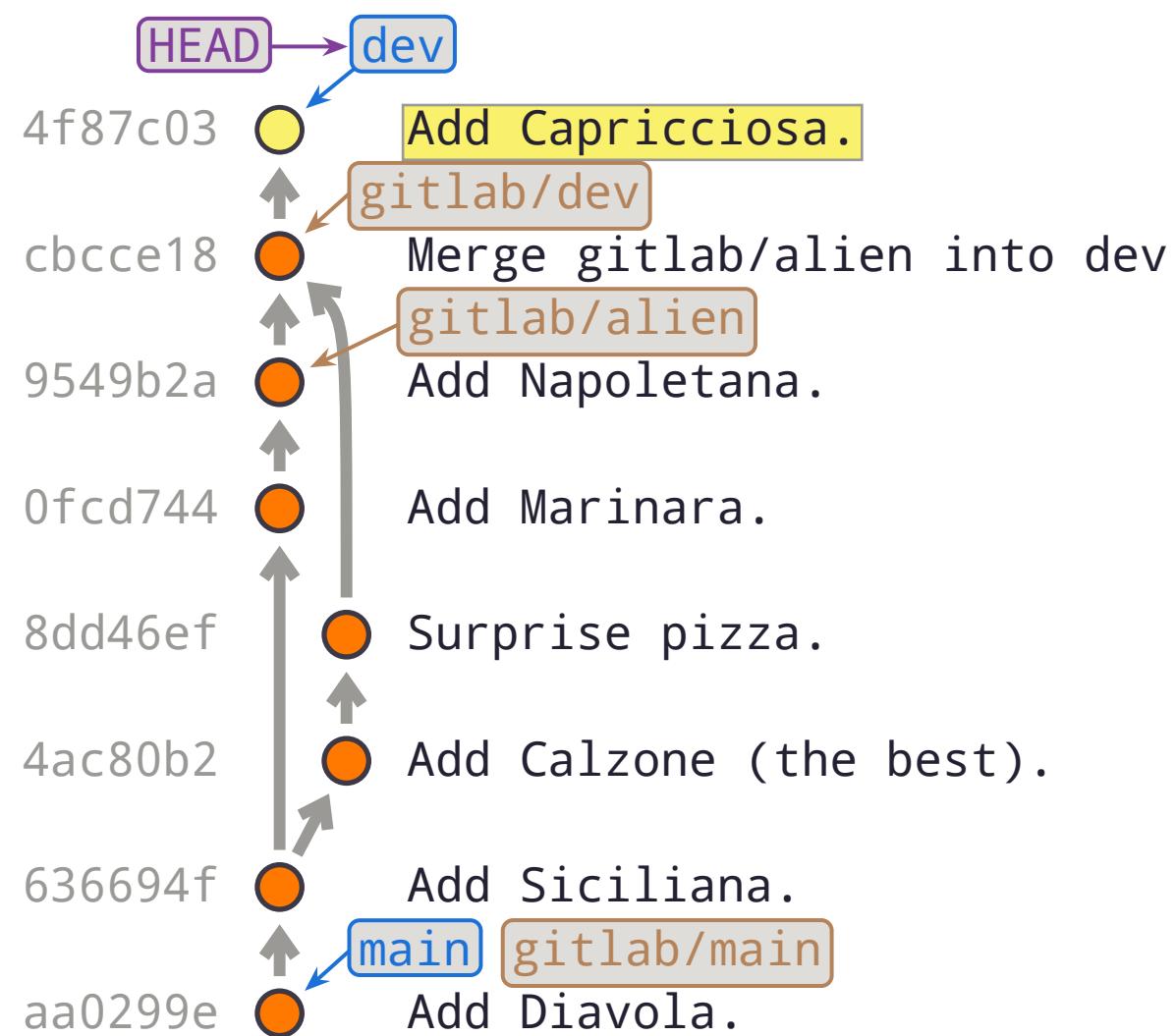
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

```
$ git commit
```



