

Bonnes pratiques pour une recherche reproductible en écologie numérique.  
Montpellier, 2 décembre 2024

# git from scratch



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

Iago Bonnici   
 **ISEM**  
Institut des Sciences de l'Evolution-Montpellier

# The Various Git Clients

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# Git Clients

Use the tools you prefer



# Git Clients

Use the tools you prefer

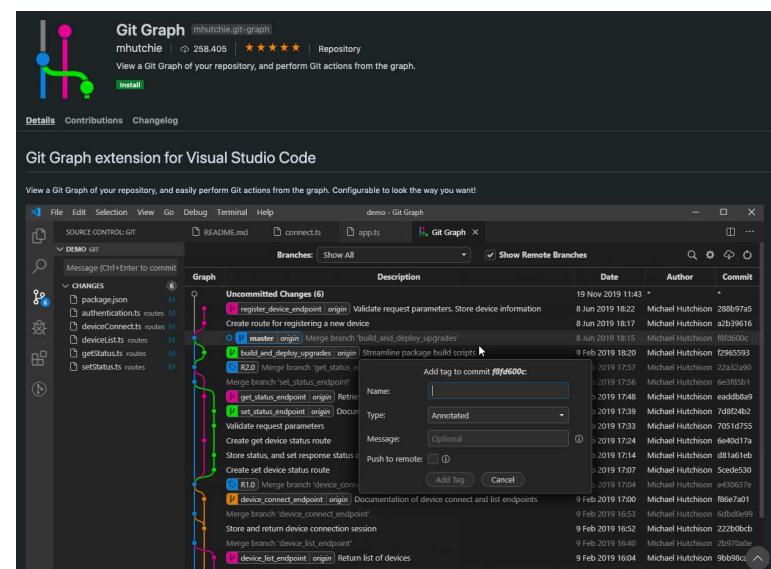


```
*      Sacc482 2012-09-11 (staging) Merge branch
| *    a0c2b86 2012-09-11 (HEAD, master) ridu ju
| *    8cc08af 2012-09-11 (s4) staging uus konf
| *    5c97afc 2012-09-11 Merge branch 'master'
|
| *    088ef93 2012-09-11 (m3) masteri confipara
| *    3e43a8b 2012-09-11 (s2) Merge branch 'mas
|
| *    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

# Git Clients

Use the tools you prefer



VSCode extension

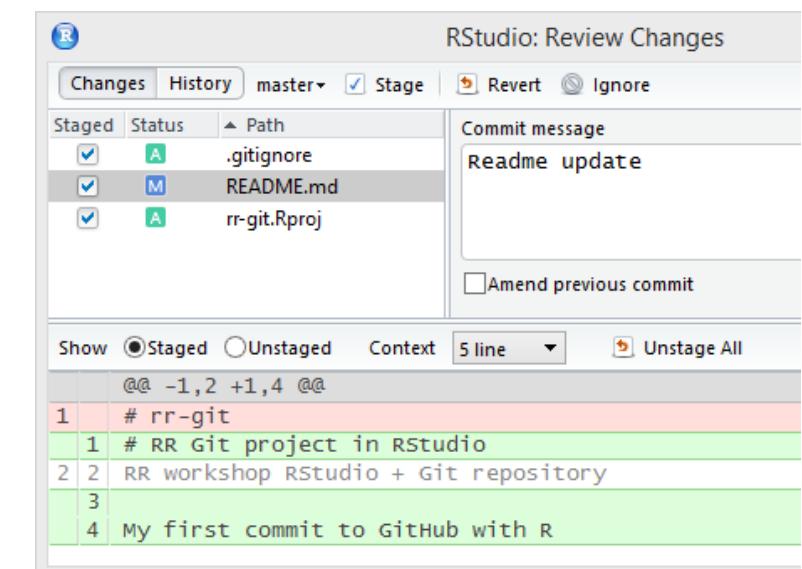
```
* Sacc482 2012-09-11 (staging) Merge branch
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2af9eaa 2012-09-11 staging_conf (Laas Tool
7c15756 2012-09-11 (initial) initial (Laas Tool
```

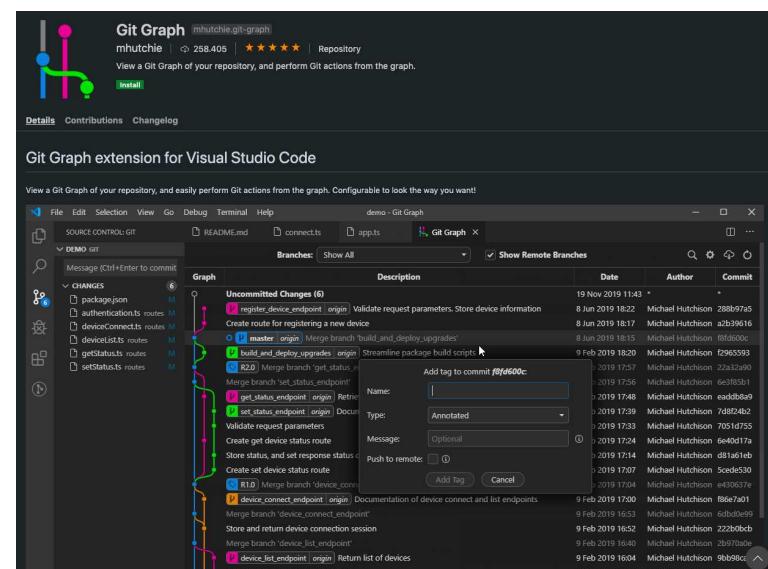
command-line console



RStudio extension

# Git Clients

Use the tools you prefer



VSCode extension

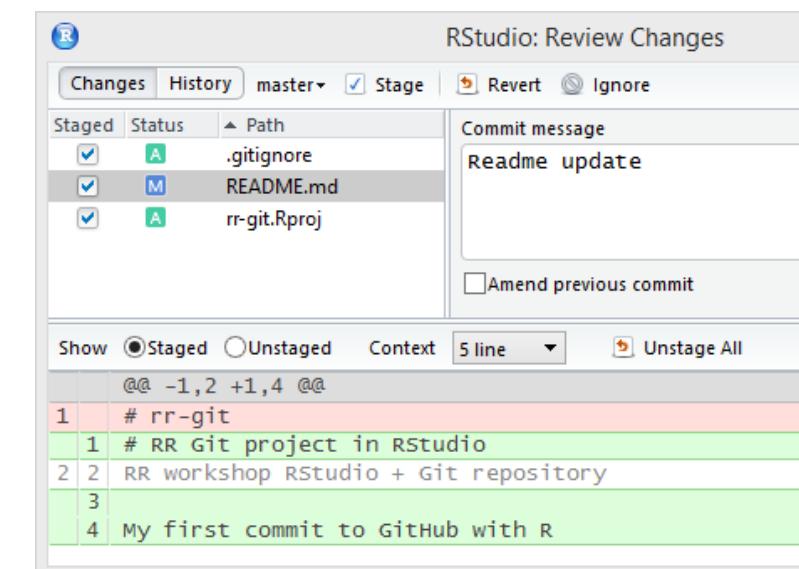
```
* Sacc482 2012-09-11 (staging) Merge branch
a0c2b86 2012-09-11 (HEAD, master) ridu ju
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088ef93 2012-09-11 (m3) masteri confipara
3e43a8b 2012-09-11 (s2) Merge branch 'mas'

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

command-line console

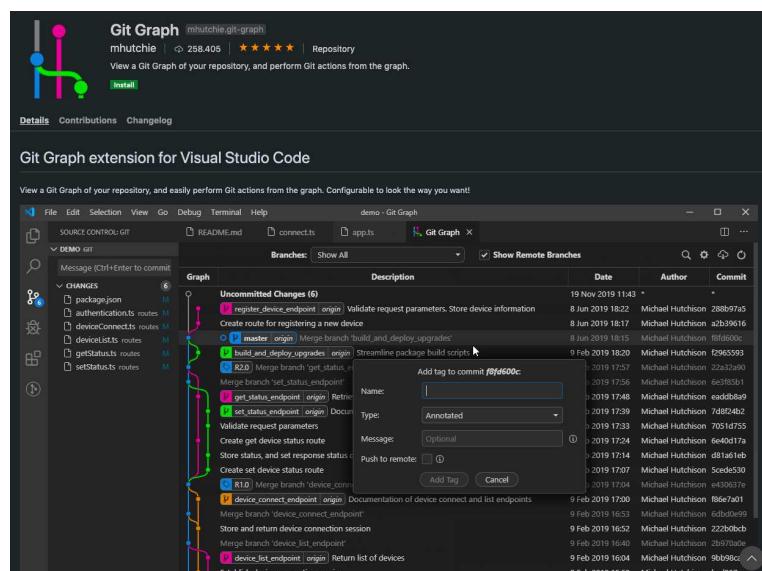


RStudio extension



# Git Clients

Use the tools you prefer



VSCode extension

```
* Sacc482 2012-09-11 (staging) Merge branch
  a0c2b86 2012-09-11 (HEAD, master) ridu ju
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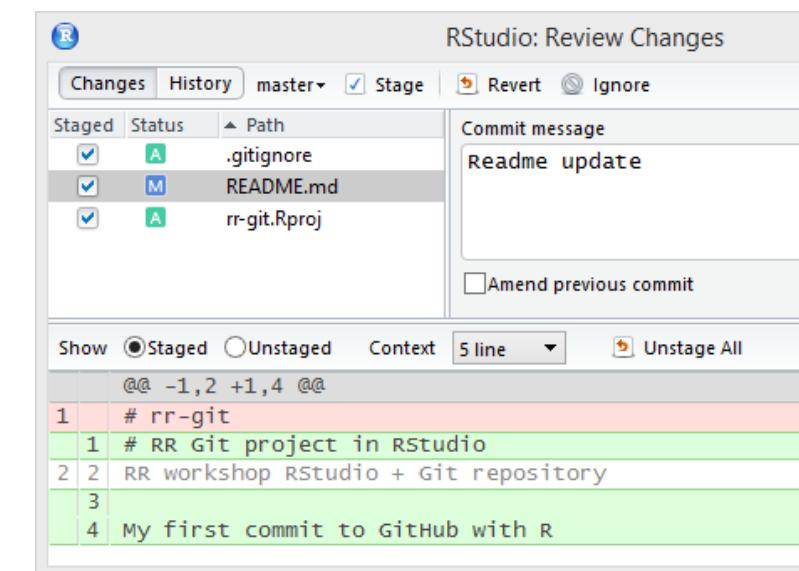
  088ef93 2012-09-11 (m3) masteri confipara
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  e67c45e 2012-09-11 (m2) parandus kolmando
  aa1b0c6 2012-09-11 Merge branch 'master'

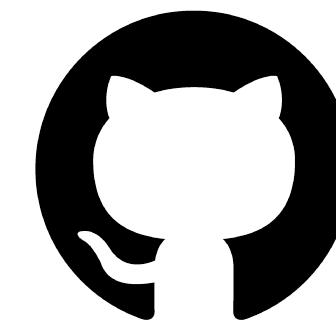
  dc7db82 2012-09-11 (m1) kolmas fail maste
  f616952 2012-09-11 (s1) Staging 2 config
  2af9eaa 2012-09-11 staging_conf (Laas Tool
  7c15756 2012-09-11 (initial) initial (Laas Tool

Uncommitted Changes (6)
register_device_endpoint origin Validate request parameters. Store device information
Create route for registering a new device
Merge branch 'device_connect_endpoint'
build_and_deploy_upgrades origin Streamline package build script
Merge branch 'set_status_endpoint' origin
get_status_endpoint origin Docum
Validate request parameters
Create get device status route
Store status, and set response status
Create set device status route
Merge branch 'device_connect_endpoint'
device_connect_endpoint origin Documentation of device connect and list endpoints
Merge branch 'device_connect_endpoint'
Store and return device connection session
Merge branch 'device_list_endpoint'
device_list_endpoint origin Return list of devices
Establish device connection session
```

command-line console



RStudio extension



GitHub



GitLab

# Pizzas with Git

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# 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



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.

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$ git init
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# The Pizzas Repository

## Crafting your First Commits

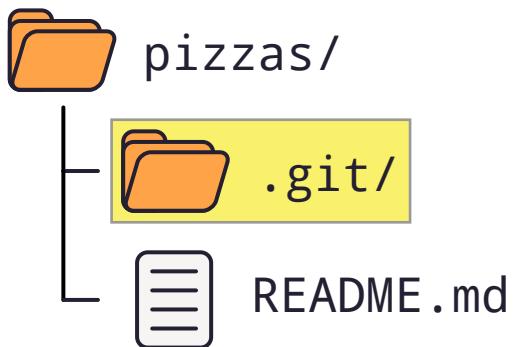


**README.md**

Collect and distribute the best pizzas recipes.

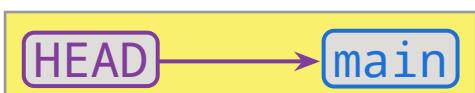
# The Pizzas Repository

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.

HEAD → main

# The Pizzas Repository

Crafting your First Commits



README.md

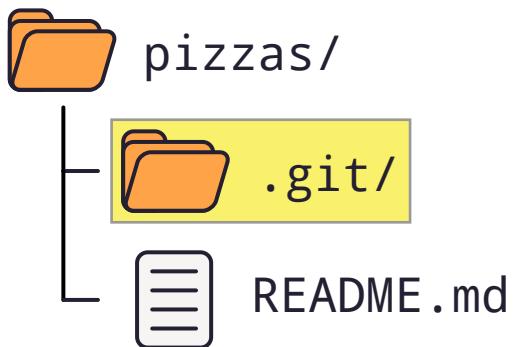
Collect and distribute the best pizzas recipes.

```
$ 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

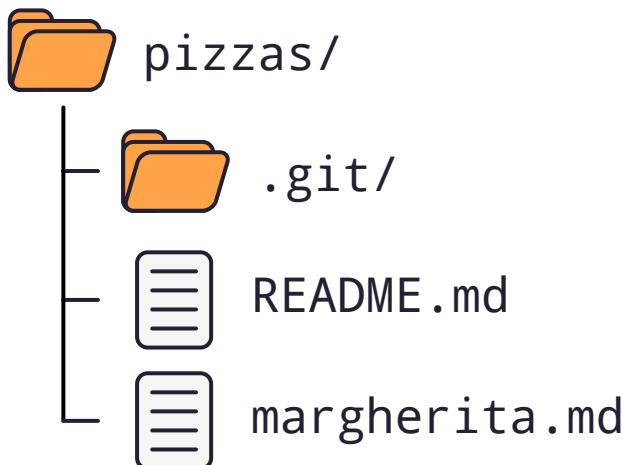
Collect and distribute the best pizzas recipes.

HEAD → main

d1e8c8c ⚡ First commit, the intent.

# 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:

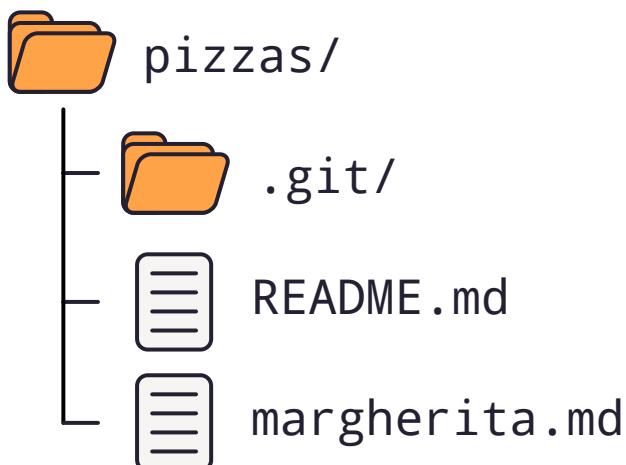
- Mozzarella
- Basil

**HEAD** → **main**

d1e8c8c ⚡ First commit, the intent.

# The Pizzas Repository

## Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

margherita.md

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The simplest and most famous,  
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Base: tomato sauce

Topping:

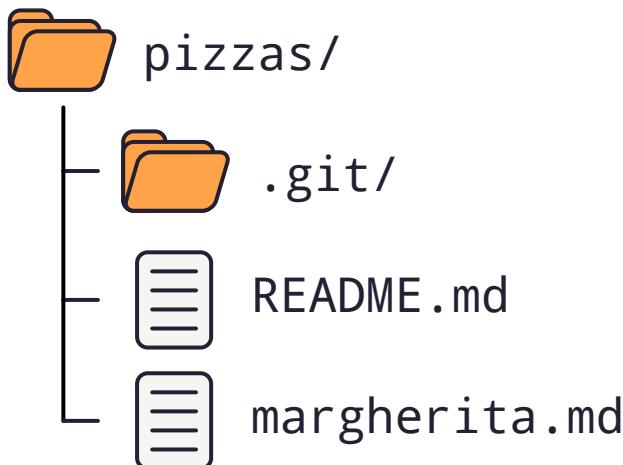
- Mozzarella
- Basil

HEAD → main

d1e8c8c ⚡ First commit, the intent.

# The Pizzas Repository

## Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

margherita.md

# Margherita

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

Base: tomato sauce

Topping:

- Mozzarella

- Basil

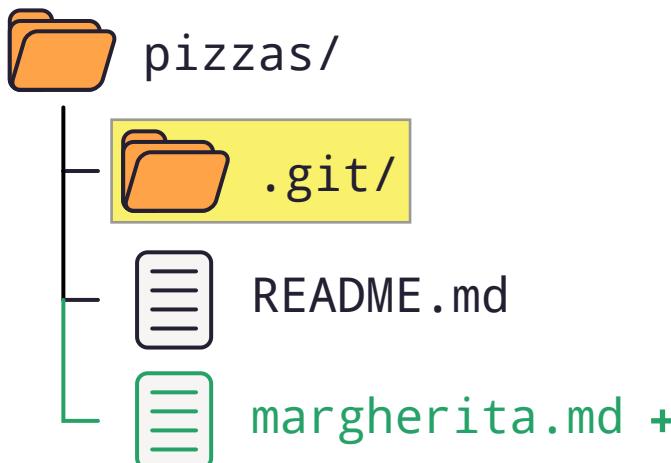
```
$ git diff
```

HEAD → main

d1e8c8c ⚡ First commit, the intent.

# 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
```

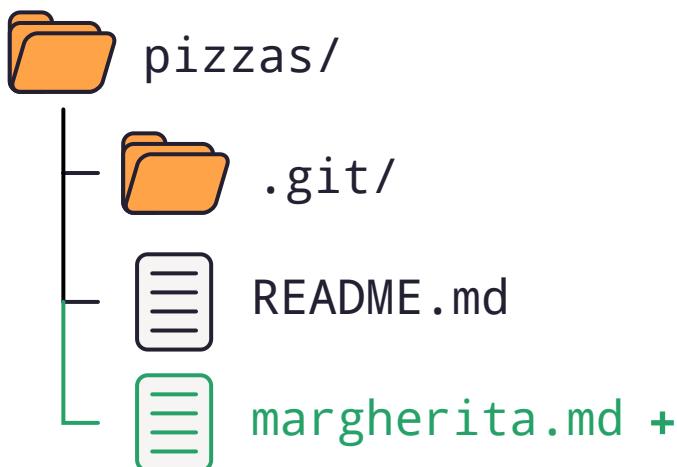
\$ git diff

HEAD → main

d1e8c8c ○ First commit, the intent.

# The Pizzas Repository

## Crafting your First Commits



### README.md

Collect and distribute the best pizzas recipes.

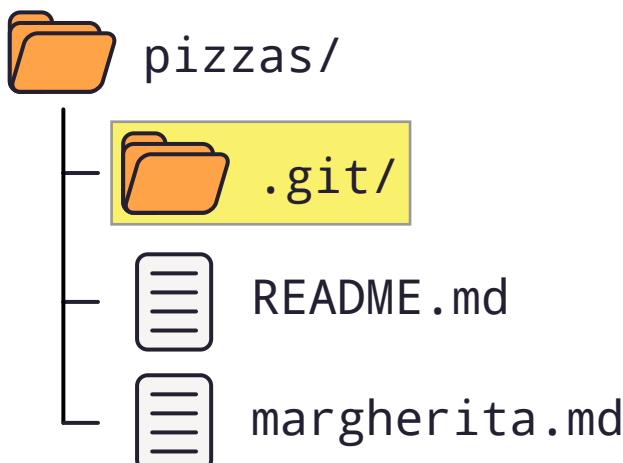
```
+ margherita.md
+ # Margherita
+
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+ the one to pick when you're unsure
+ whether the cook is good.
+
+ Base:__ tomato sauce
+ Topping:
+ - Mozzarella
+ - Basil
```

HEAD → main

d1e8c8c ⚡ First commit, the intent.

# The Pizzas Repository

## Crafting your First Commits



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

\$ git commit

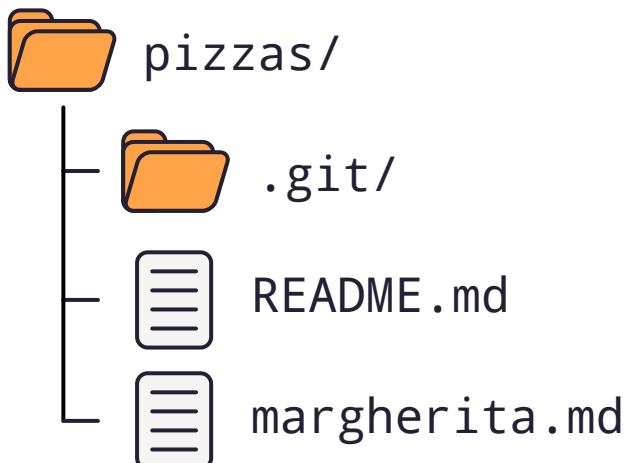
HEAD → main

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.

margherita.md

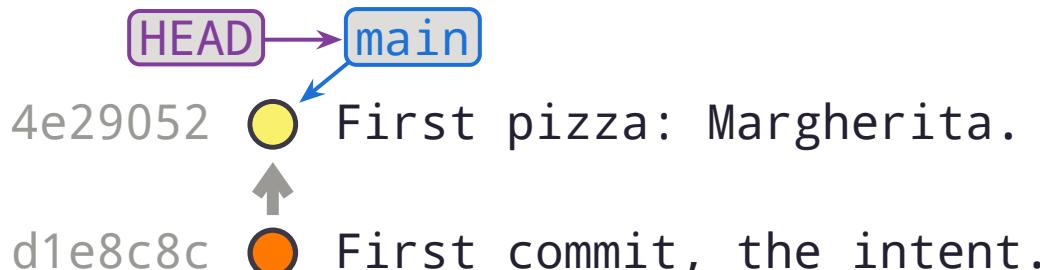
# Margherita

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

Base: tomato sauce

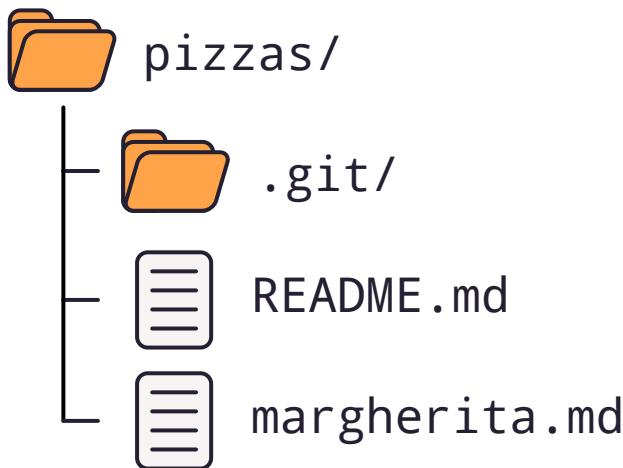
Topping:

- Mozzarella
- Basil



# 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

\*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.

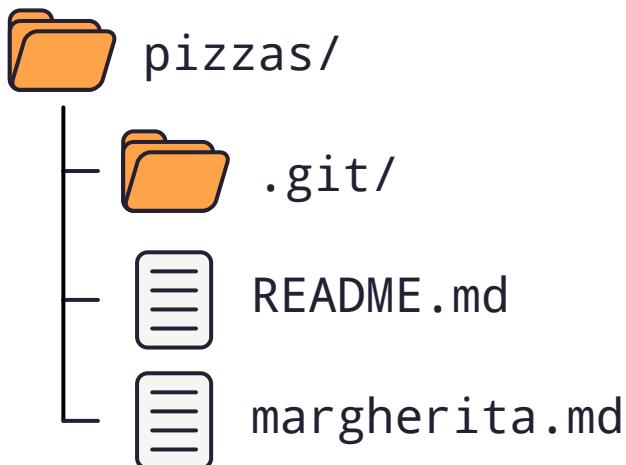
HEAD → main

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# The Pizzas Repository

## Crafting your First Commits



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Topping:

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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

+

+ \*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.

\$ git diff

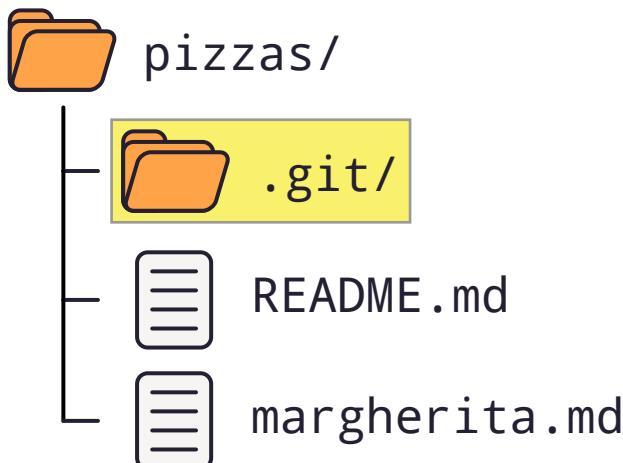
HEAD → main

4e29052 ⚡ First pizza: Margherita.

d1e8c8c 🍕 First commit, the intent.

# The Pizzas Repository

## Crafting your First Commits



```
$ git commit
```

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

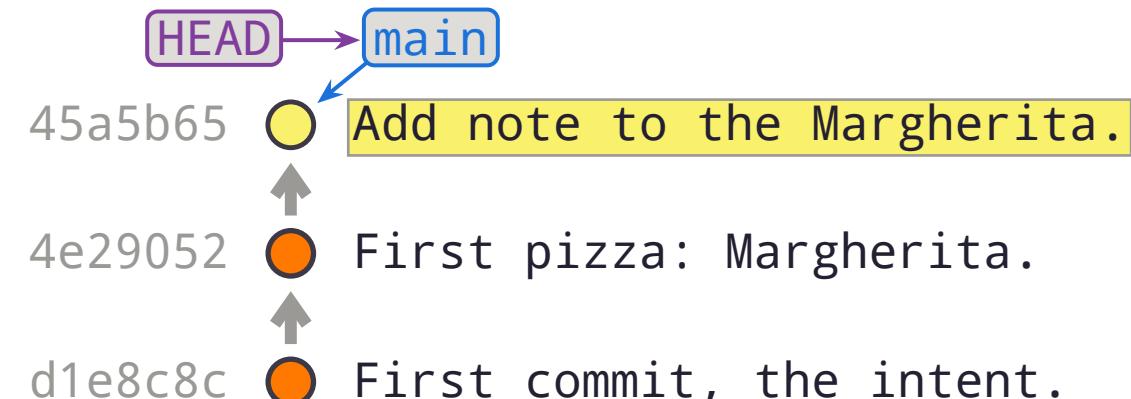
Topping:

- Mozzarella

- Basil

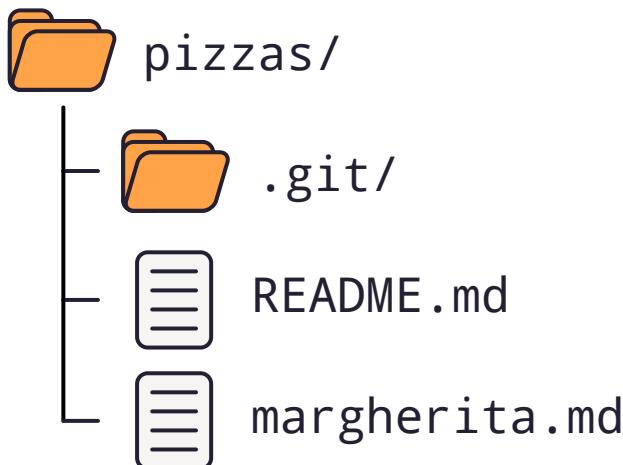
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# The Pizzas Repository

## Crafting your First Commits



### README.md

Collect and distribute the best pizzas recipes.

### margherita.md

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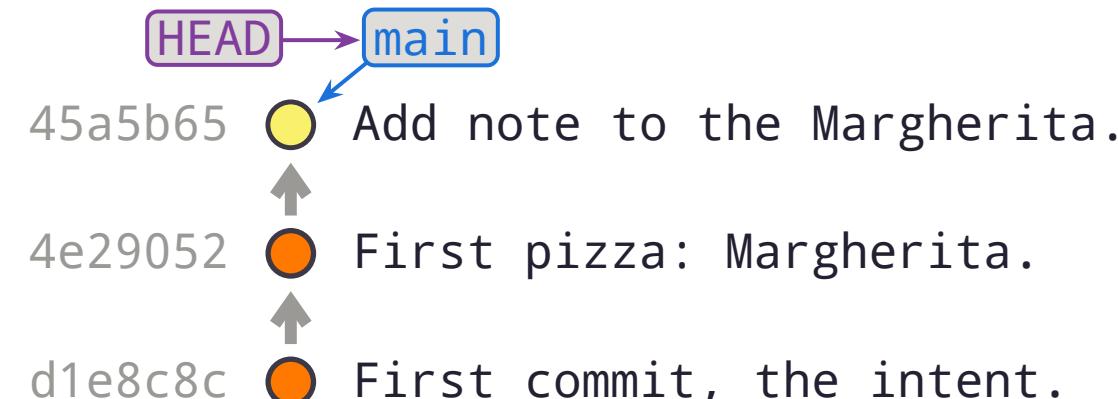
Base: tomato sauce

Topping:

- Mozzarella
- Basil

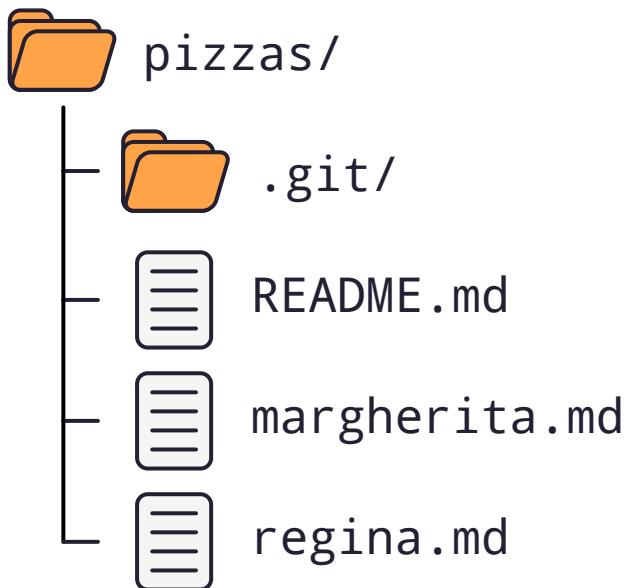
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Nevertheless, it is always good  
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olive oil, salt, or oregano.



# 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
- Basil

\*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.

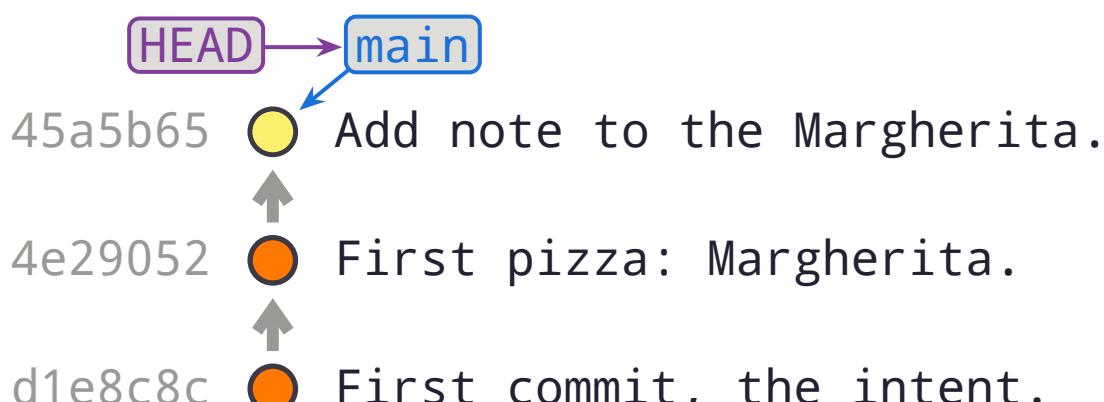
### regina.md

#### # Regina

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

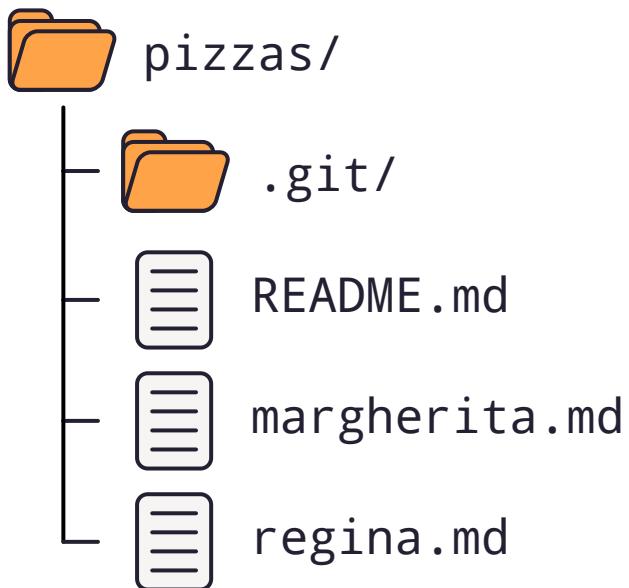
Base: tomato sauce  
Topping:

- 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,  
the one to pick when you're unsure  
whether the cook is good.

Base: tomato sauce  
Topping:

- Mozzarella
- Basil

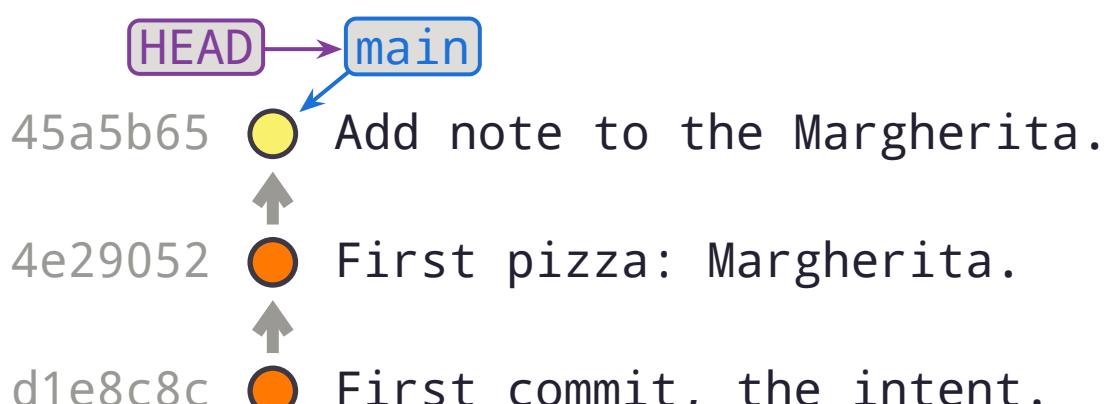
  
\*Note:  
It is said that this pizza  
has only three ingredients  
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Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.

### regina.md

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

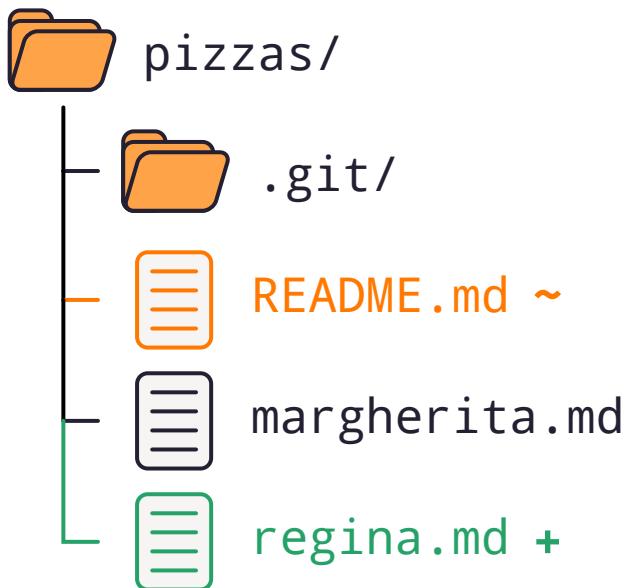
Base: tomato sauce  
Topping:

- 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  
- Basil
```

```
*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.
```

\$ git diff

HEAD → main

45a5b65 Add note to the Margherita.

4e29052 First pizza: Margherita.

d1e8c8c First commit, the intent.

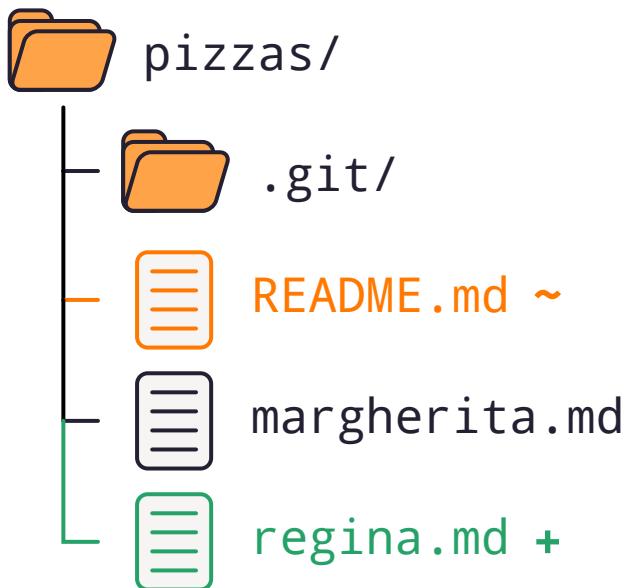
### + regina.md

```
# 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 chronological flow from bottom to top.

### README.md

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

\*Note:  
It is said that this pizza  
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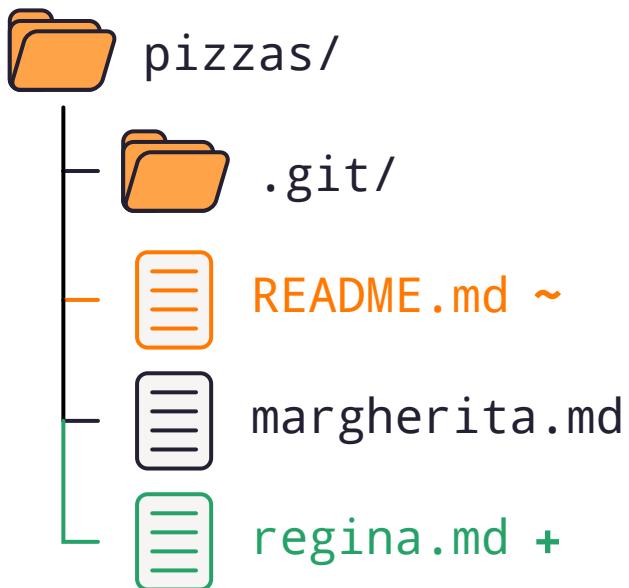
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Created by pizzaiolo  
Raffaele Esposito.