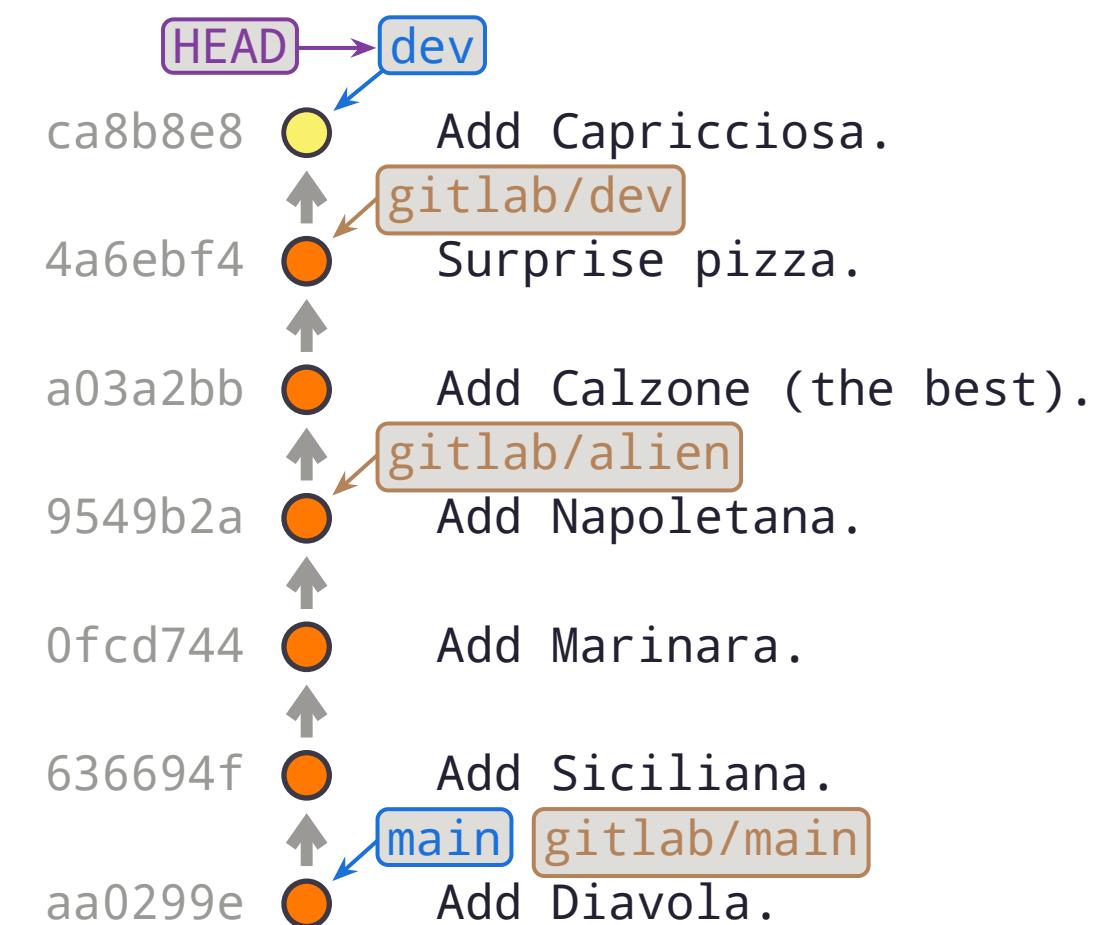
# Merge and Rebase

## Two Git Philosophies

### Merge strategy

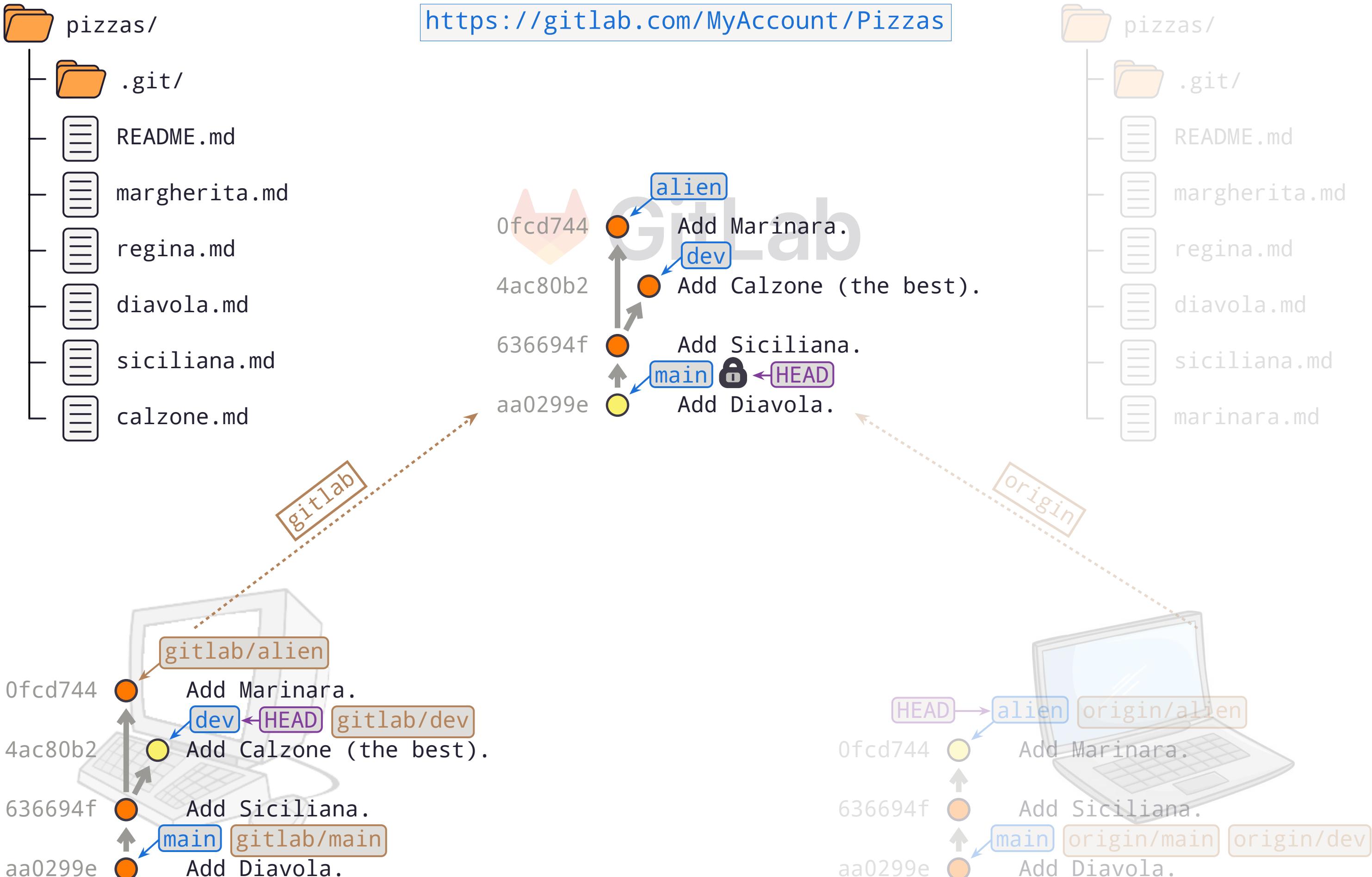


### Rebase strategy



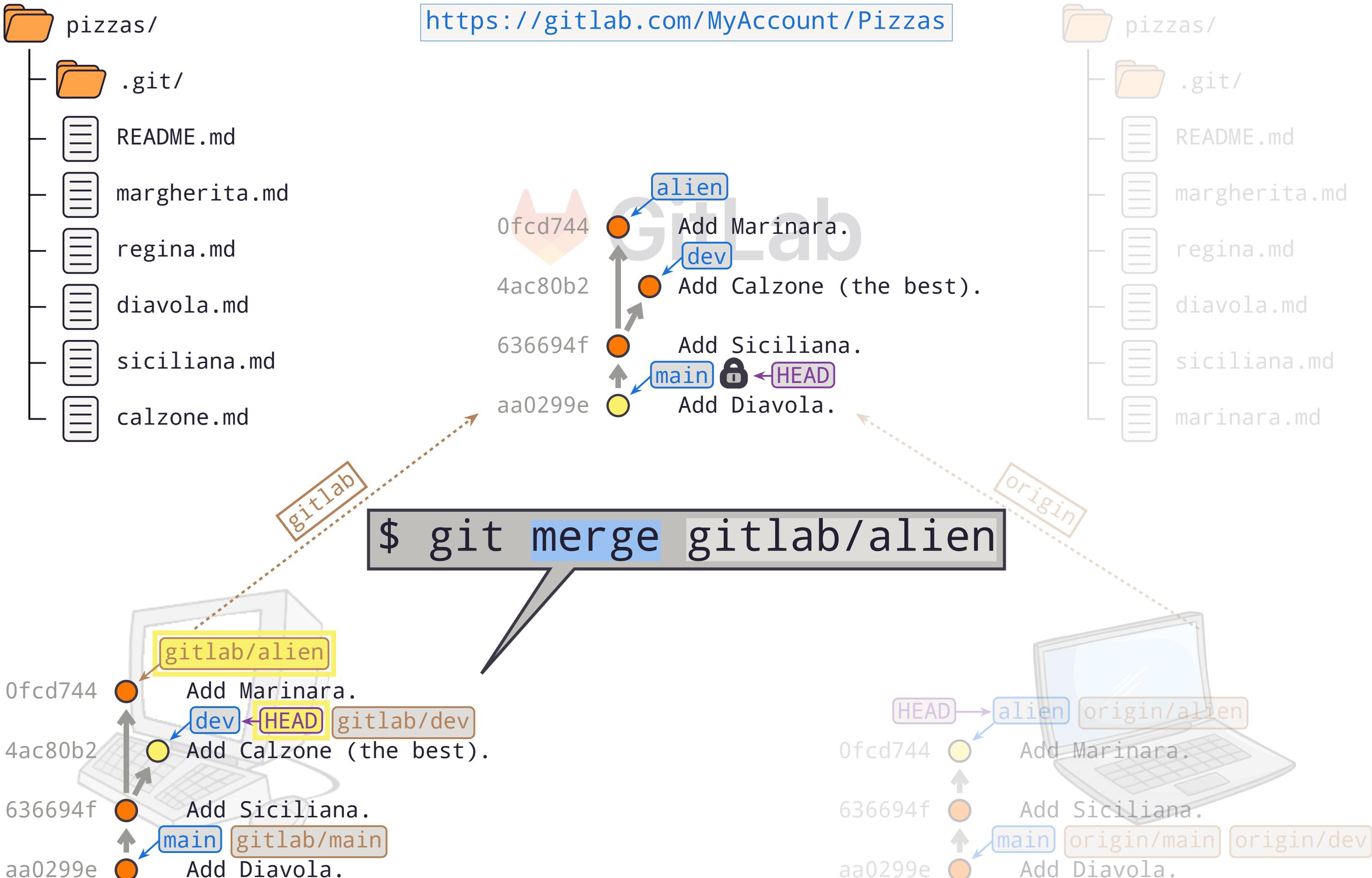
# Share integrated work

(Merge style)



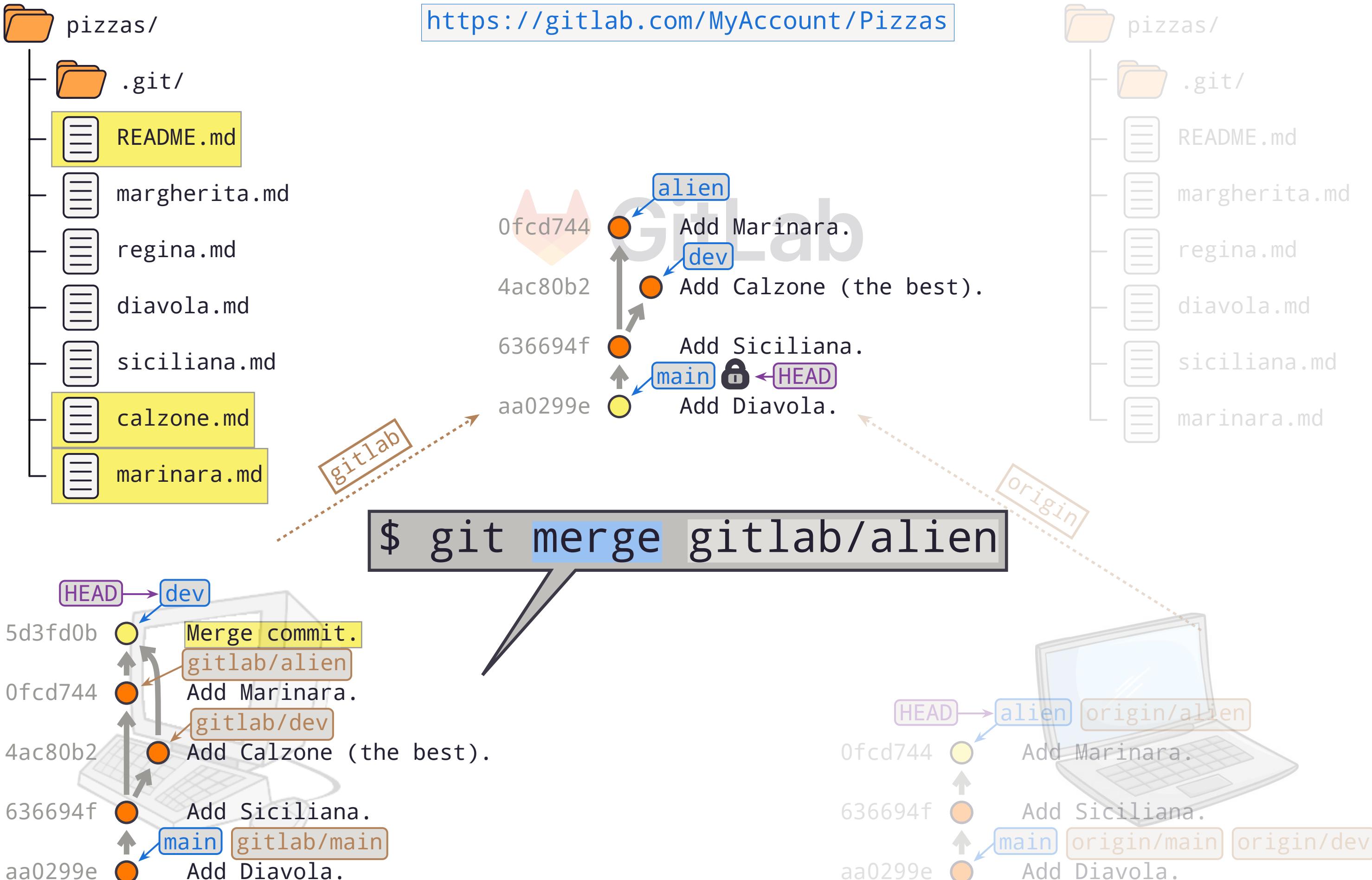
# Share integrated work

(Merge style)



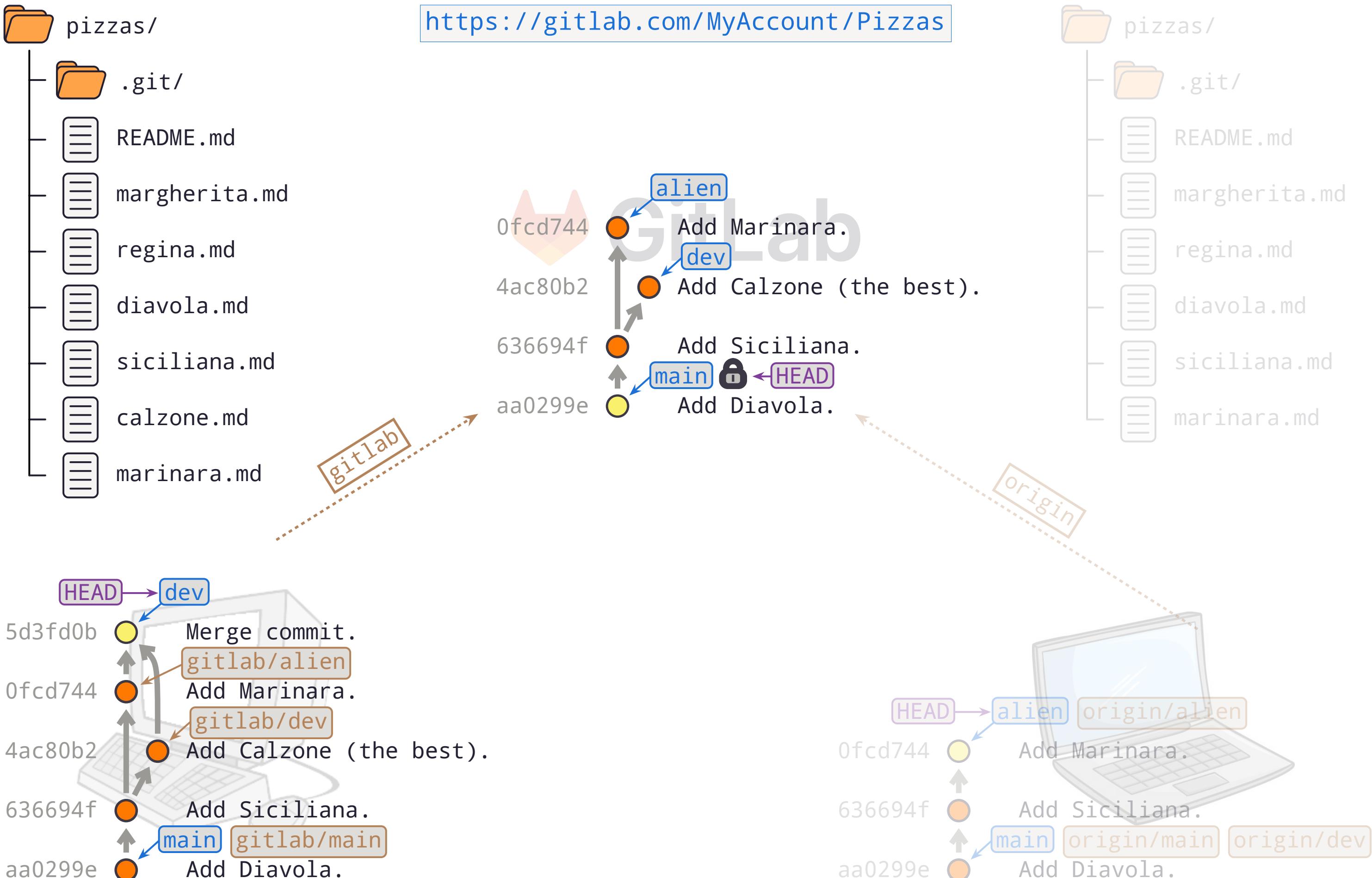
# Share integrated work

(Merge style)



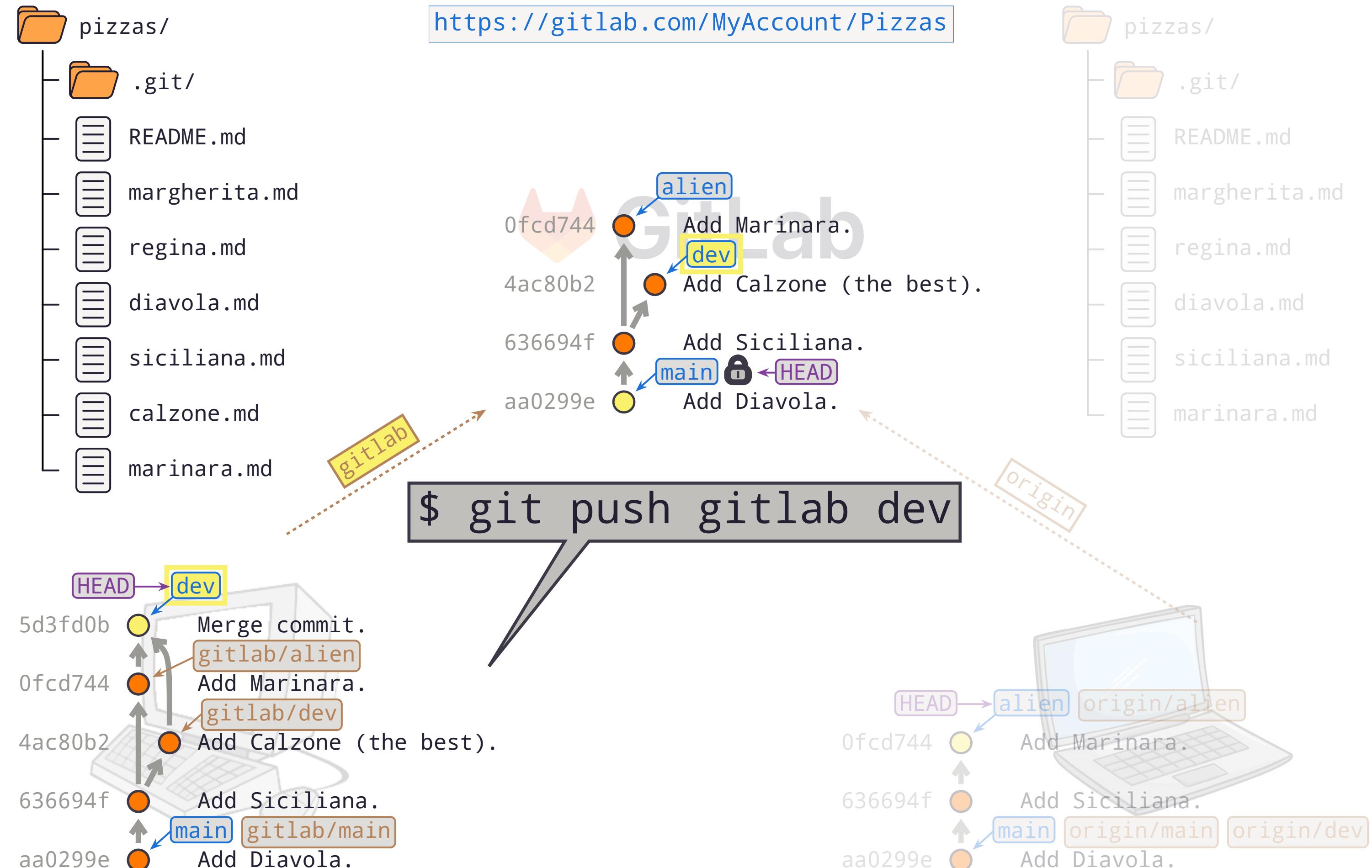
# Share integrated work

(Merge style)