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

# The Pizzas Repository

## Crafting your First Commits



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### 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

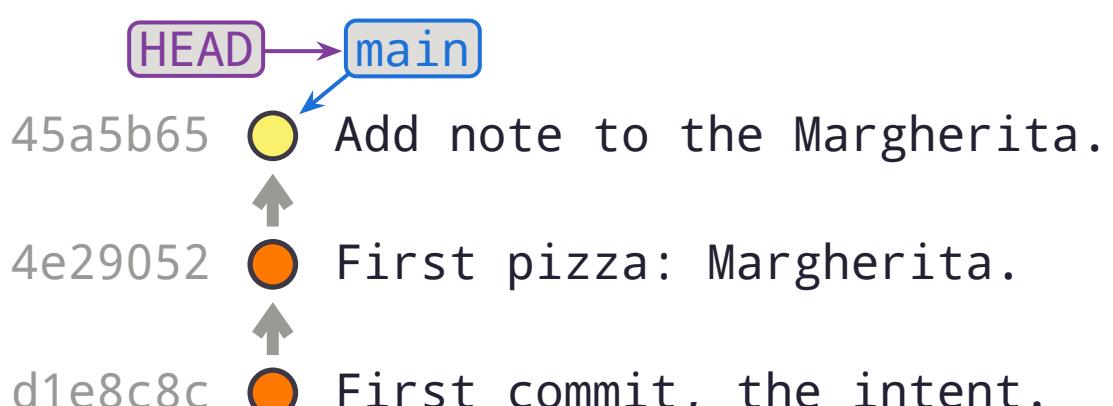
  
\*Note:  
It is said that this pizza  
has only three ingredients  
corresponding to the three colors  
on the Italian flag.  
Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.

### regina.md

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

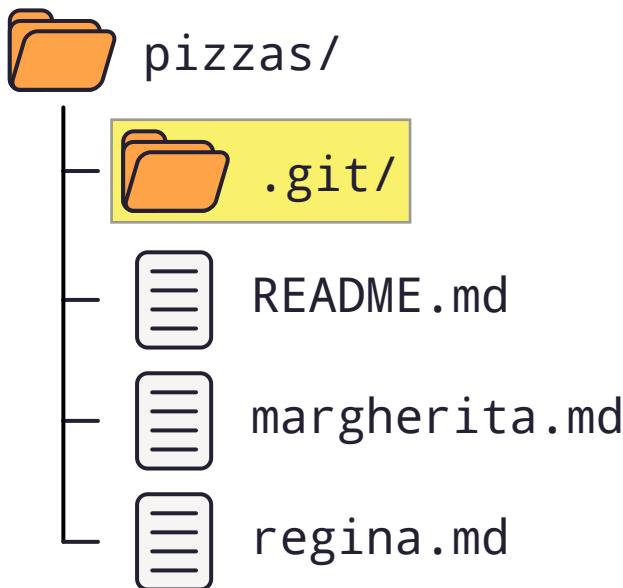
Base: tomato sauce  
Topping:

- Mozzarella
- Ham
- Mushrooms



# The Pizzas Repository

## Crafting your First Commits



```
$ git commit
```

### 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.

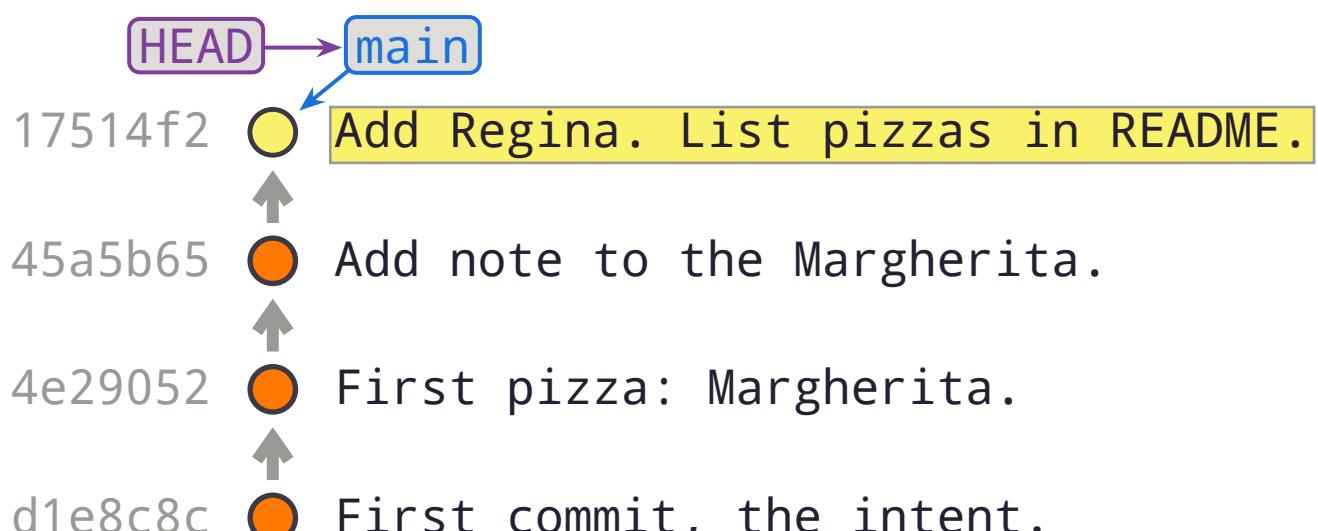
\_\_Base\_\_: tomato sauce  
\_\_Topping:  
- Mozzarella  
- Basil

\*Note\*: It is said that this pizza  
has only three ingredients  
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Nevertheless, it is always good  
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### regina.md

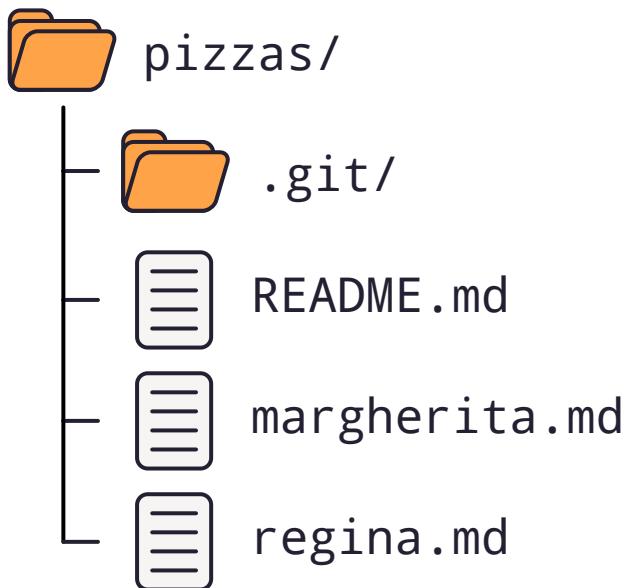
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Created by pizzaiolo  
Raffaele Esposito.

\_\_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:

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

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whether the cook is good.

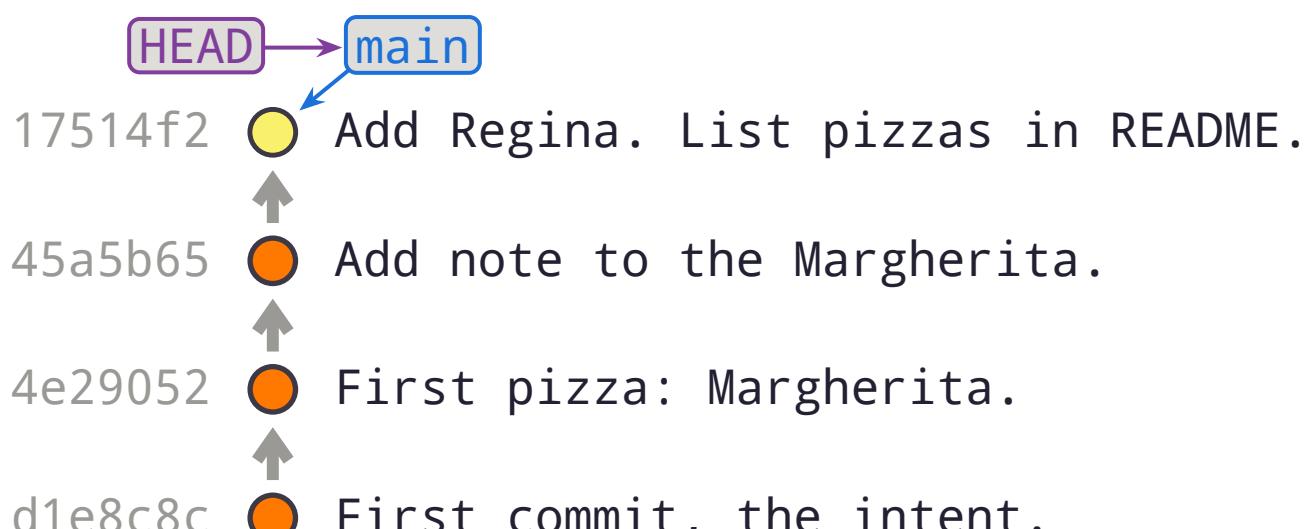
\_\_Base:\_\_ tomato sauce  
\_\_Topping:  
- Mozzarella  
- Basil

\*Note:  
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### regina.md

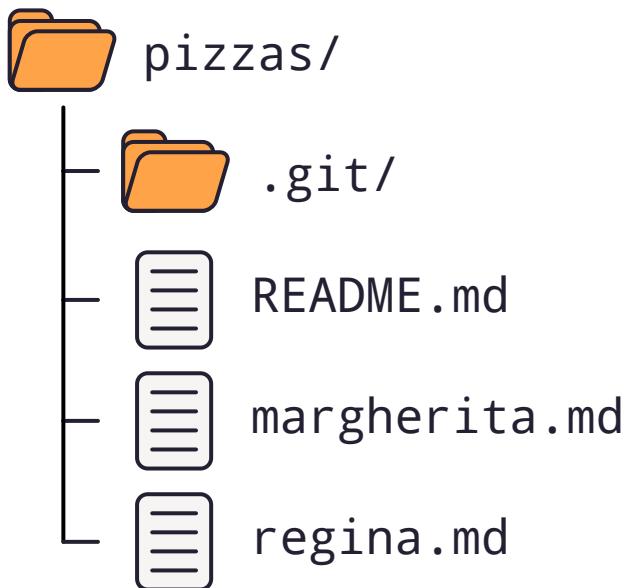
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\_\_Base:\_\_ tomato sauce  
\_\_Topping:  
- Mozzarella  
- Ham  
- Mushrooms



# 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
- Basil

\*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.

```
$ 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

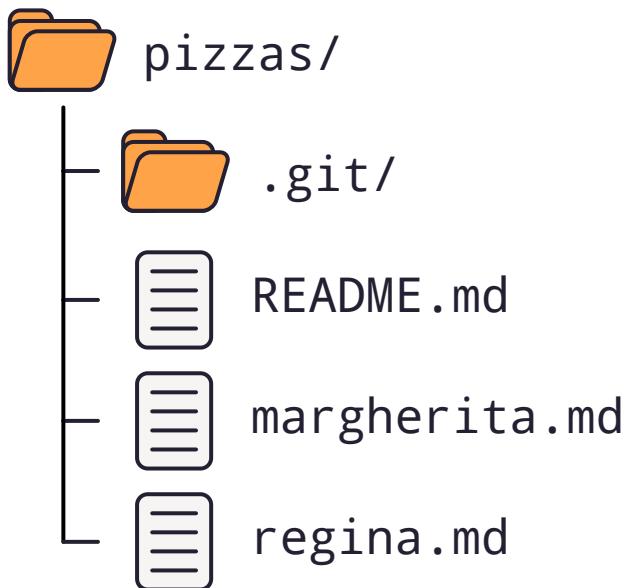
# Regina  
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Created by pizzaiolo  
Raffaele Esposito.

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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whether the cook is good.

Base: tomato sauce  
Topping:

- Mozzarella
- Basil

\*Note:  
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```
$ git checkout 45a5b65
```



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

### regina.md

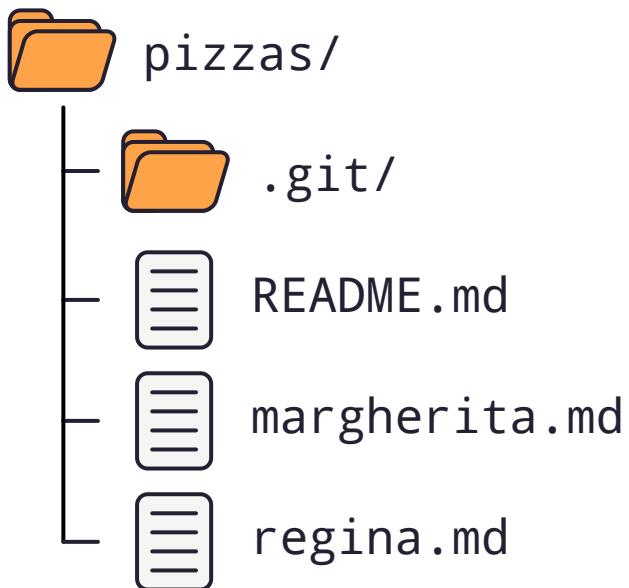
# Regina  
This audacious pizza  
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Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.

Base: tomato sauce  
Topping:

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- Ham
- Mushrooms

# The Pizzas Repository

## Crafting your First Commits



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### margherita.md

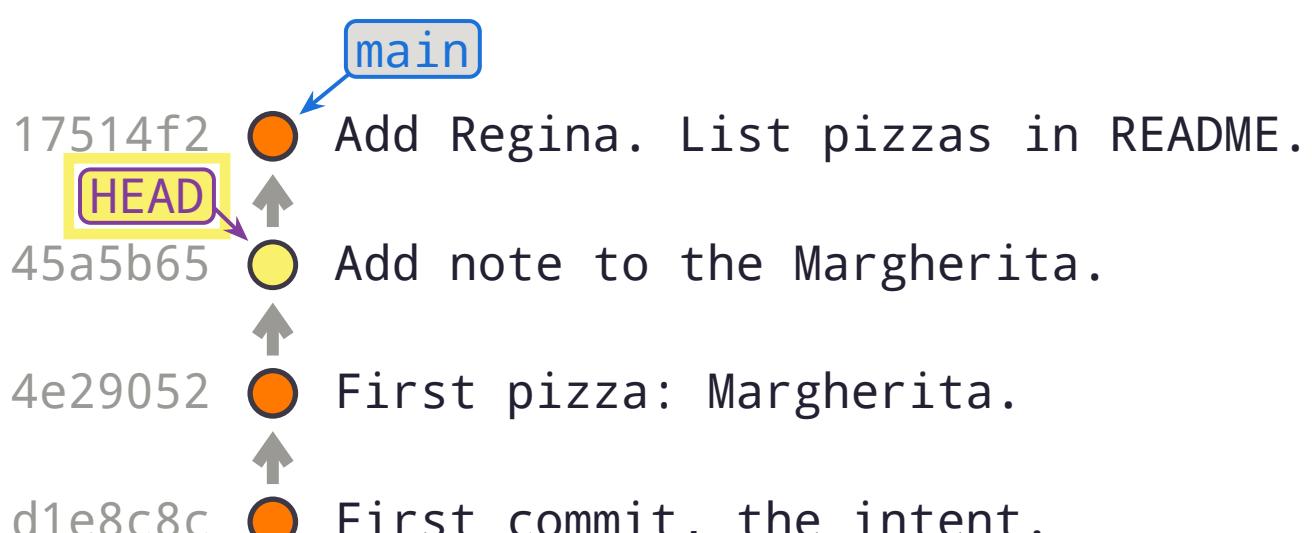
# Margherita  
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Base: tomato sauce  
Topping:

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\*Note:  
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Nevertheless, it is always good  
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```
$ git checkout 45a5b65
```



### regina.md

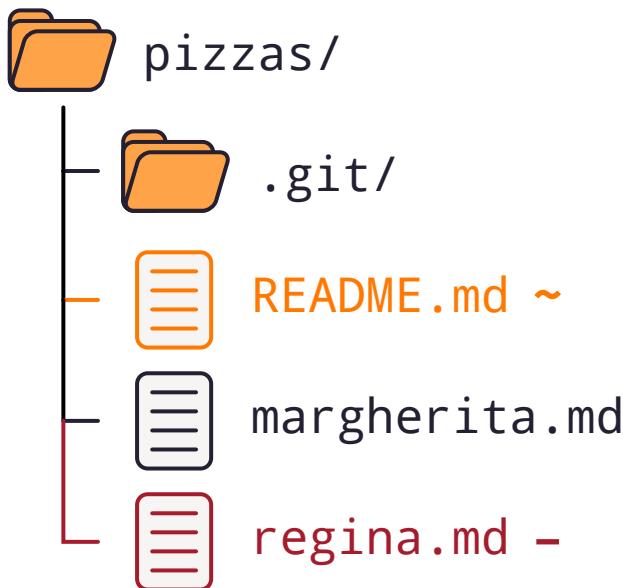
# Regina  
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Created by pizzaiolo  
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- Mushrooms

# The Pizzas Repository

## Crafting your First Commits



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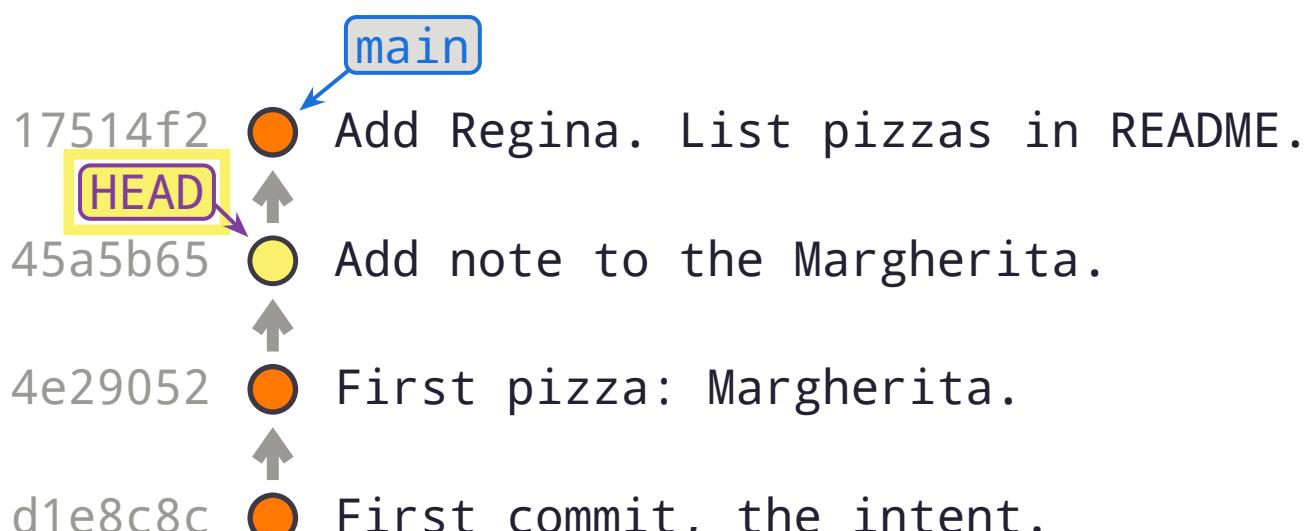
### margherita.md

# Margherita  
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Base: tomato sauce  
Topping:  
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- Basil

\*Note:  
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```
$ git checkout 45a5b65
```



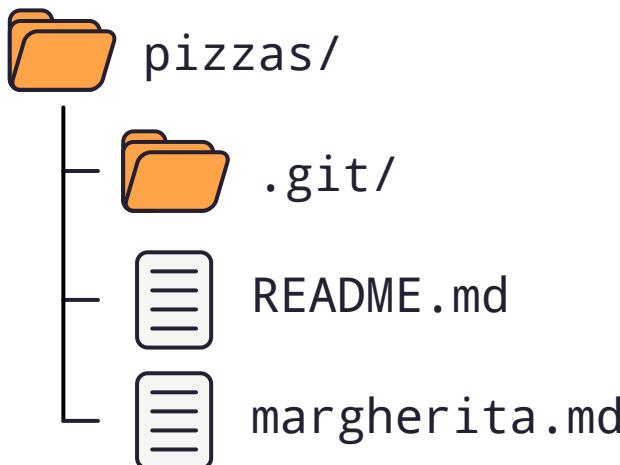
### - regina.md

# Regina  
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Created by pizzaiolo  
Raffaele Esposito.

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

# The Pizzas Repository

## Crafting your First Commits



```
$ git checkout 45a5b65
```

### README.md

Collect and distribute the best pizzas recipes.

### margherita.md

# Margherita

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

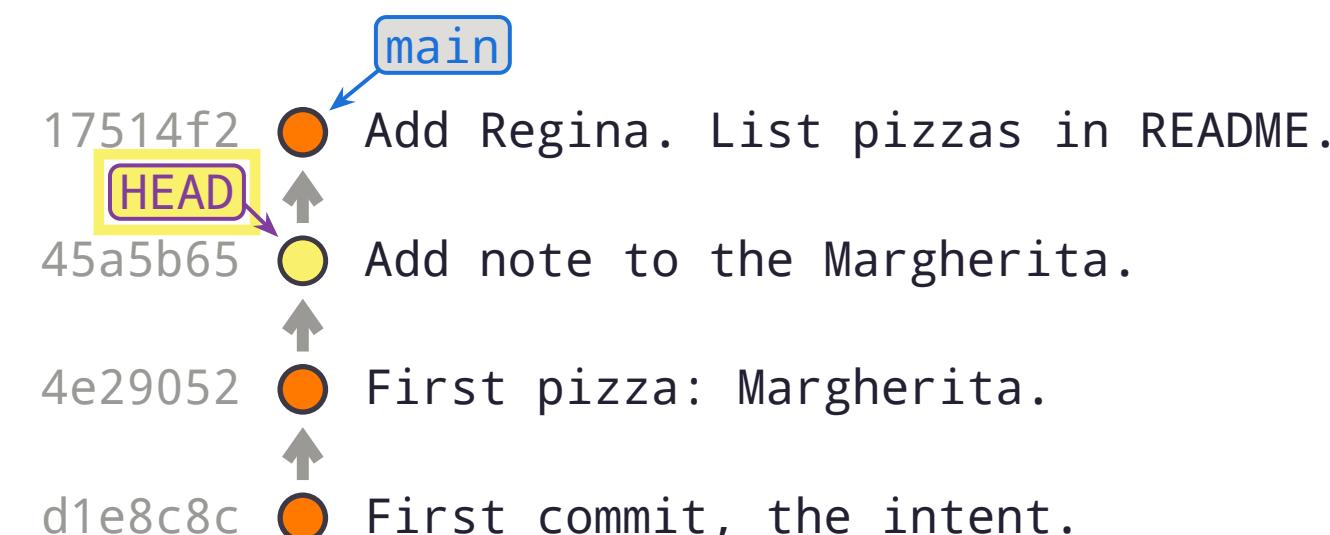
Base: tomato sauce

Topping:

- Mozzarella
- Basil

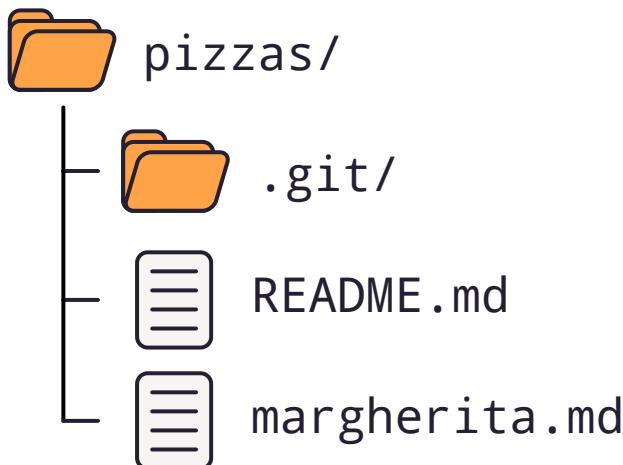
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# The Pizzas Repository

## Crafting your First Commits



### README.md

Collect and distribute the best pizzas recipes.

### margherita.md

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The simplest and most famous,  
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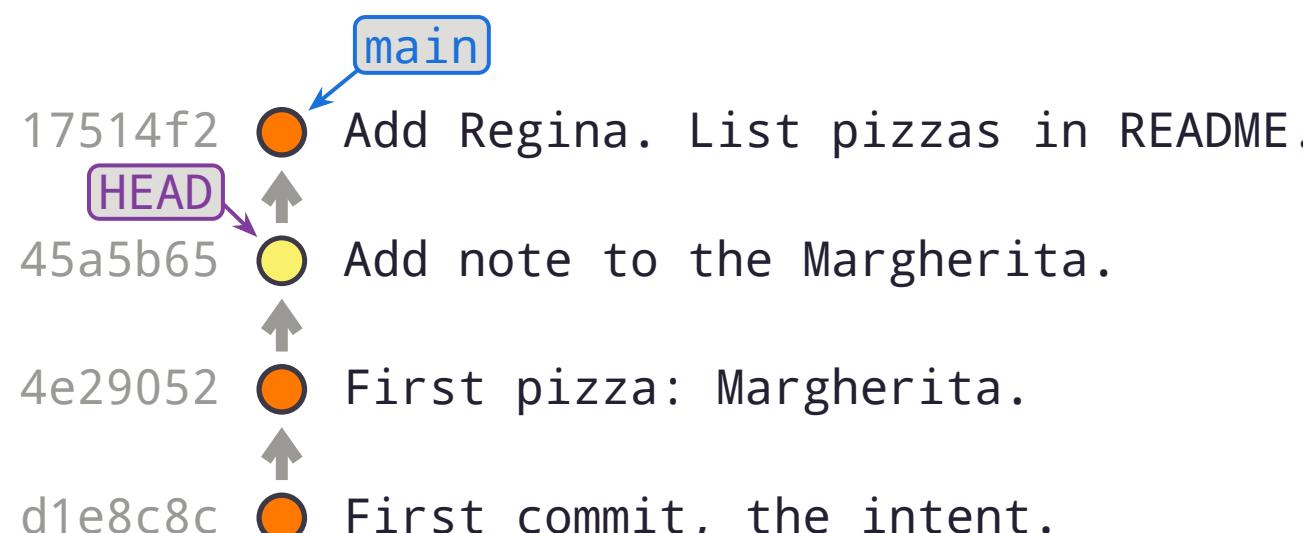
Base: tomato sauce

Topping:

- Mozzarella
- Basil

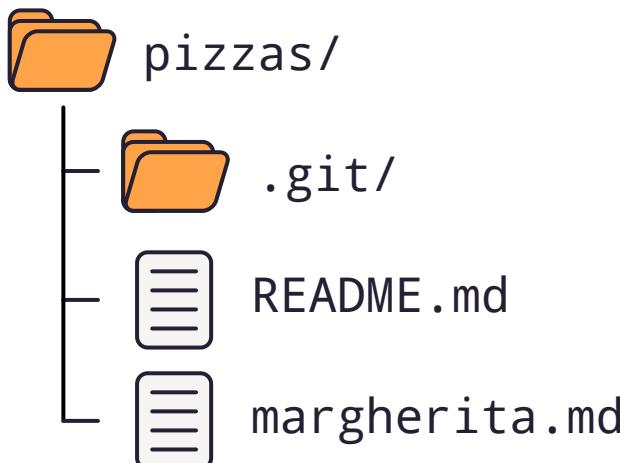
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Nevertheless, it is always good  
and \*authorized\* to add  
olive oil, salt, or oregano.



# The Pizzas Repository

## Crafting your First Commits



```
$ git checkout d1e8c8c
```

### 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.

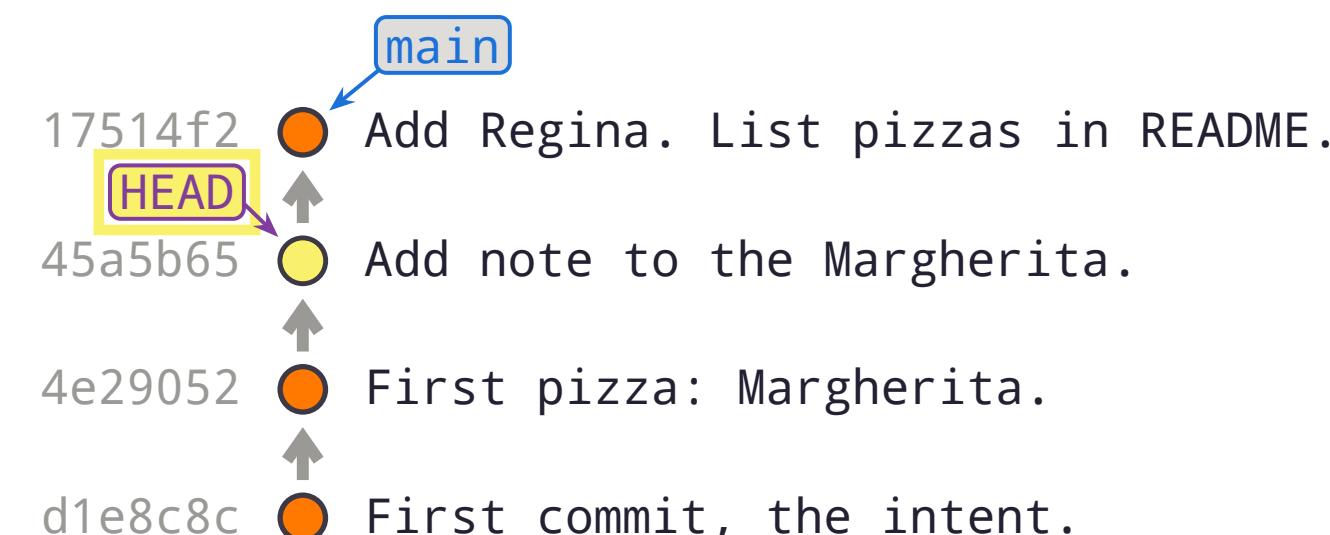
Base: tomato sauce

Topping:

- Mozzarella
- Basil

\*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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# The Pizzas Repository

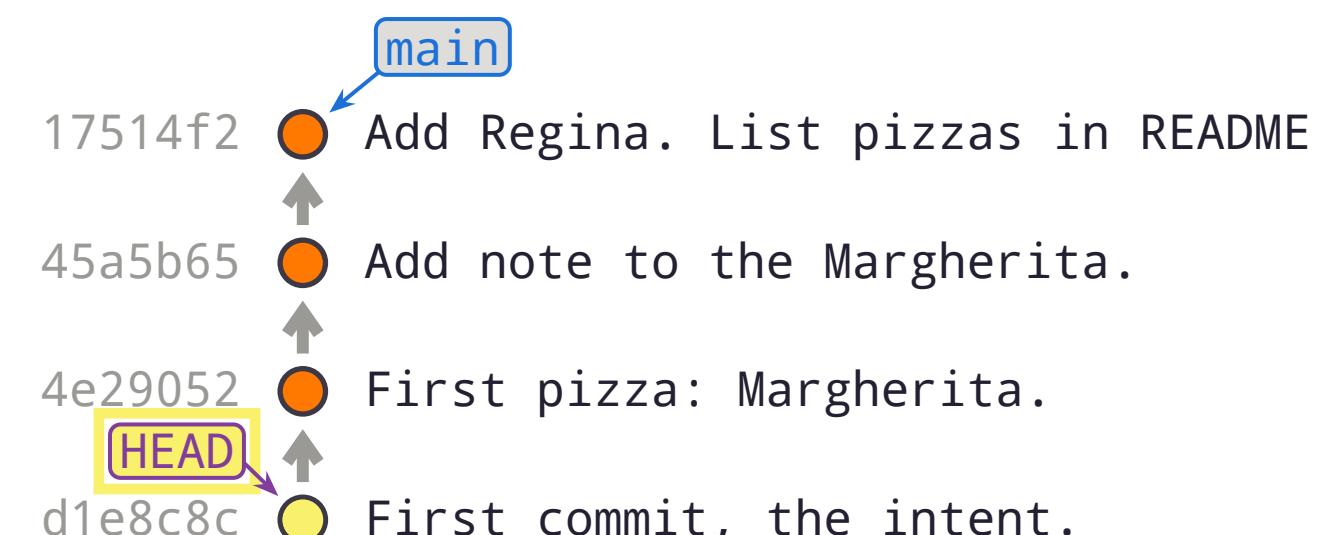
## Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

```
$ git checkout d1e8c8c
```



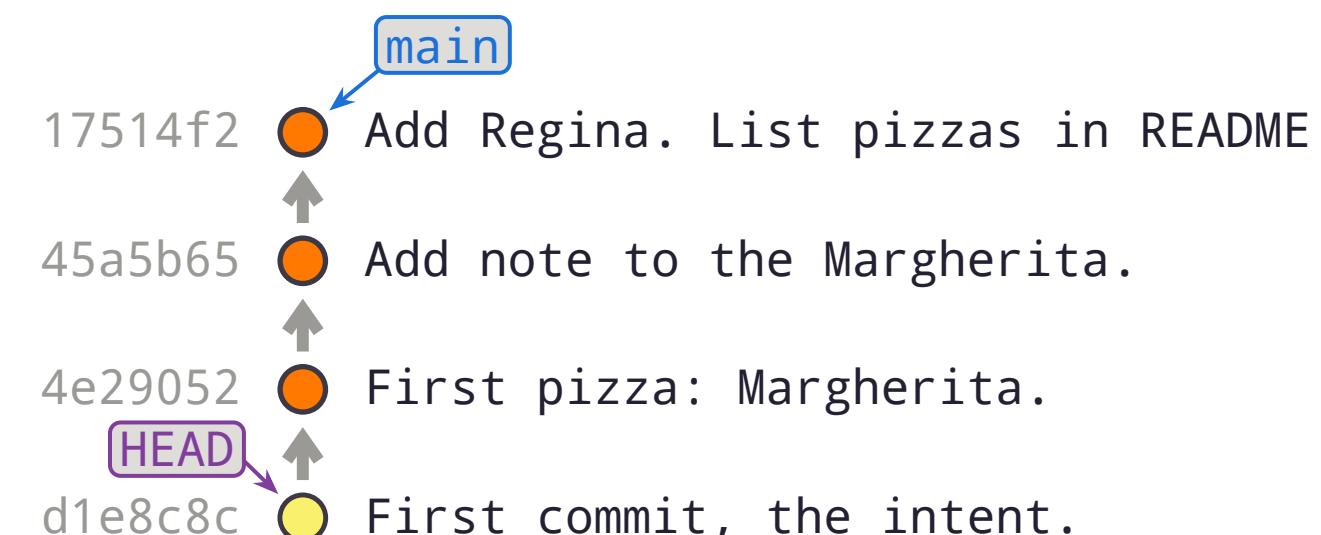
# The Pizzas Repository

Crafting your First Commits



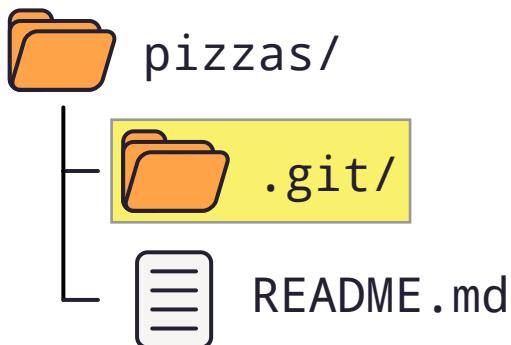
README.md

Collect and distribute the best pizzas recipes.



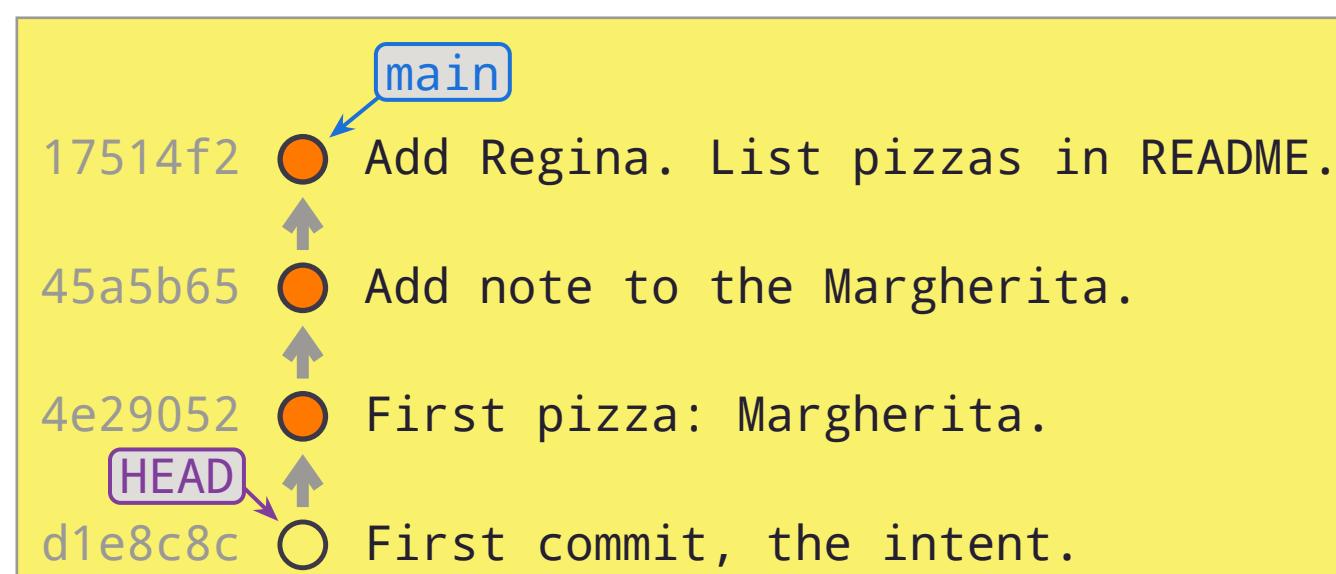
# The Pizzas Repository

## Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.



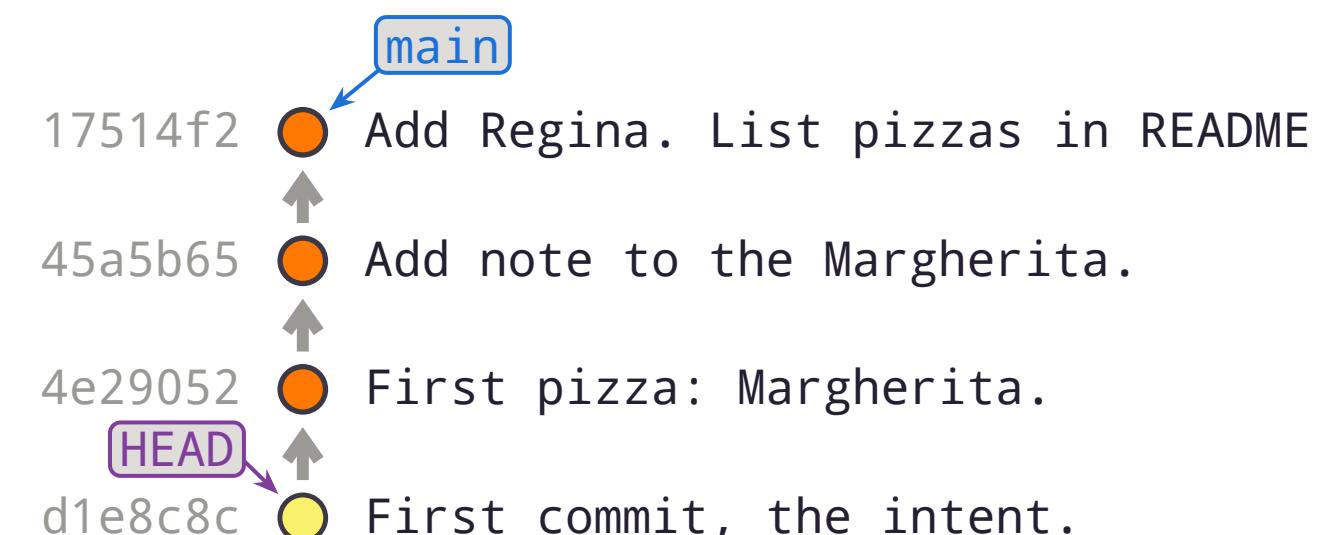
# The Pizzas Repository

Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.