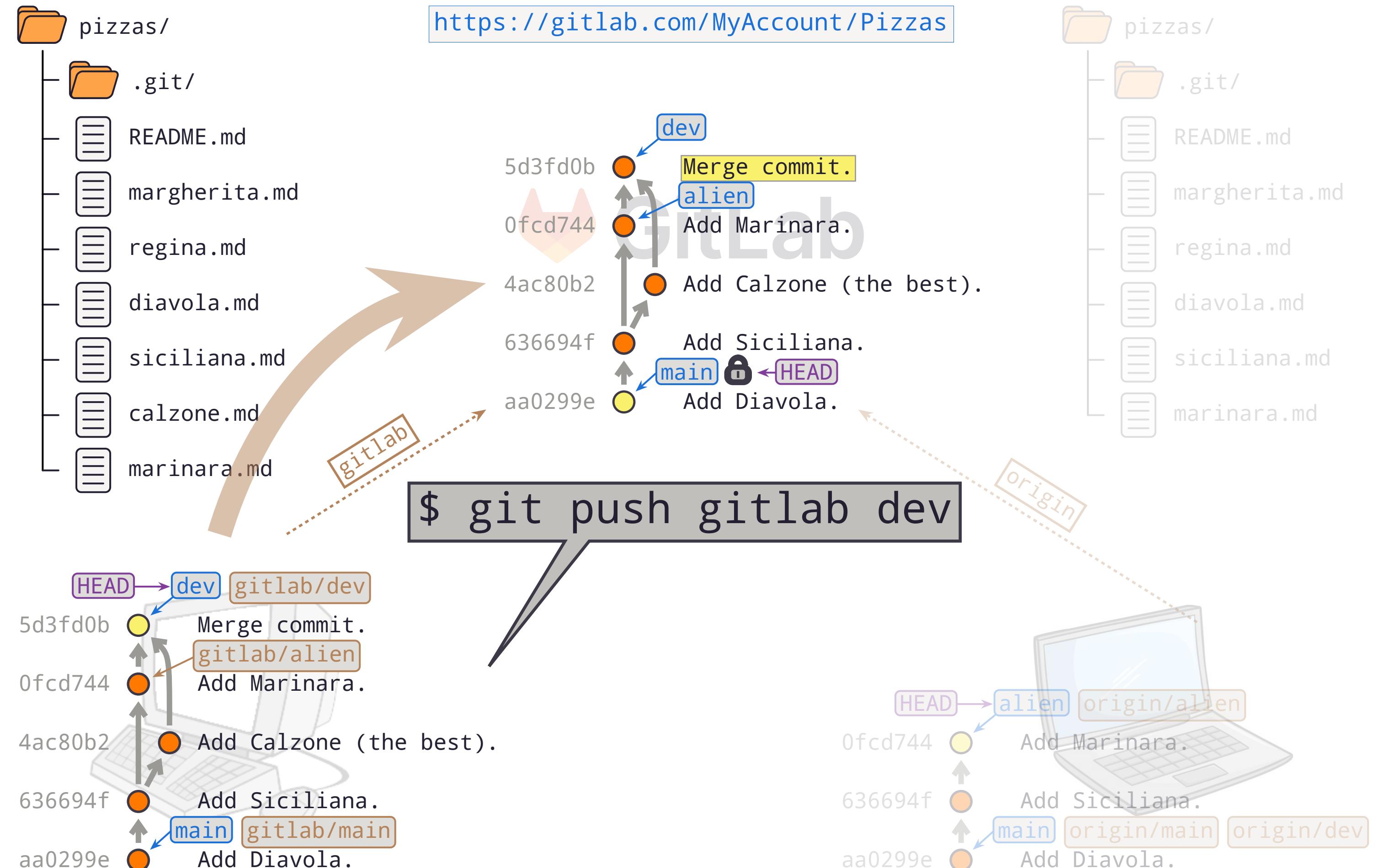
# Share integrated work

(Merge style)



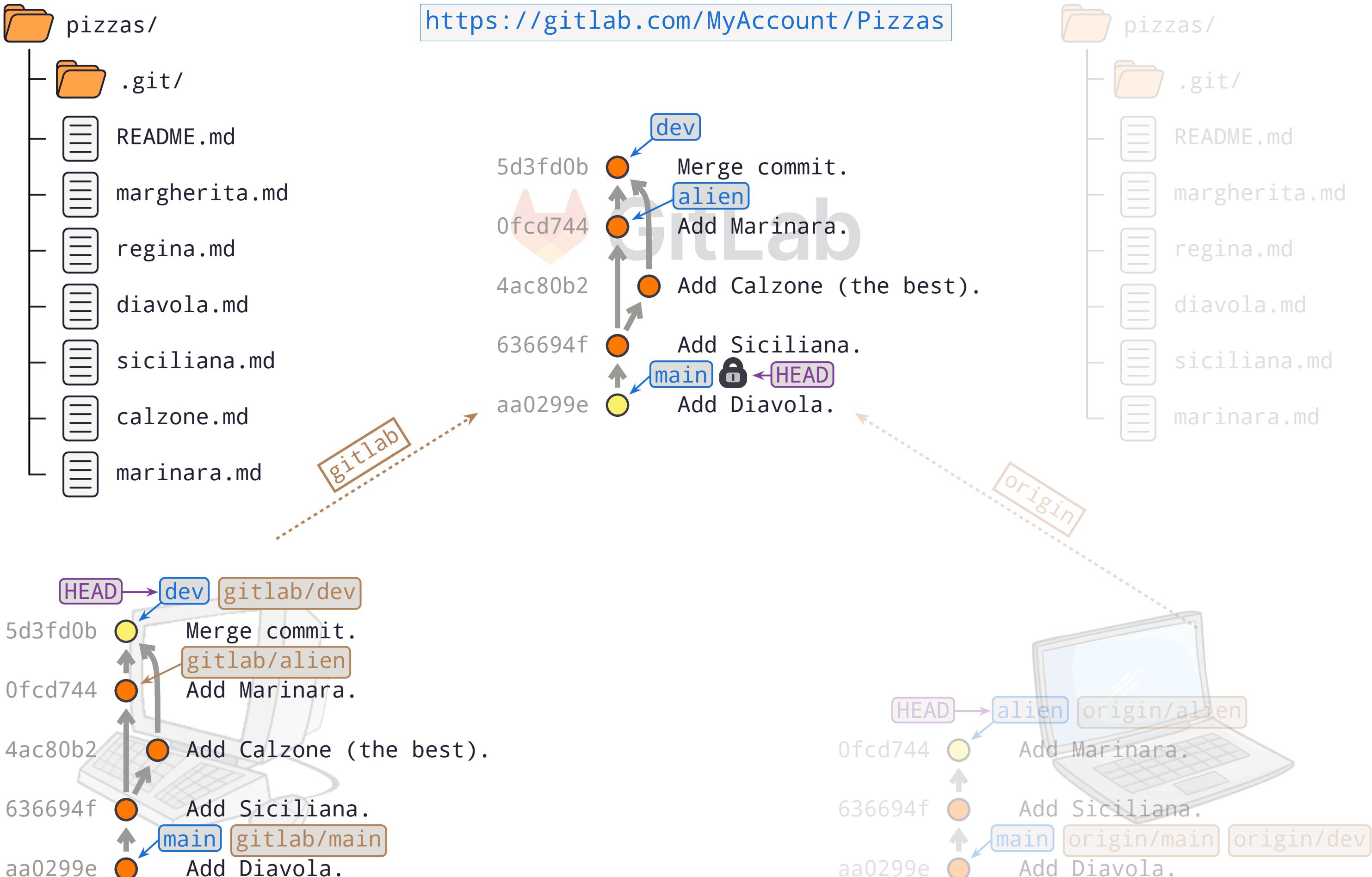
# Share integrated work

(Merge style)



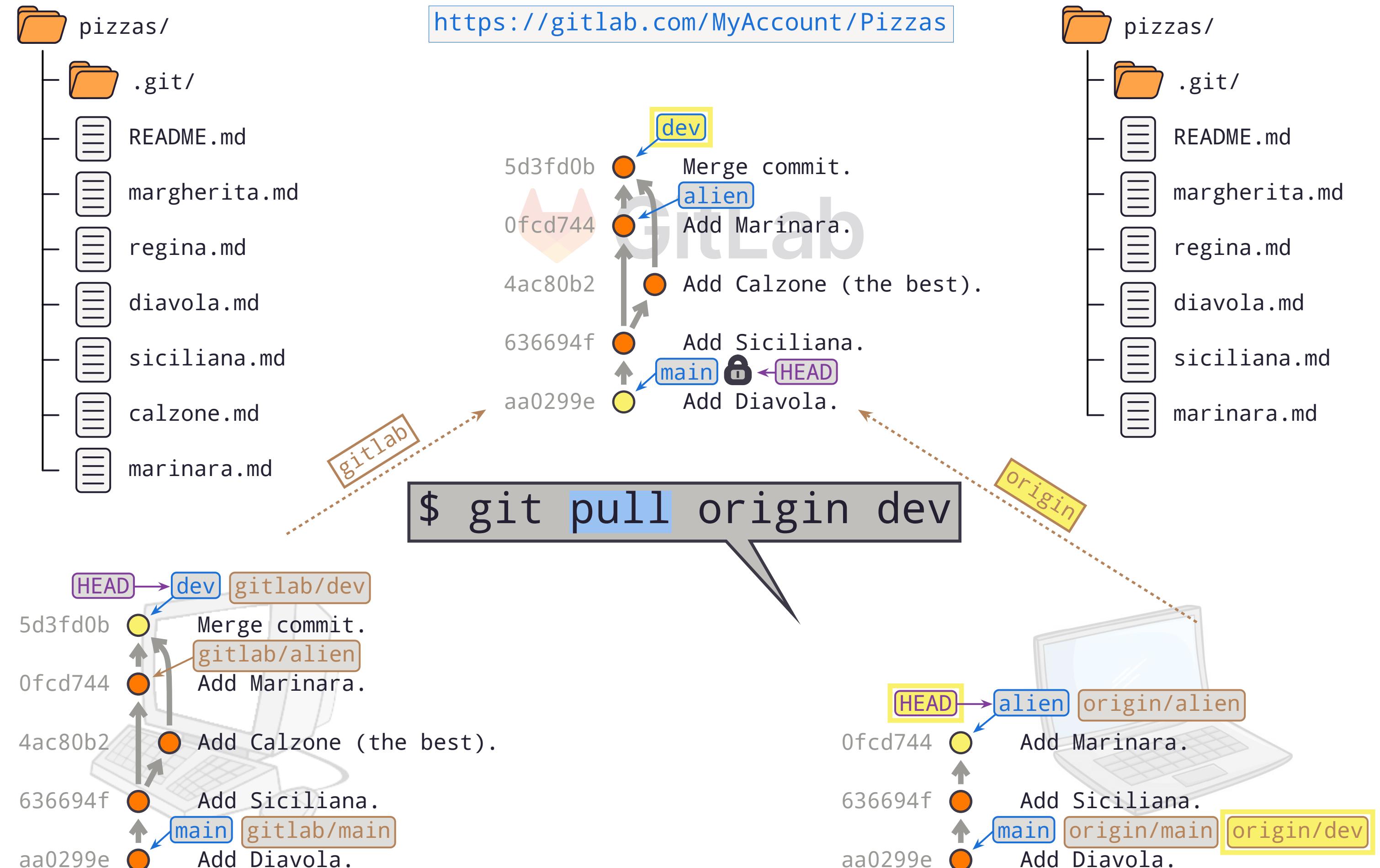
# Share integrated work

(Merge style)