# The Pizzas Repository

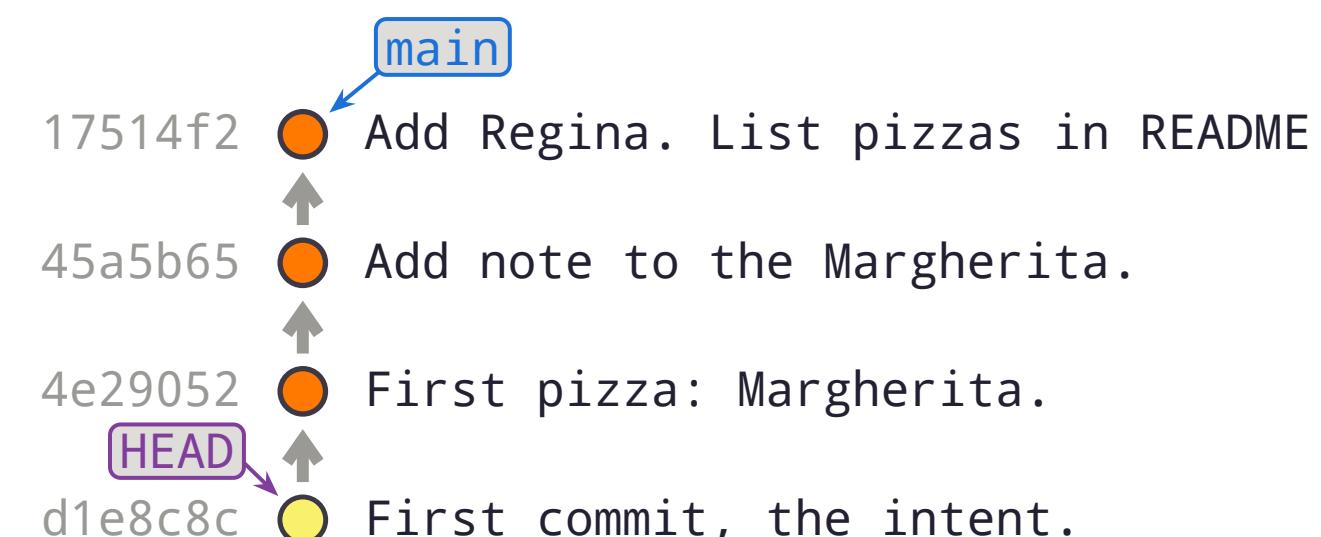
Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

```
$ git checkout 17514f2
```



# The Pizzas Repository

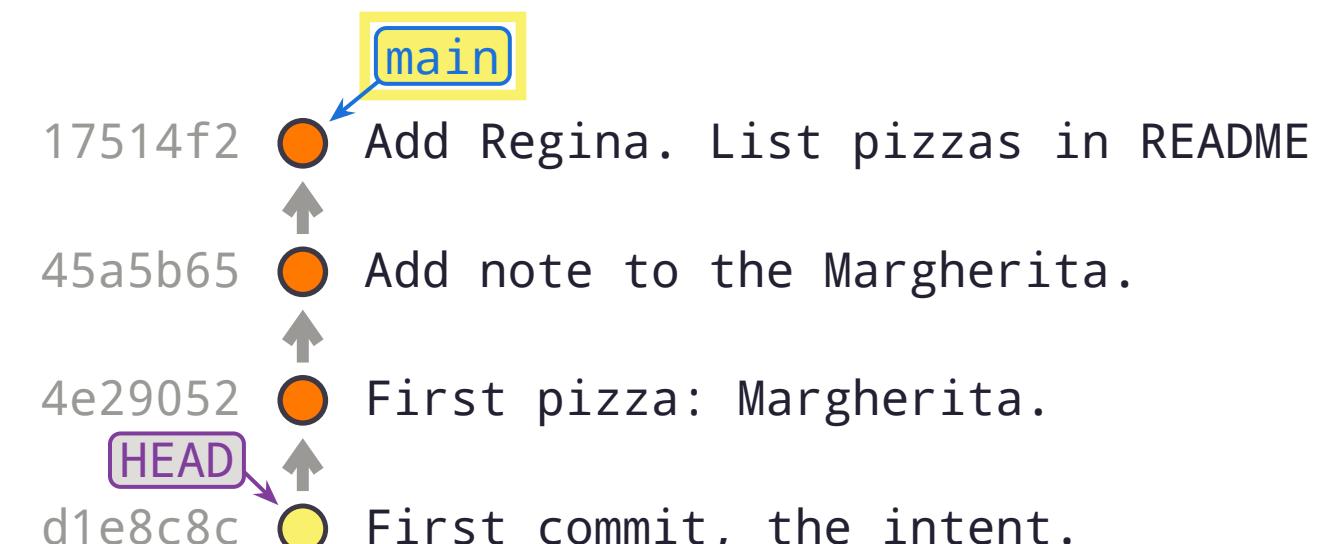
Crafting your First Commits



README.md

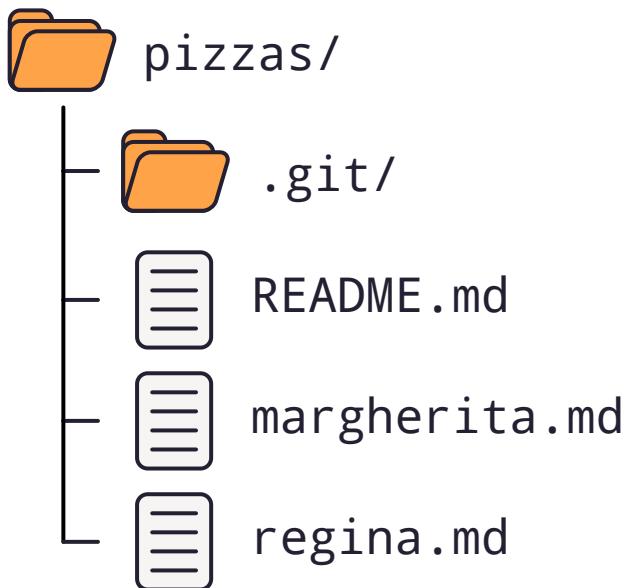
Collect and distribute the best pizzas recipes.

```
$ git checkout main
```