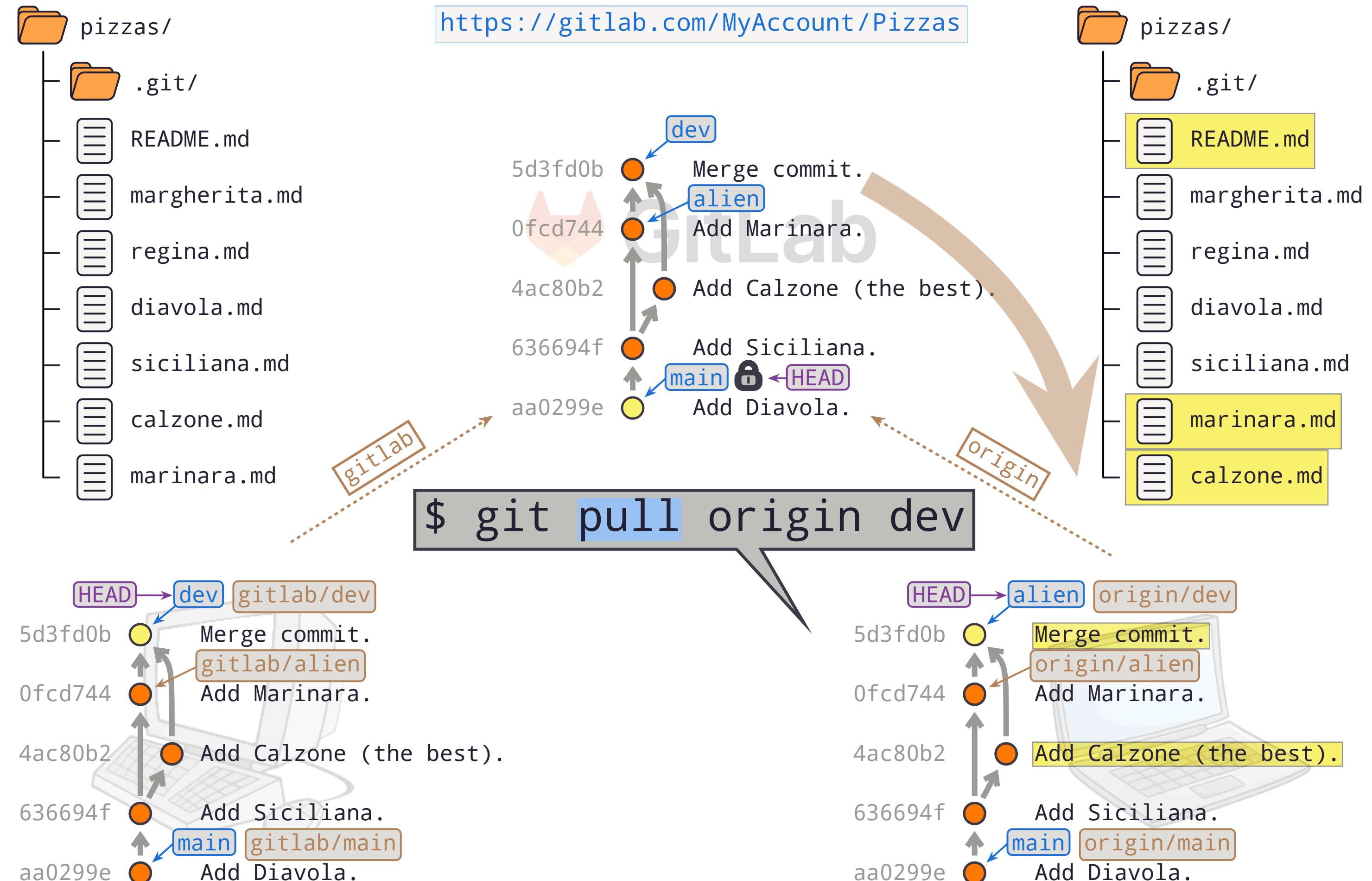
# Share integrated work

(Merge style)



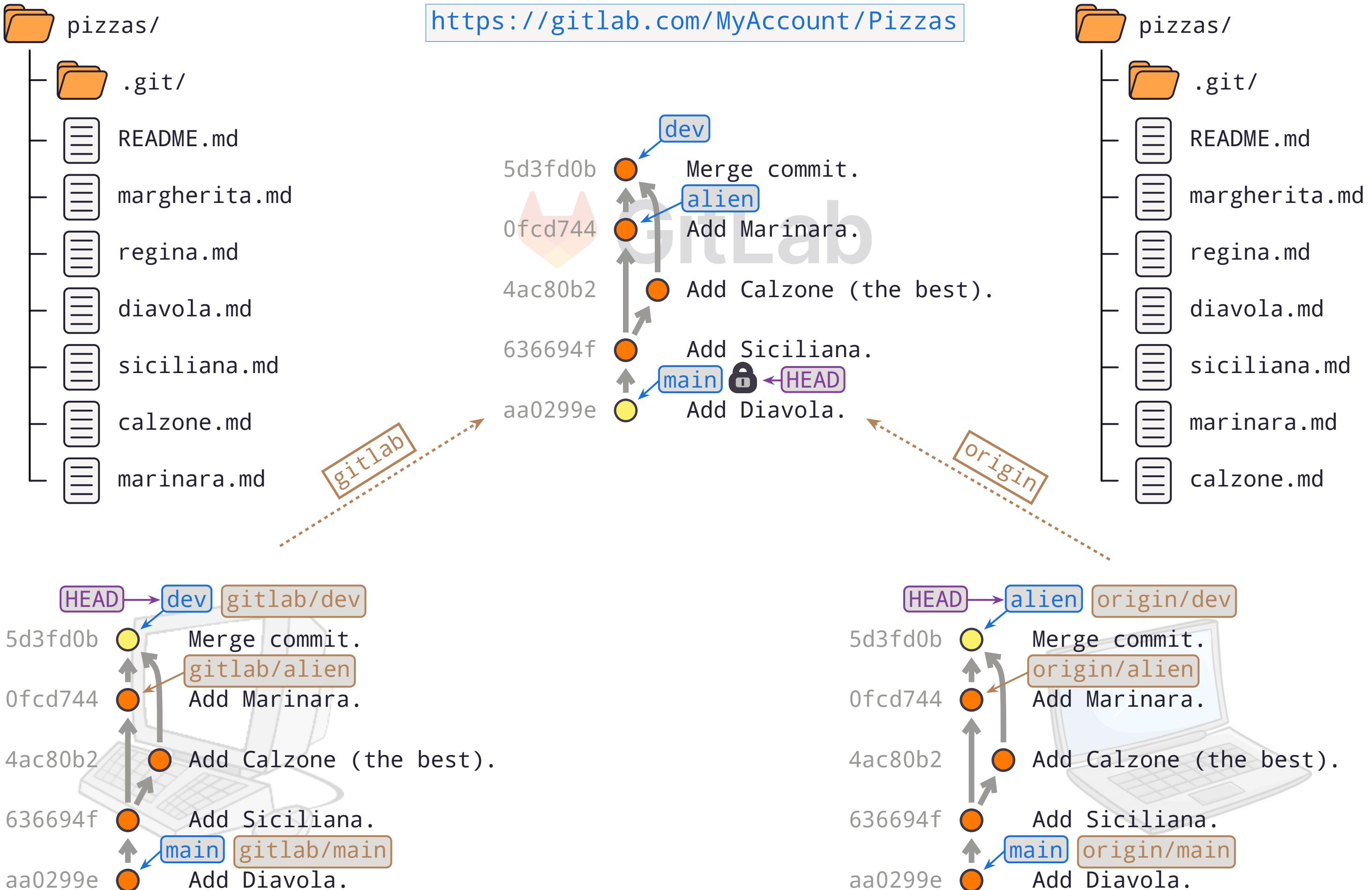
# Share integrated work

(Merge style)



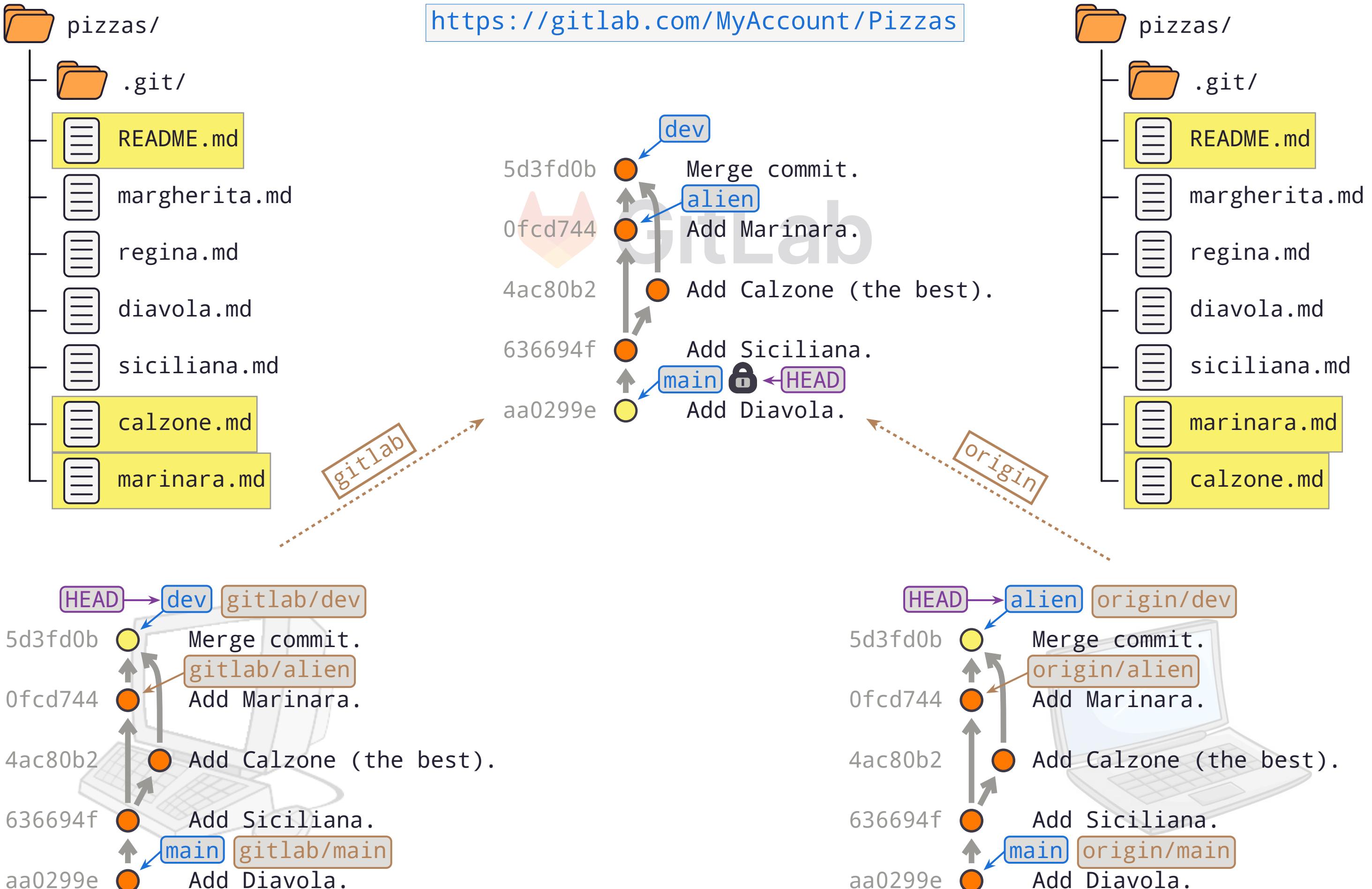
# Share integrated work

(Merge style)