# The Pizzas Repository

## Crafting your First Commits



### 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:

- Mozzarella
- Basil

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olive oil, salt, or oregano.

```
$ git checkout 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.

### regina.md

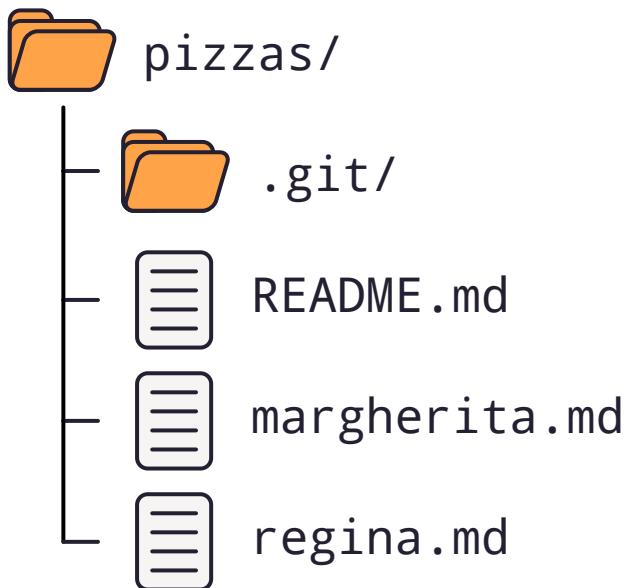
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This audacious pizza  
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Created by pizzaiolo  
Raffaele Esposito.

Base: tomato sauce  
Topping:

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- Ham
- Mushrooms

# The Pizzas Repository

## Crafting your First Commits



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The simplest and most famous,  
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Base: tomato sauce  
Topping:

- Mozzarella
- Basil

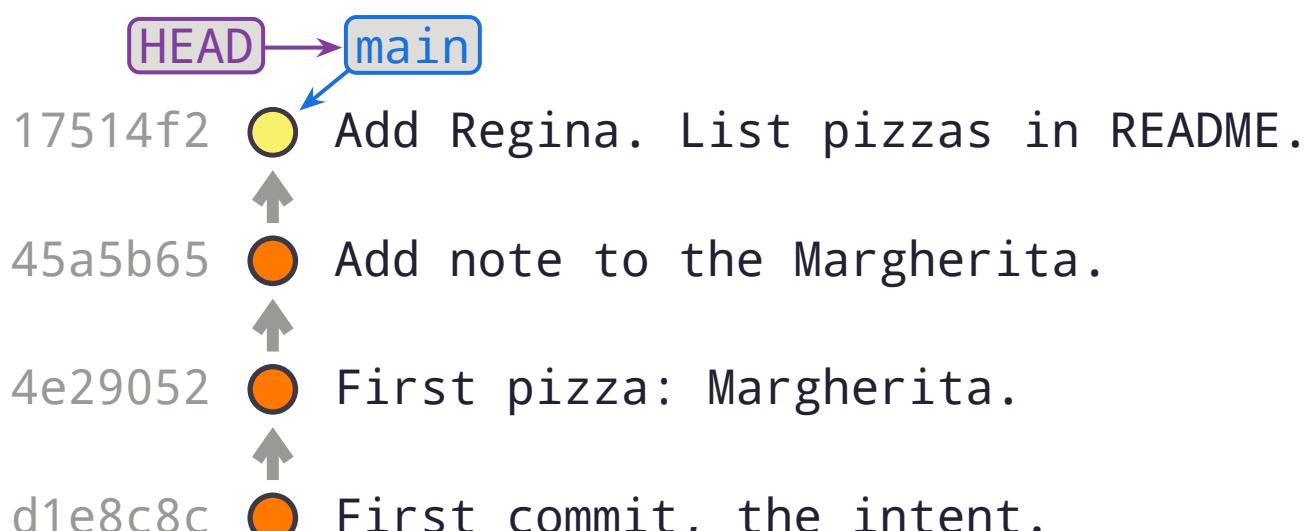
  
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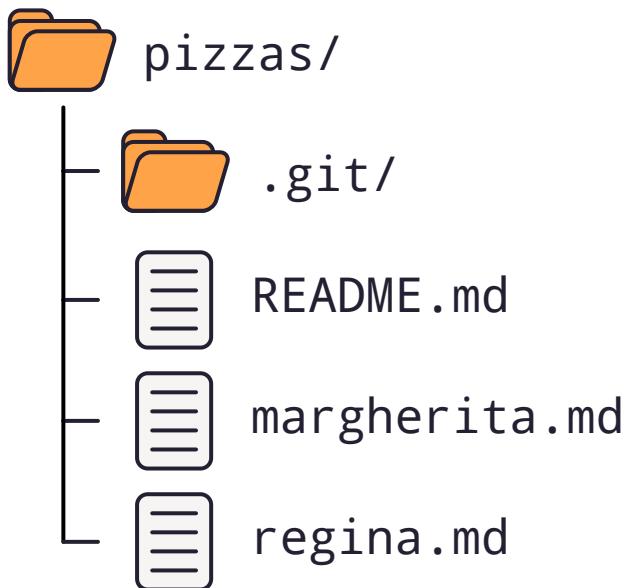
Base: tomato sauce  
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- Ham
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# The Pizzas Repository

## Crafting your First Commits



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### margherita.md

#### # Margherita

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Base: tomato sauce  
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Base: tomato sauce  
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- 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

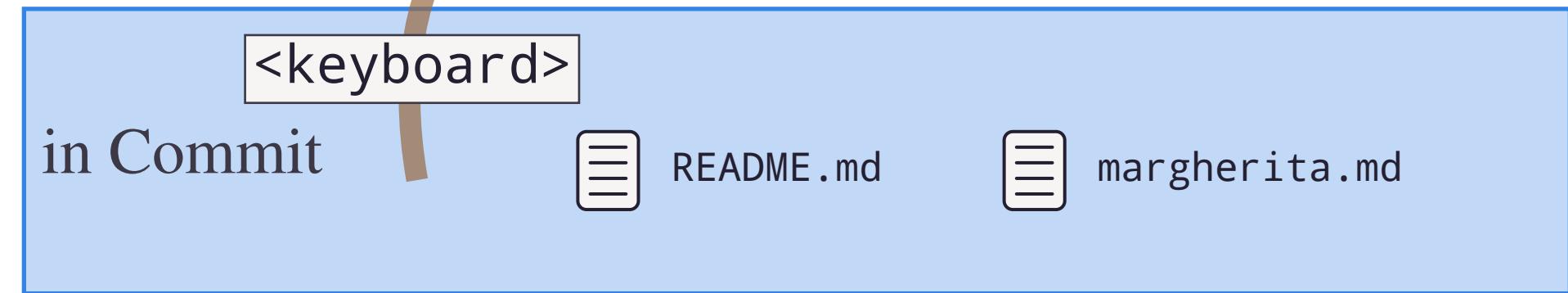
The Whole Process

???????

Next commit.

a03a2bb

One commit.



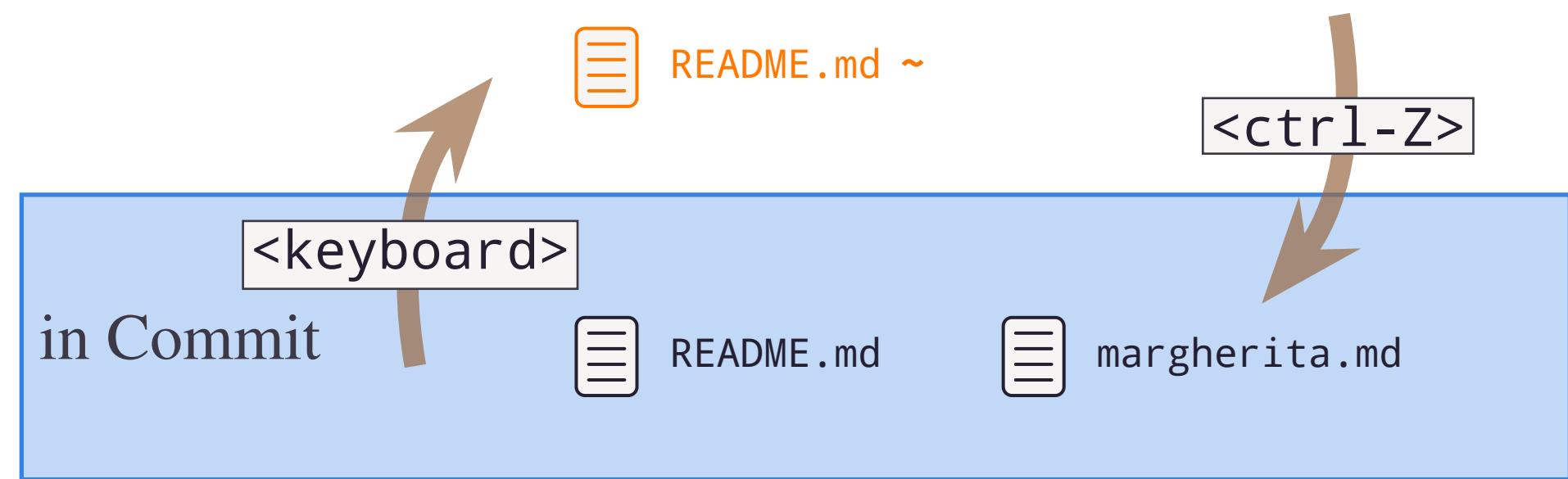
# Constructing a Commit

The Whole Process

???????

● Next commit.