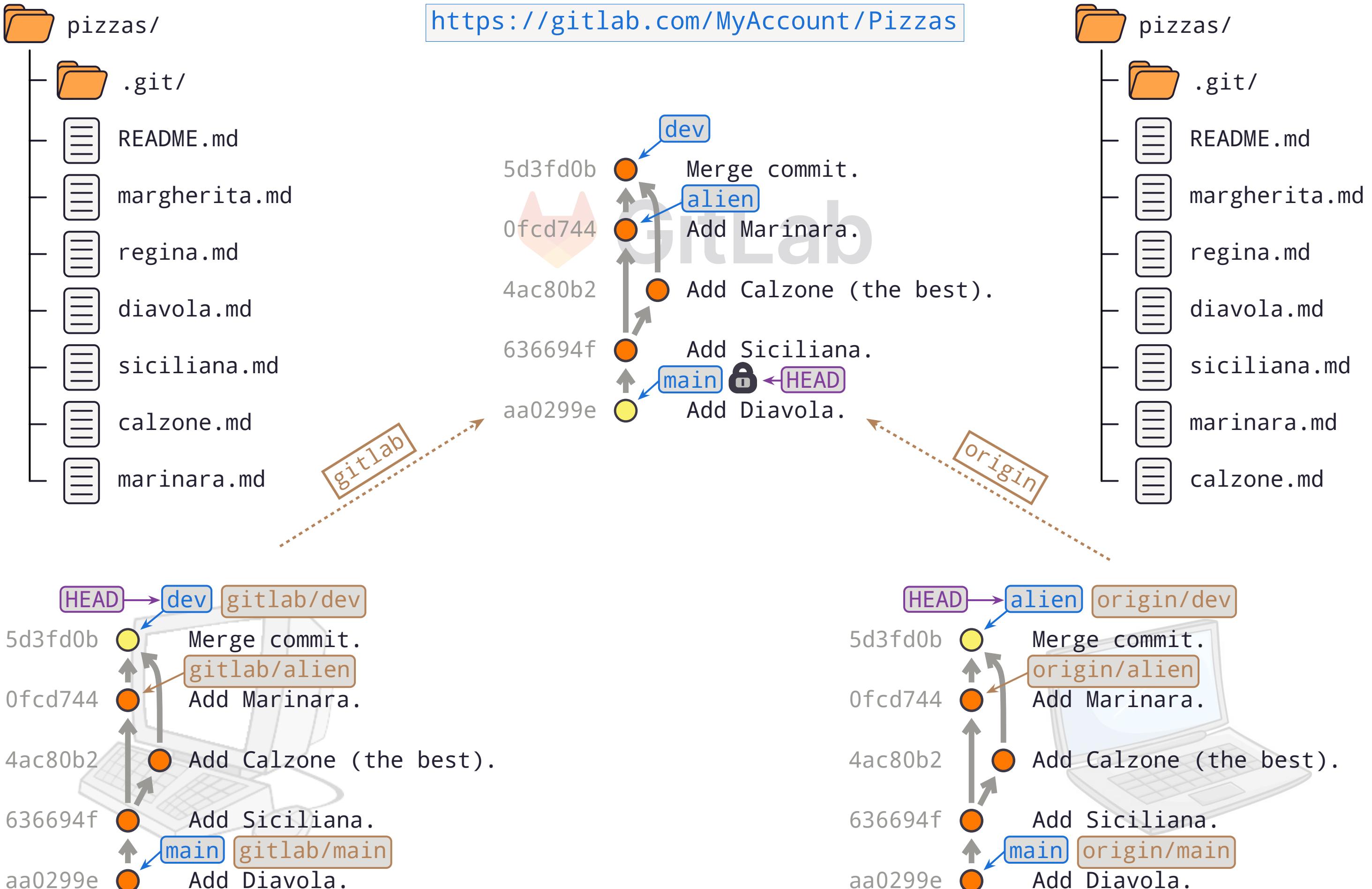
# Share integrated work

(Merge style)



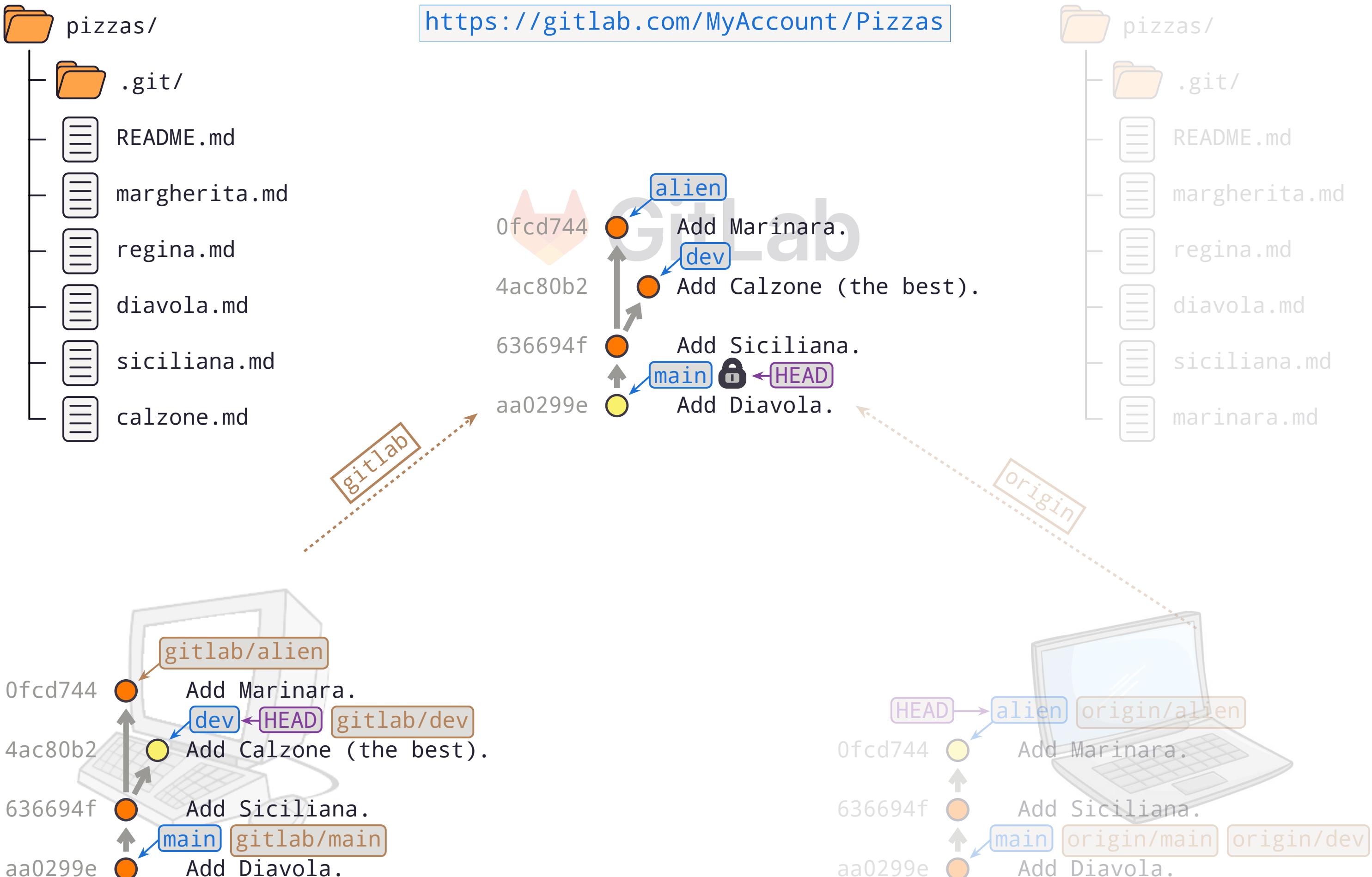
# Share integrated work

(Merge style)



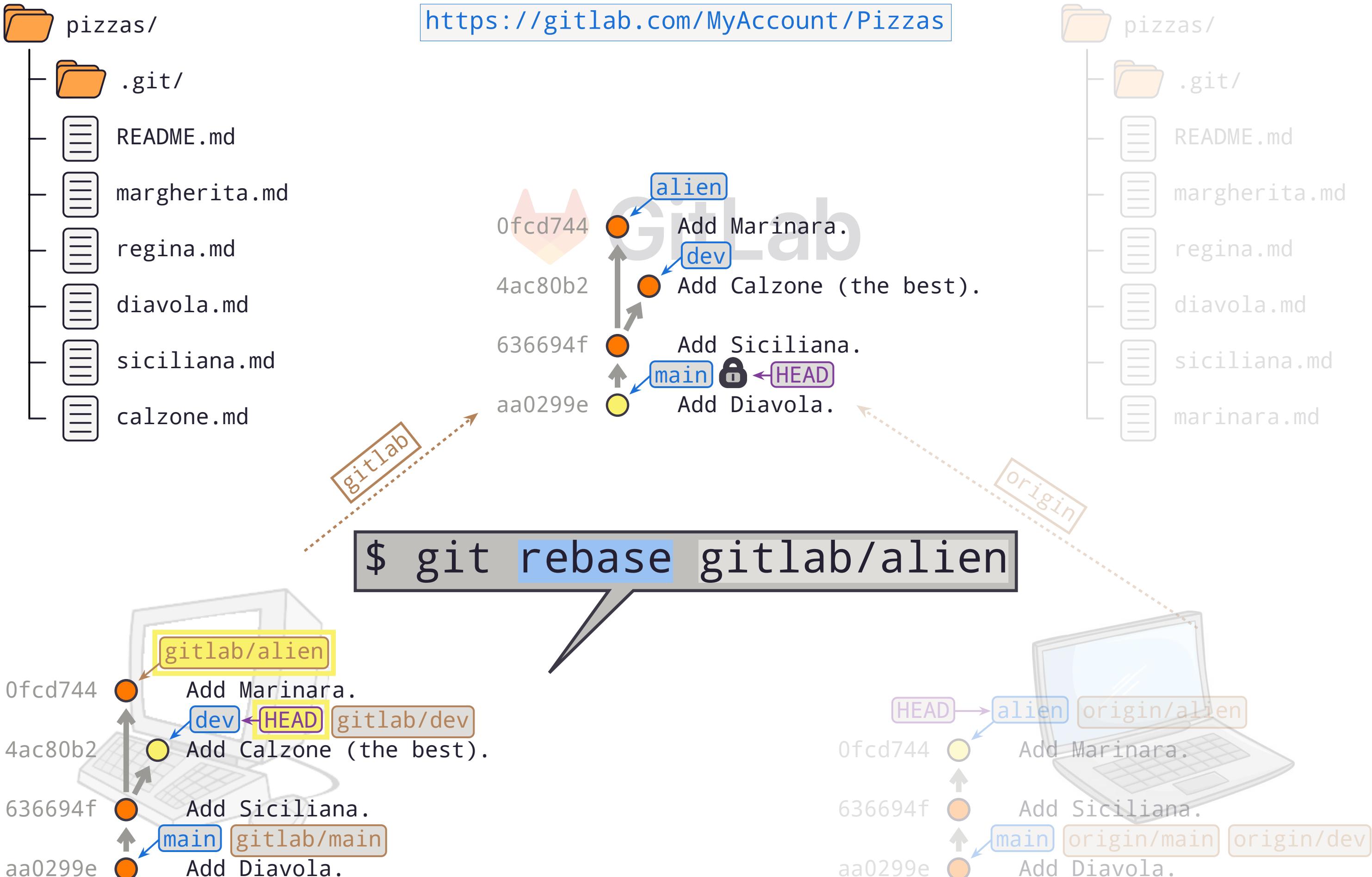
# Share integrated work

(Rebase style)



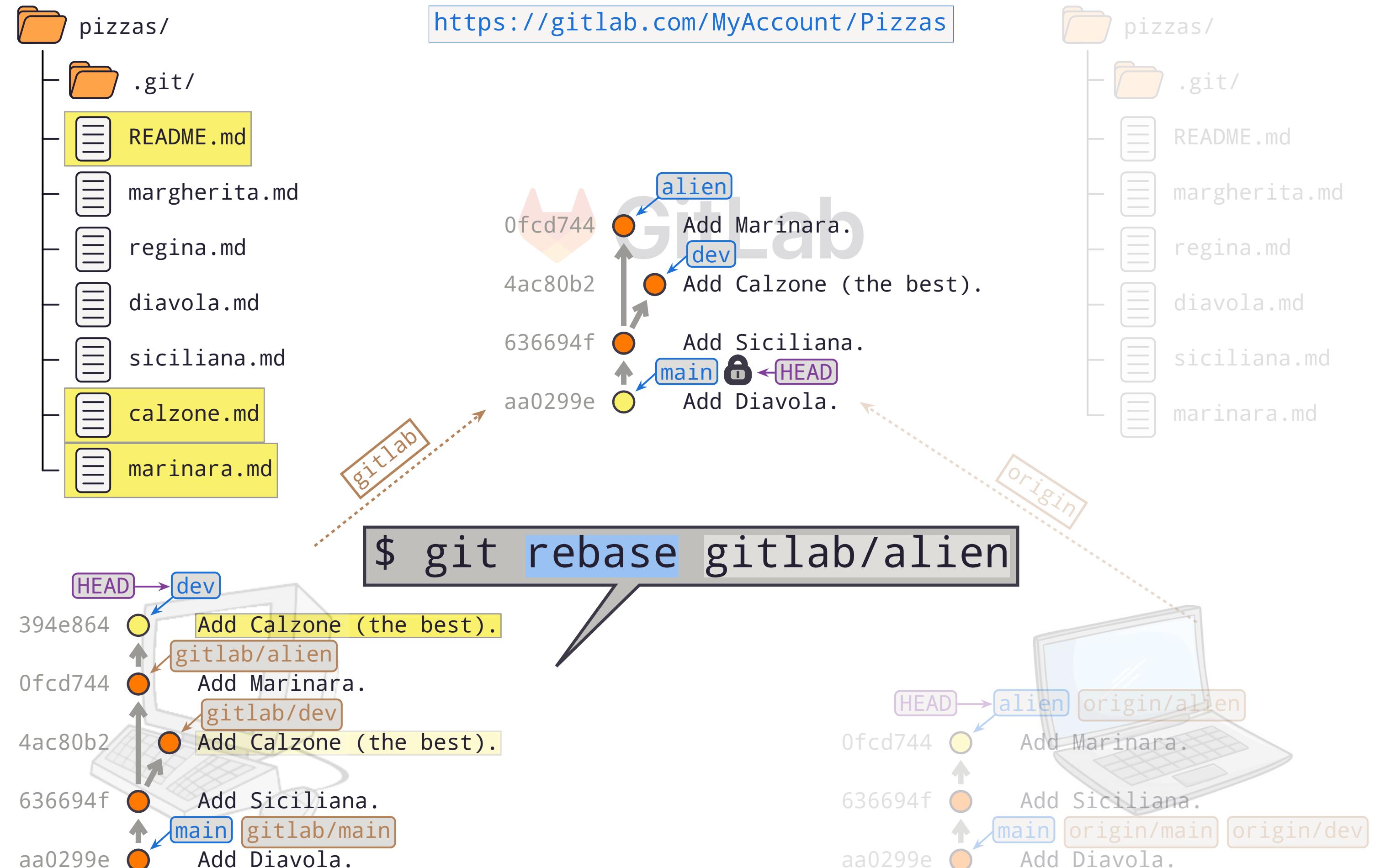
# Share integrated work

(Rebase style)



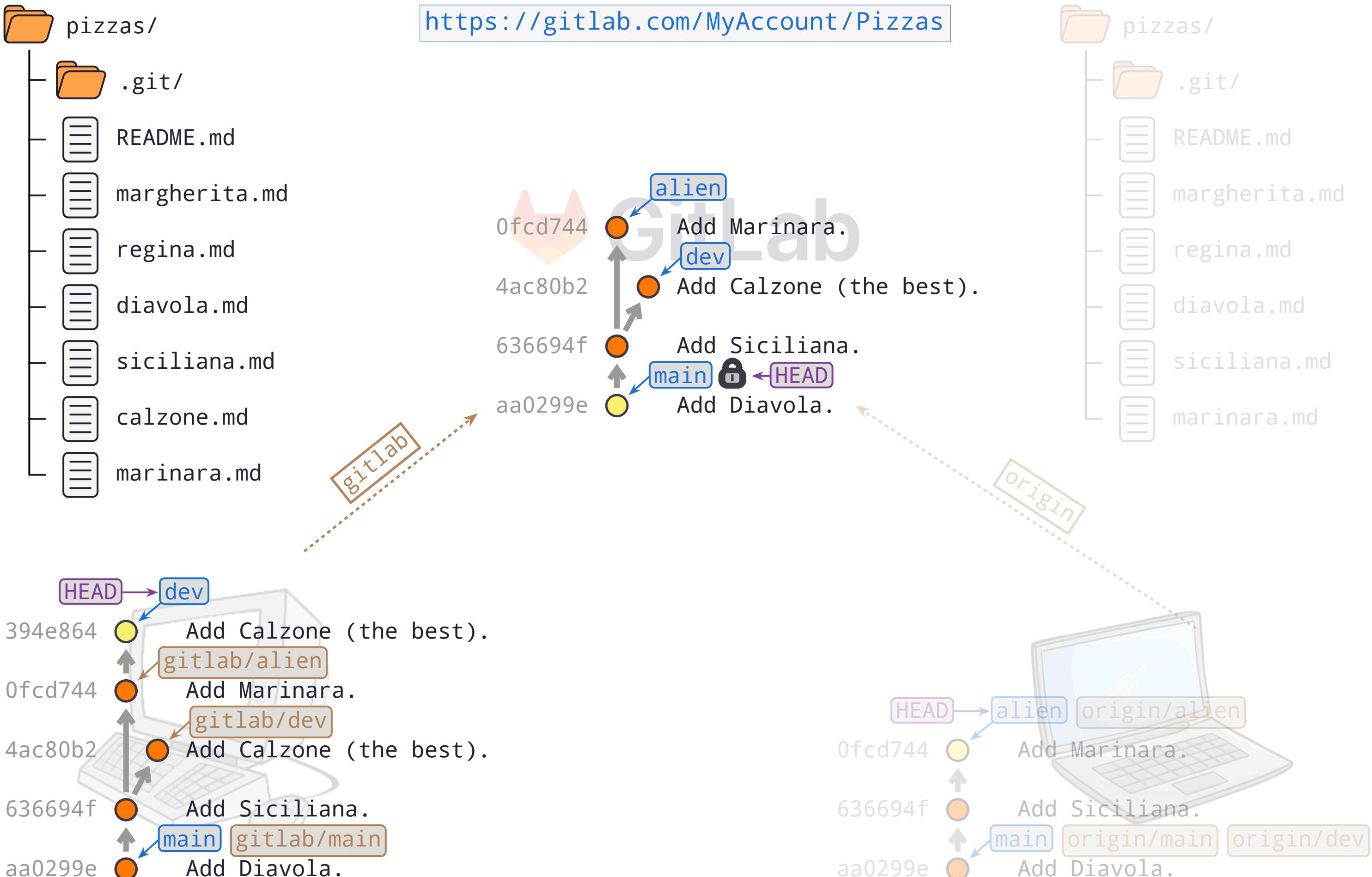
# Share integrated work

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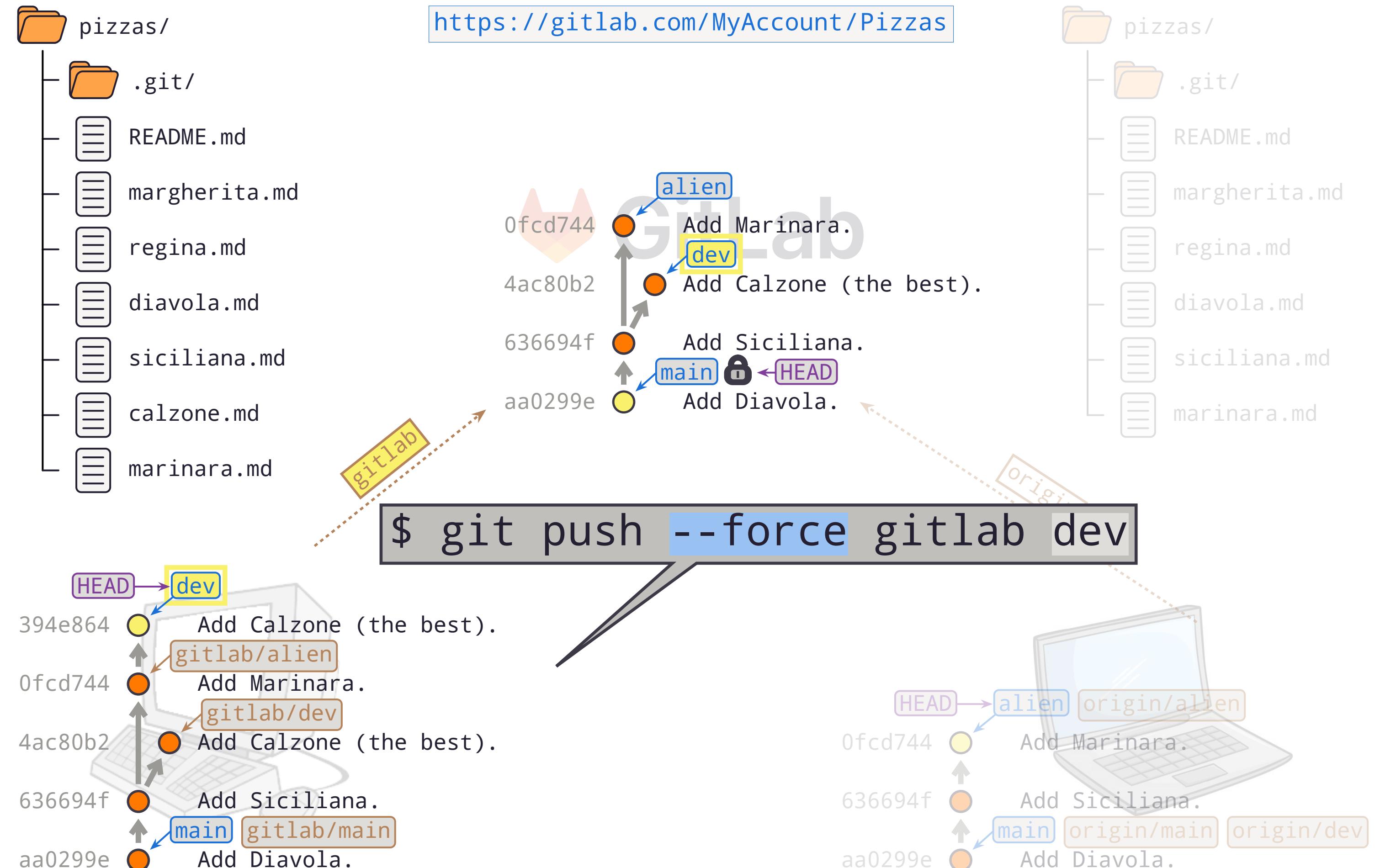
# Share integrated work

(Rebase style)