a03a2bb ● One commit.

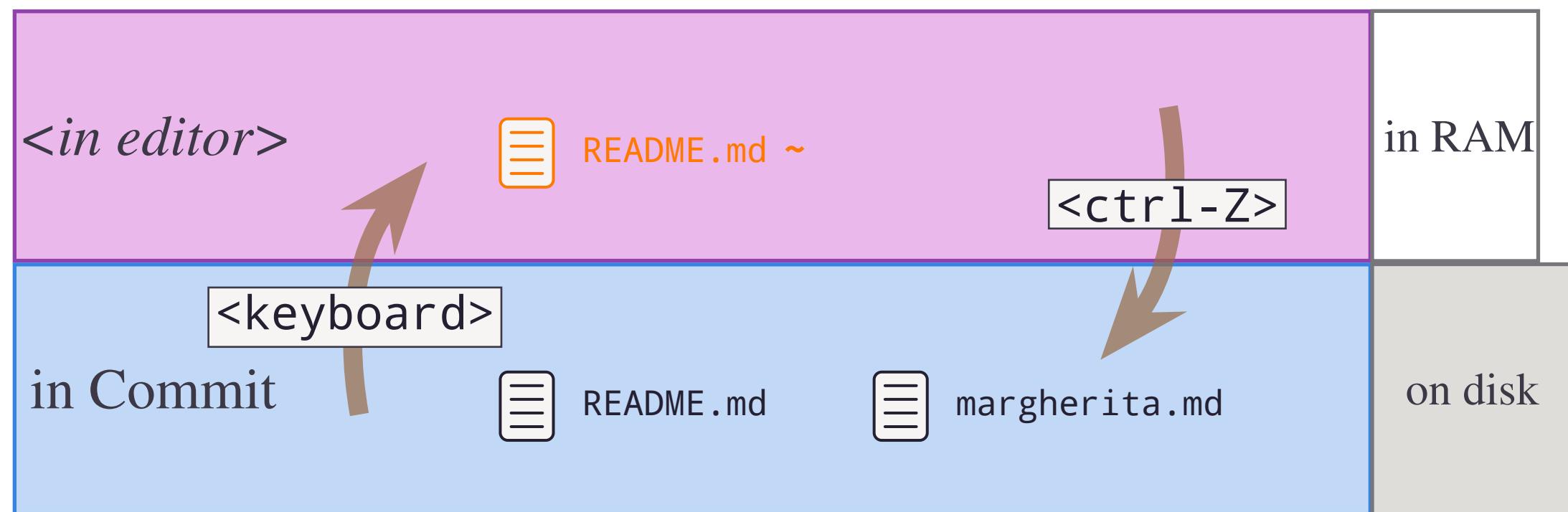


# Constructing a Commit

The Whole Process

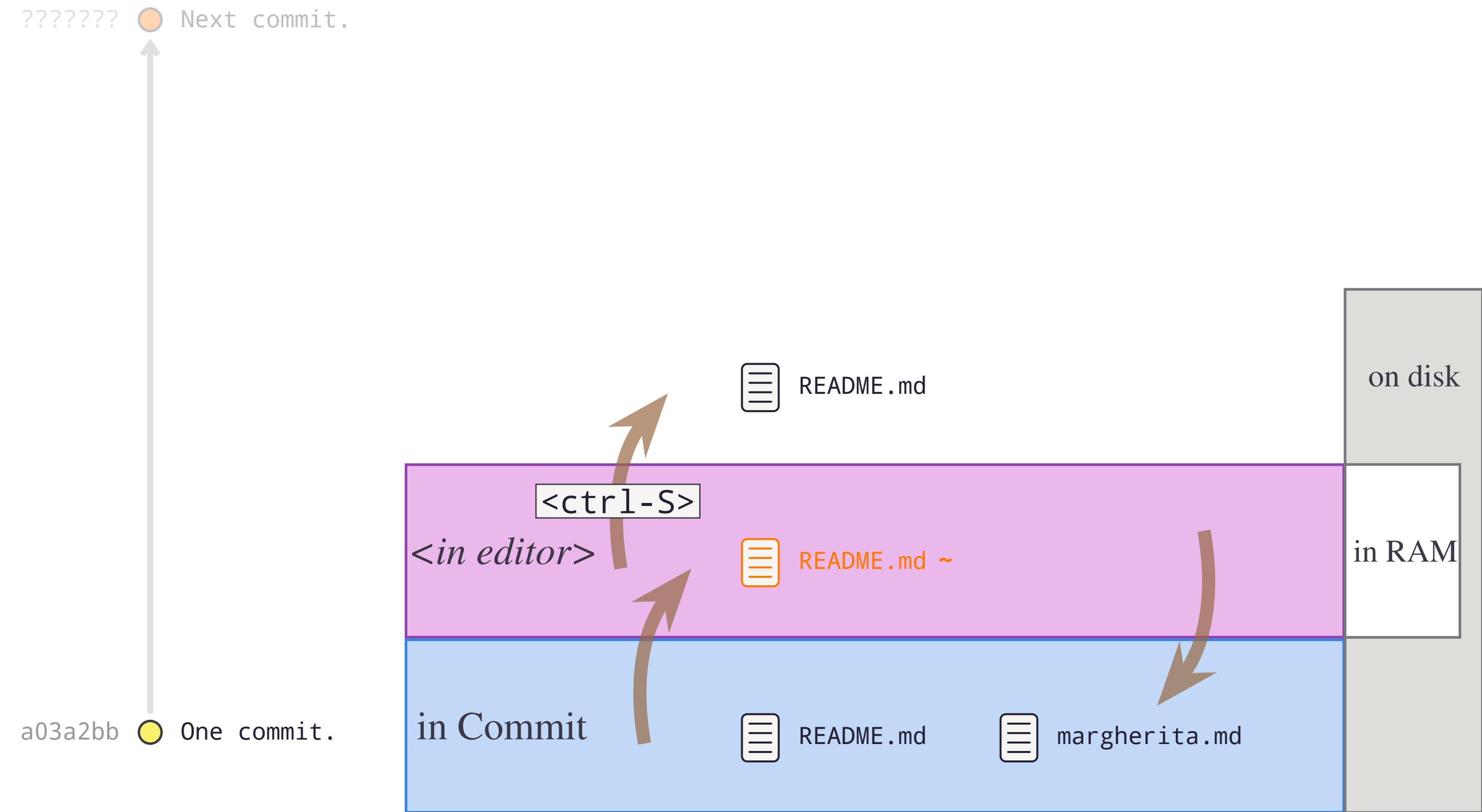
??????  Next commit.

a03a2bb  One commit.



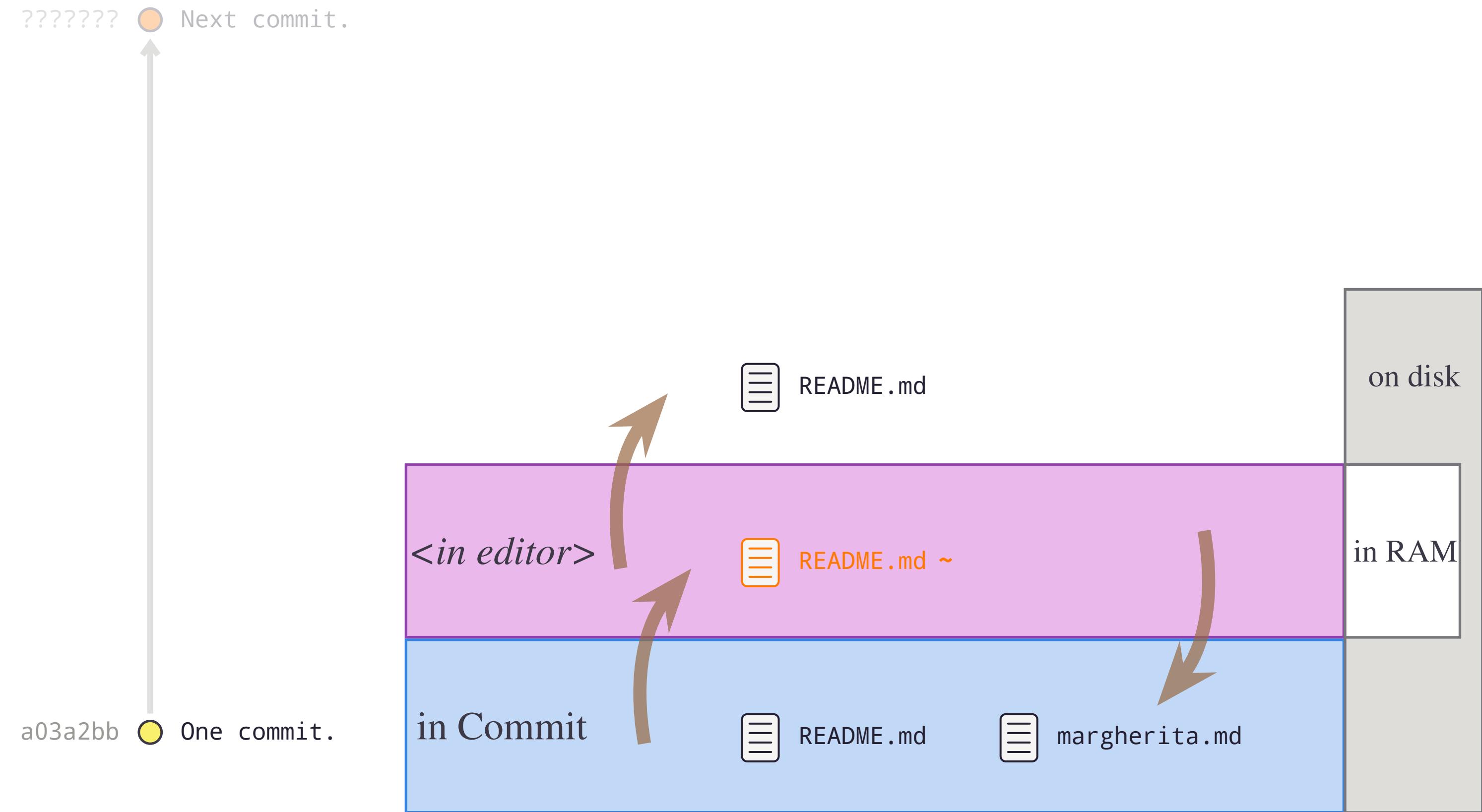
# Constructing a Commit

The Whole Process



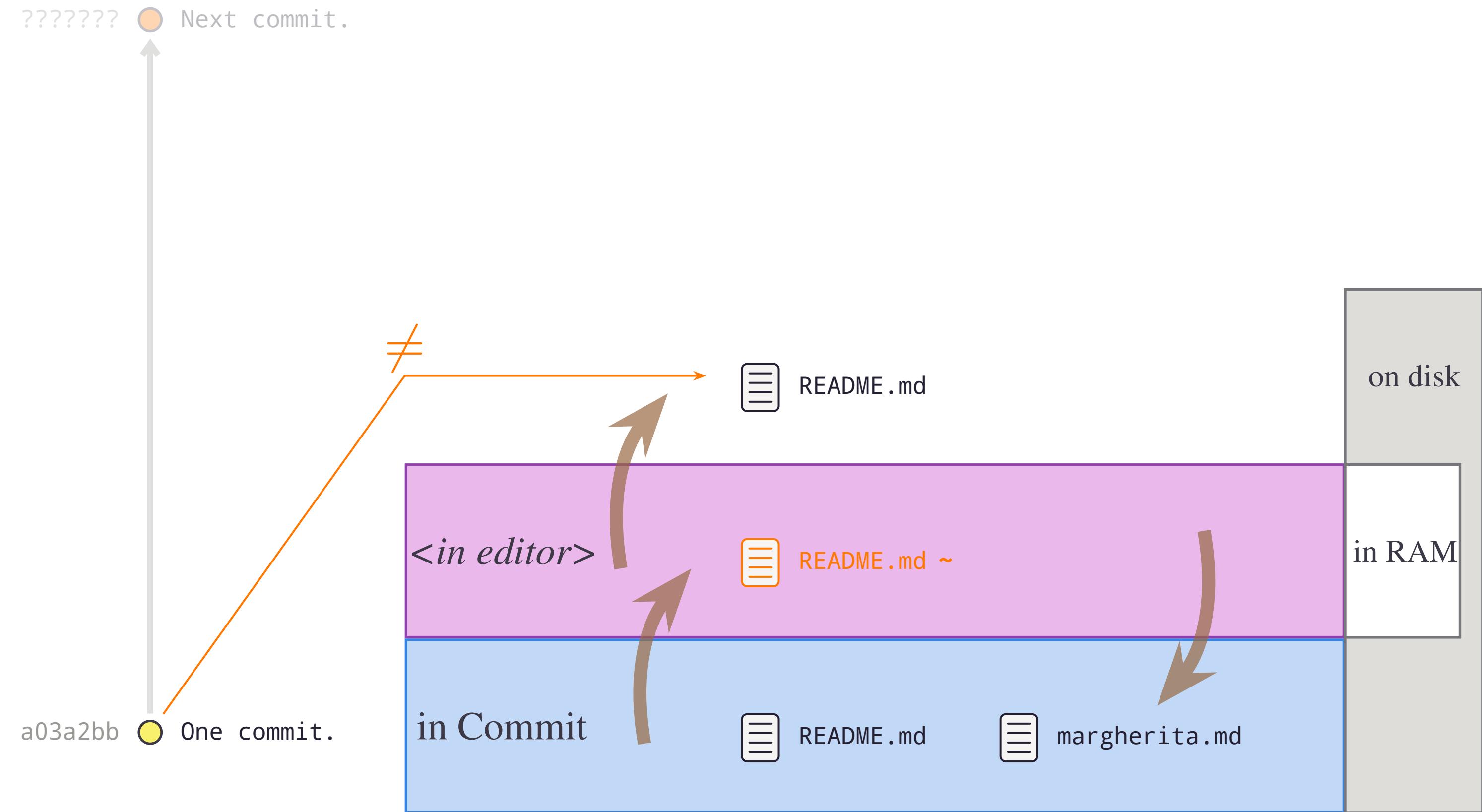
# Constructing a Commit

The Whole Process



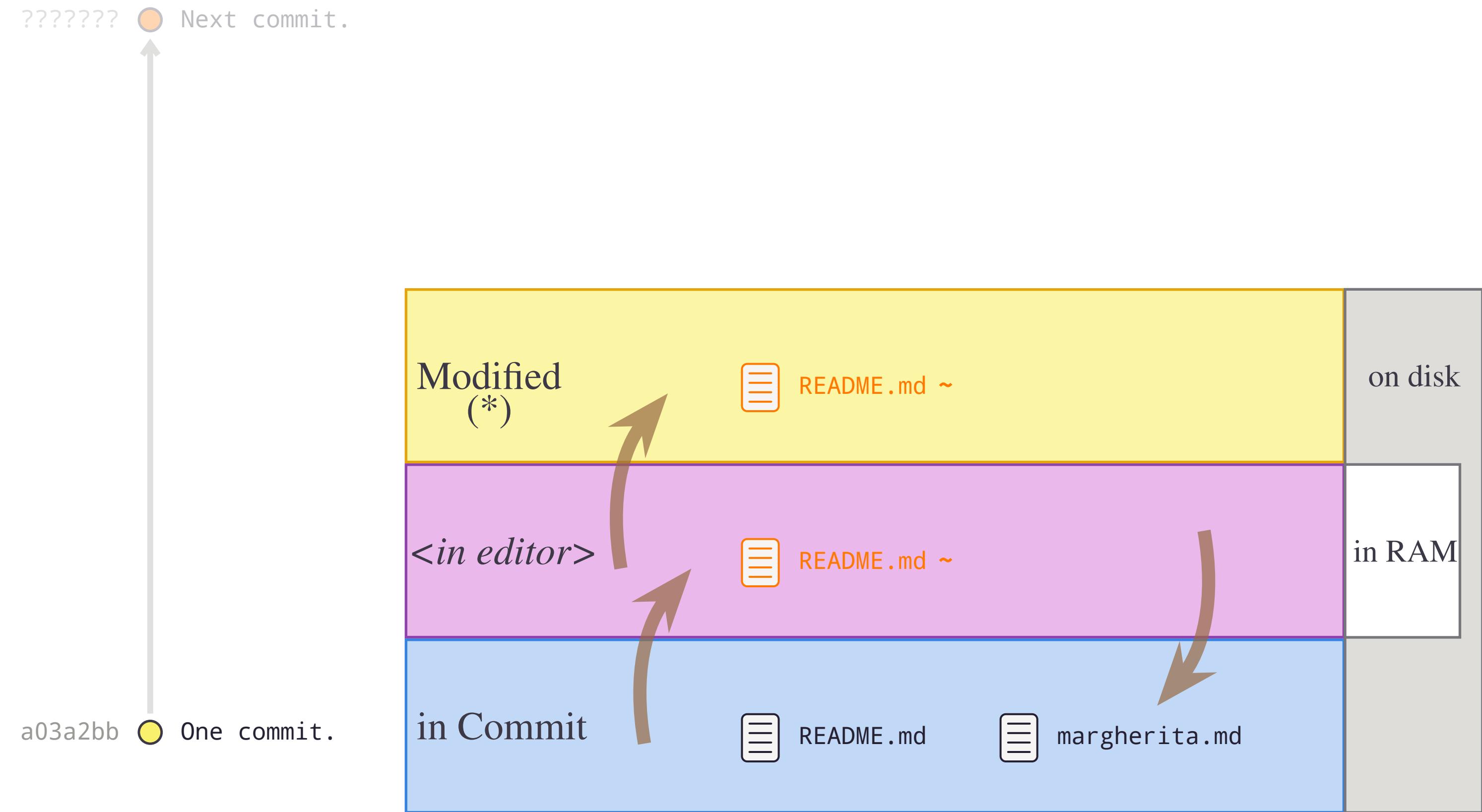
# Constructing a Commit

The Whole Process



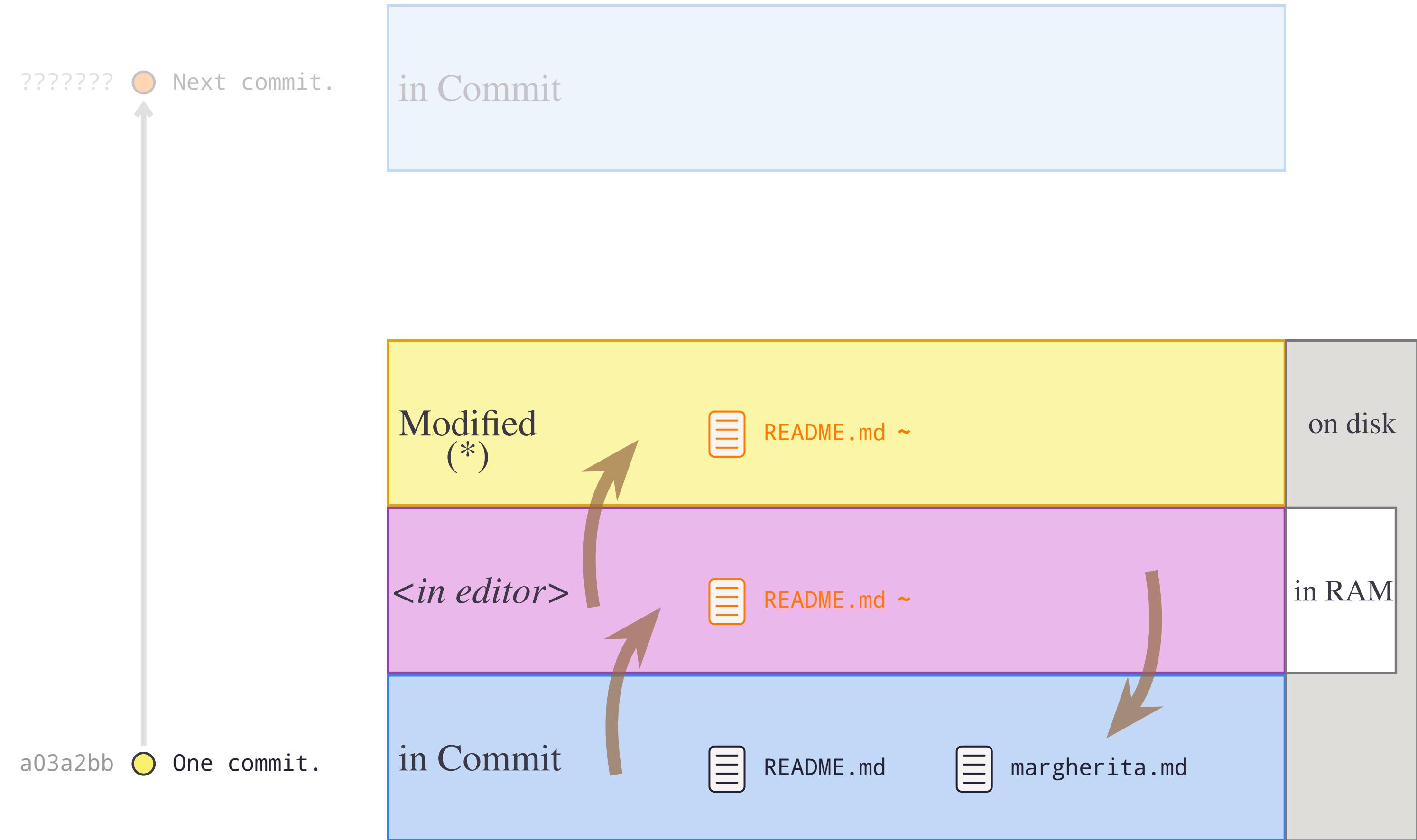
# Constructing a Commit

The Whole Process



# Constructing a Commit

The Whole Process

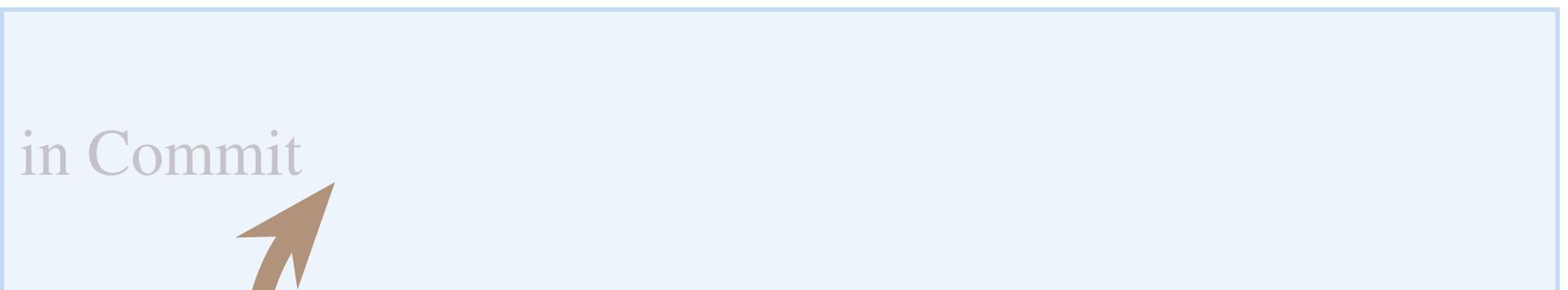


# Constructing a Commit

The Whole Process

???????

● Next commit.



\$ git commit

X

Modified  
(\*)

README.md ~

<in editor>

README.md ~

in Commit

README.md

margherita.md

on disk

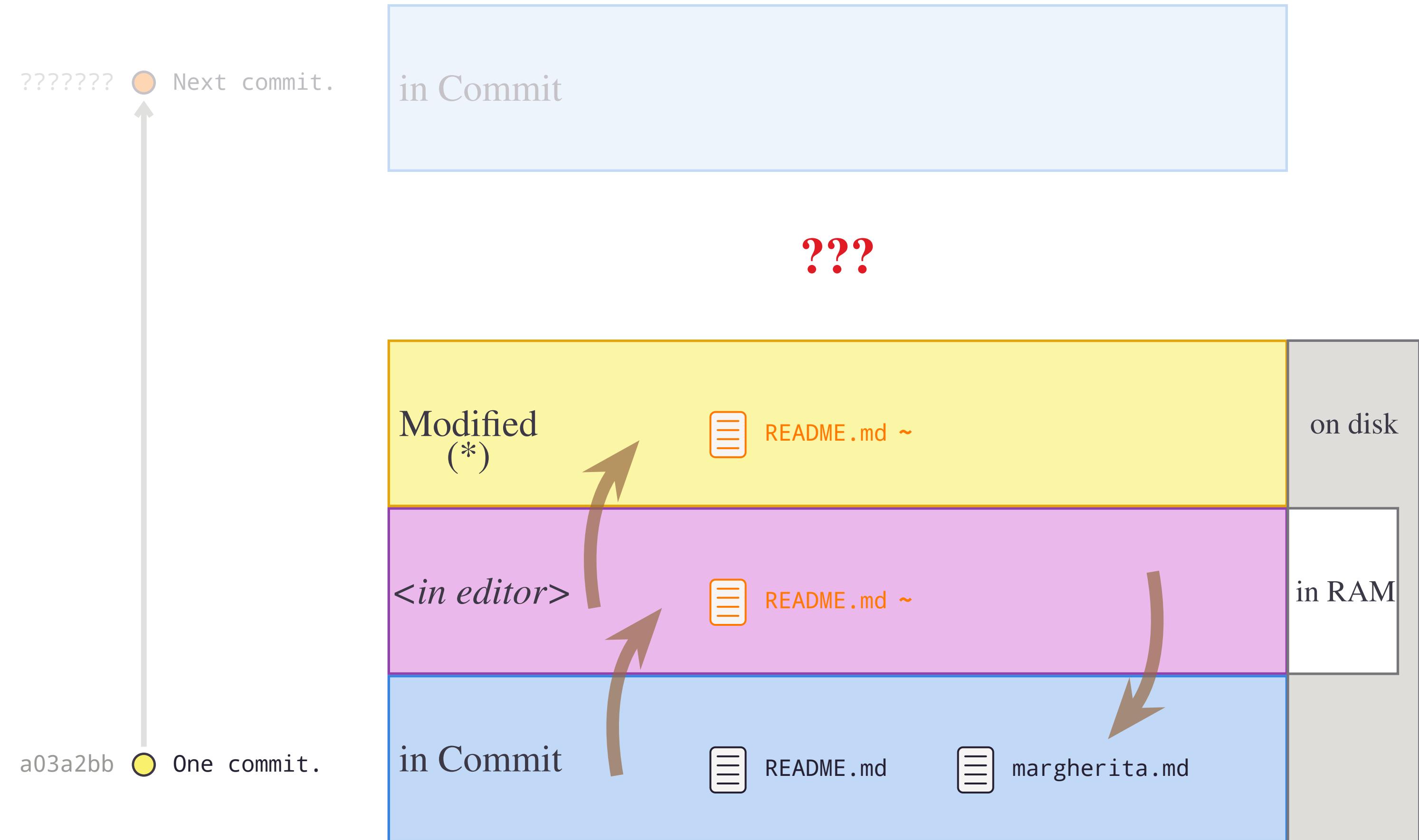
in RAM

a03a2bb

● One commit.

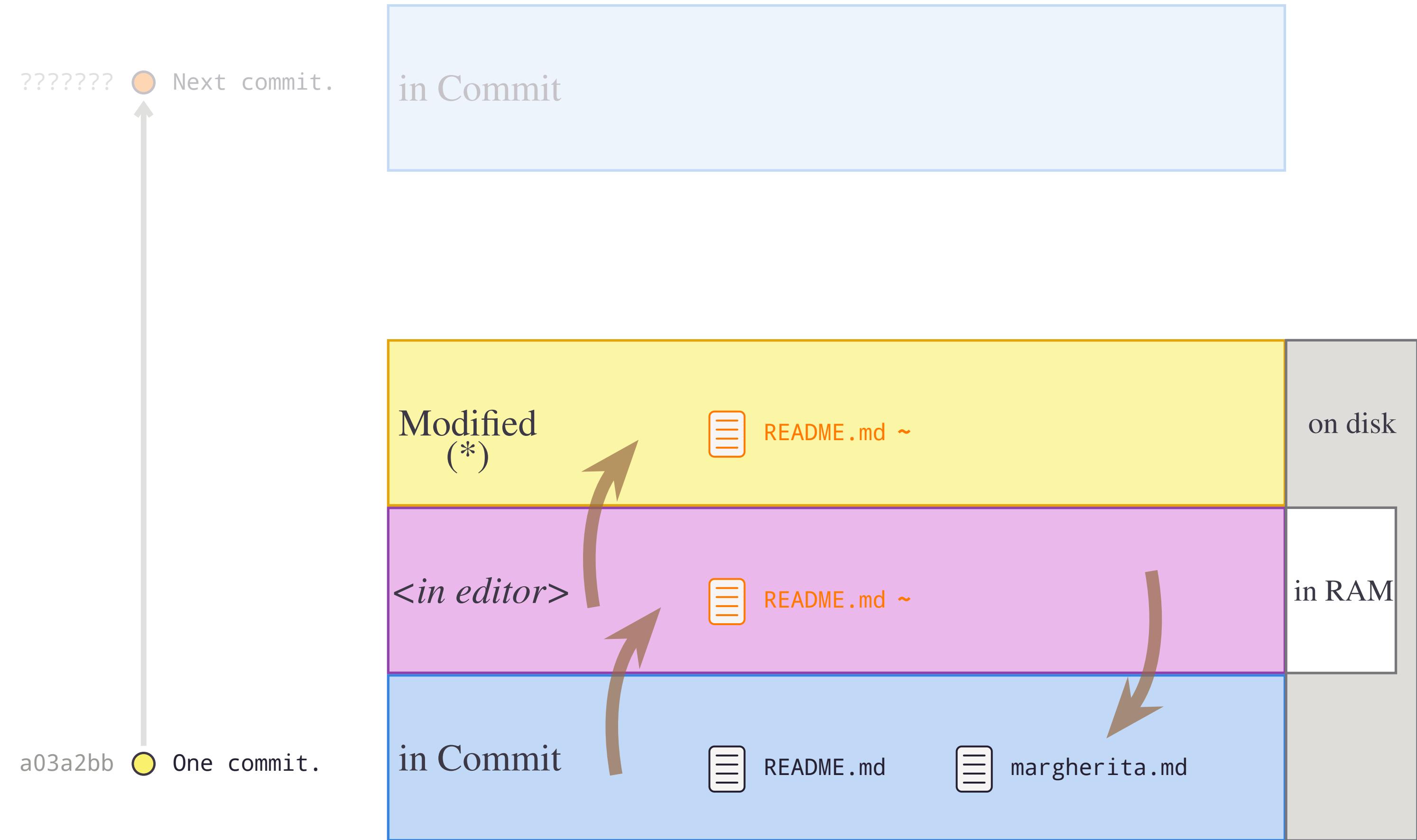
# Constructing a Commit

The Whole Process



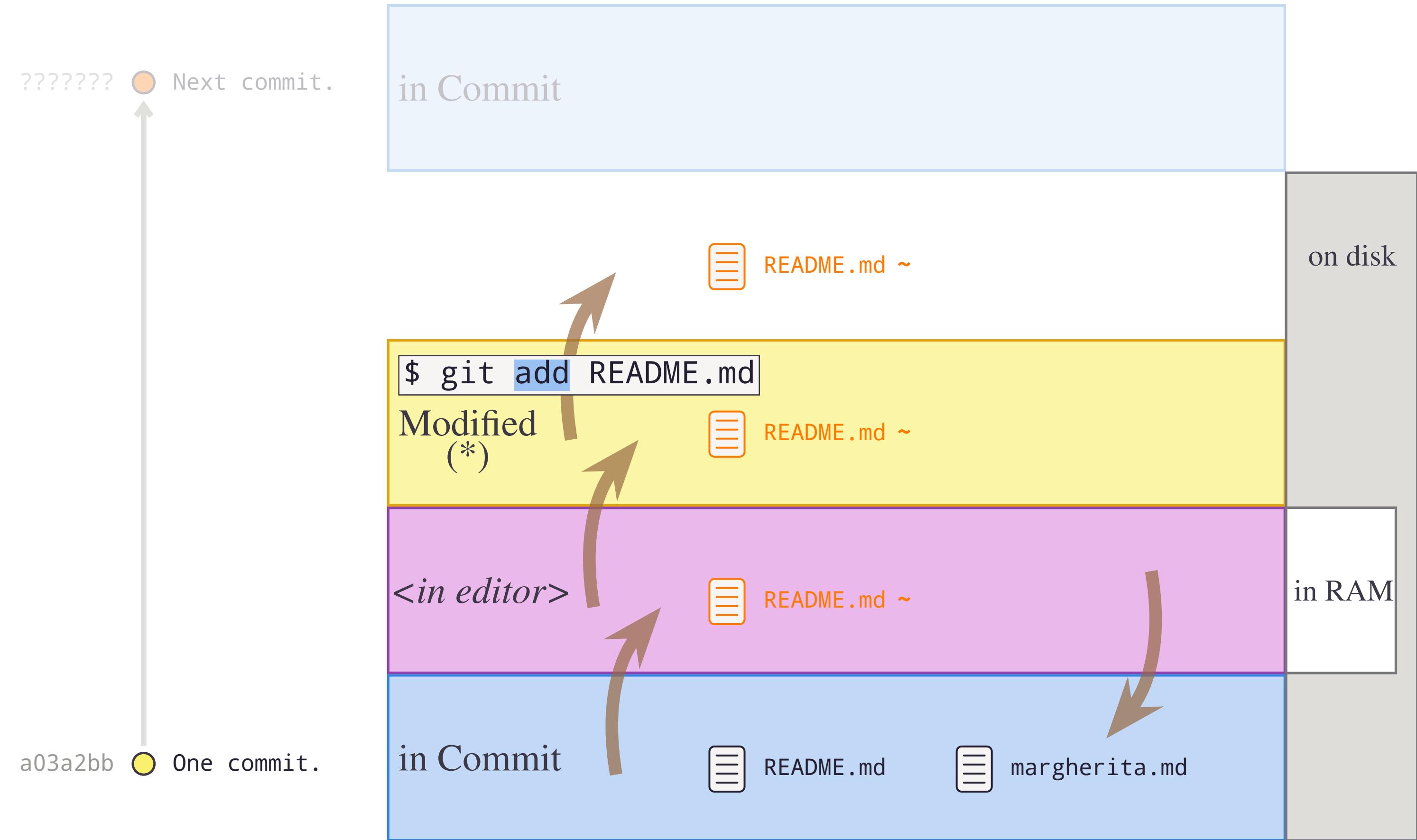
# Constructing a Commit

The Whole Process



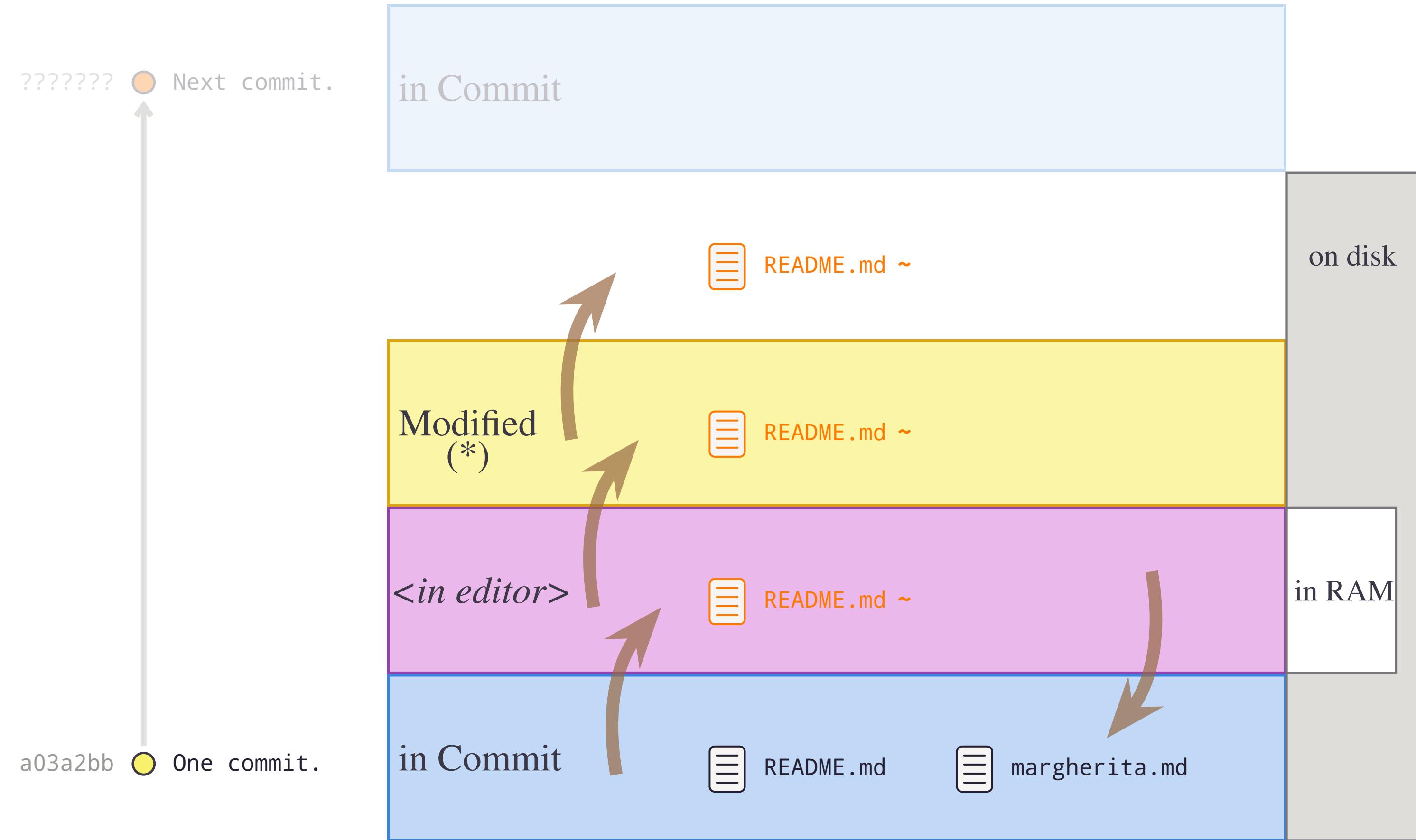
# Constructing a Commit

The Whole Process



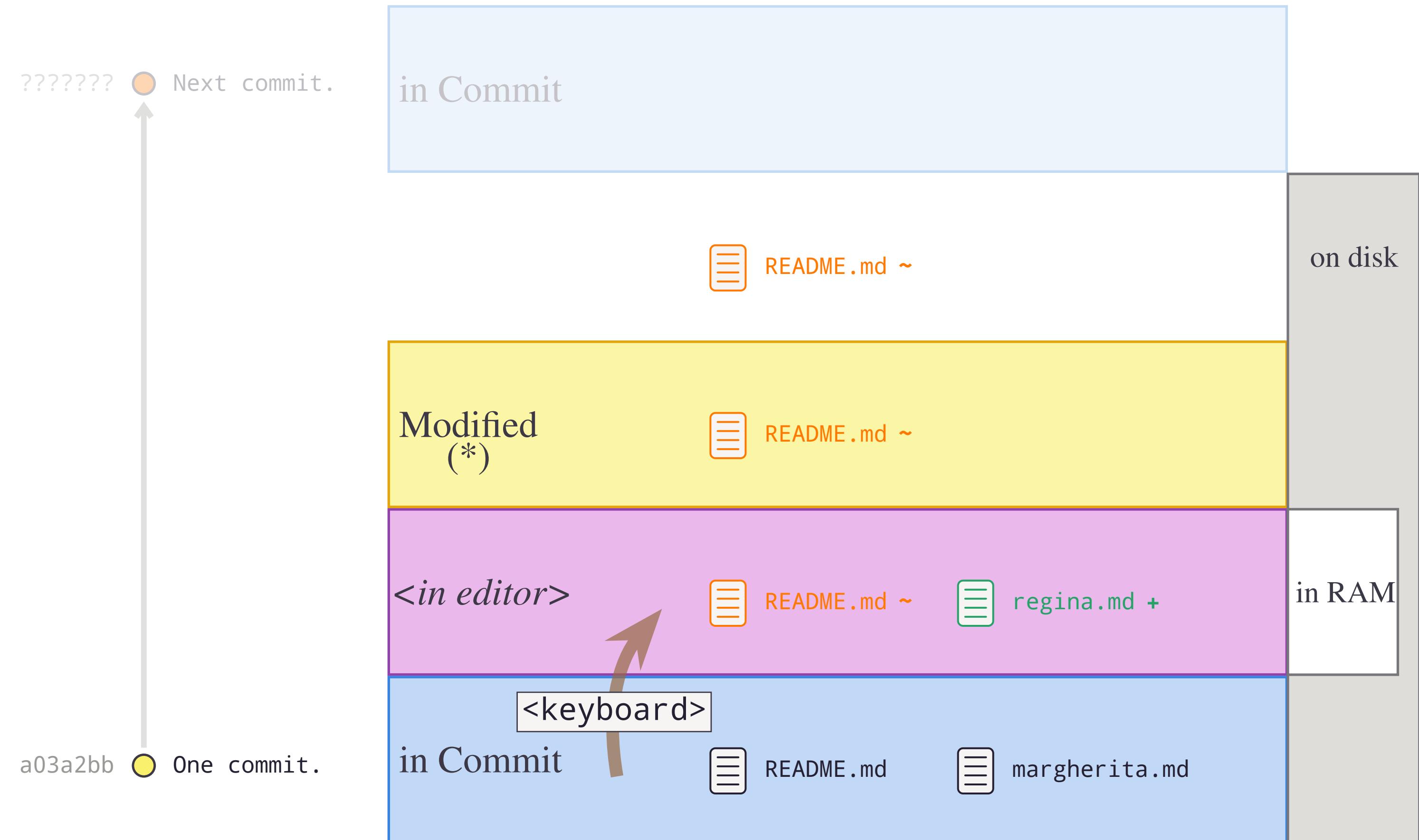
# Constructing a Commit

The Whole Process



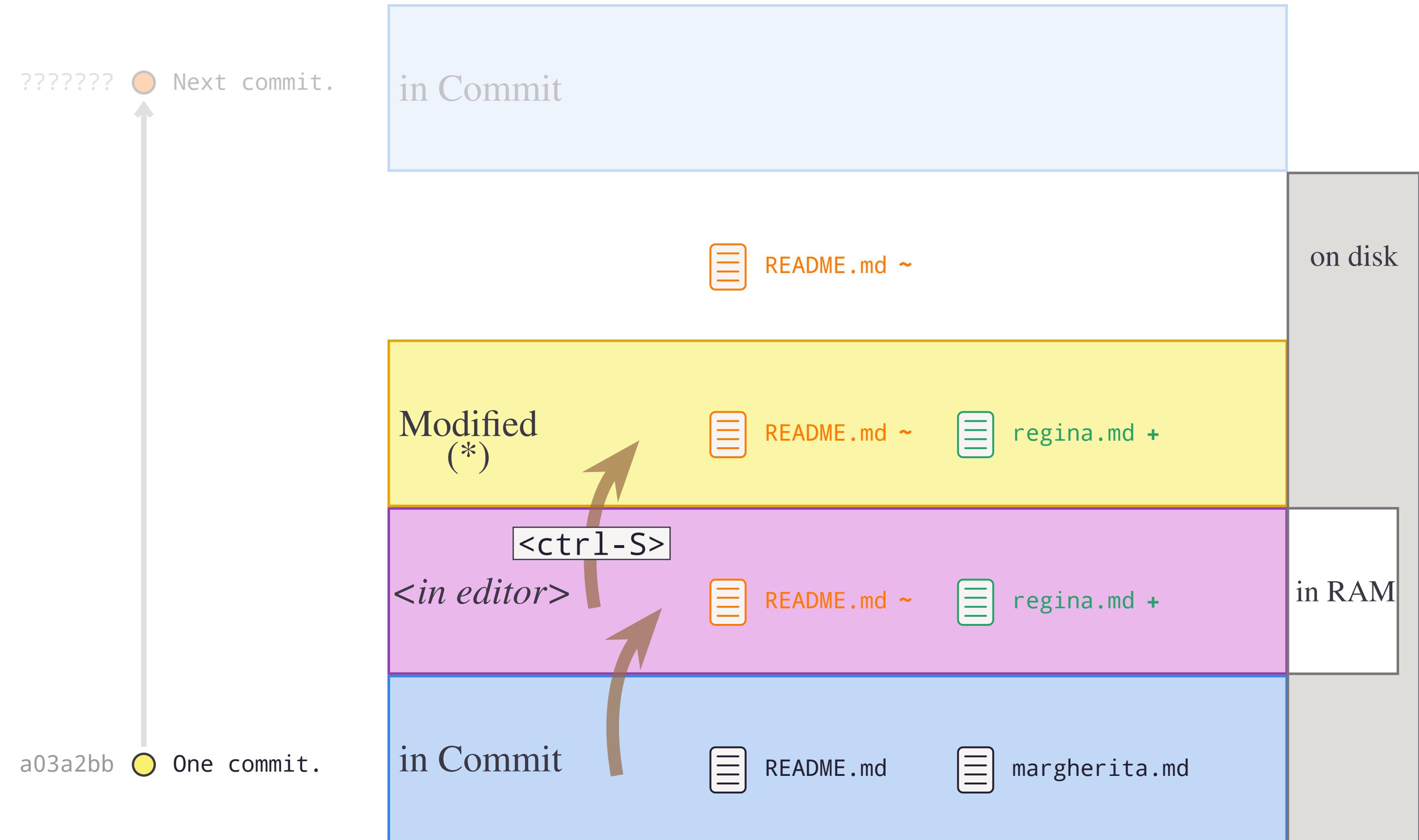
# Constructing a Commit

The Whole Process



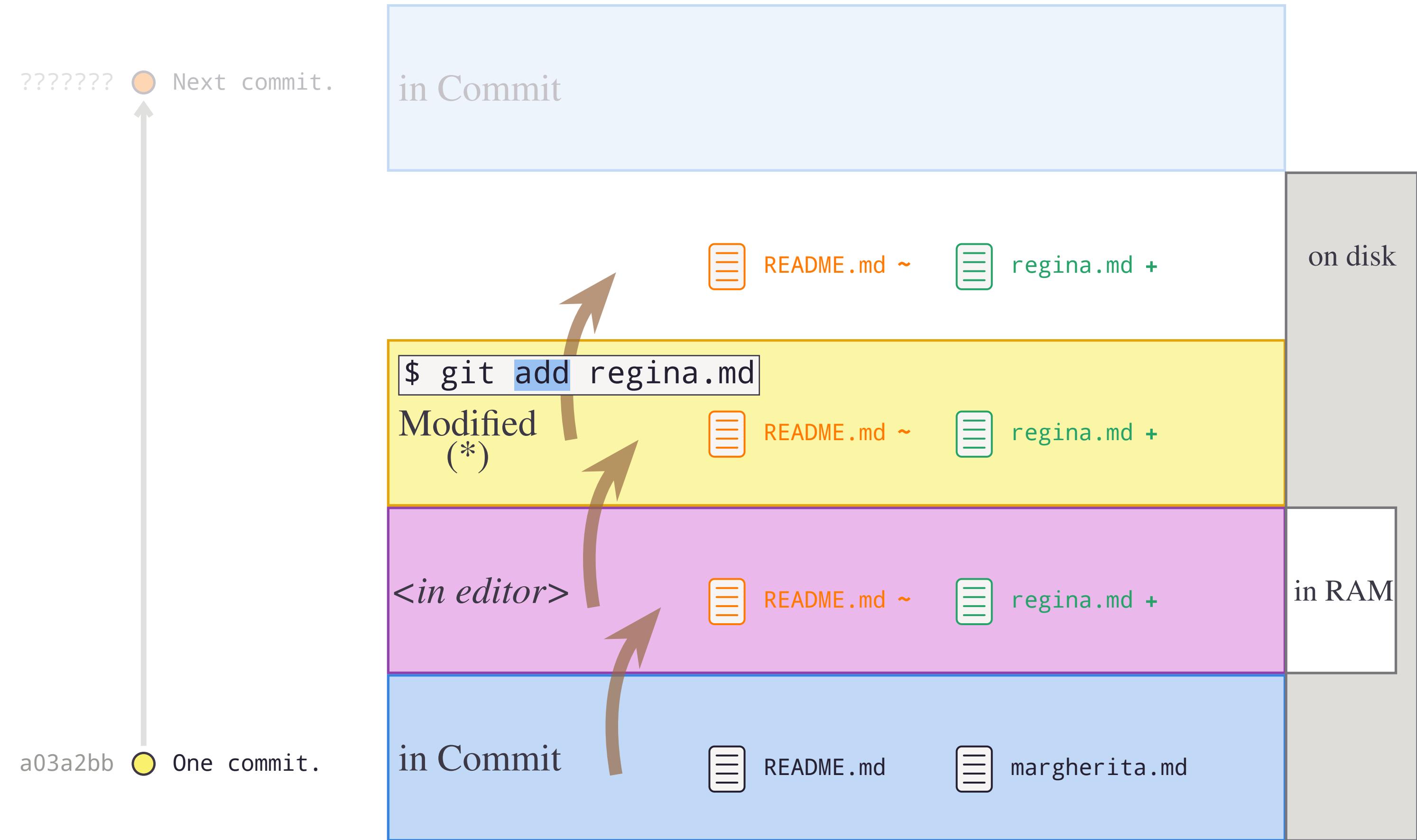
# Constructing a Commit

The Whole Process



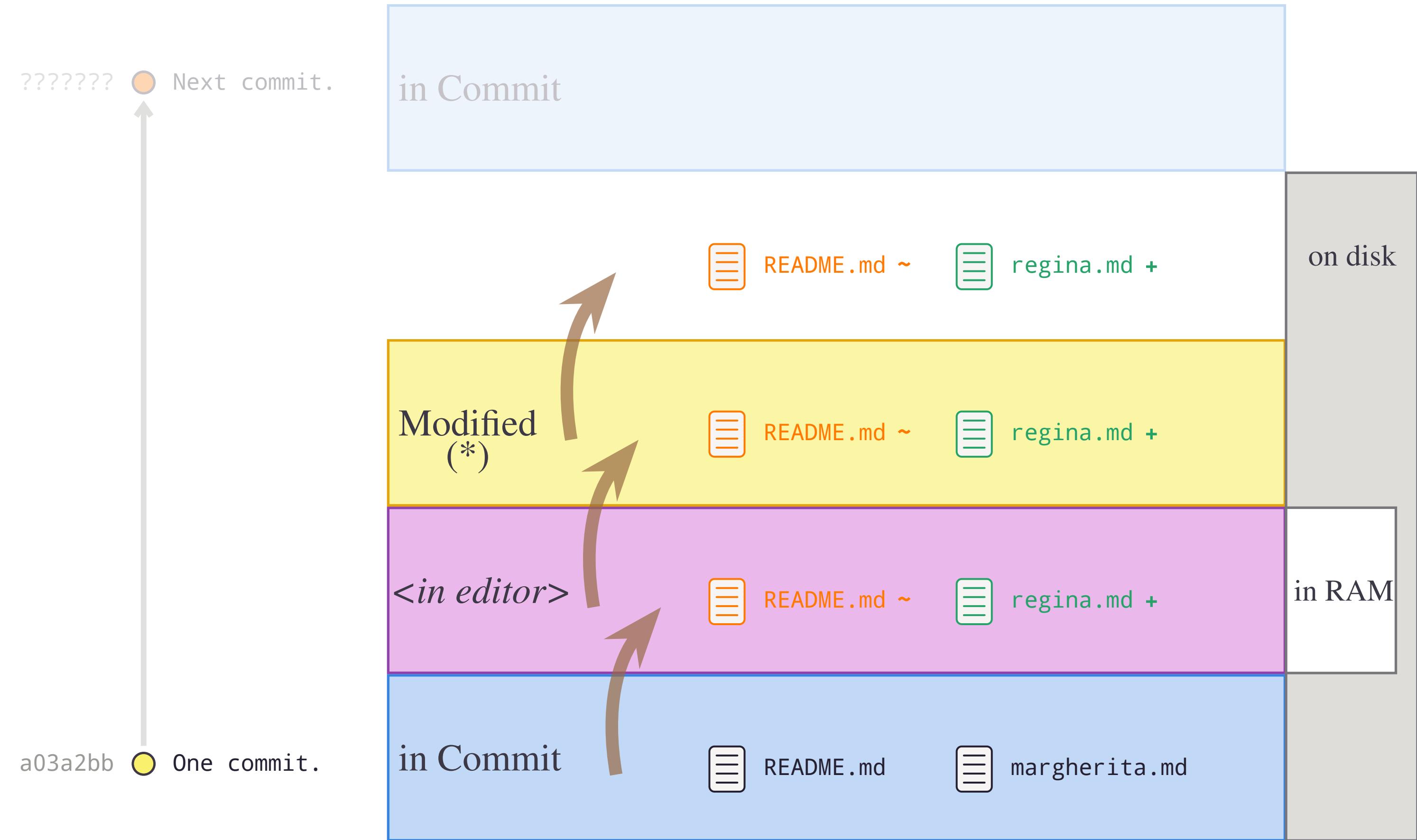
# Constructing a Commit

The Whole Process



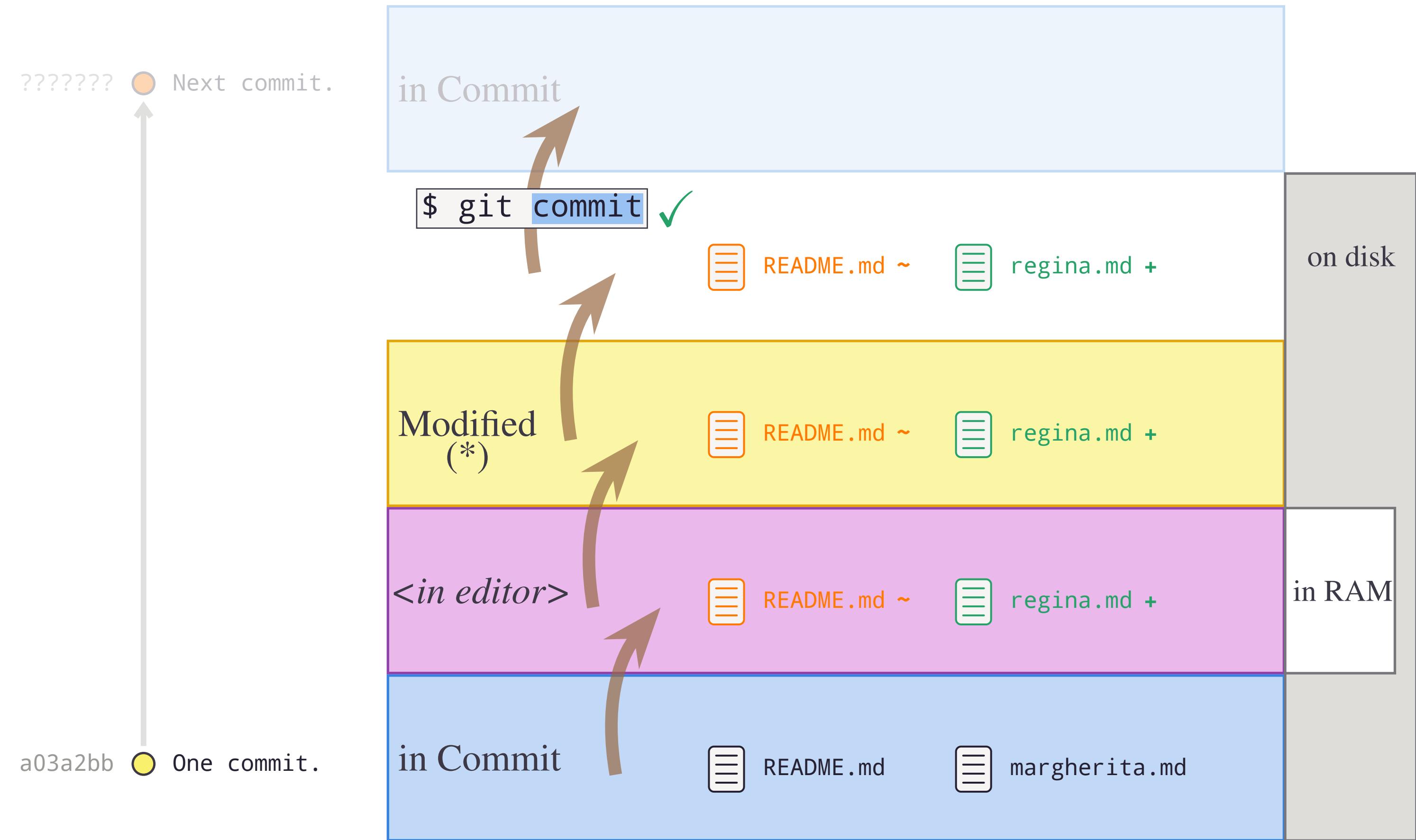
# Constructing a Commit

The Whole Process



# Constructing a Commit

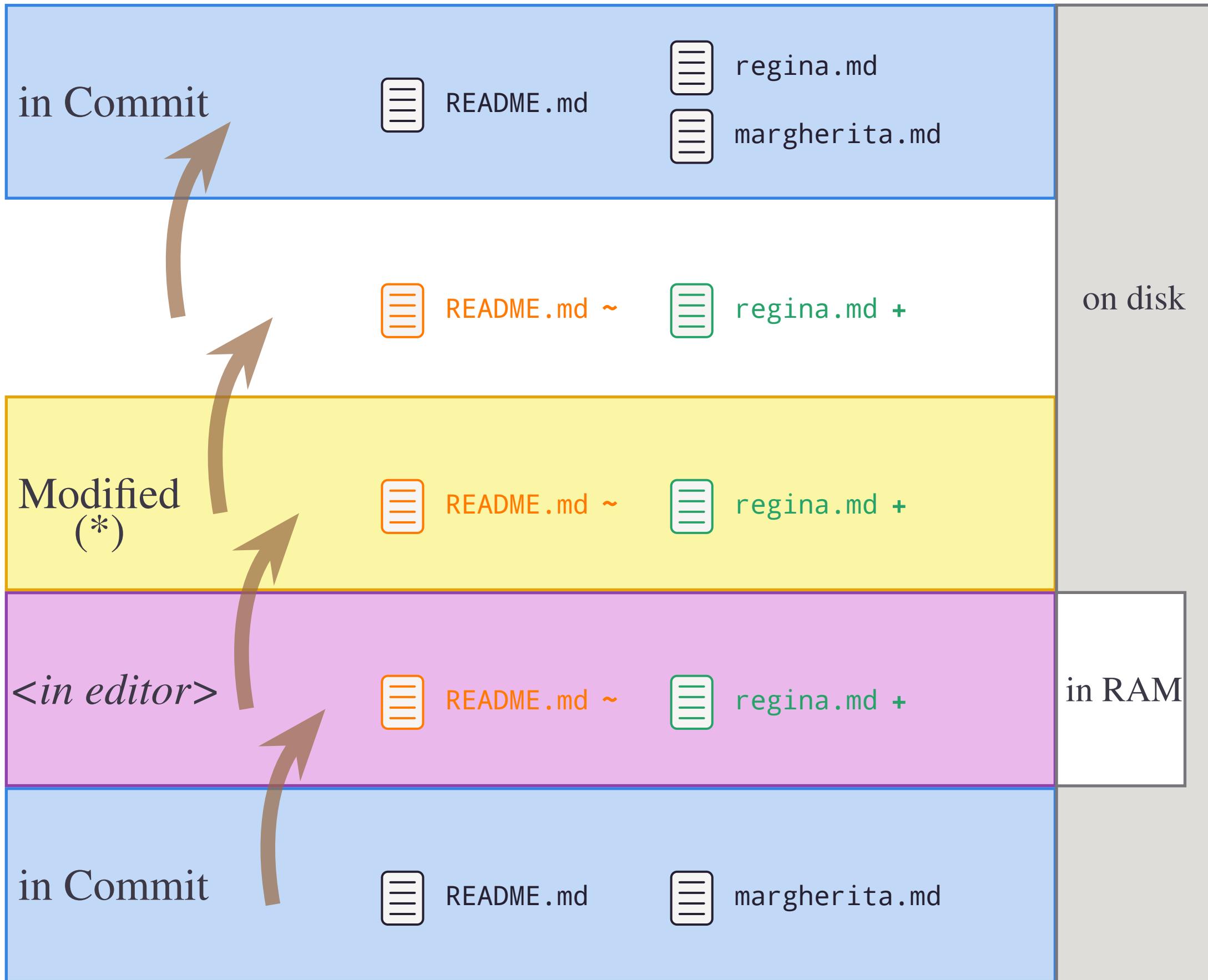
The Whole Process



# Constructing a Commit

The Whole Process

a03a2bb One commit.

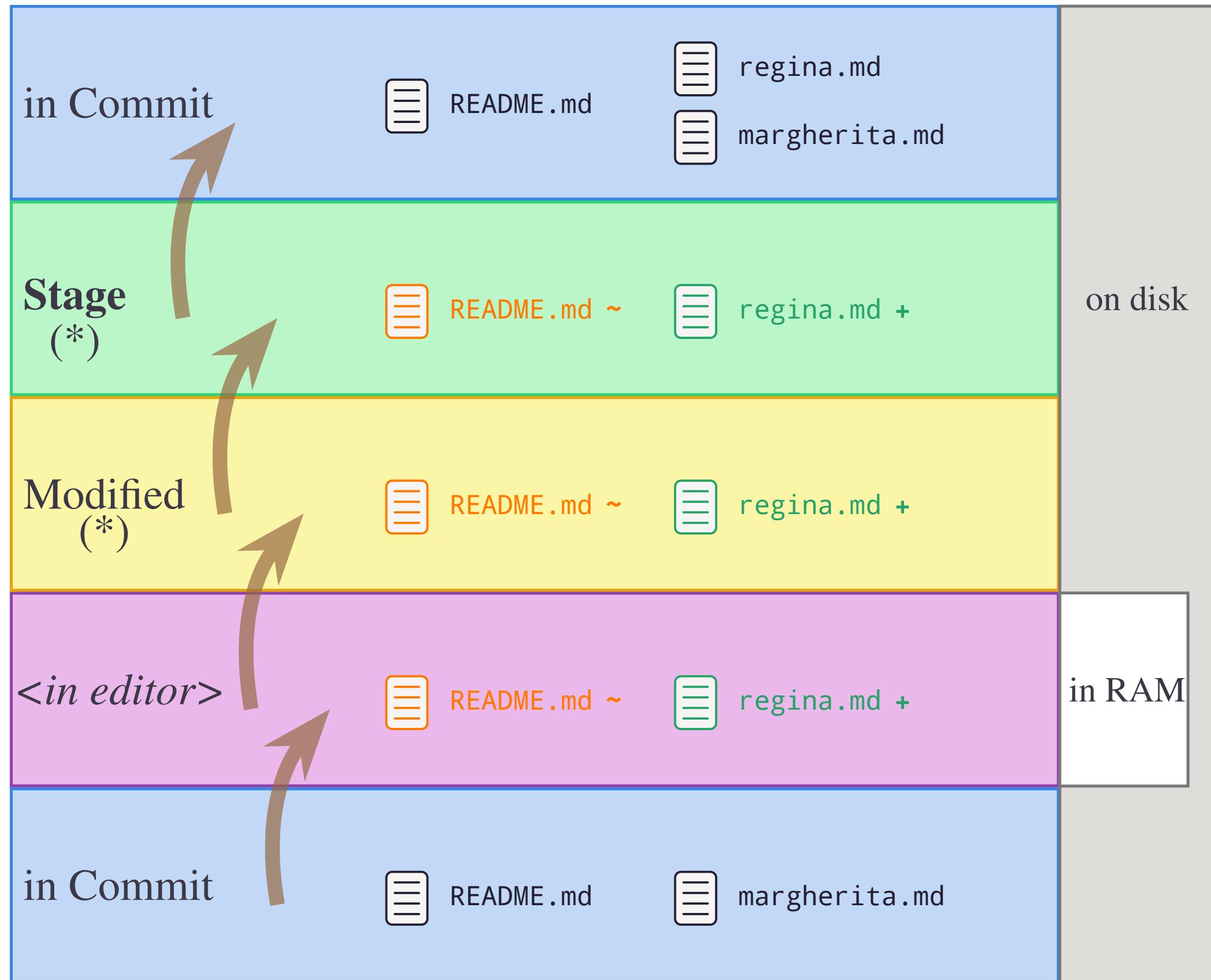