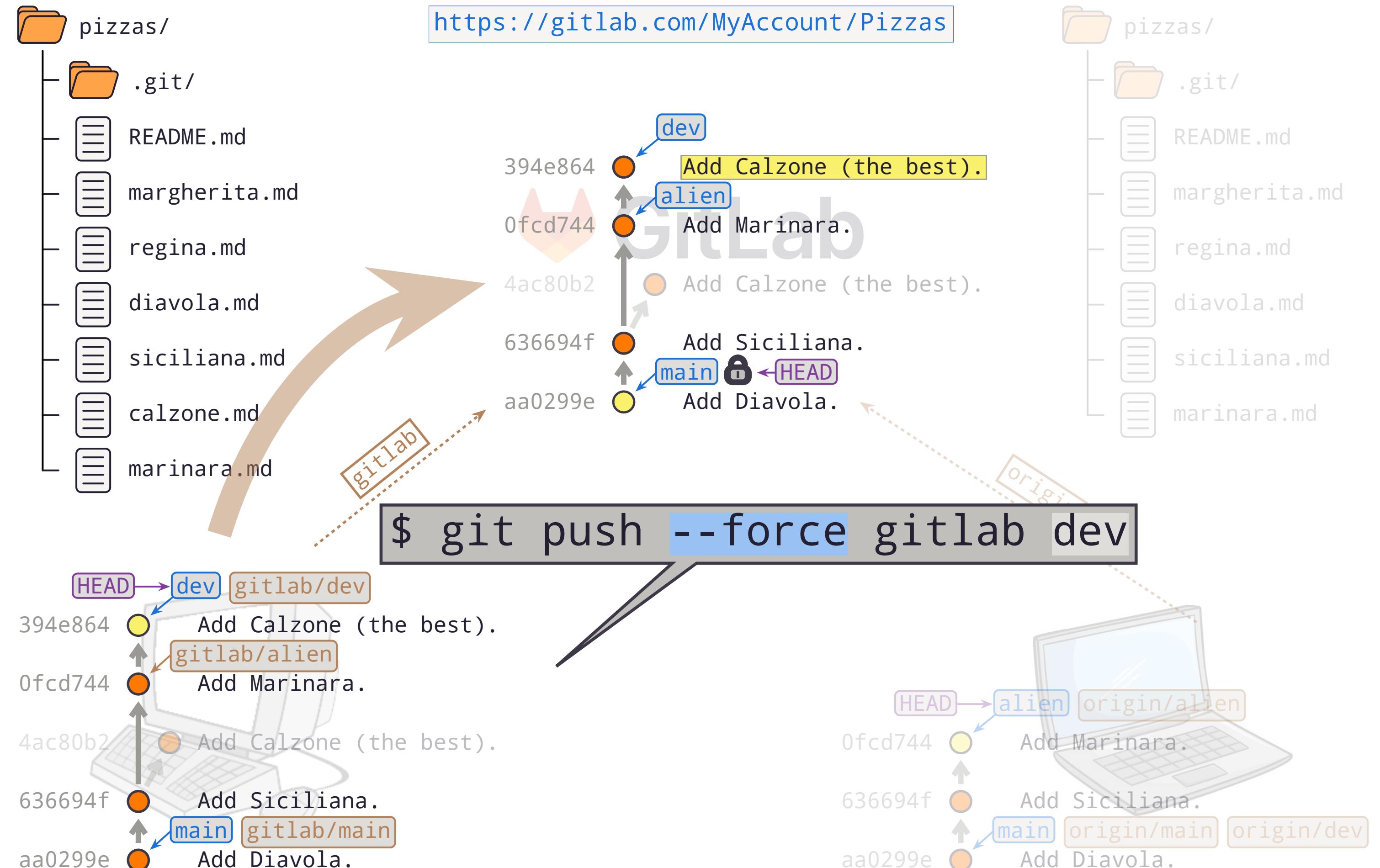
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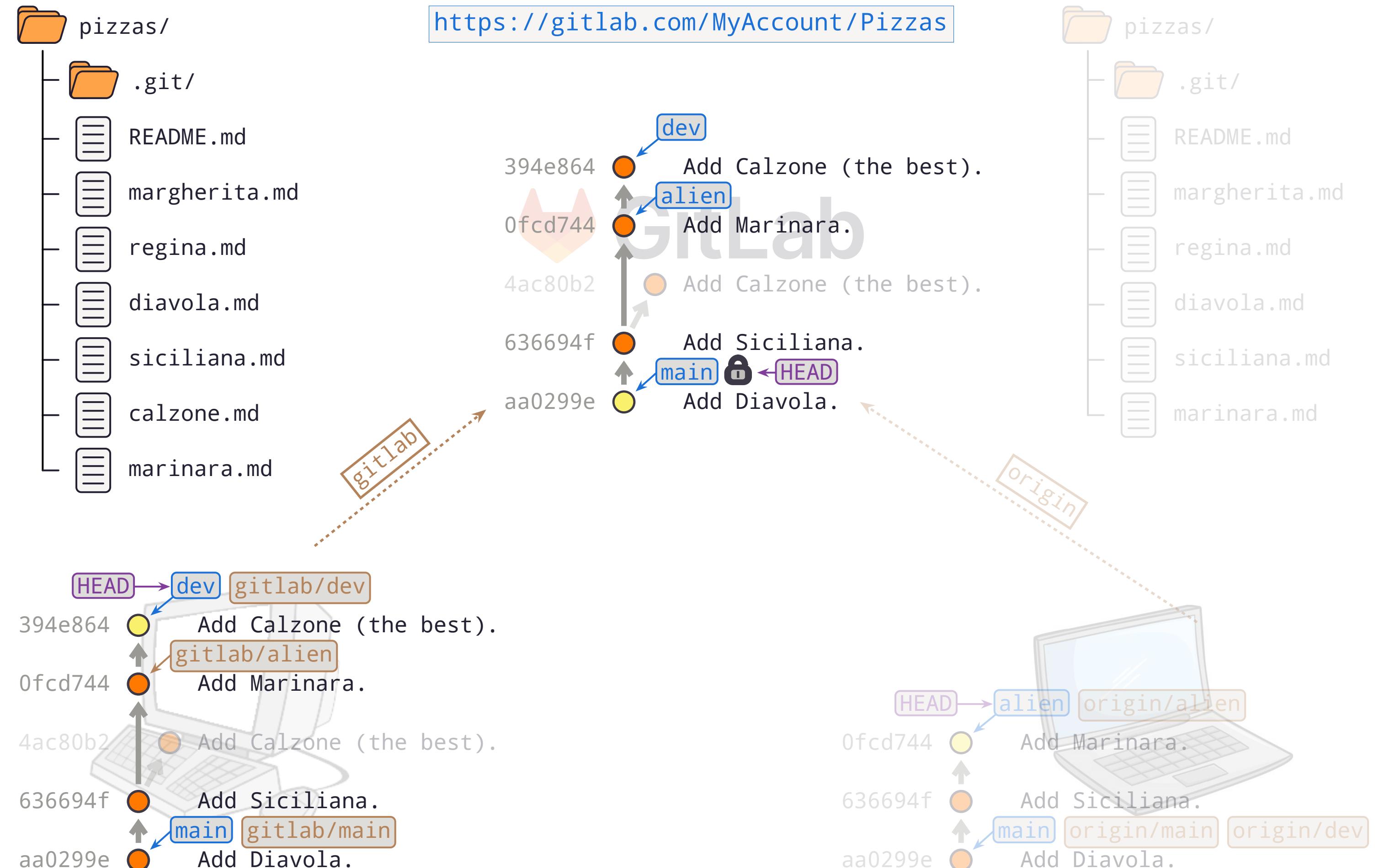
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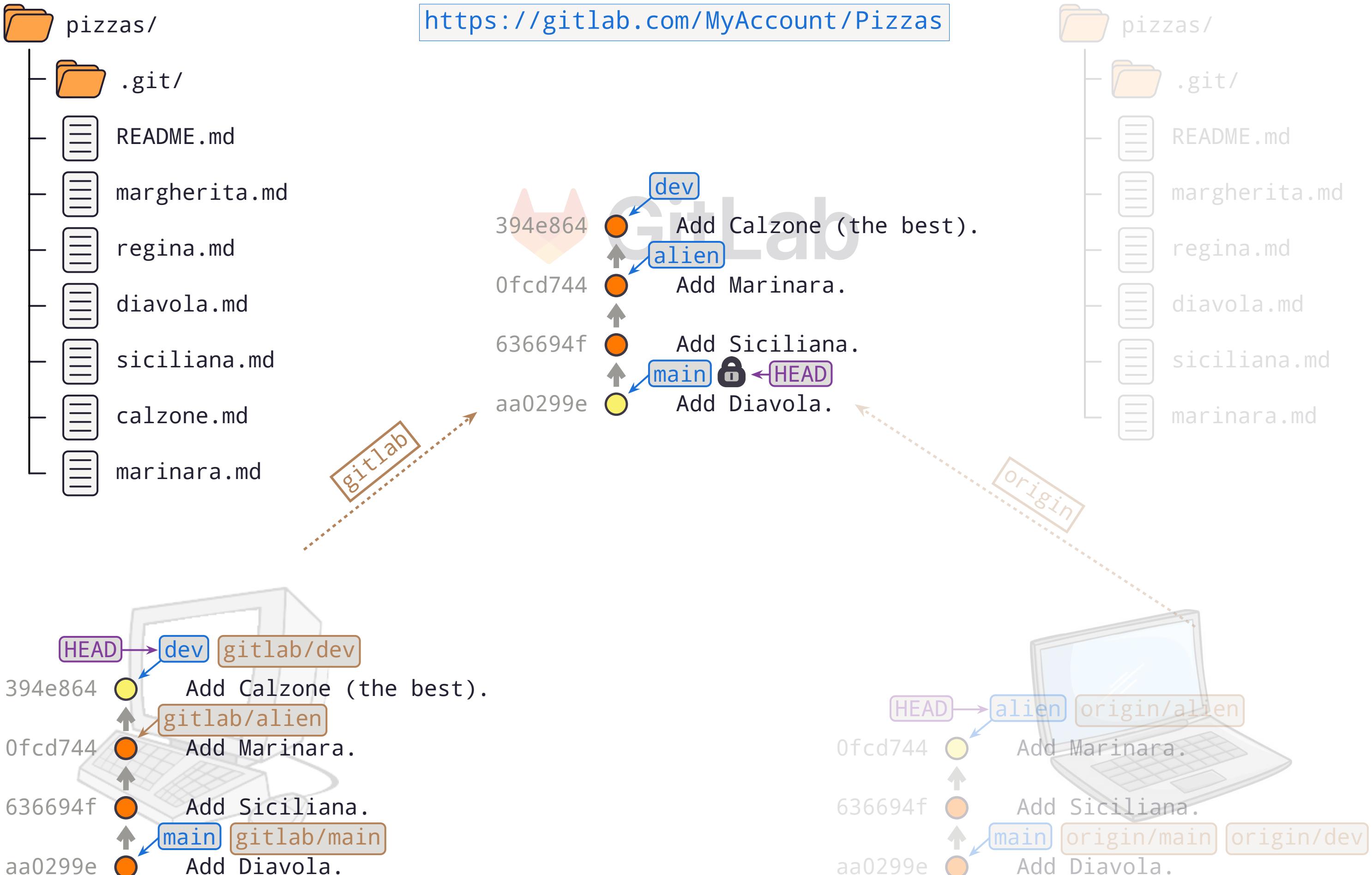
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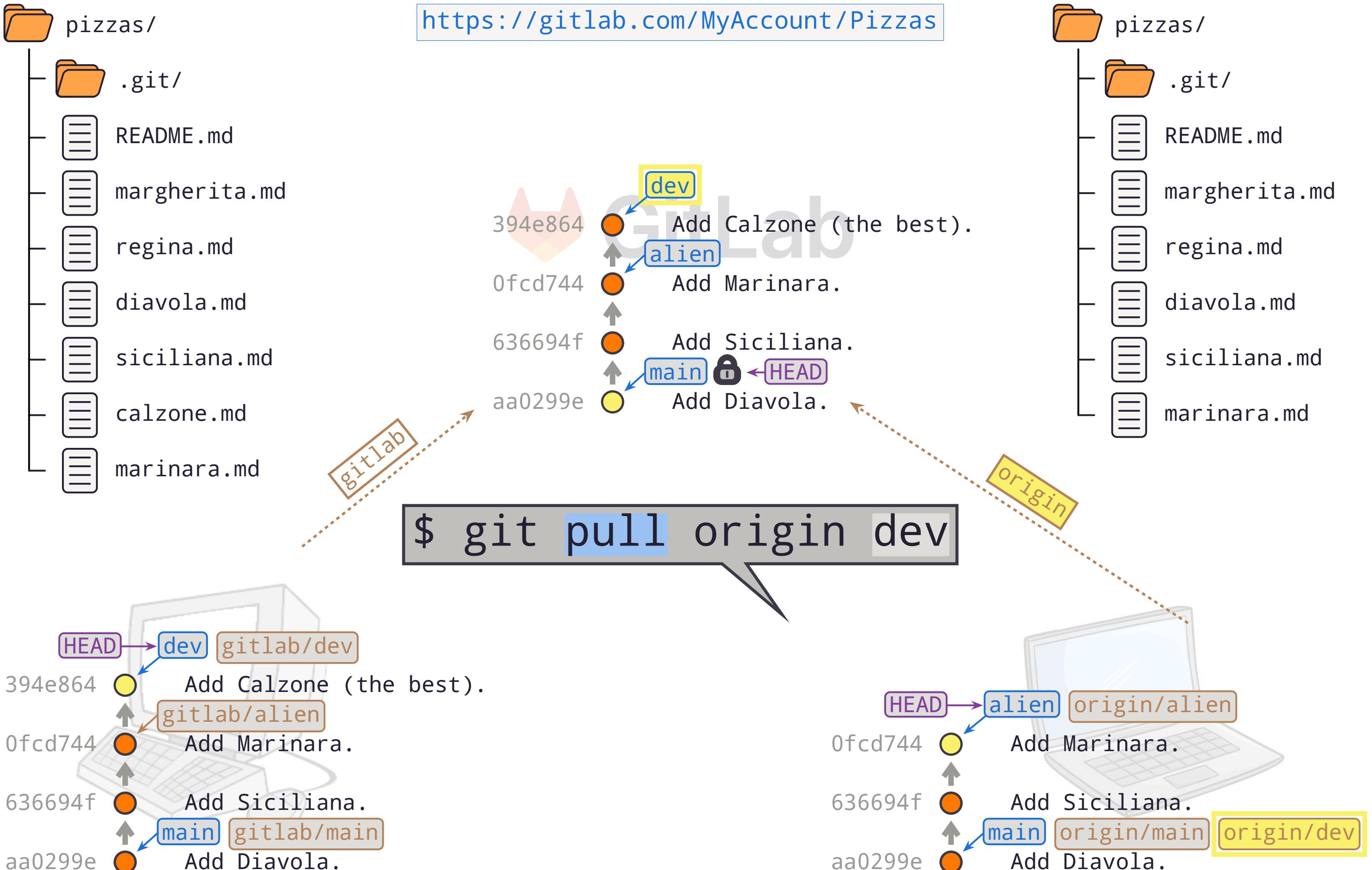
# Share integrated work