# Constructing a Commit

The Whole Process

a03a2bb One commit.

4b87875 Next commit.

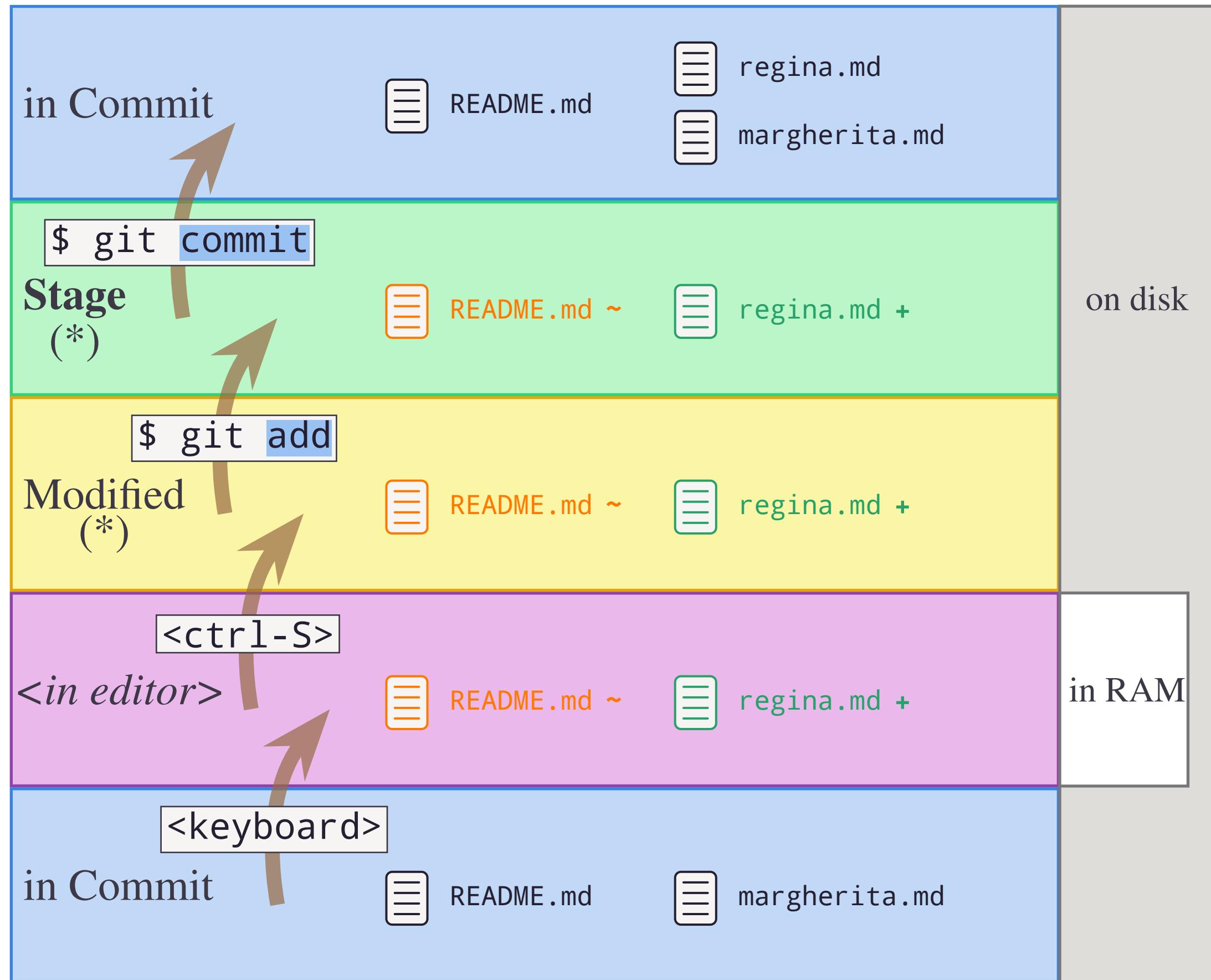


# Constructing a Commit

The Whole Process

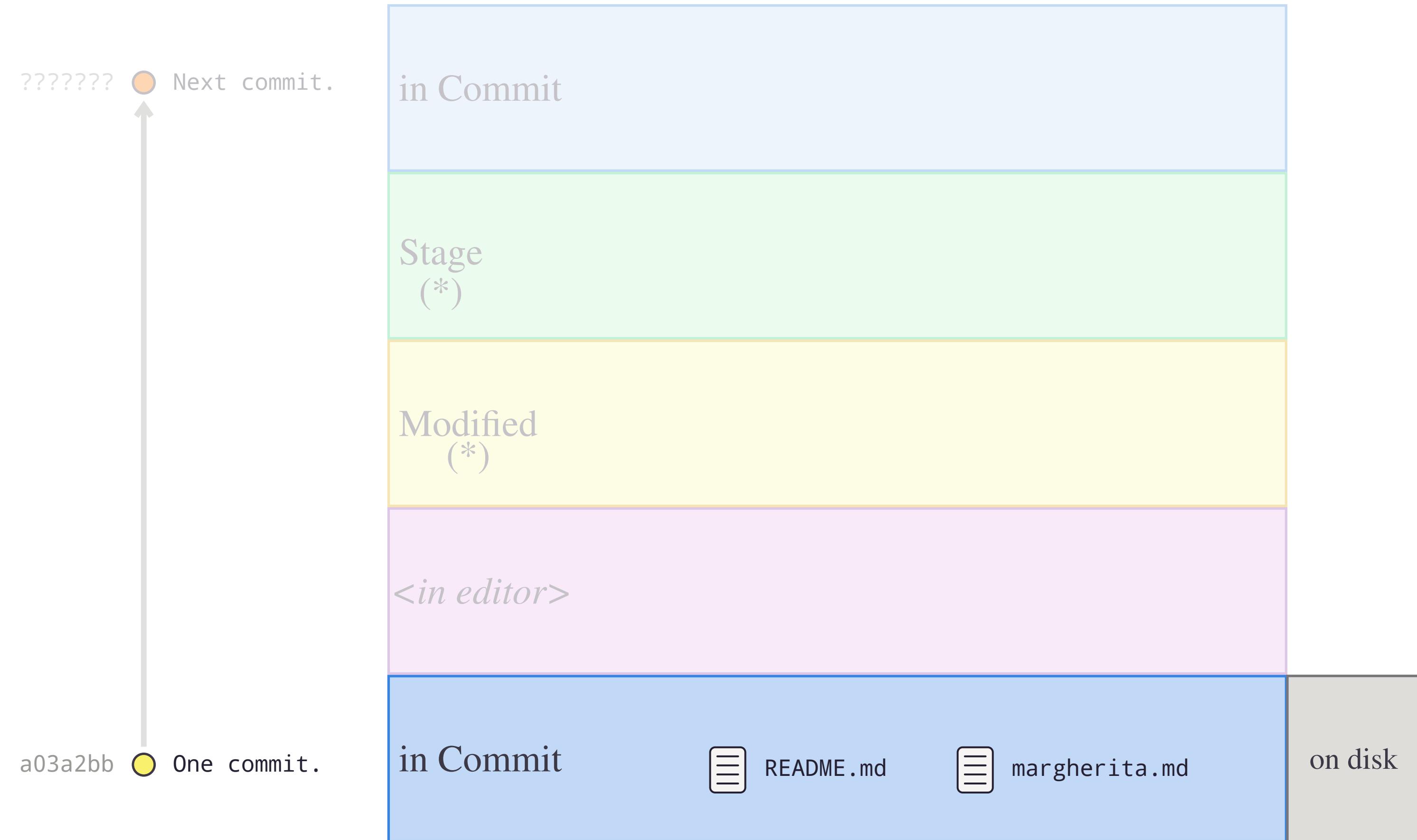
a03a2bb One commit.

4b87875 Next commit.



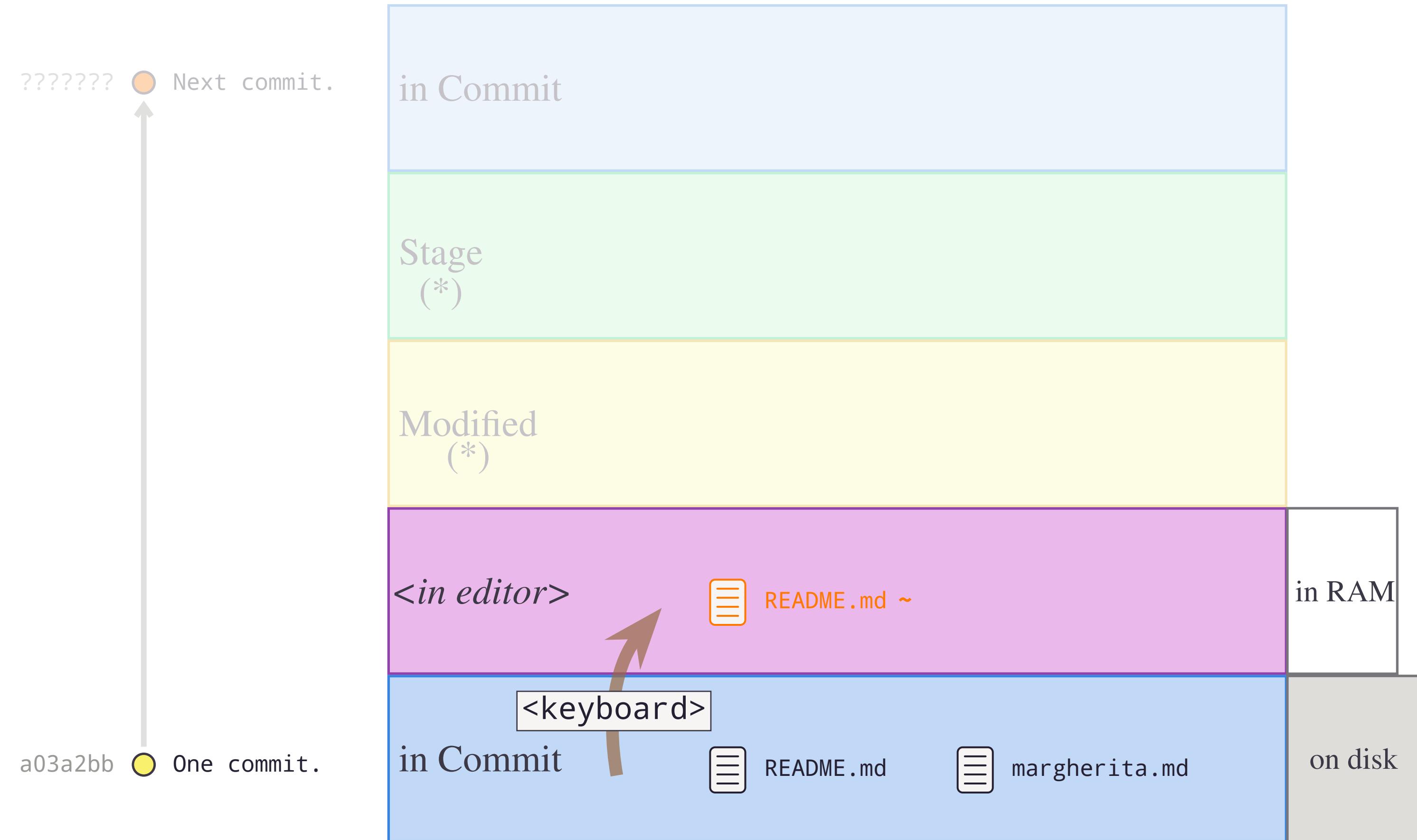
# Constructing a Commit

The Whole Process



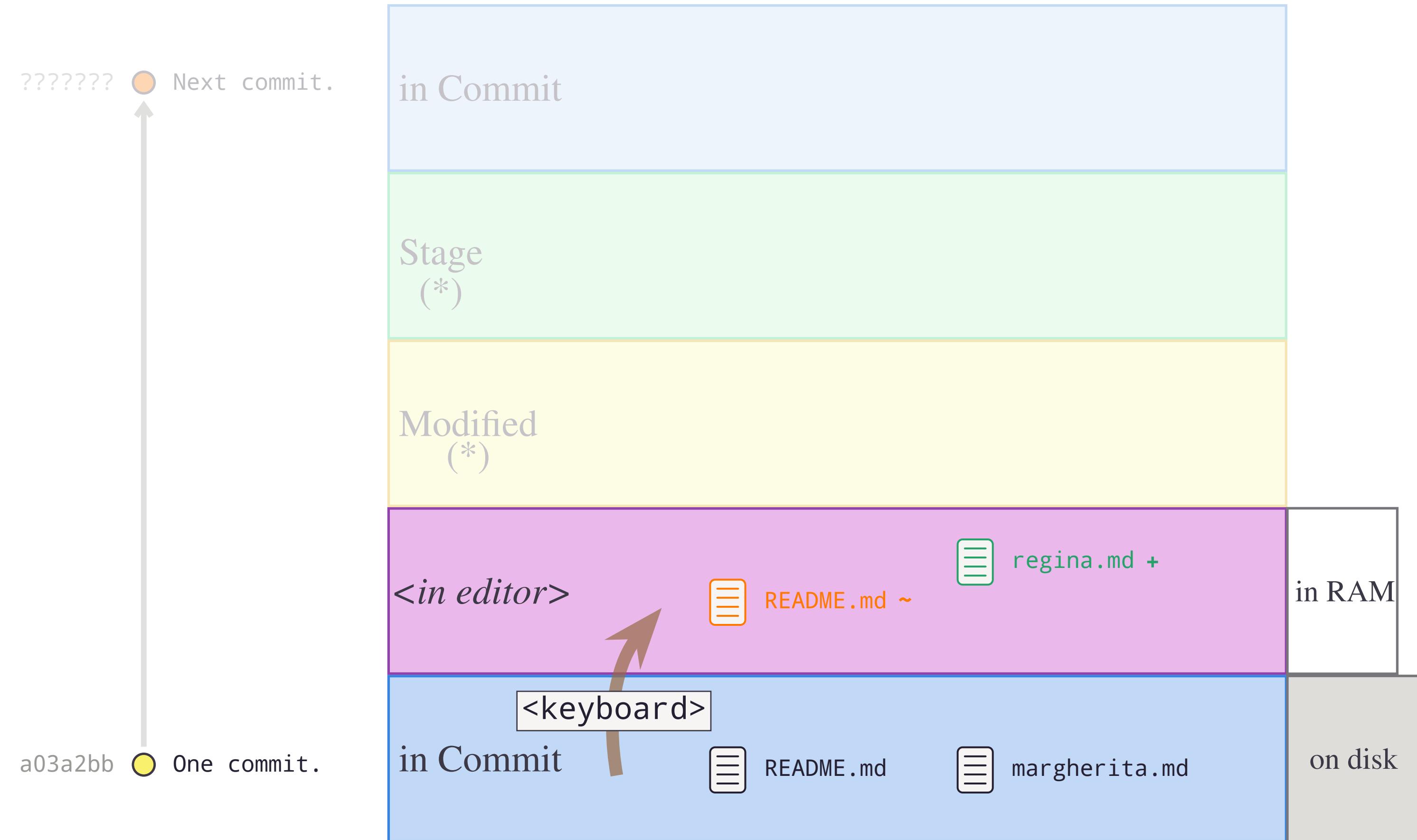
# Constructing a Commit

The Whole Process



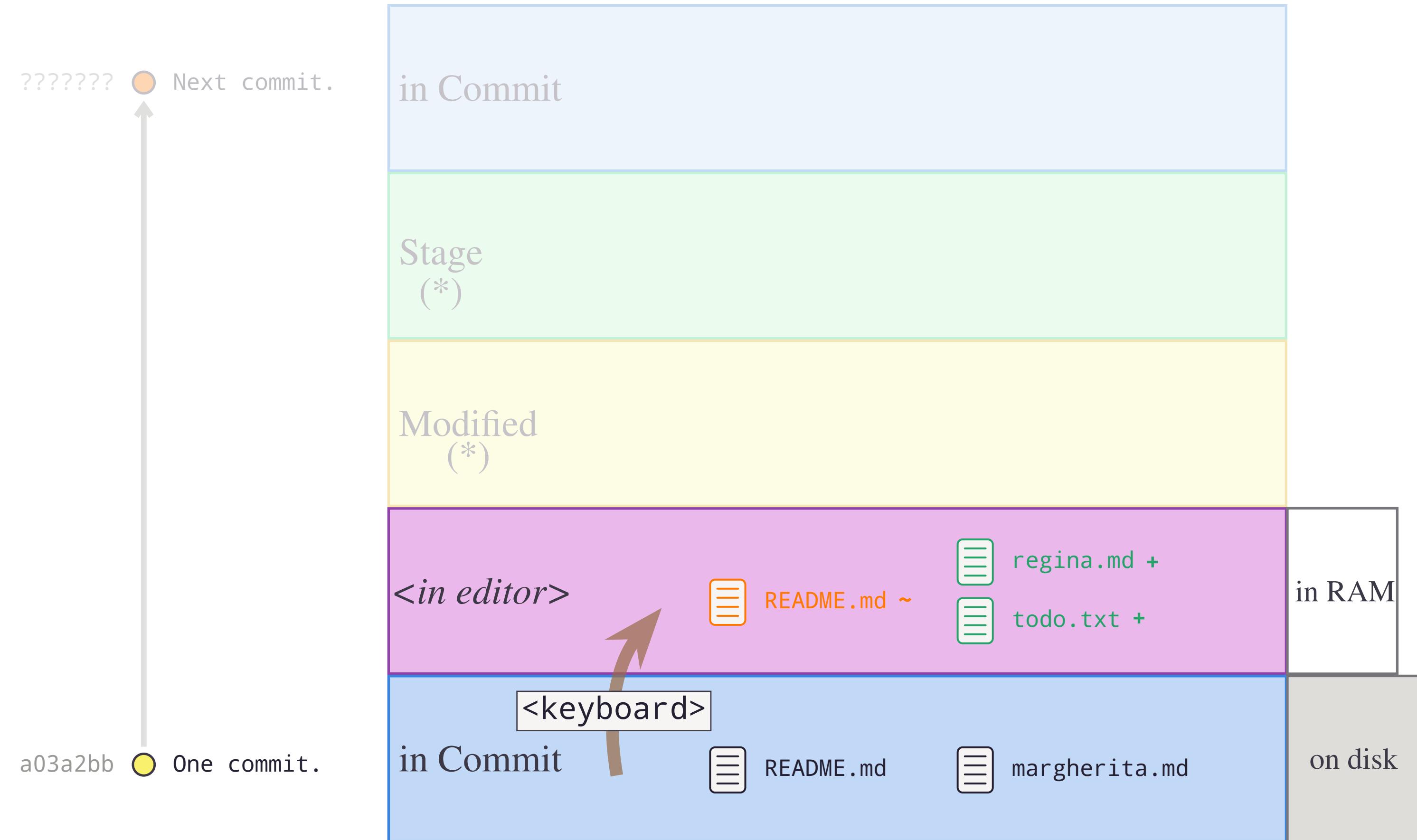
# Constructing a Commit

The Whole Process



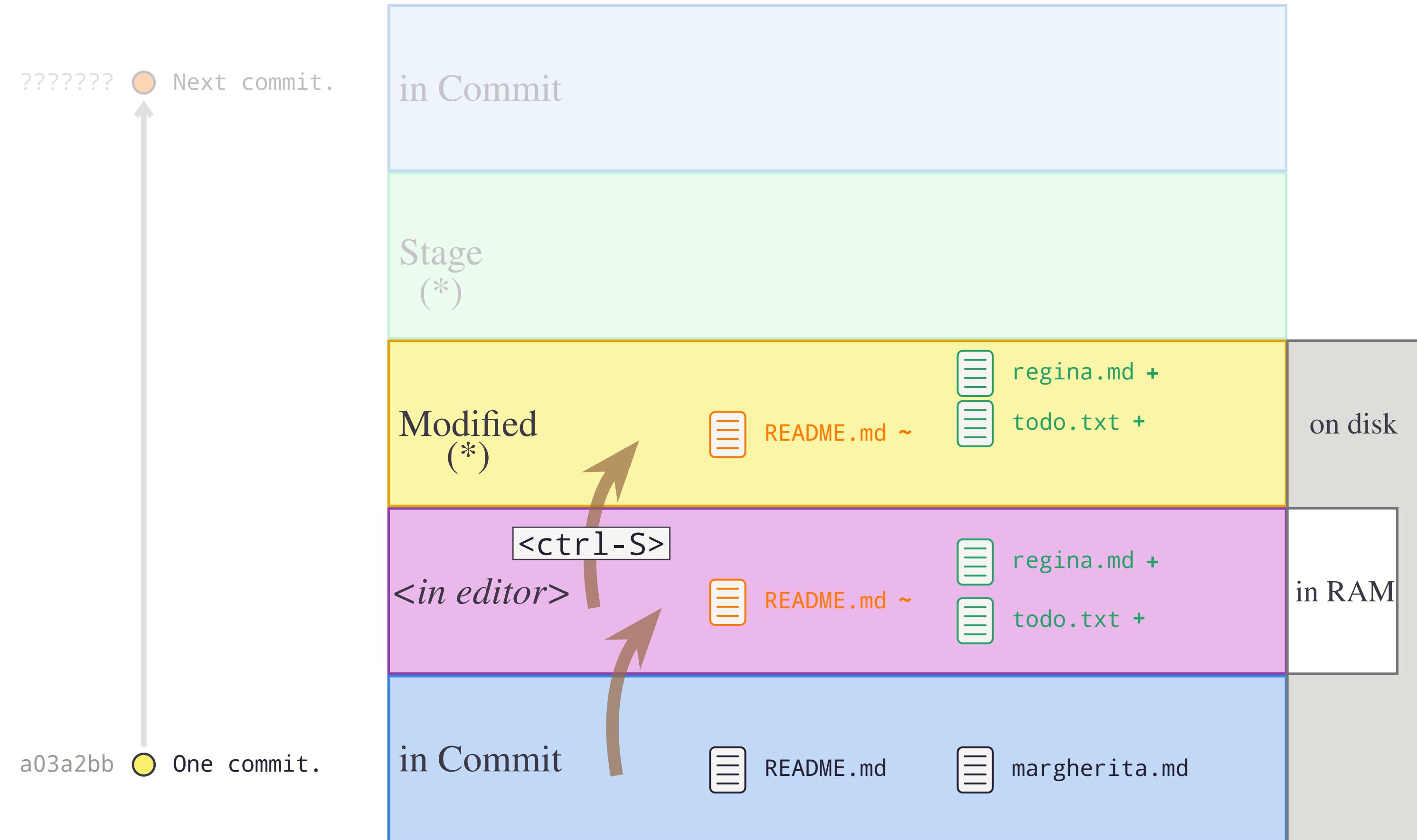
# Constructing a Commit

The Whole Process



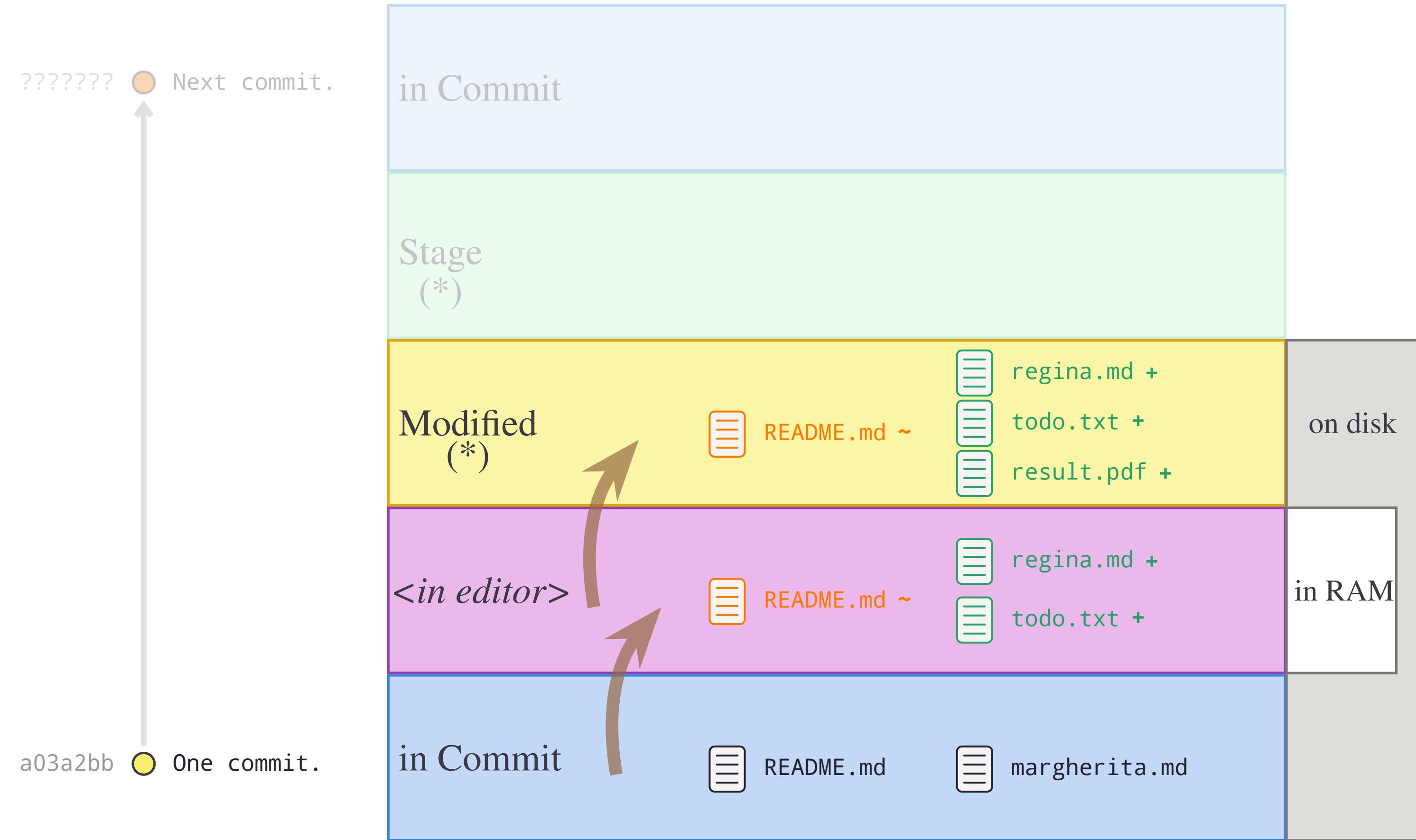
# Constructing a Commit

The Whole Process



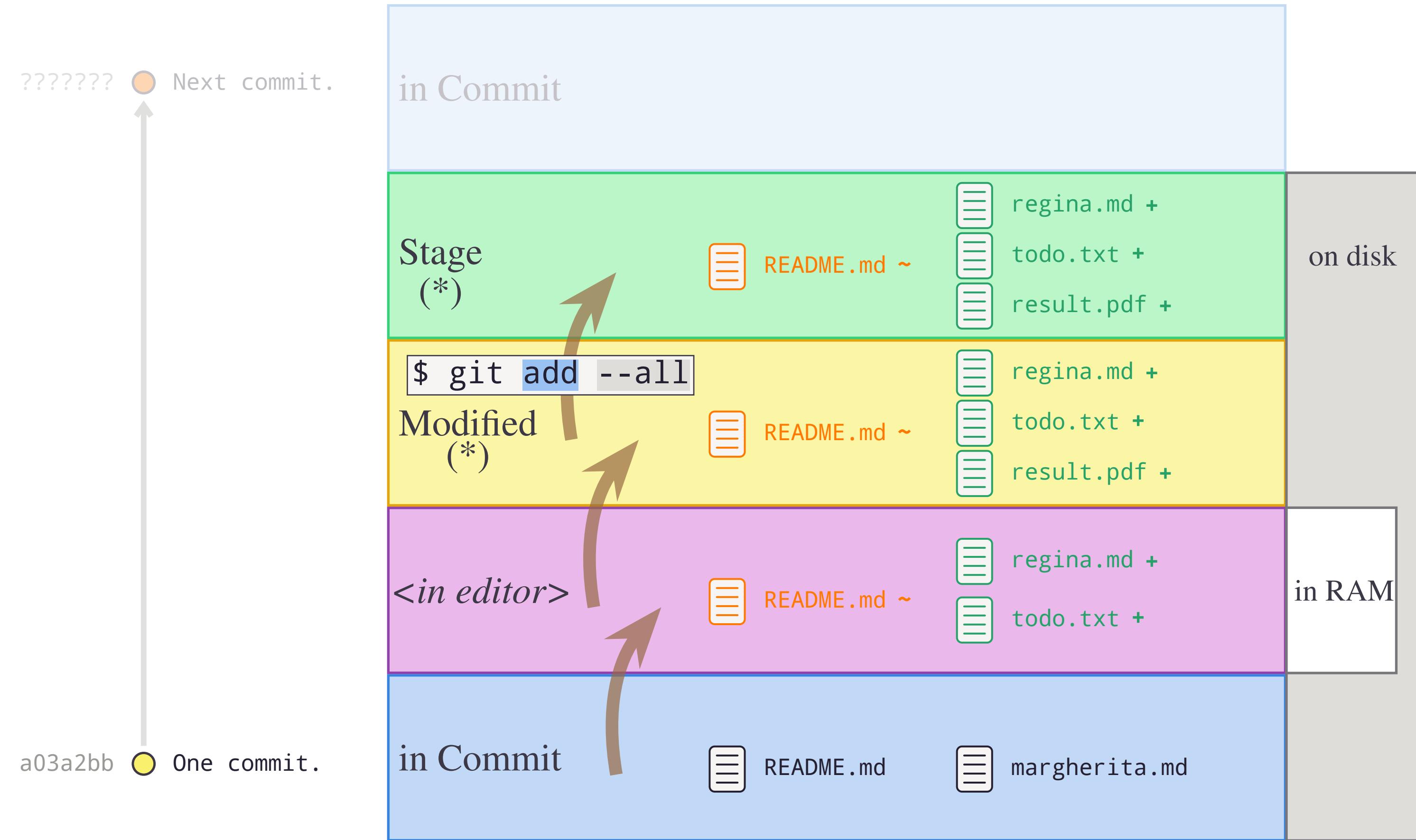
# Constructing a Commit

The Whole Process



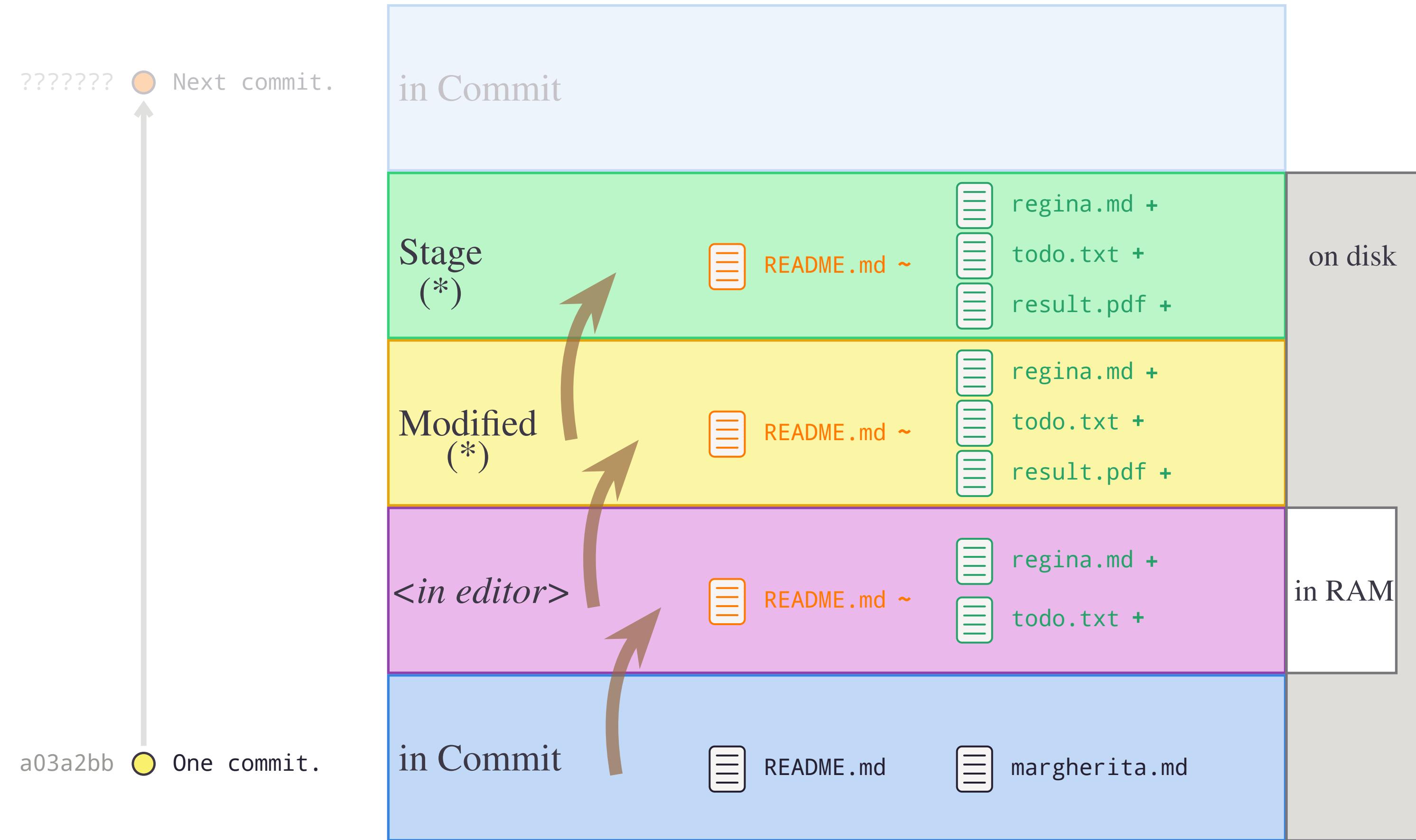
# Constructing a Commit

The Whole Process



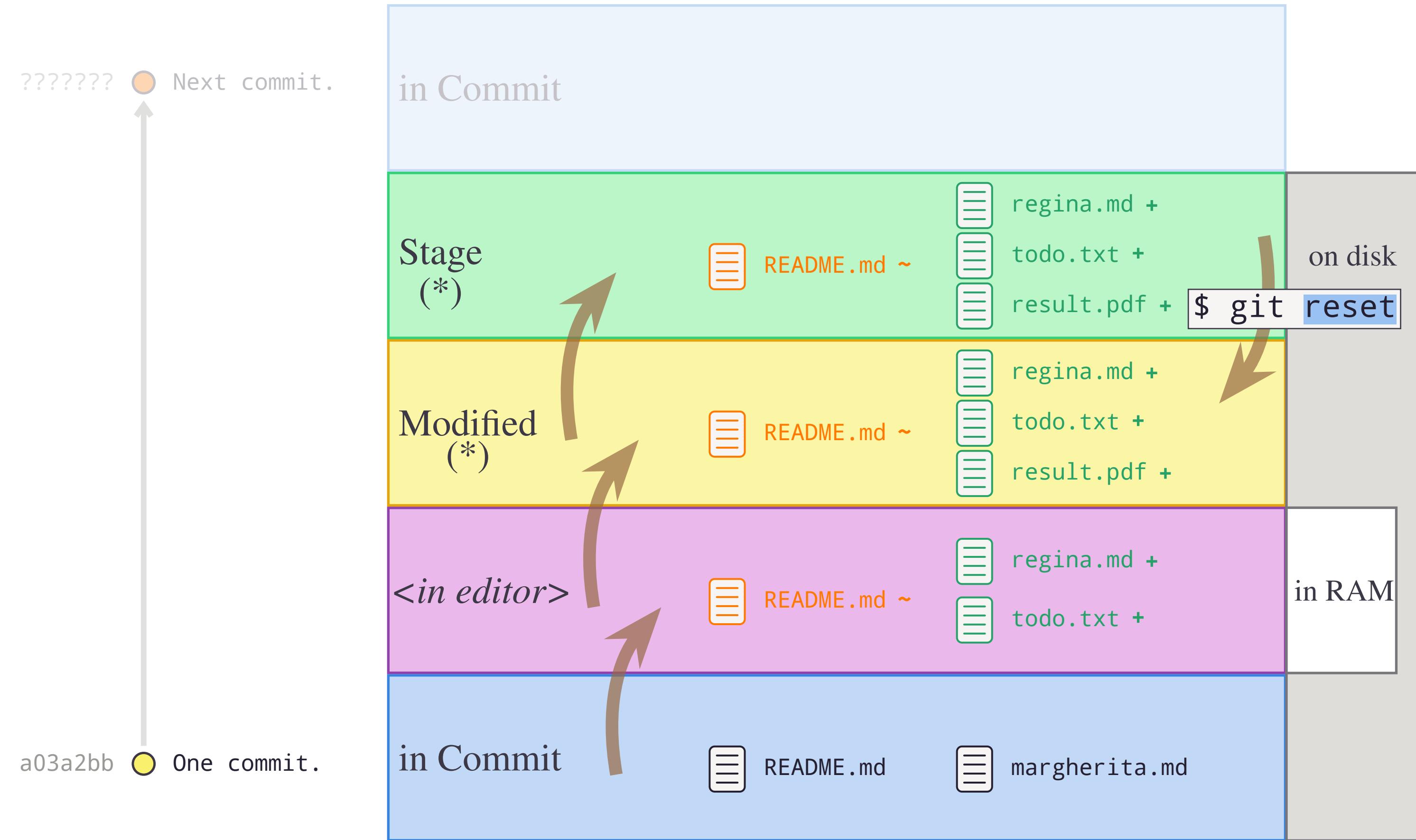
# Constructing a Commit

The Whole Process



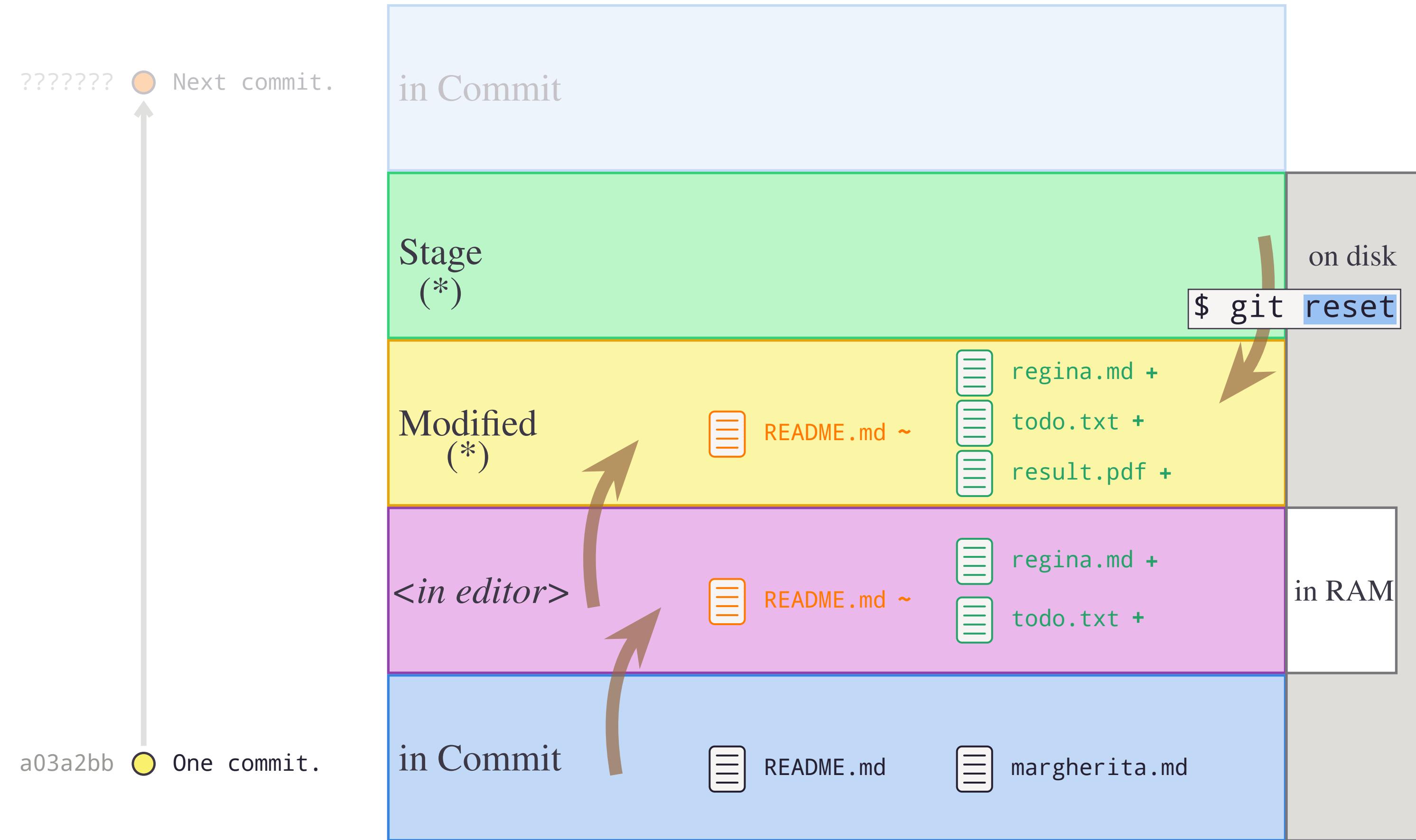
# Constructing a Commit

The Whole Process



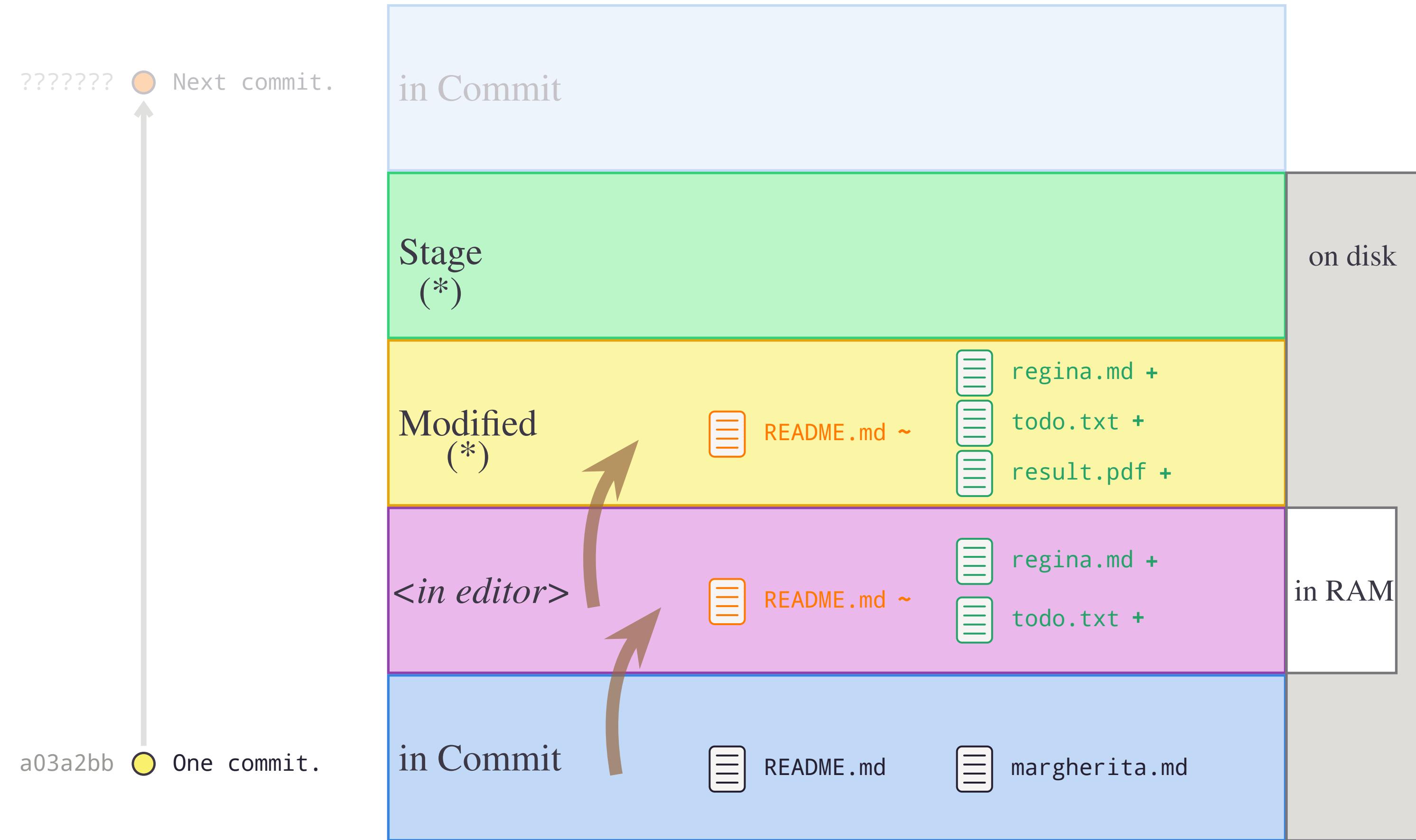
# Constructing a Commit

The Whole Process



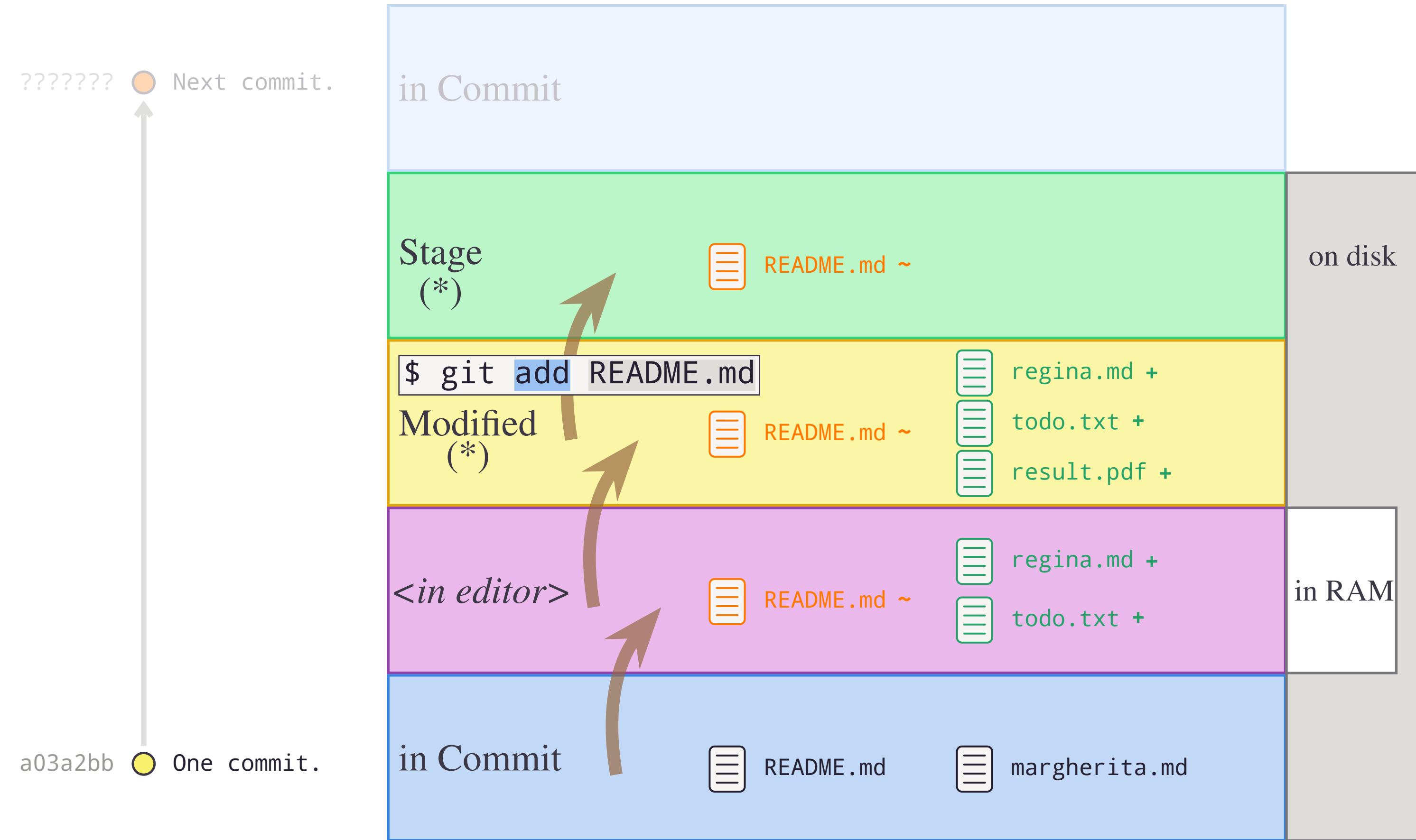
# Constructing a Commit

The Whole Process



# Constructing a Commit

The Whole Process



# Constructing a Commit

The Whole Process

???????

Next commit.

in Commit

Stage  
(\*)

README.md ~

regina.md +

\$ git add 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

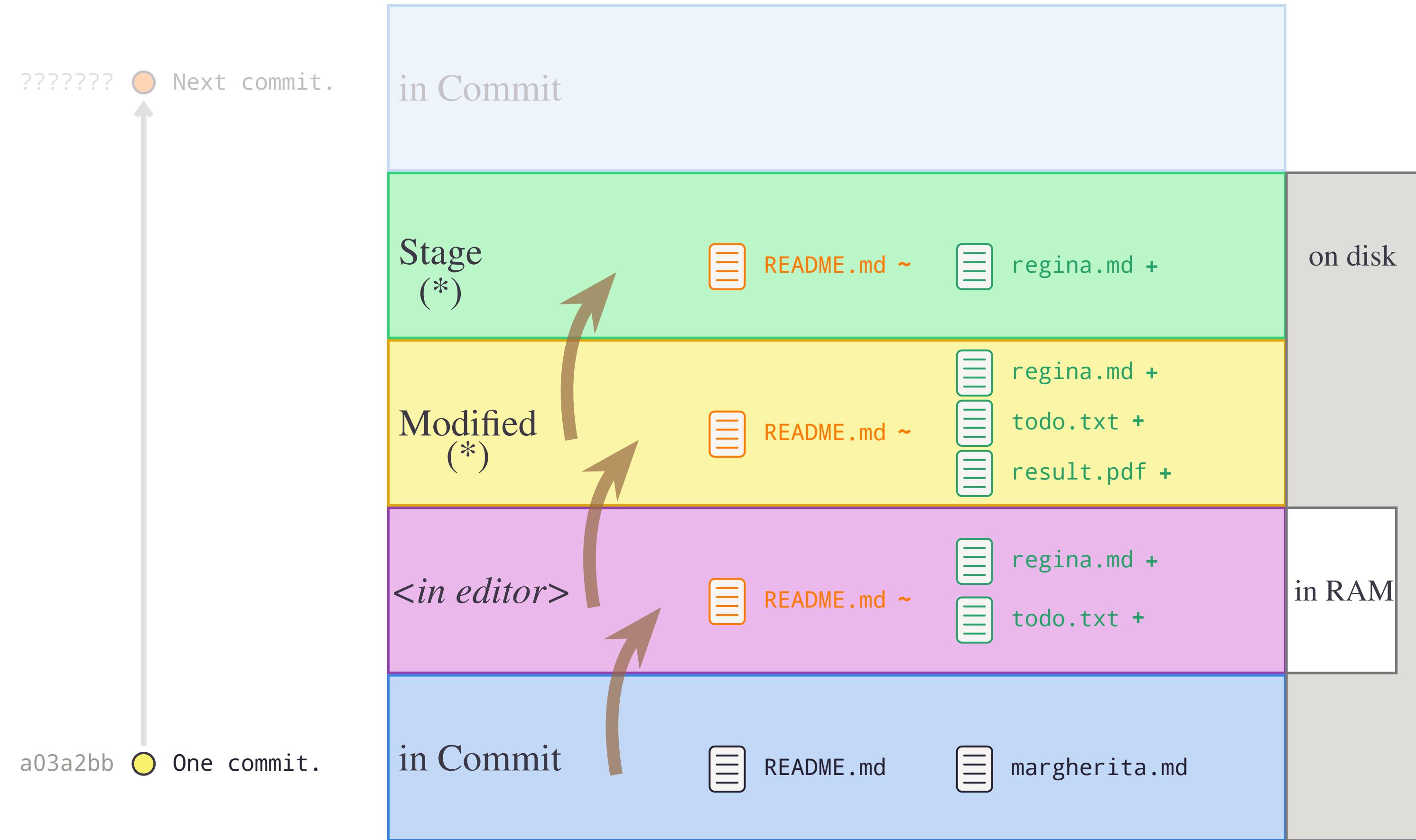
in RAM

a03a2bb

One commit.

# Constructing a Commit

The Whole Process

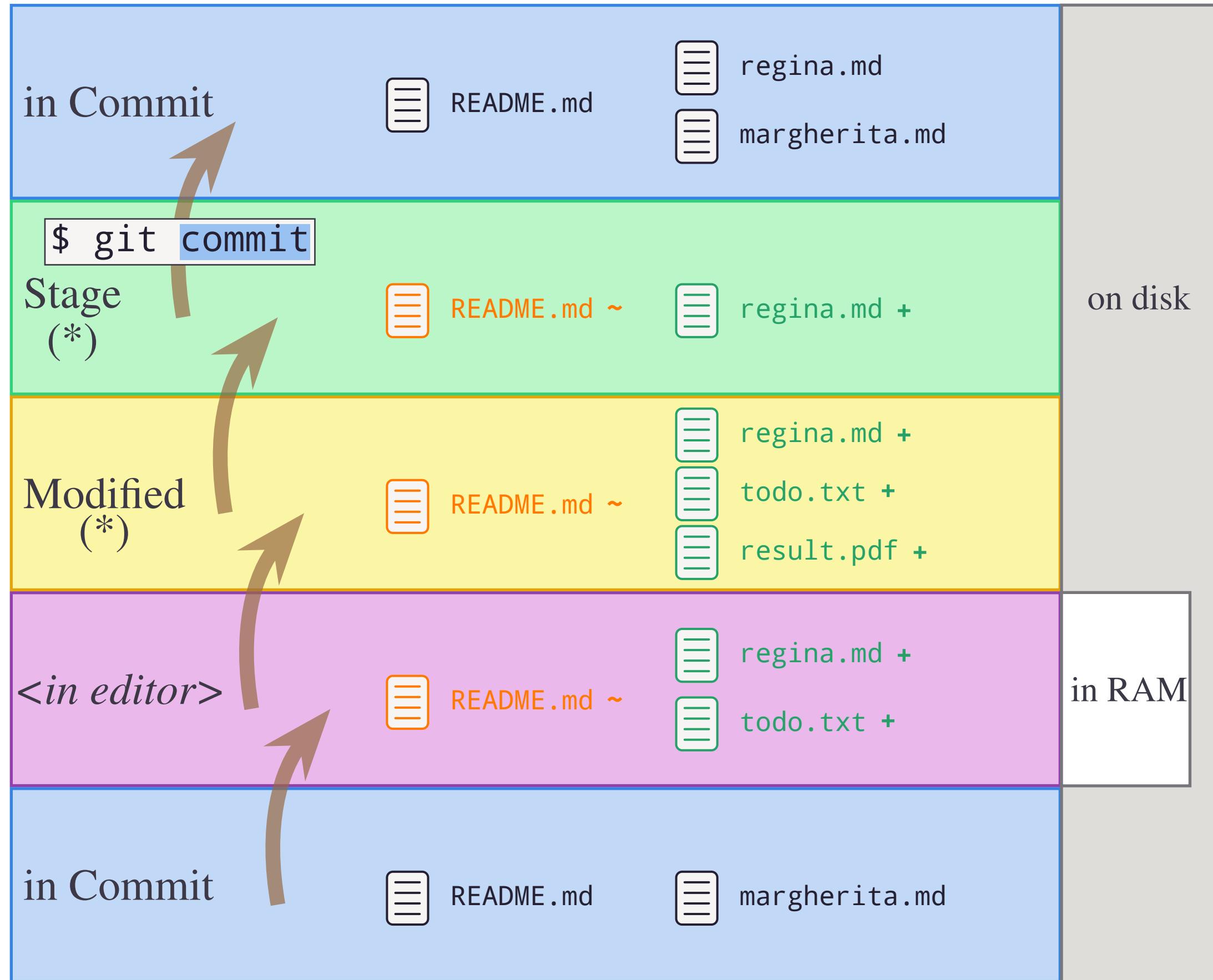


# Constructing a Commit

The Whole Process

a03a2bb One commit.

4b87875 Next commit.

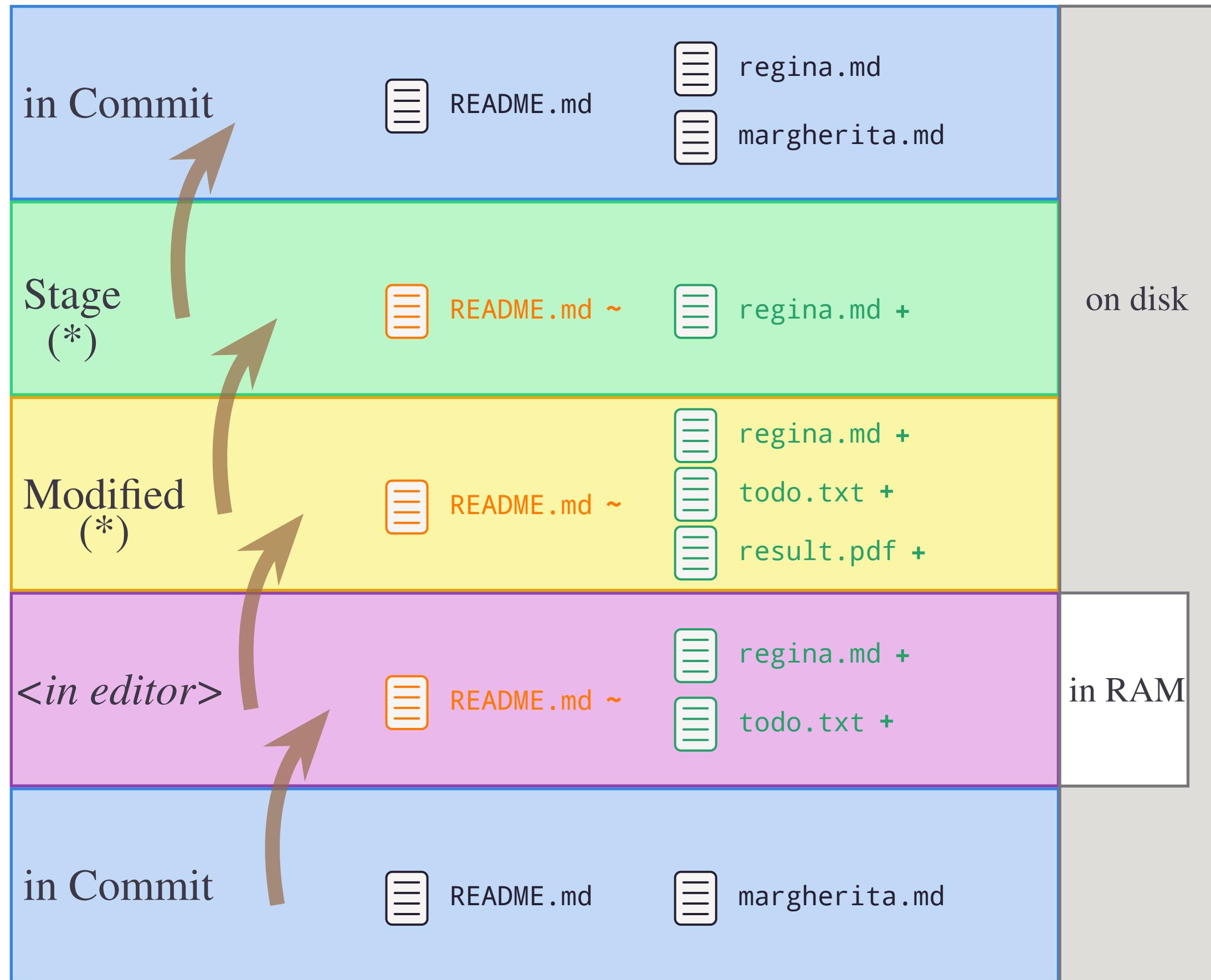


# Constructing a Commit

The Whole Process