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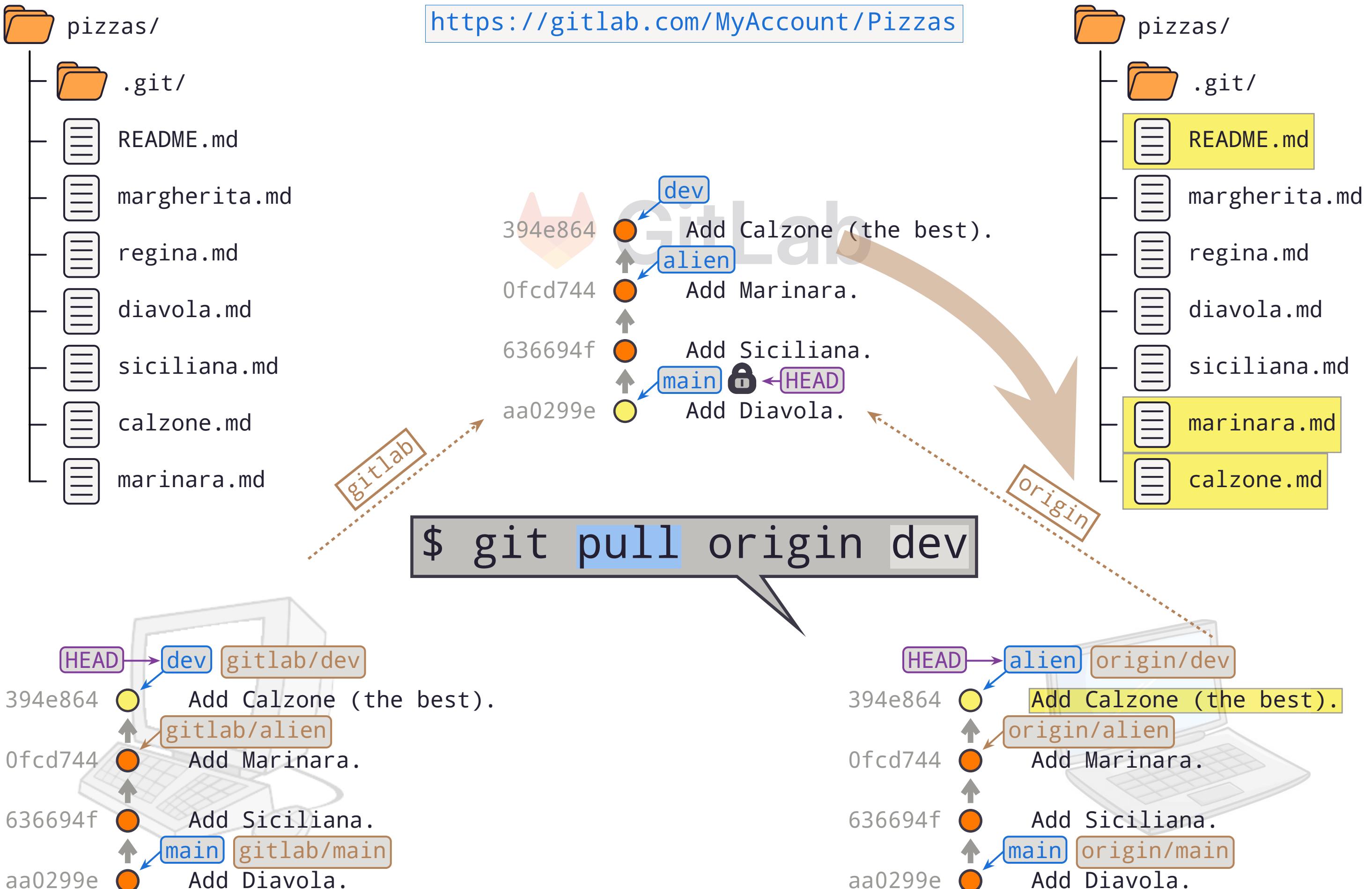
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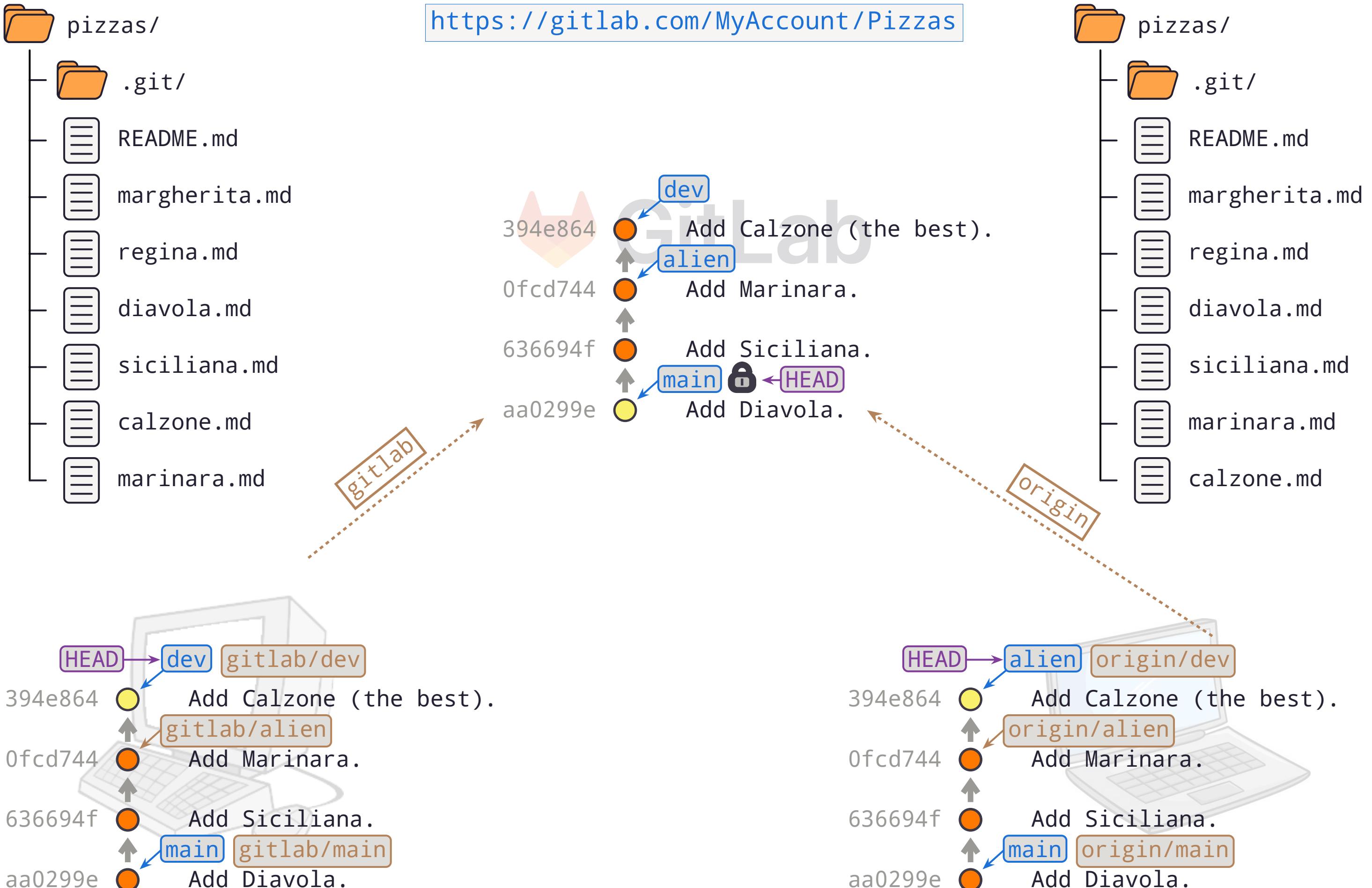
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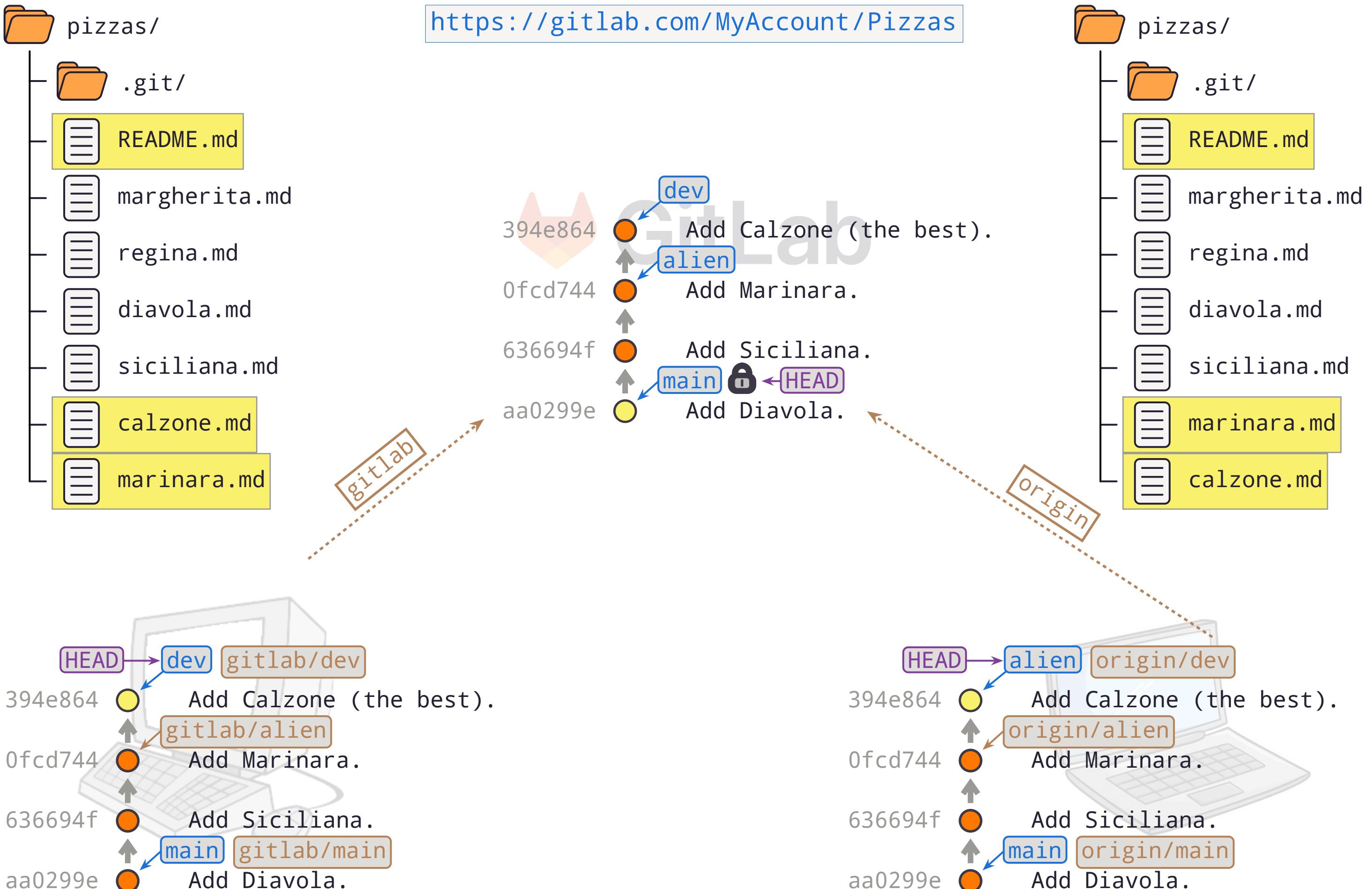
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