a03a2bb One commit.

4b87875 Next commit.

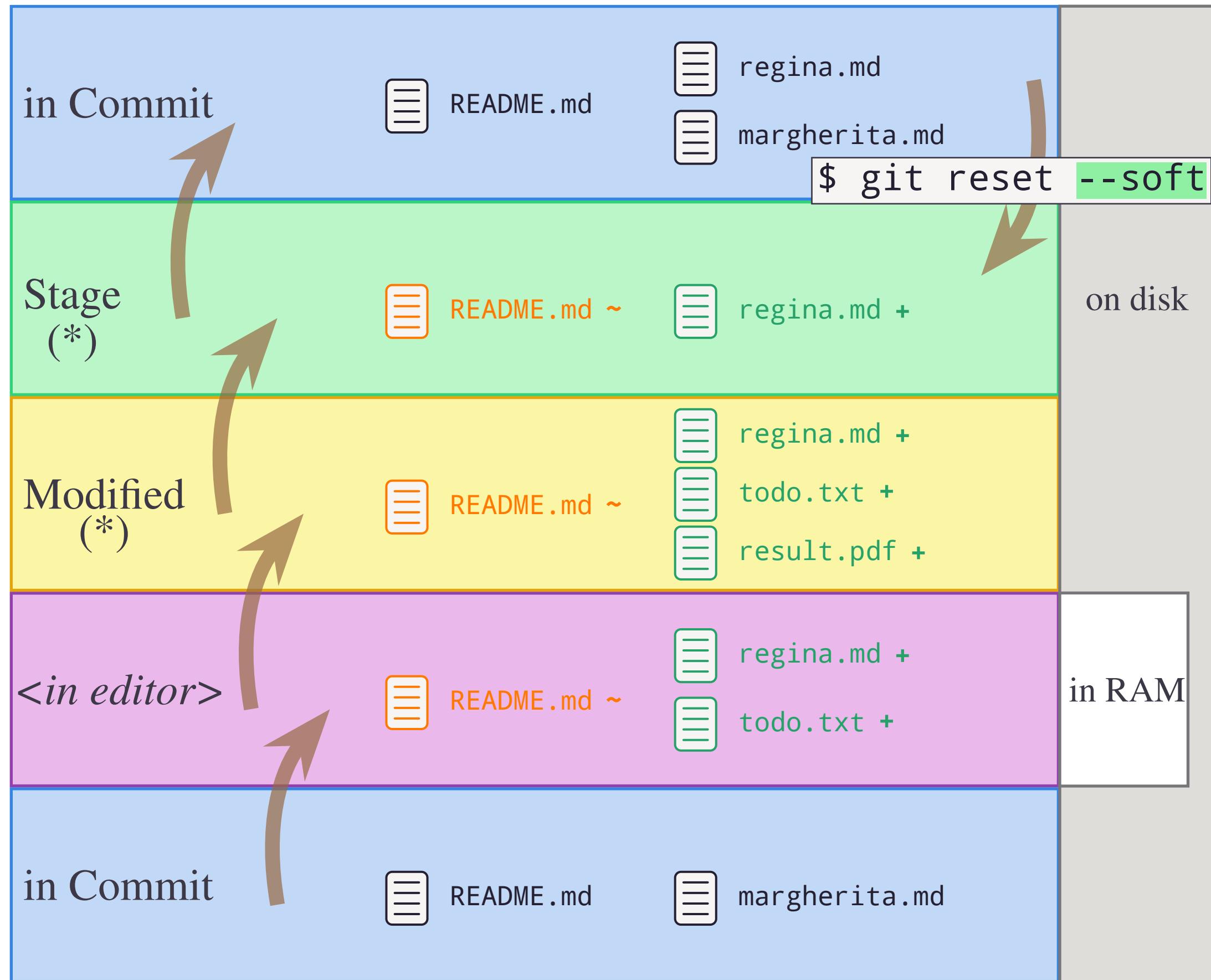


# Constructing a Commit

The Whole Process

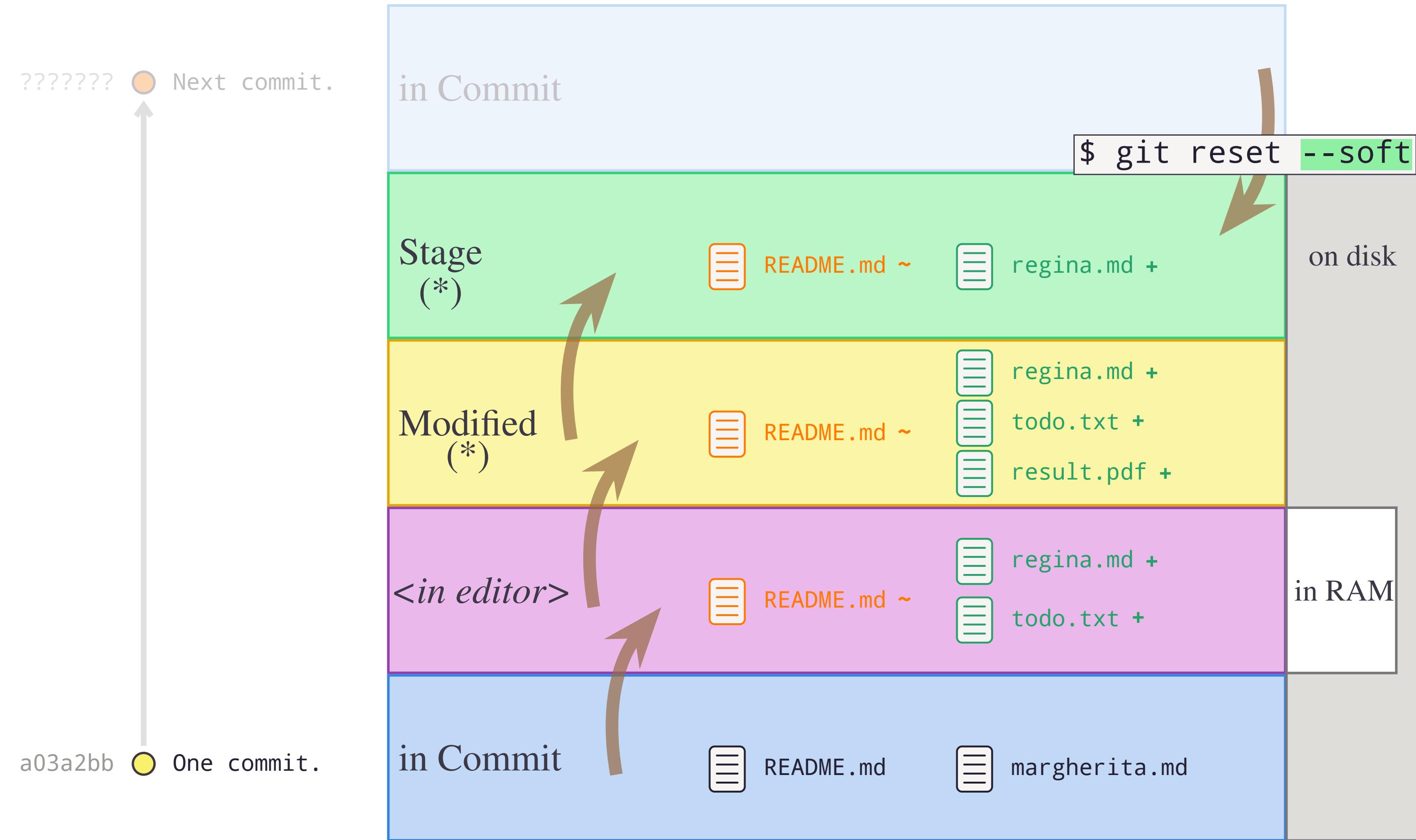
a03a2bb One commit.

4b87875 Next commit.



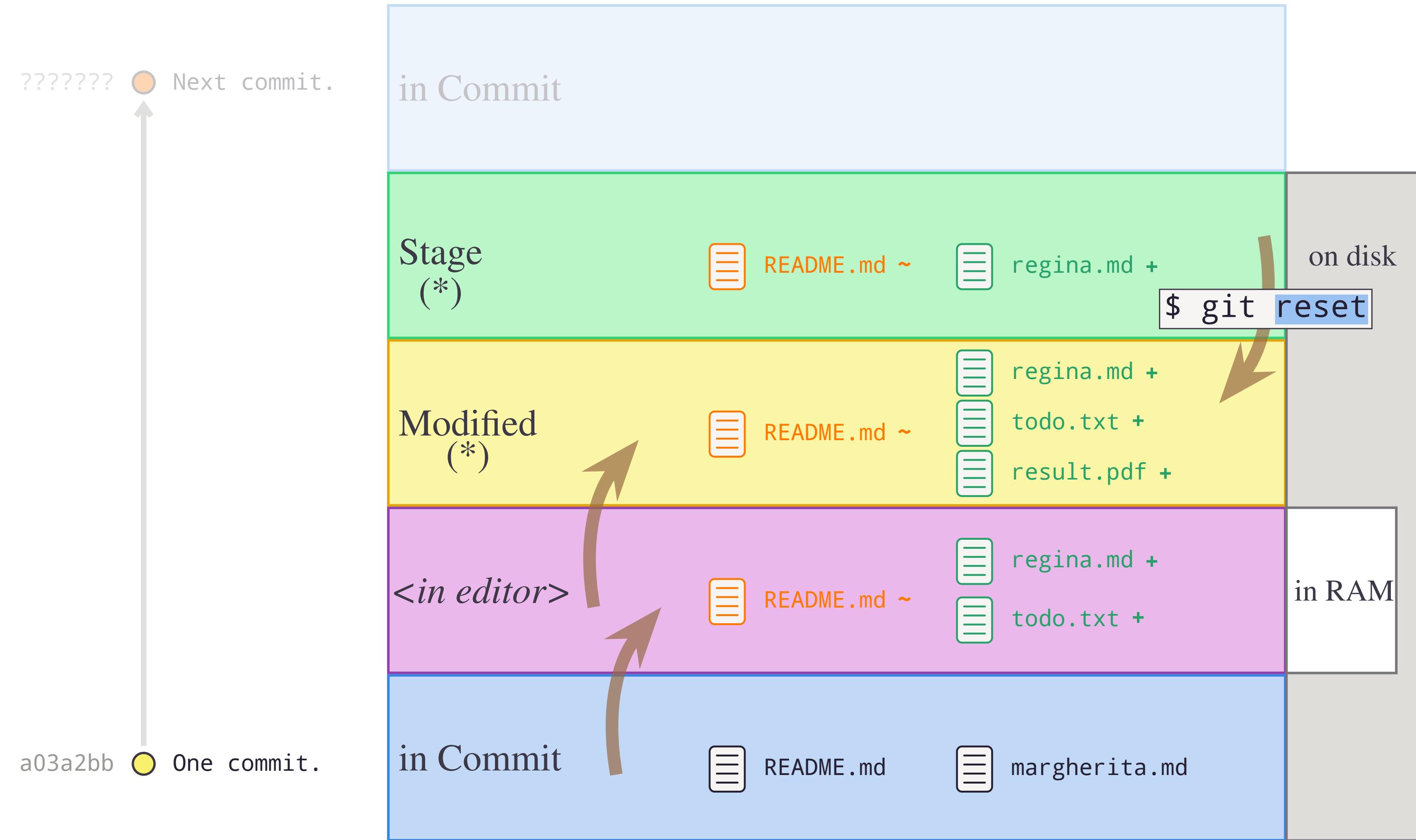
# Constructing a Commit

The Whole Process



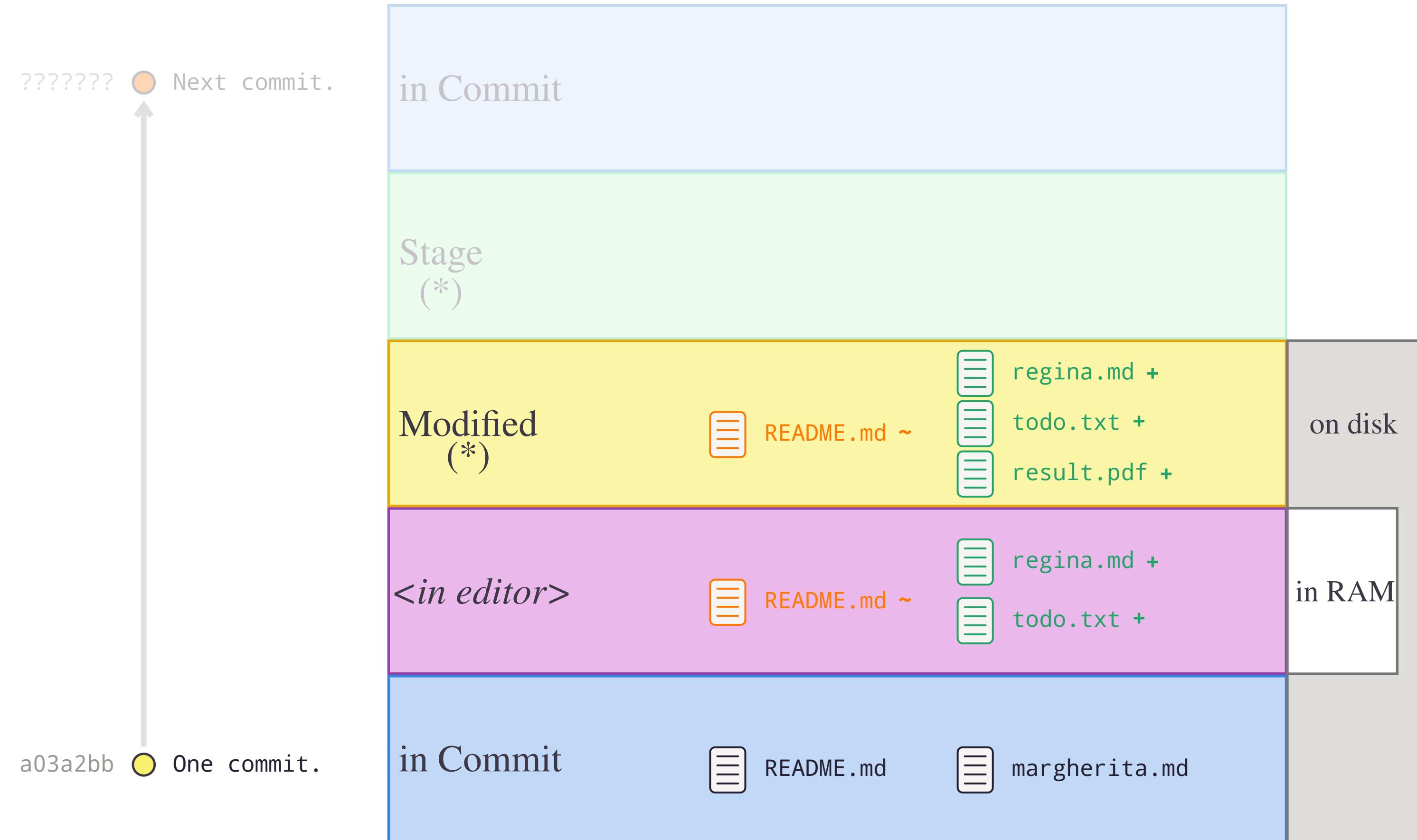
# Constructing a Commit

The Whole Process



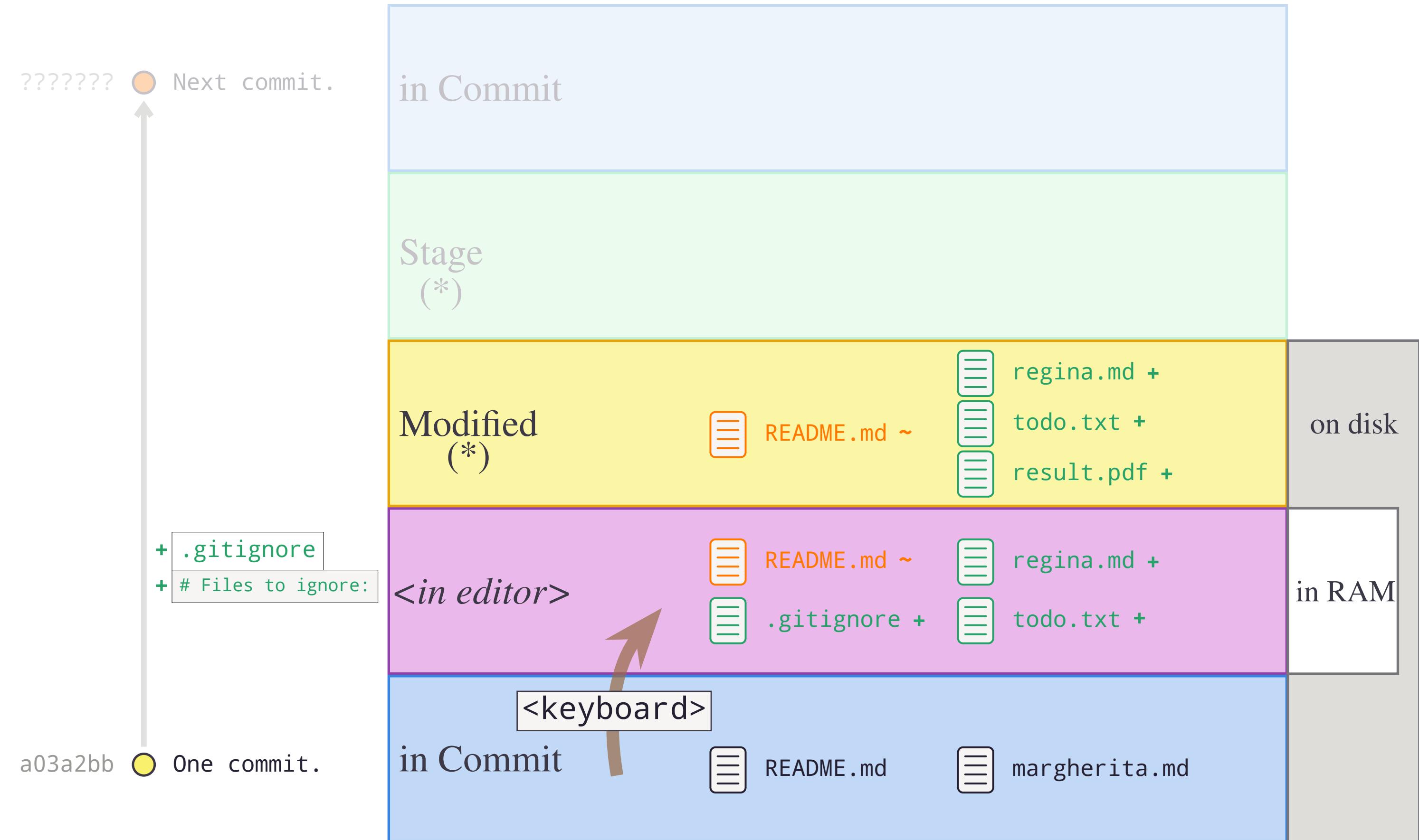
# Constructing a Commit

The Whole Process



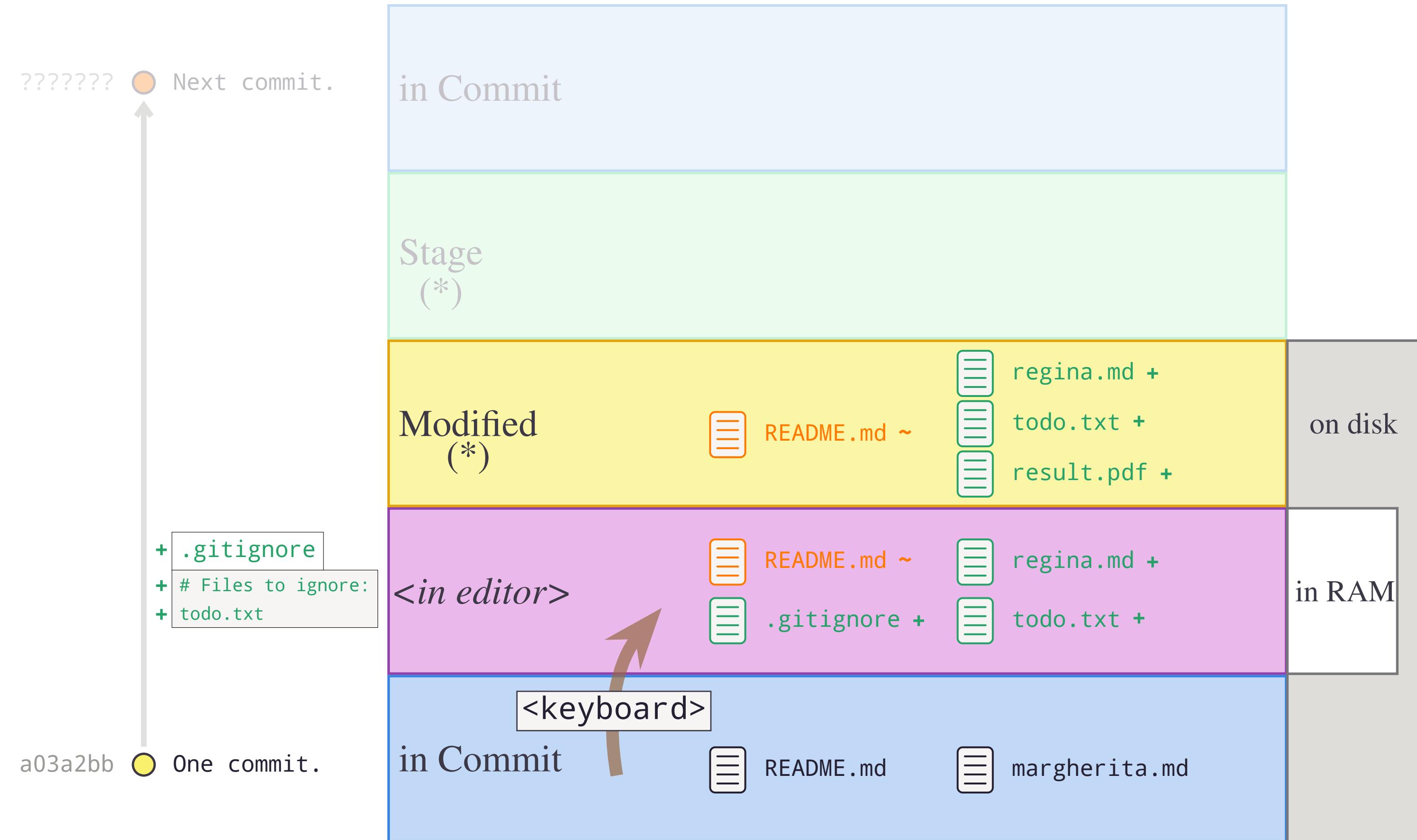
# Constructing a Commit

The Whole Process



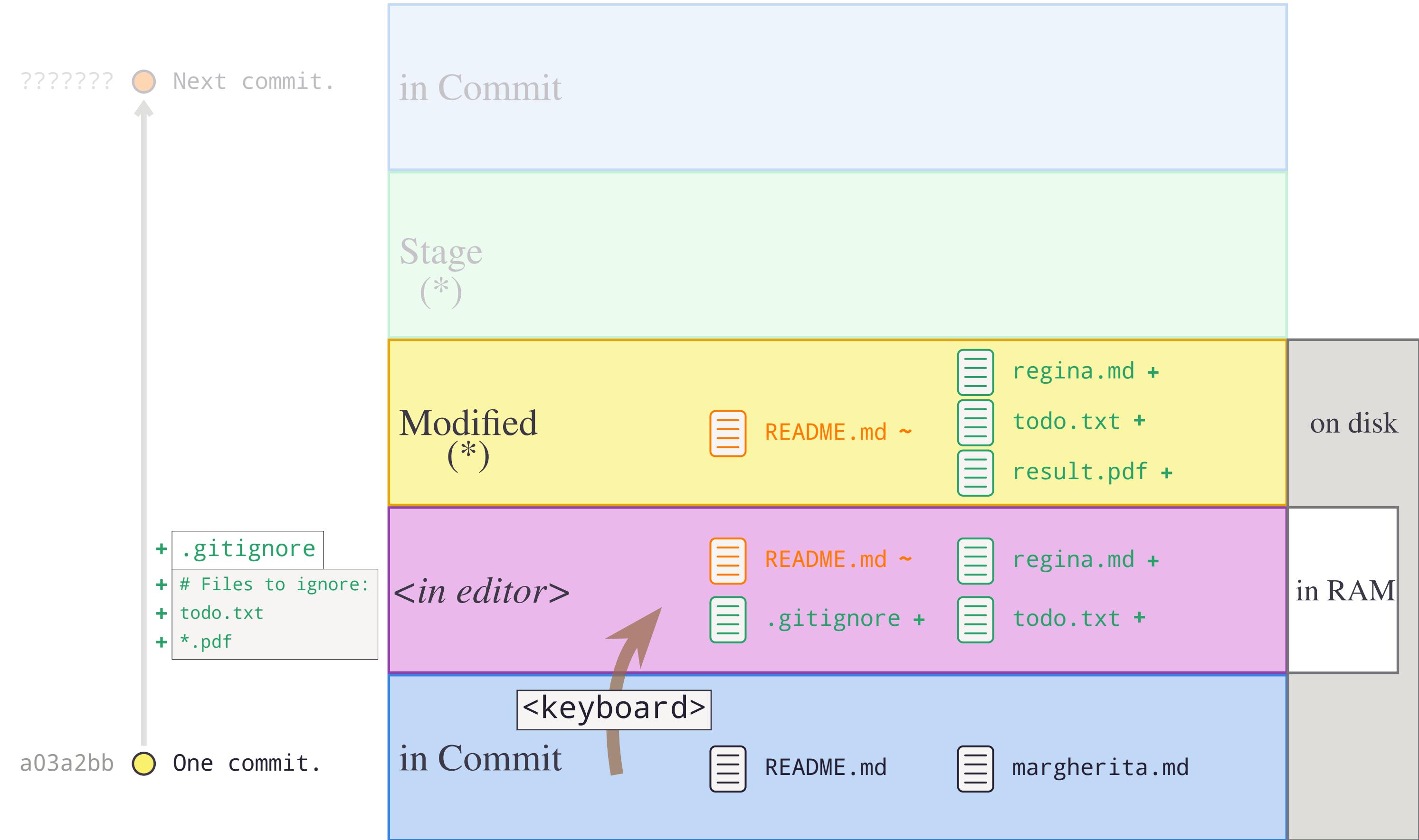
# Constructing a Commit

The Whole Process



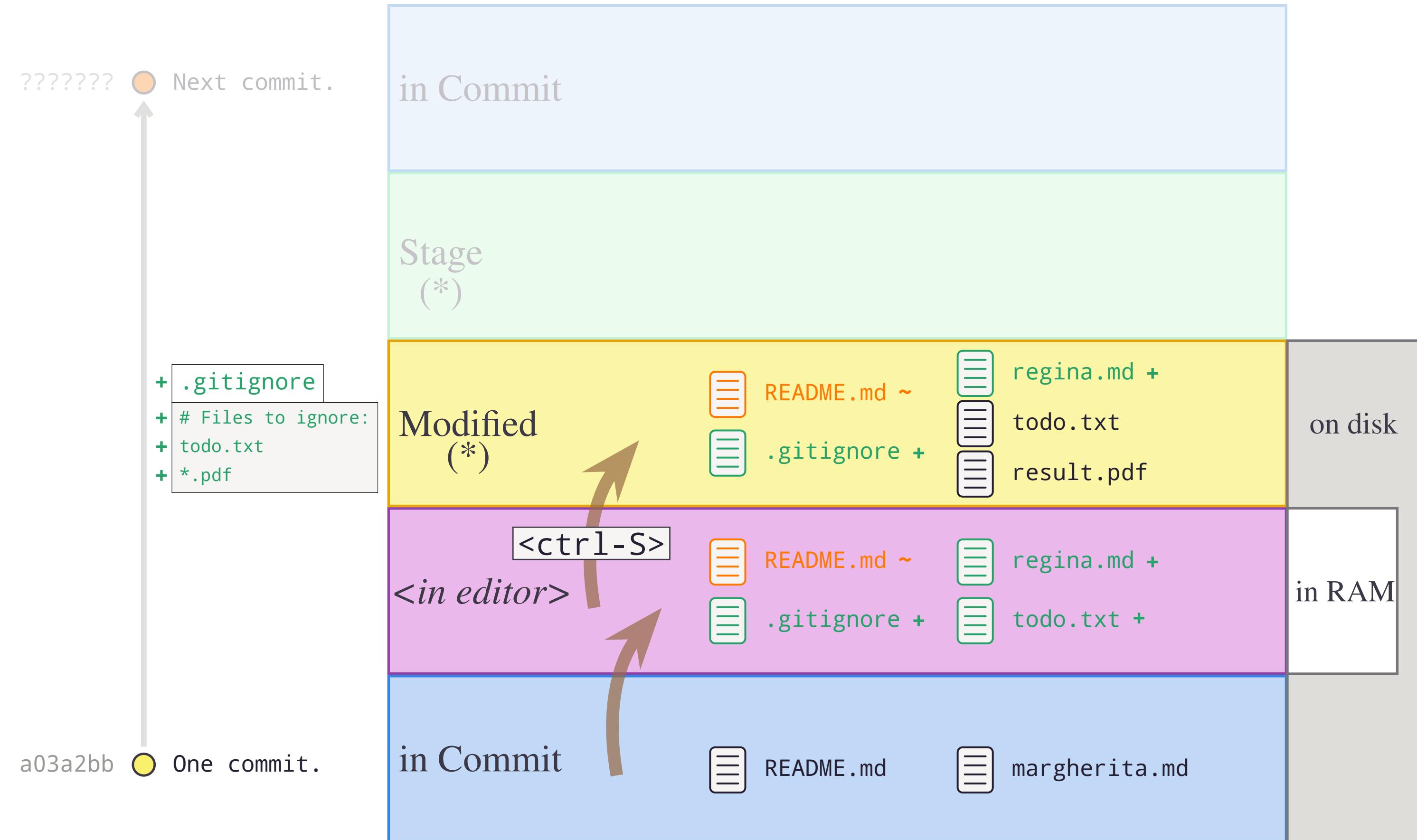
# Constructing a Commit

The Whole Process



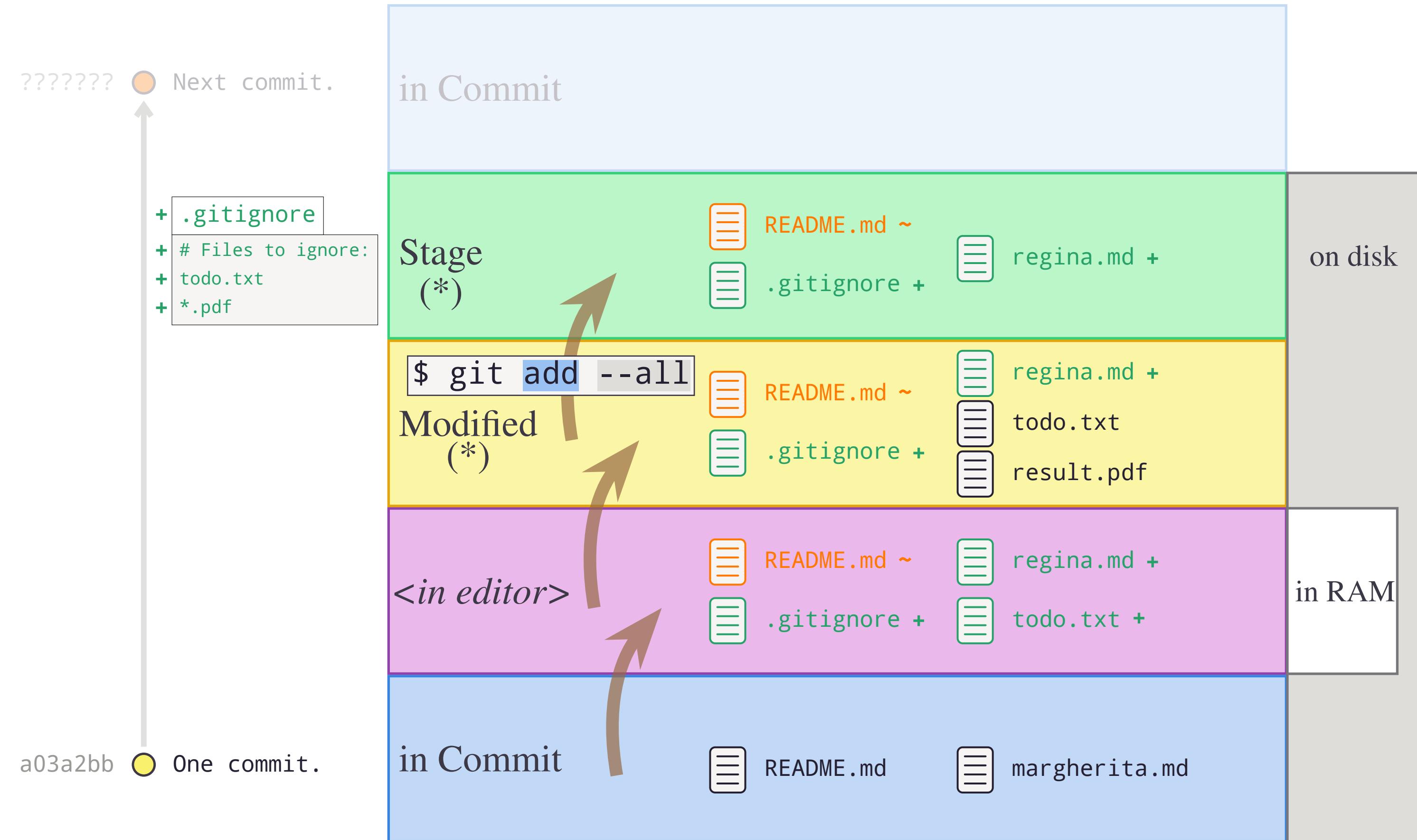
# Constructing a Commit

The Whole Process



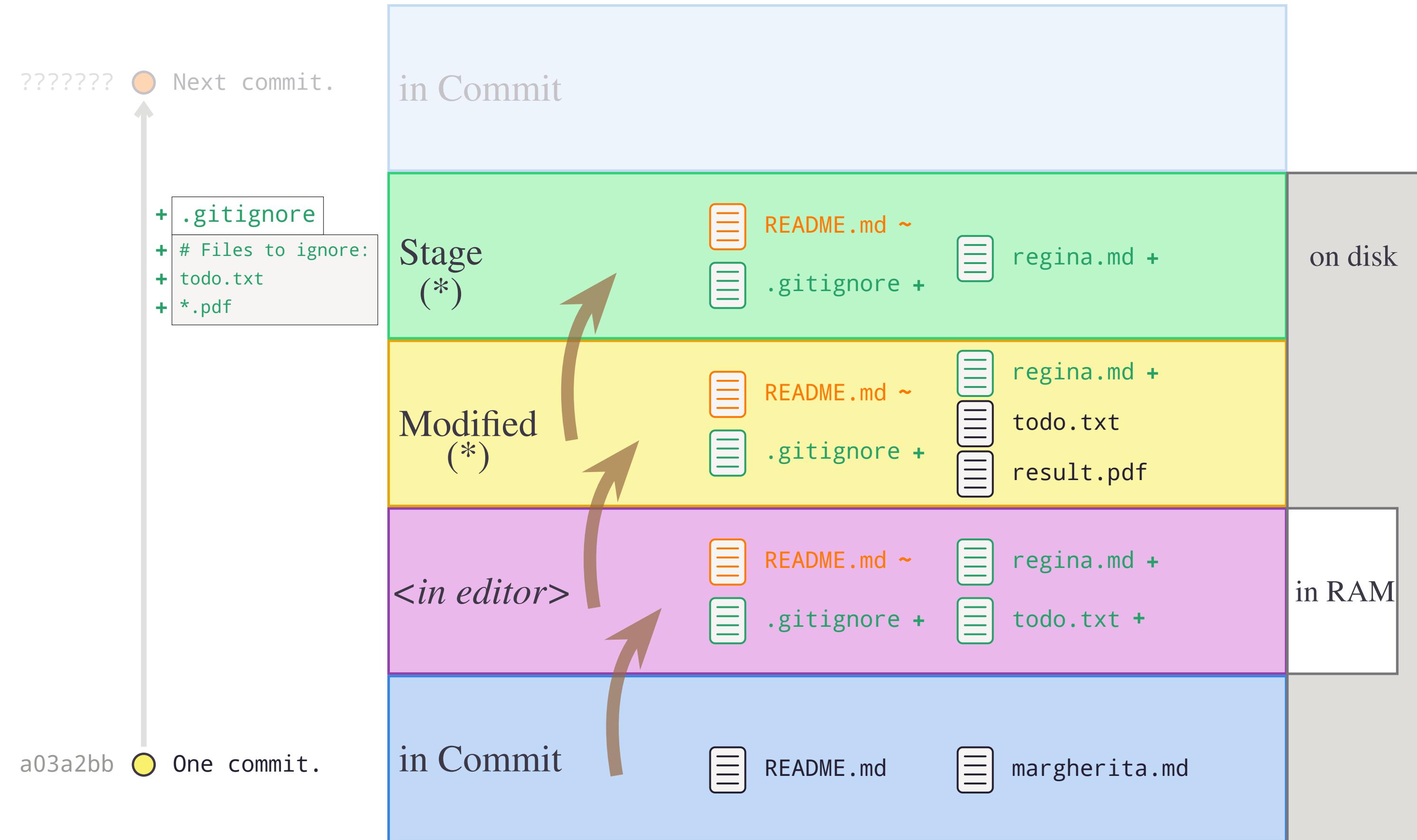
# Constructing a Commit

The Whole Process



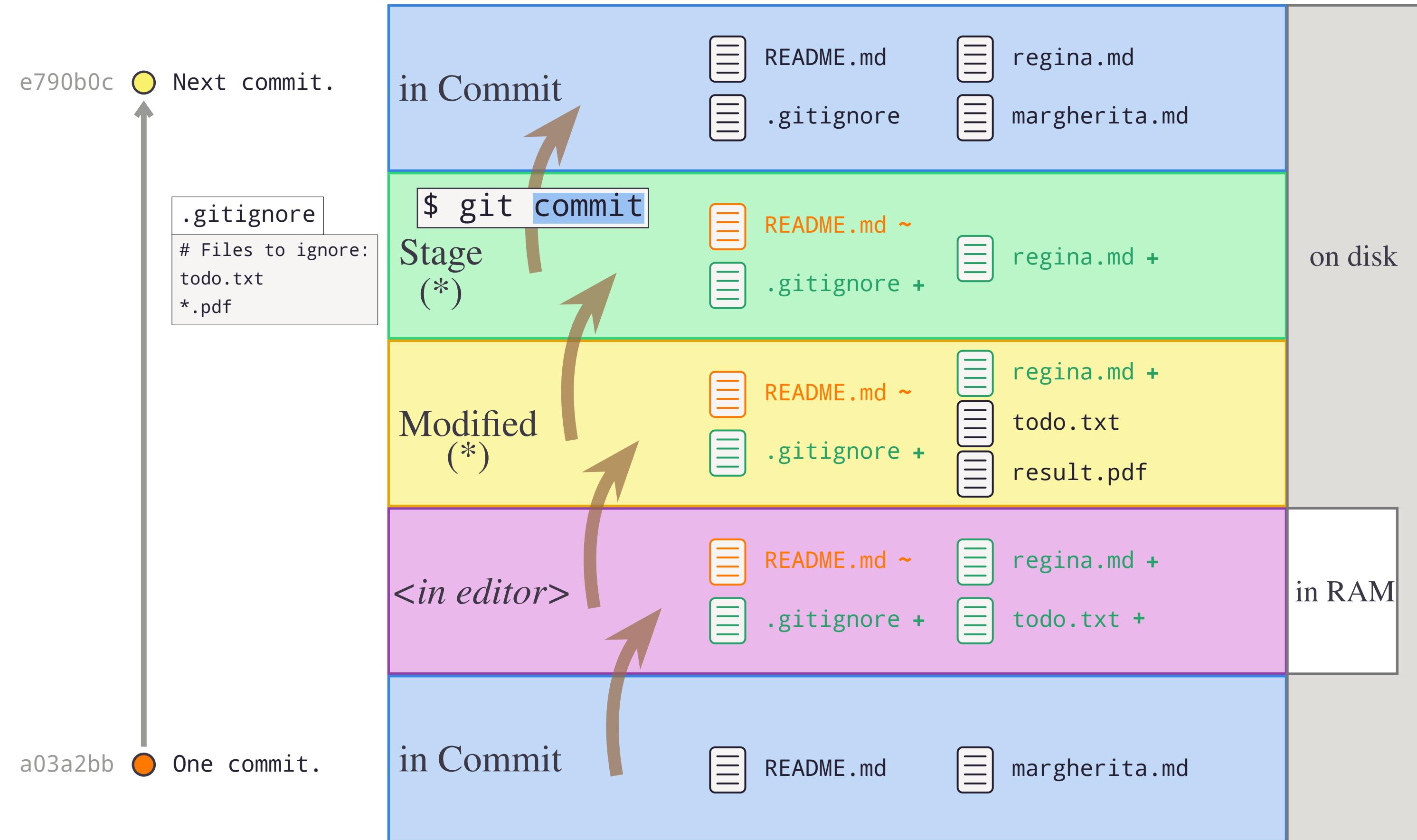
# Constructing a Commit

The Whole Process



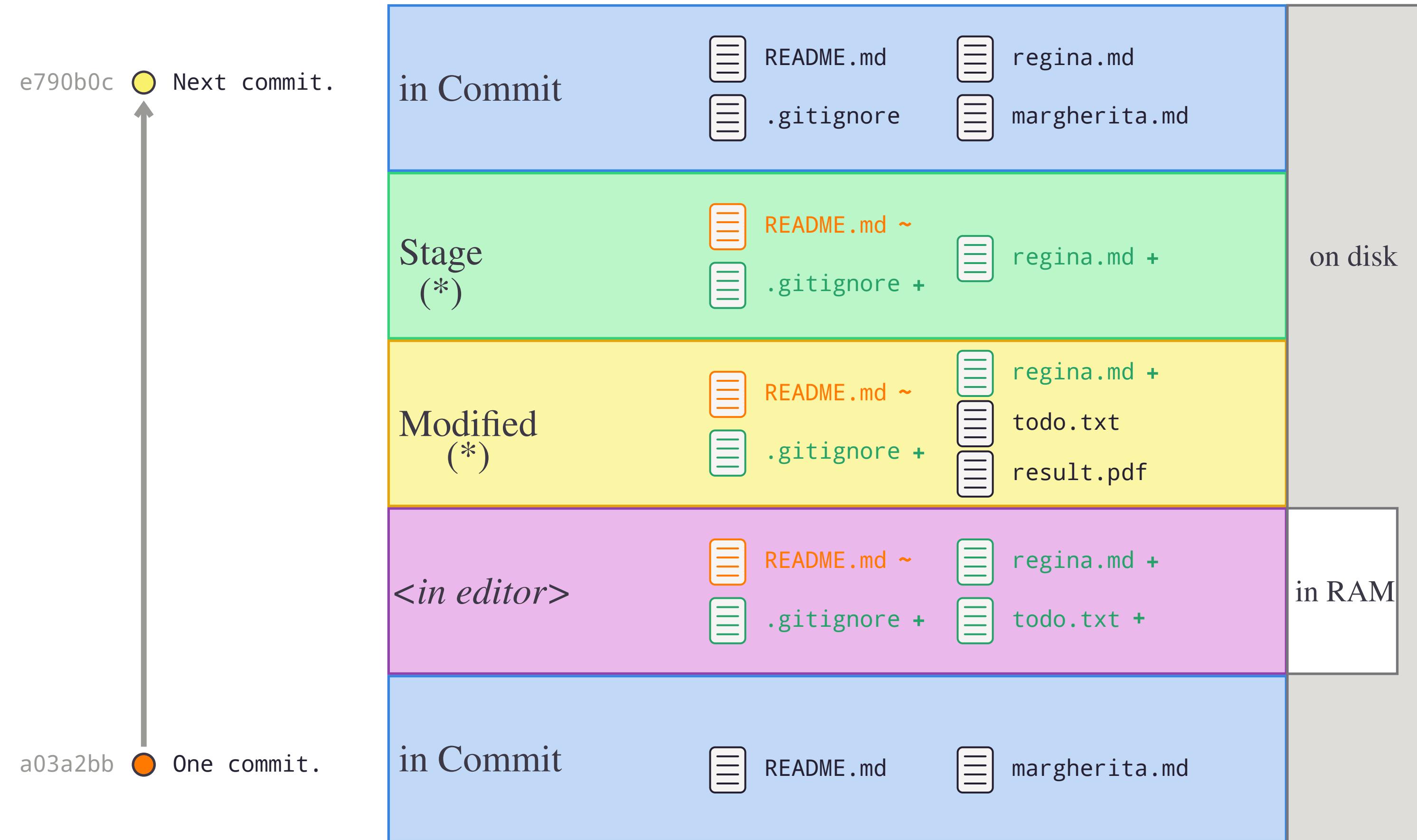
# Constructing a Commit

The Whole Process



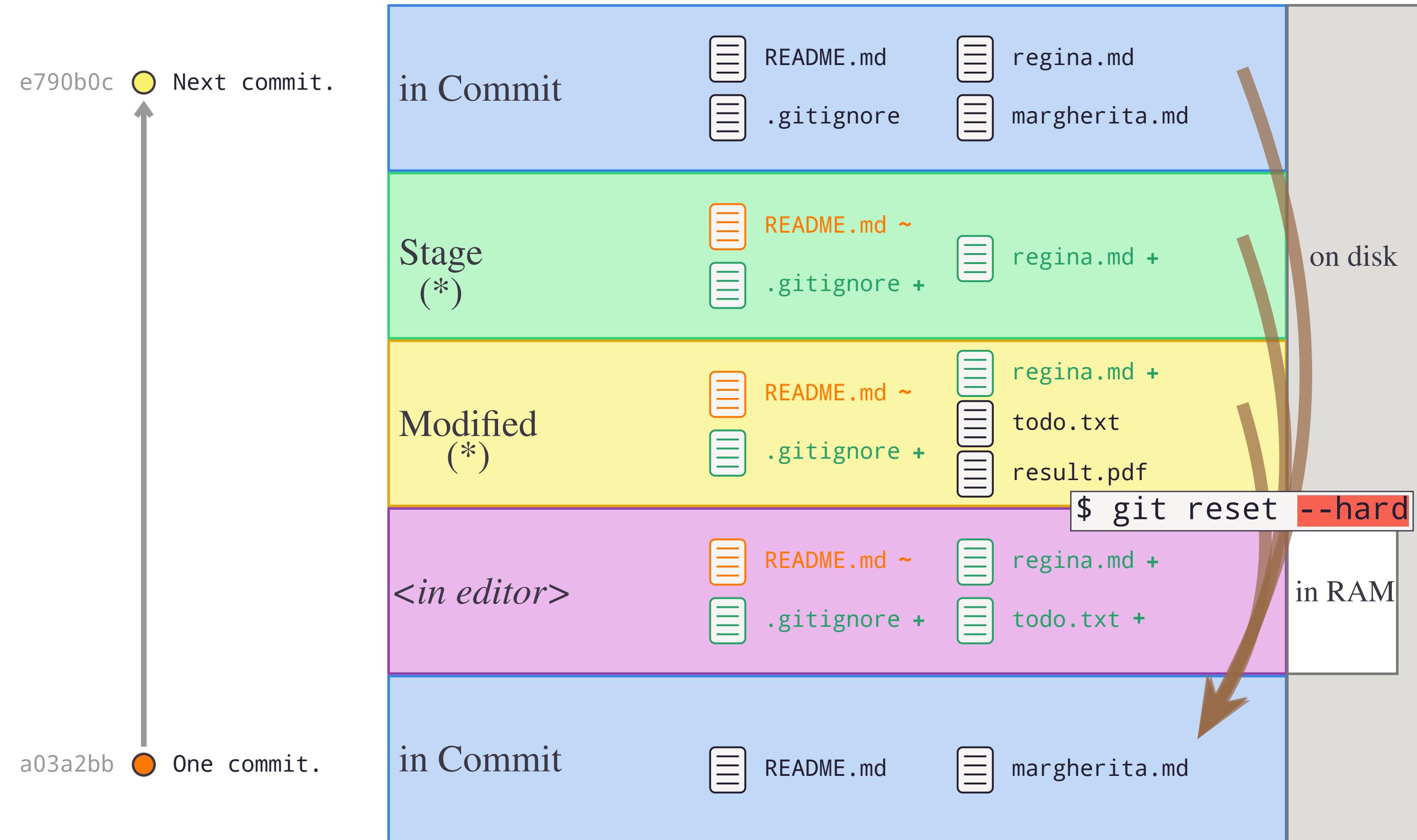
# Constructing a Commit

The Whole Process



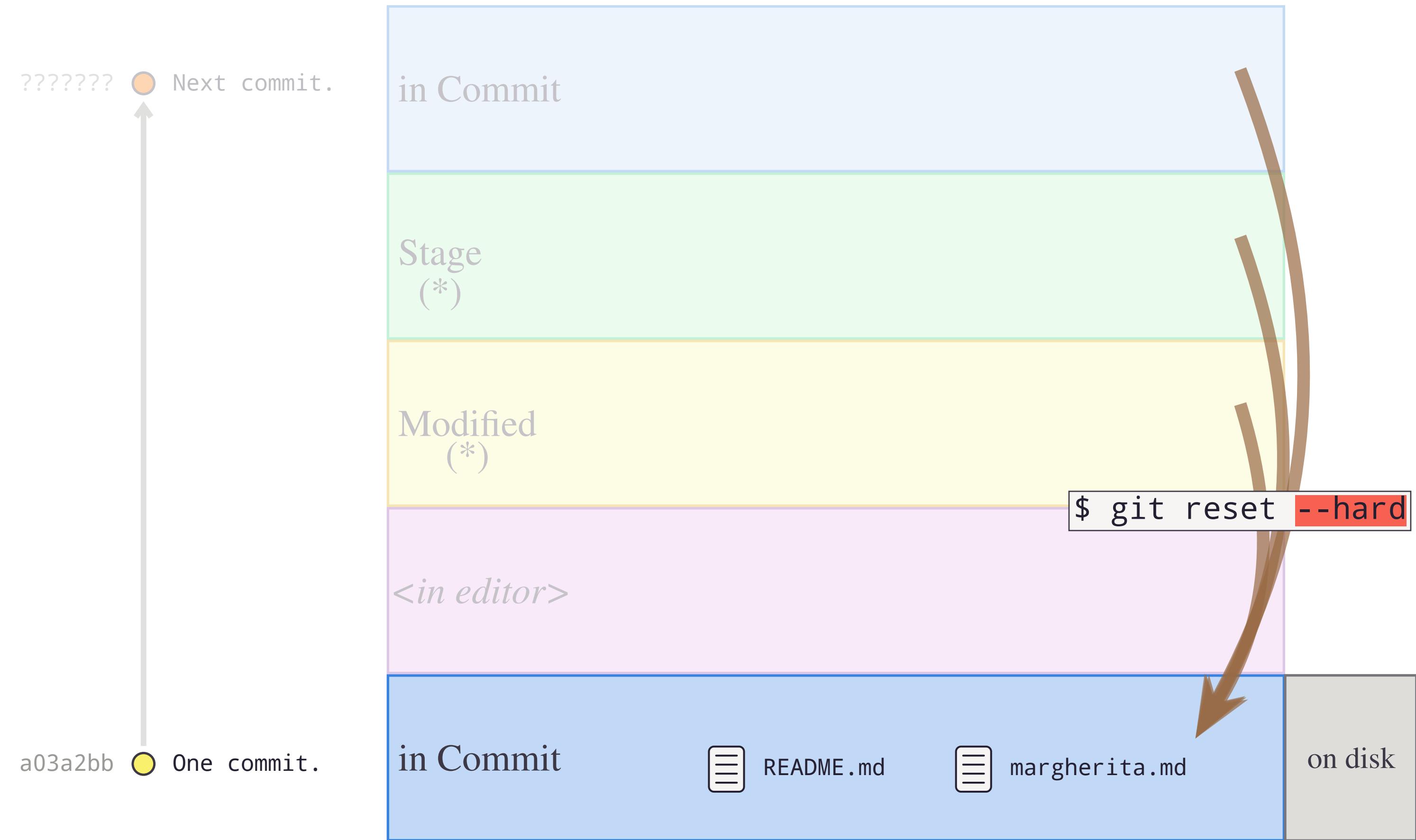
# Constructing a Commit

The Whole Process



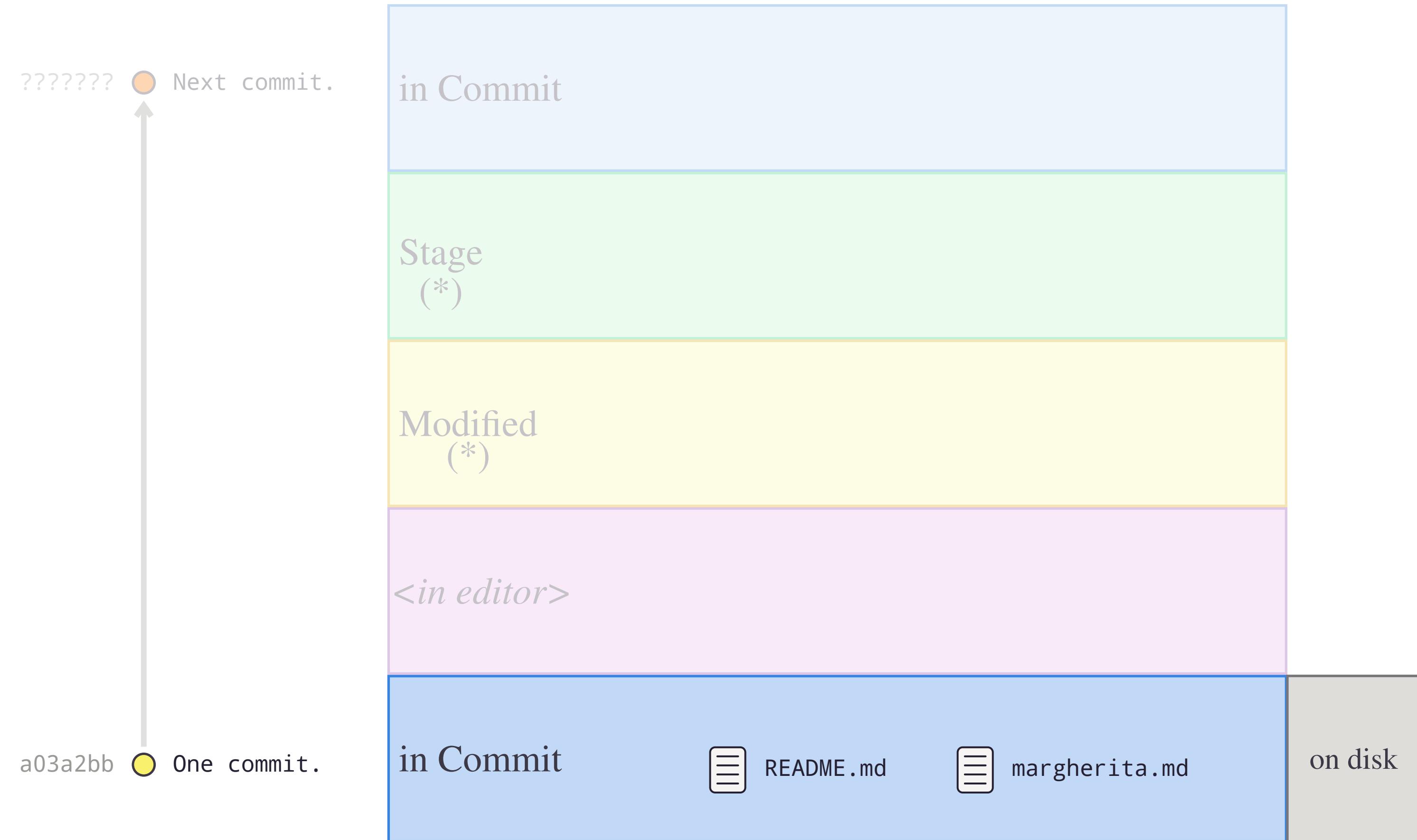
# Constructing a Commit

The Whole Process



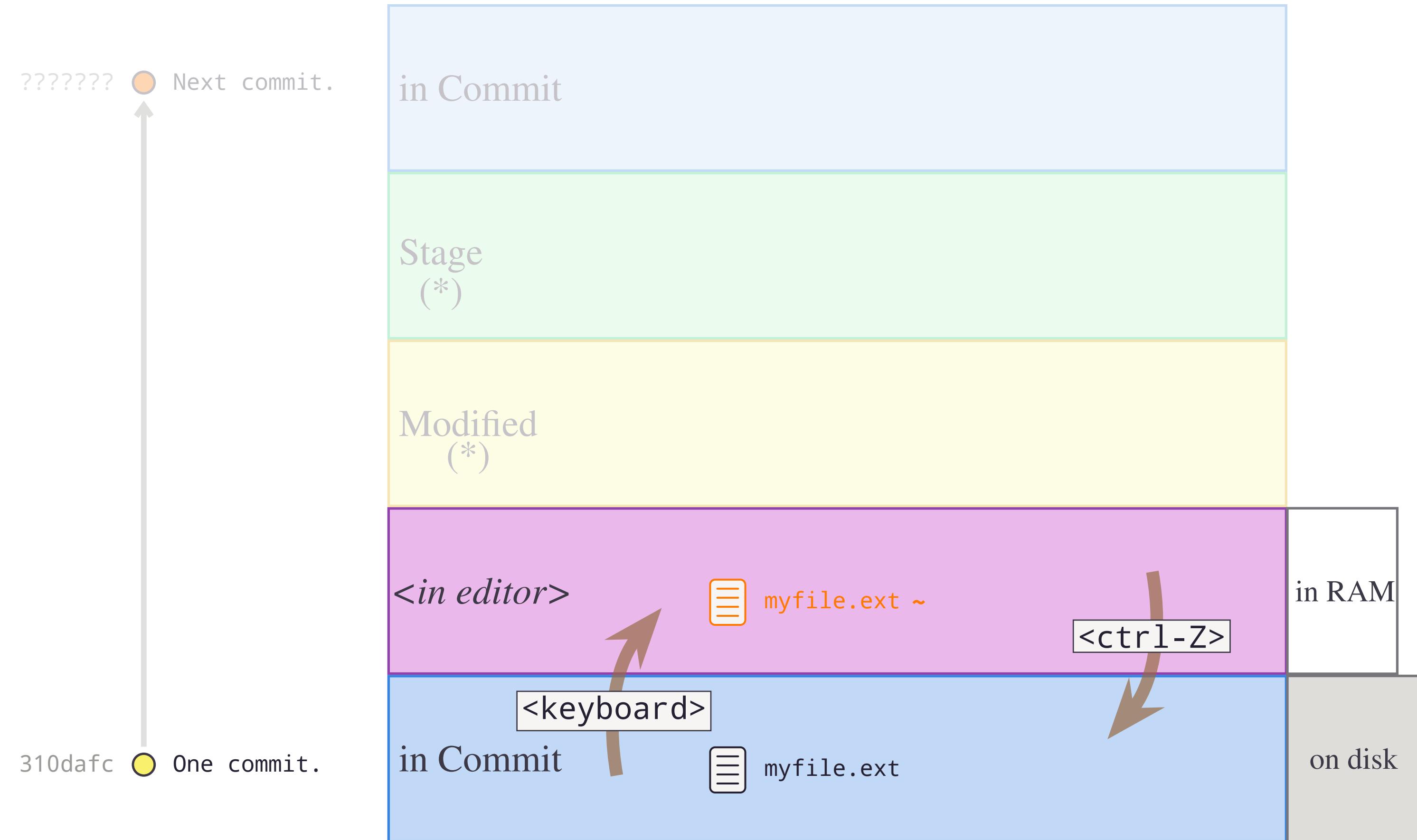
# Constructing a Commit

The Whole Process



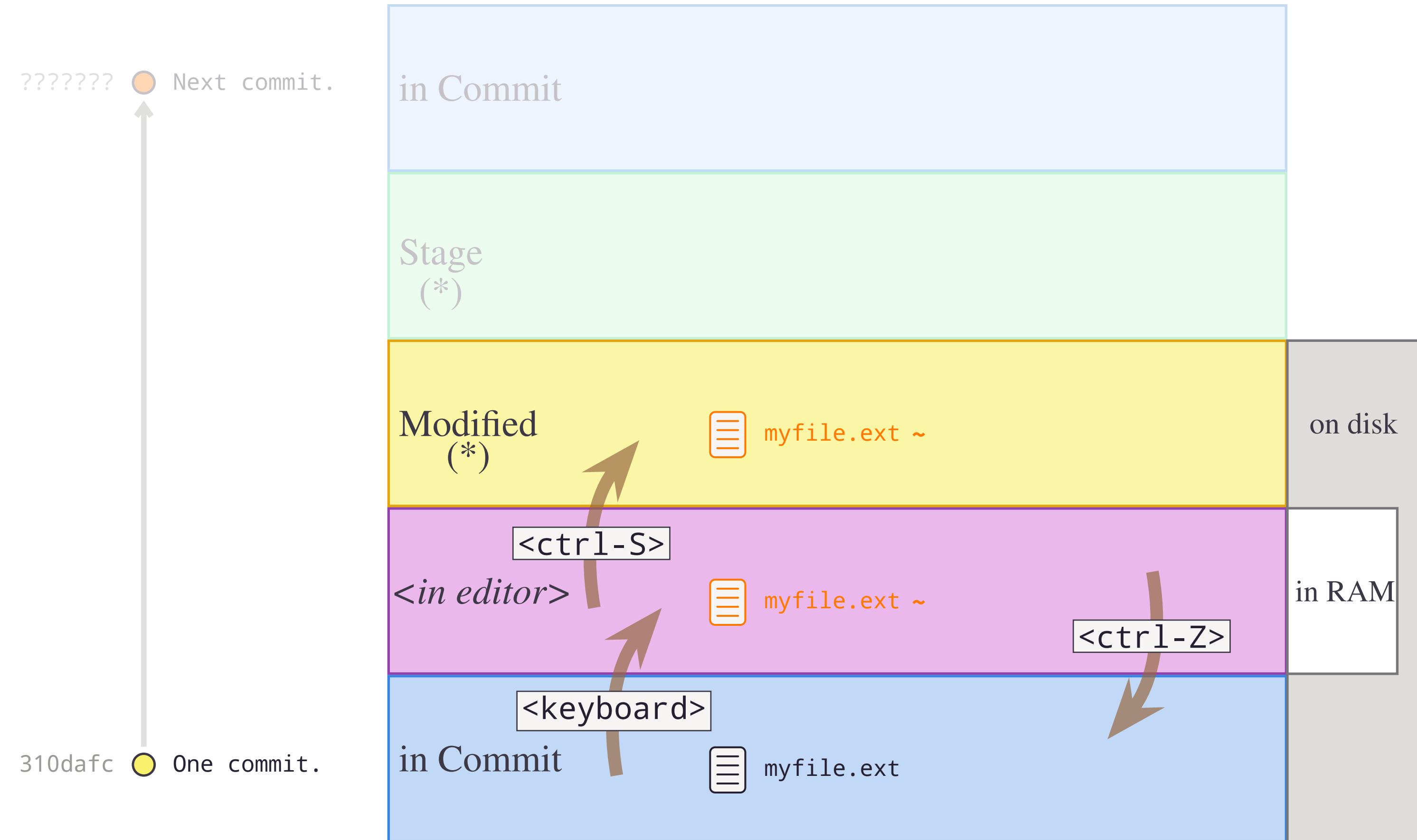
# Constructing a Commit

The Whole Process



# Constructing a Commit

The Whole Process

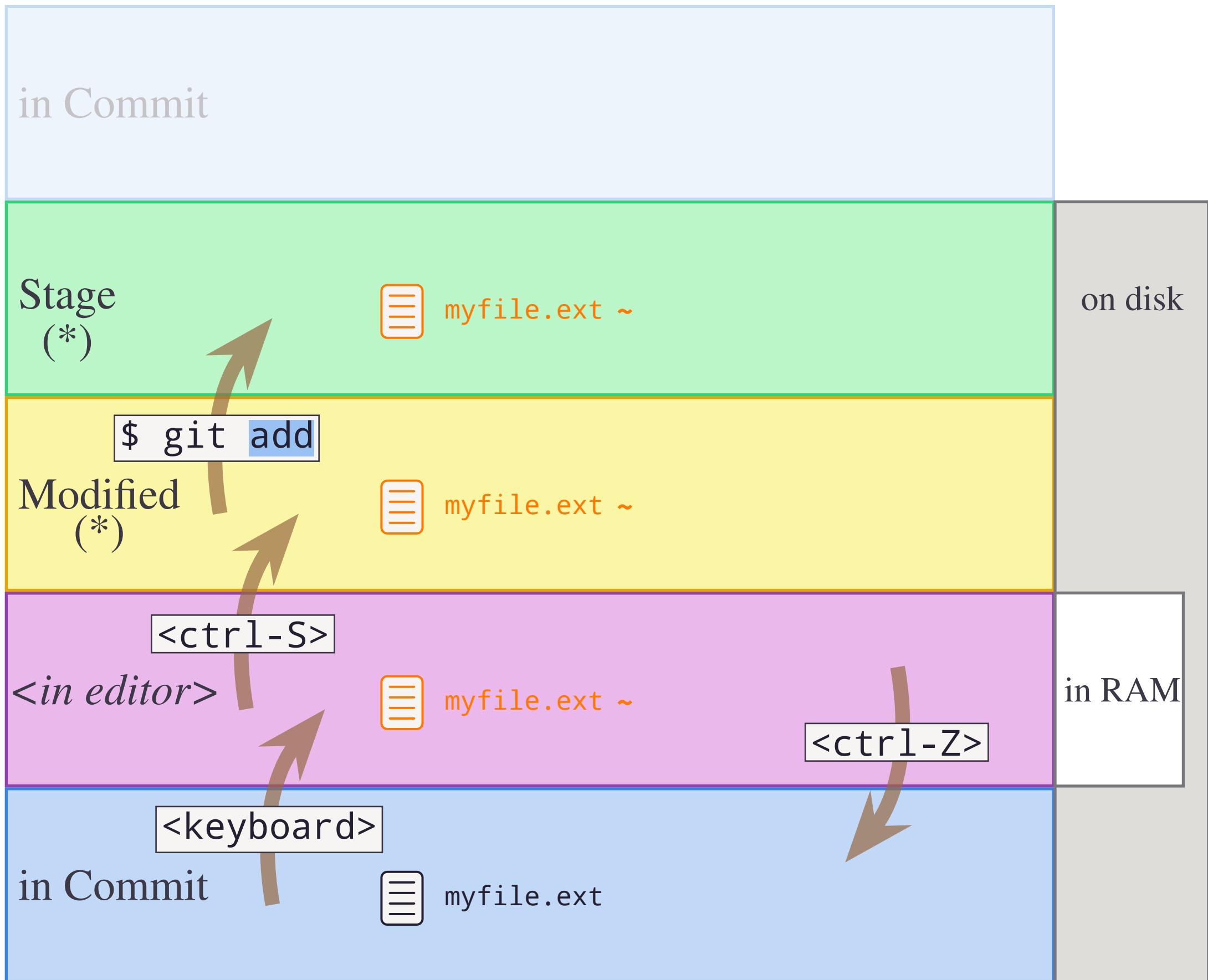


# Constructing a Commit

The Whole Process

???????

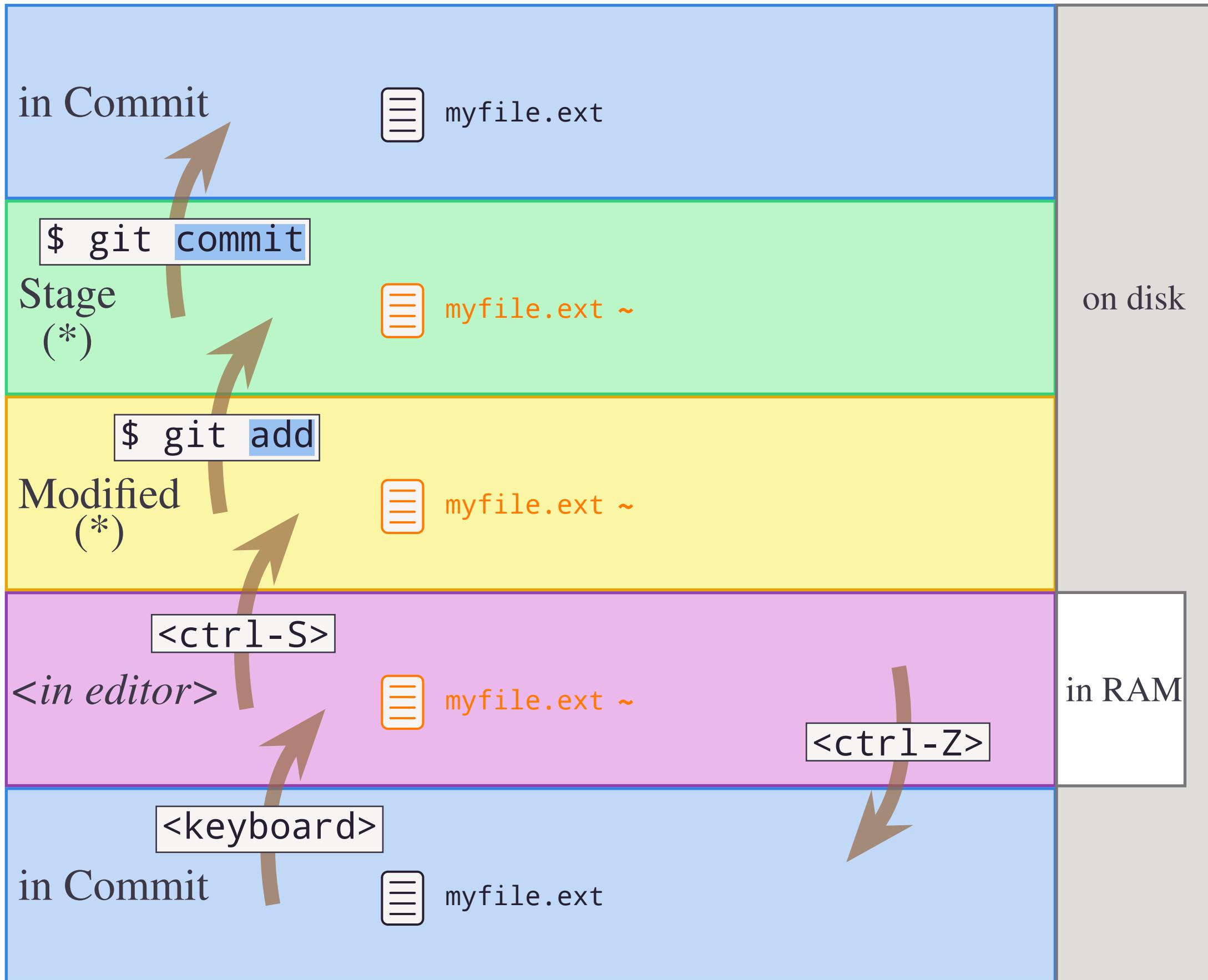
○ Next commit.



# Constructing a Commit

The Whole Process

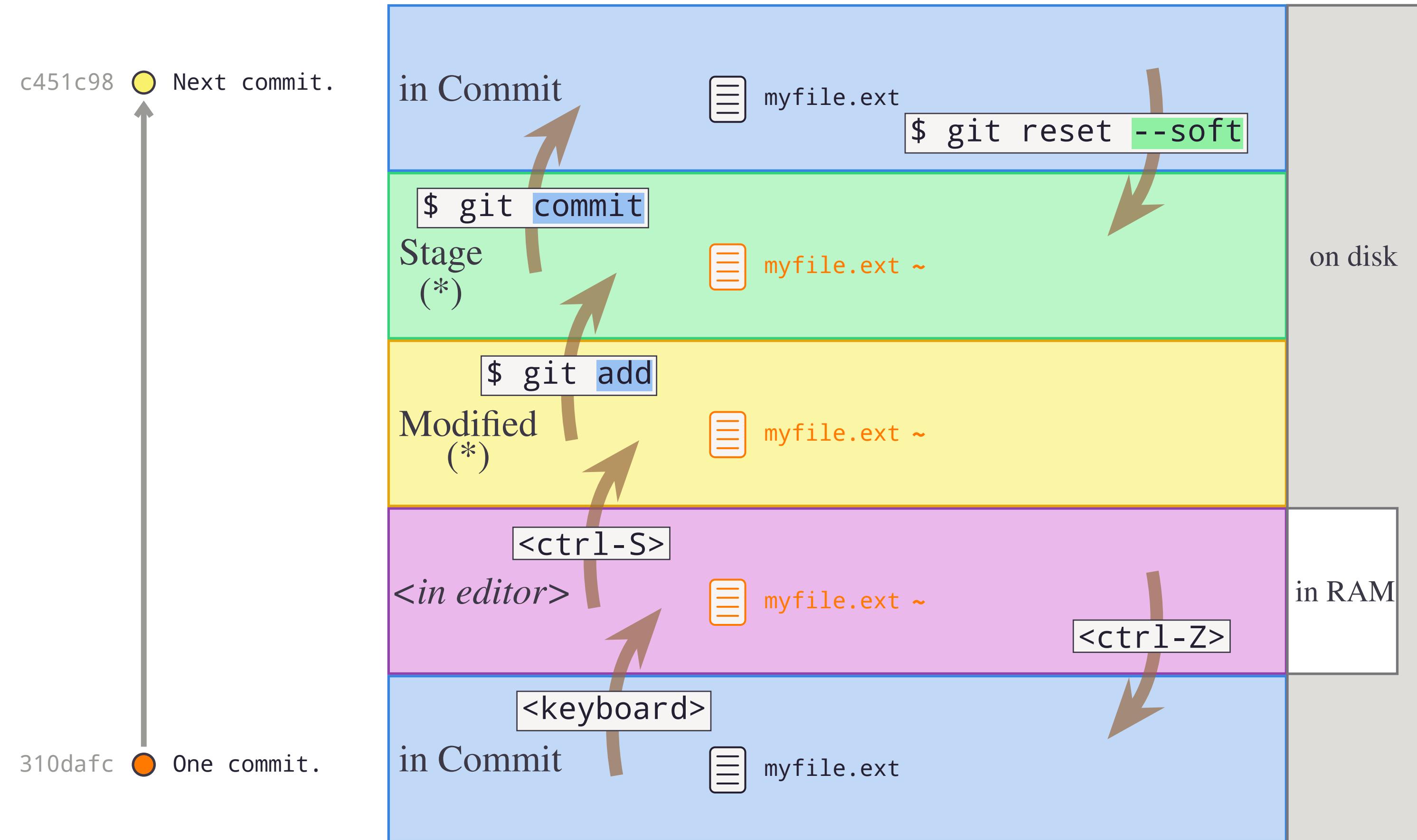
c451c98 ● Next commit.



310dafc ● One commit.

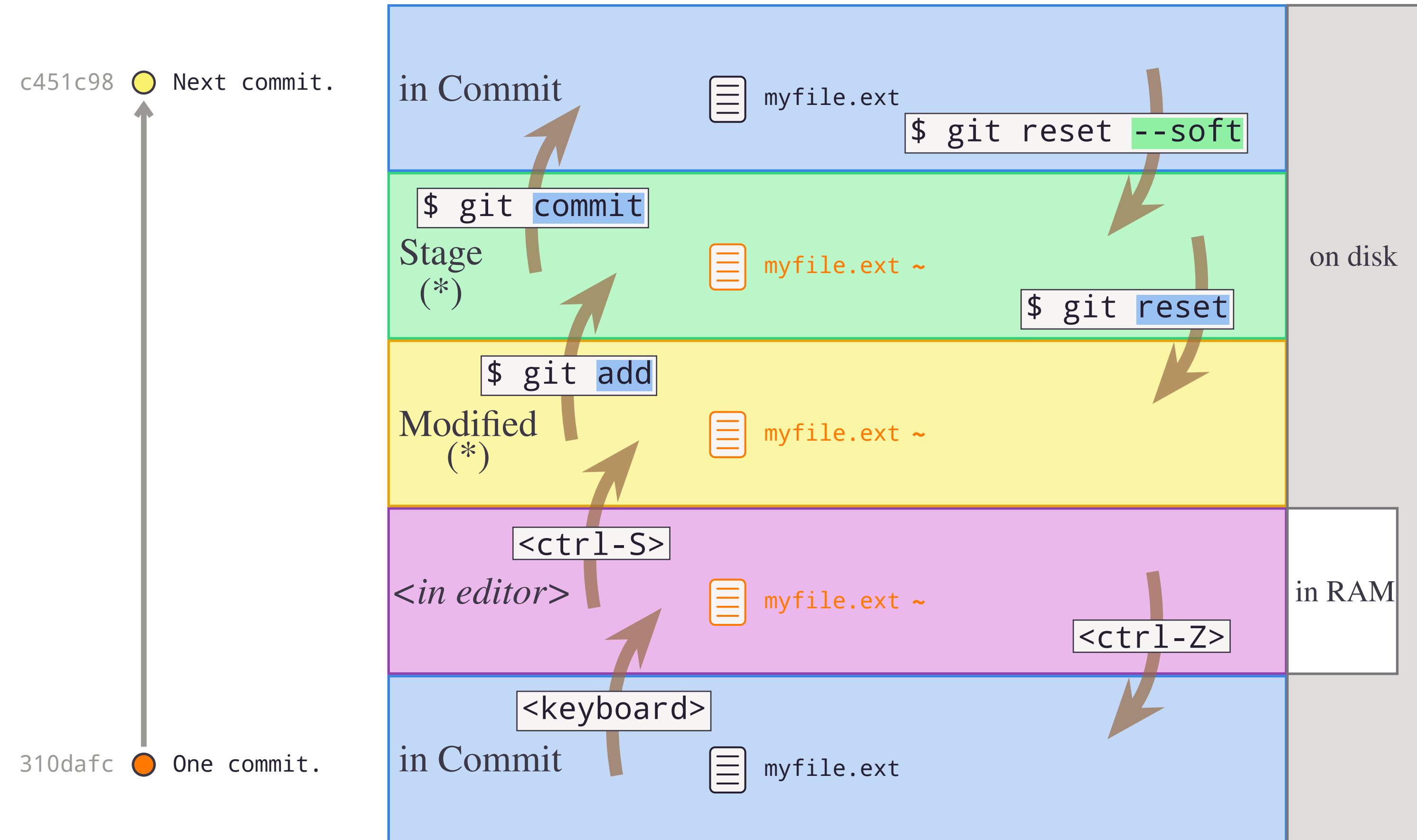
# Constructing a Commit

The Whole Process



# Constructing a Commit

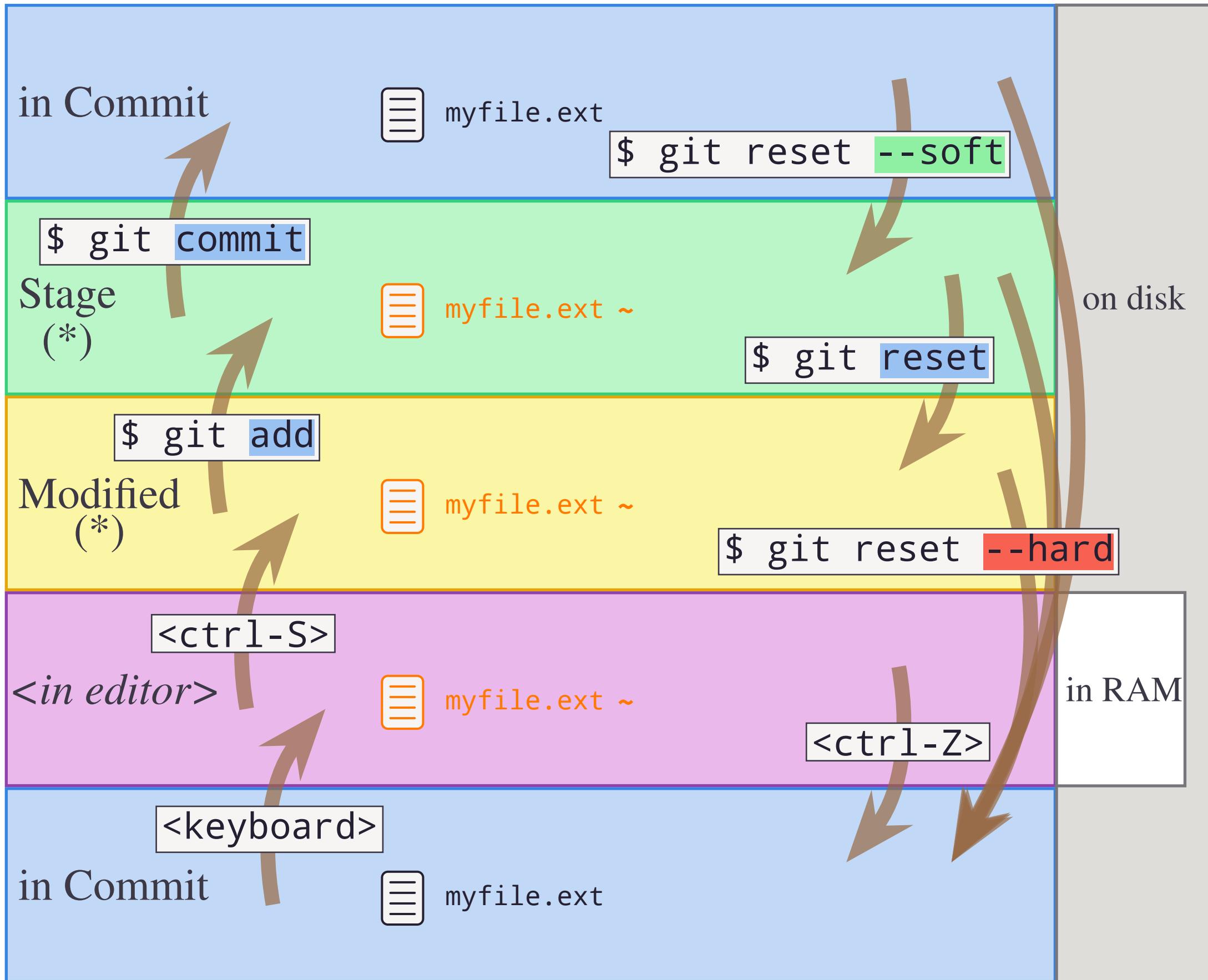
The Whole Process



# Constructing a Commit

The Whole Process

c451c98 ● Next commit.



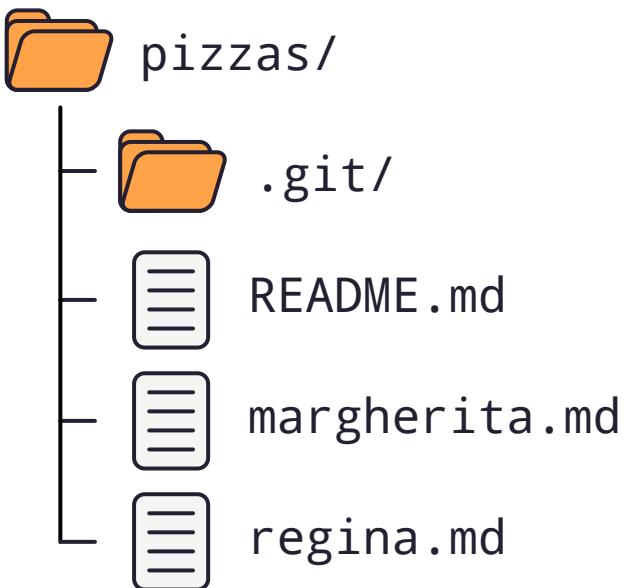
310dafc ● One commit.

# 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.

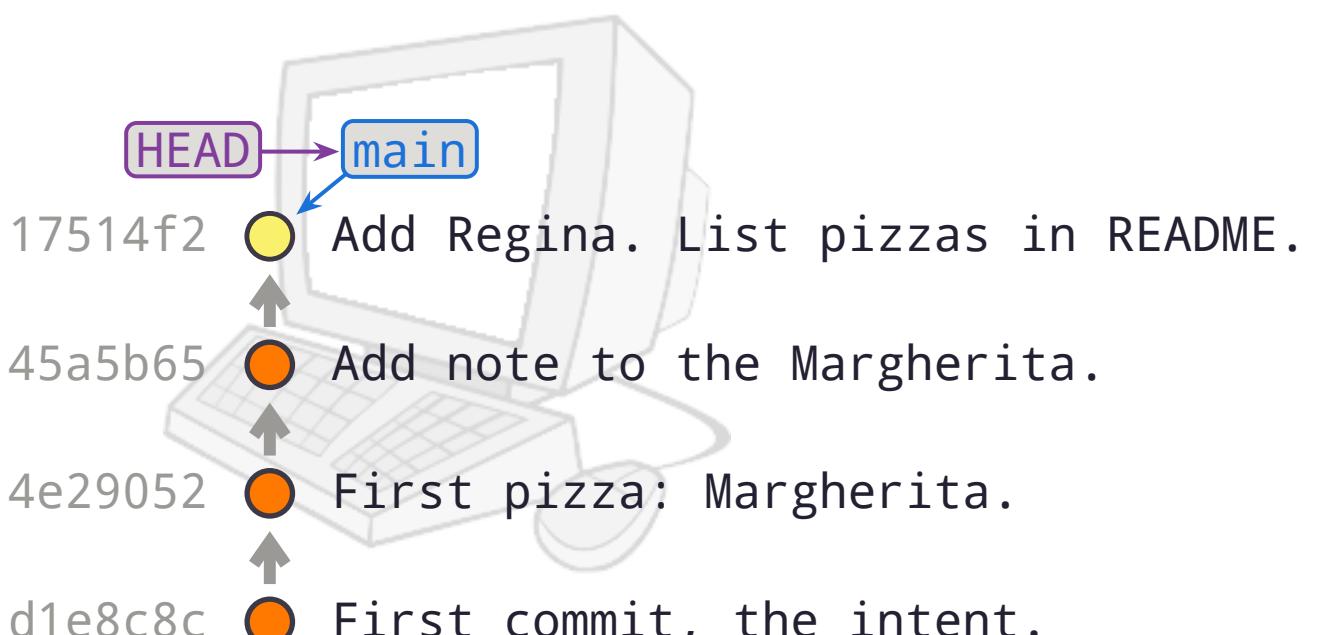
\_\_Base:\_\_ tomato sauce  
\_\_Topping:  
- Mozzarella  
- Basil

\*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.

### regina.md

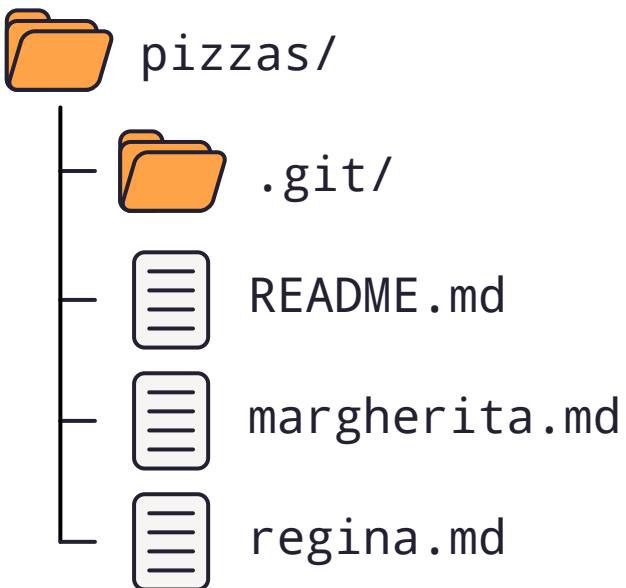
# Regina  
  
This audacious pizza  
would be named from queen  
Elena of Montenegro.  
Created by pizzaiolo  
Raffaele Esposito.

\_\_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:

- 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
- Basil

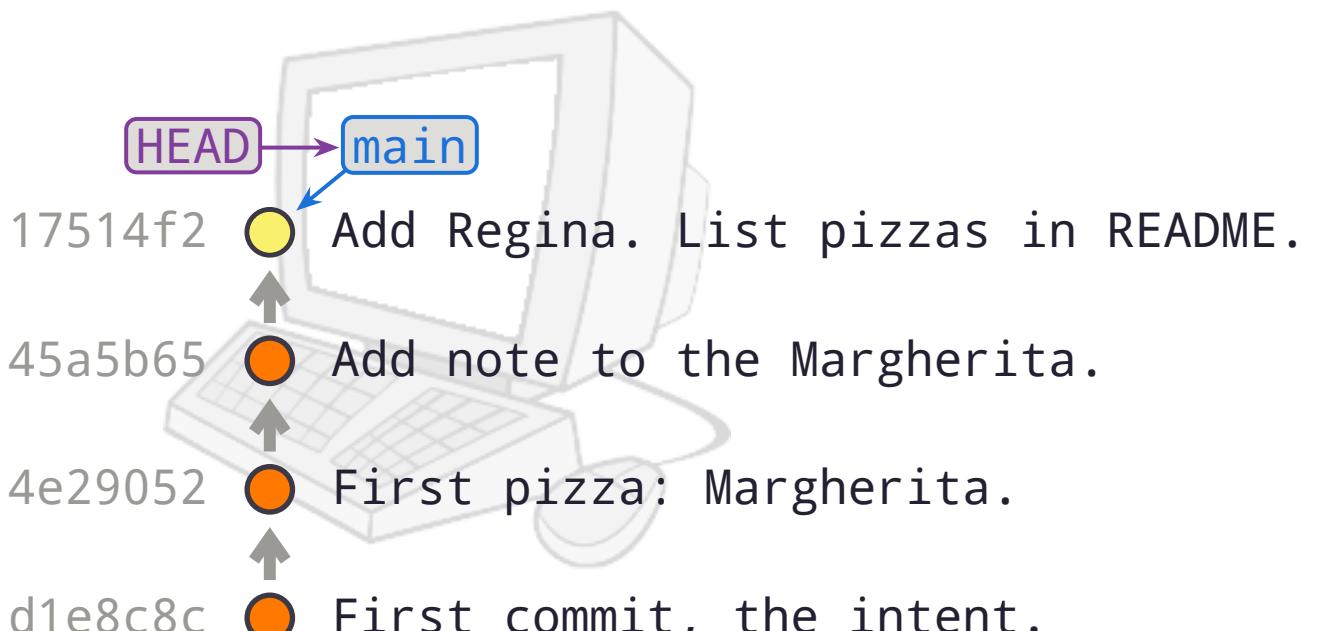
  
\*Note:  
It is said that this pizza  
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Nevertheless, it is always good  
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### regina.md

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

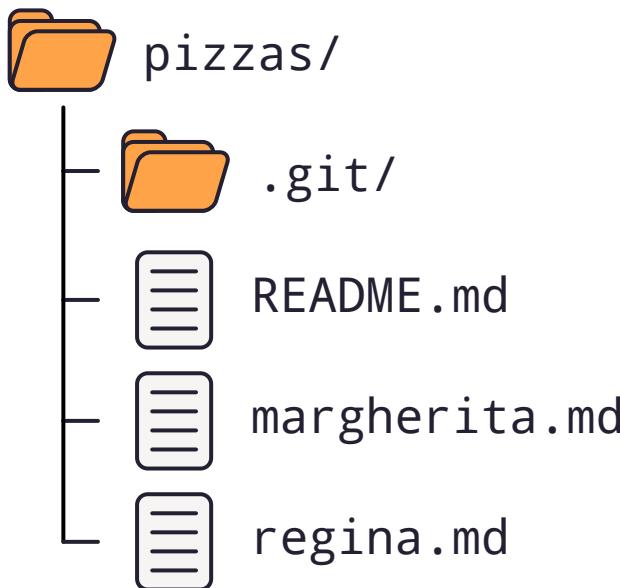
Base: tomato sauce  
Topping:

- Mozzarella
- Ham
- Mushrooms

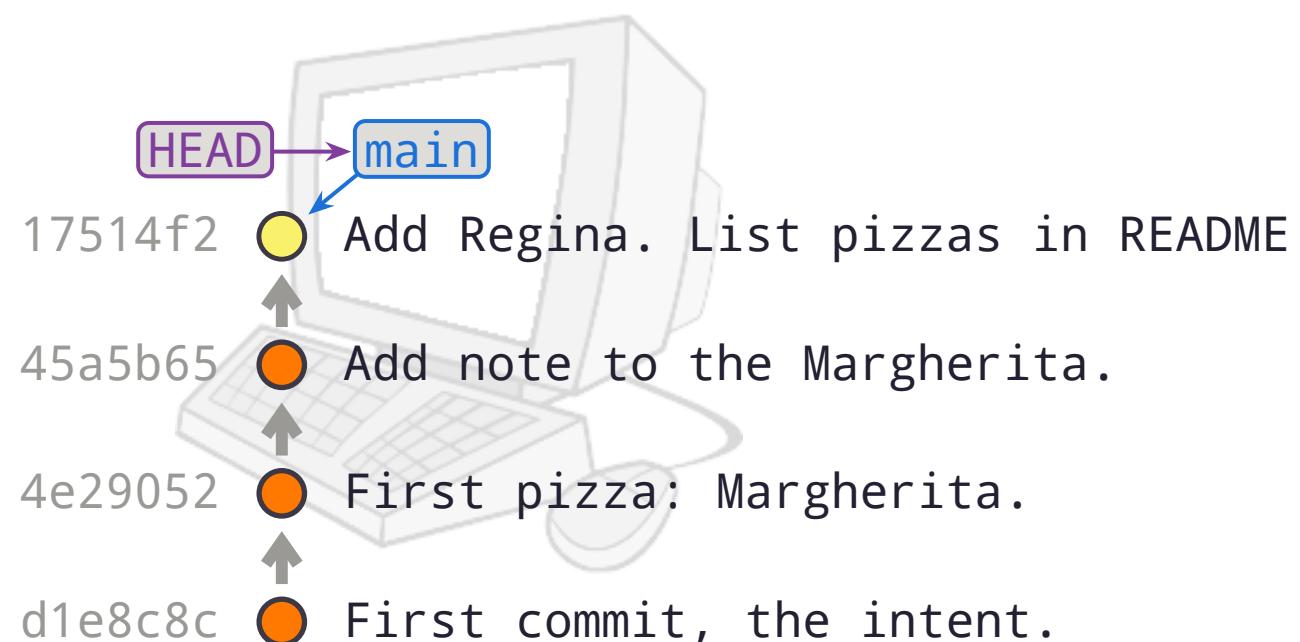


# Share Your Project

## Creating a Remote Repository

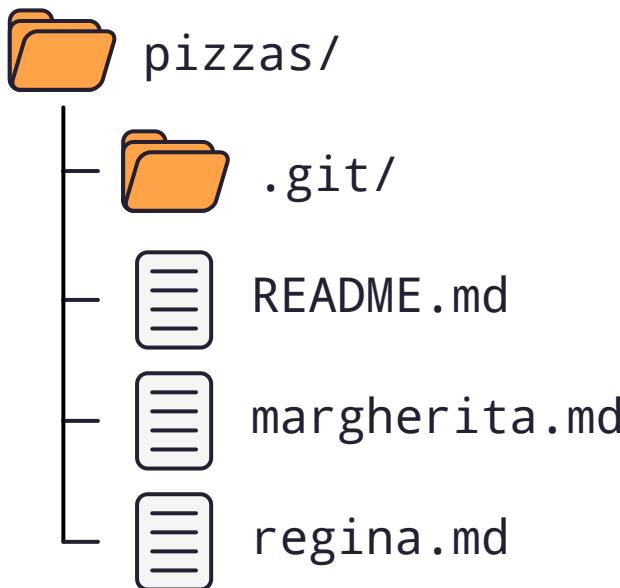


<https://gitlab.com/MyAccount/>

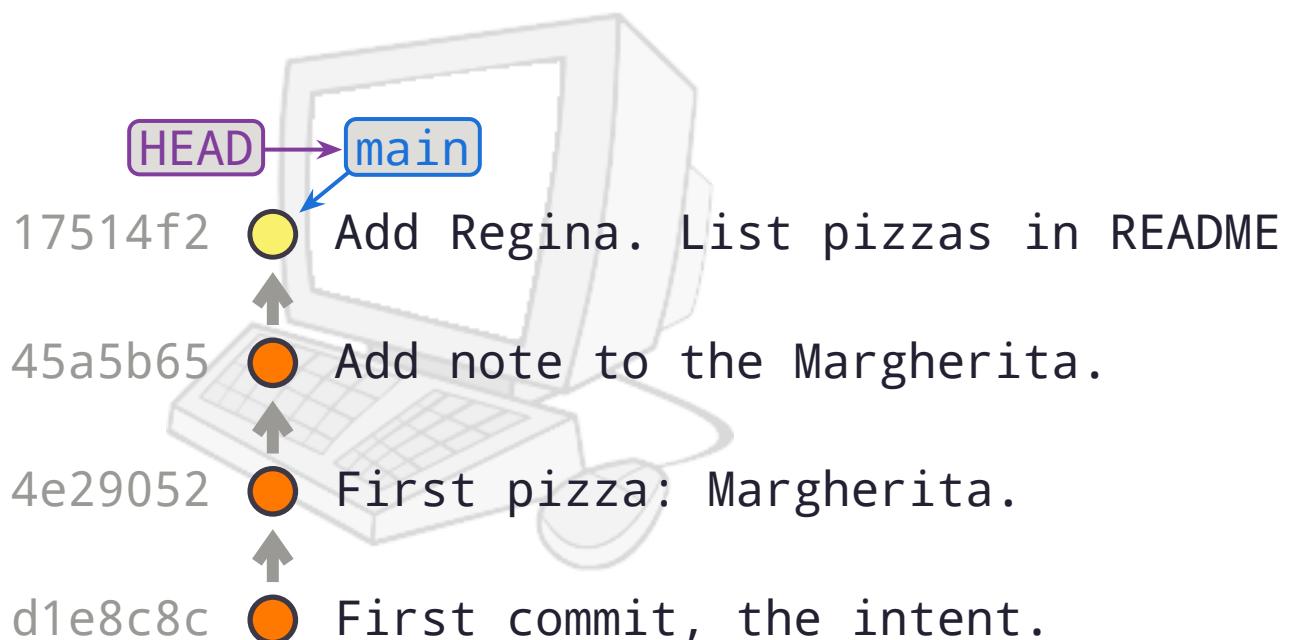


# Share Your Project

## Creating a Remote Repository

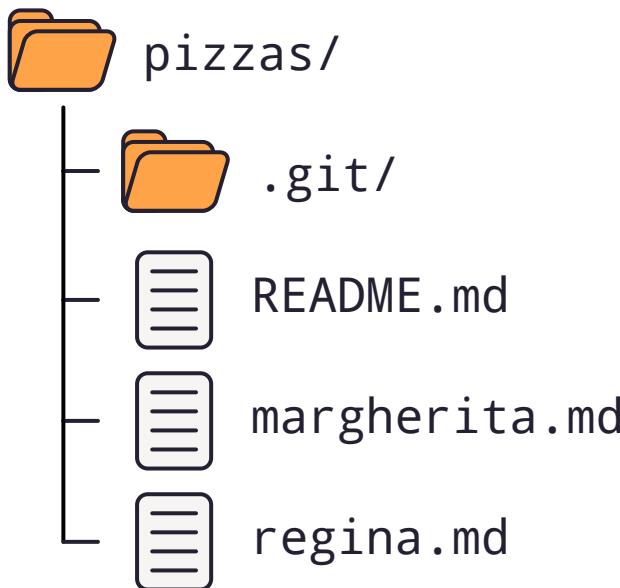


<https://gitlab.com/MyAccount/Pizzas>



# Share Your Project

## Creating a Remote Repository



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

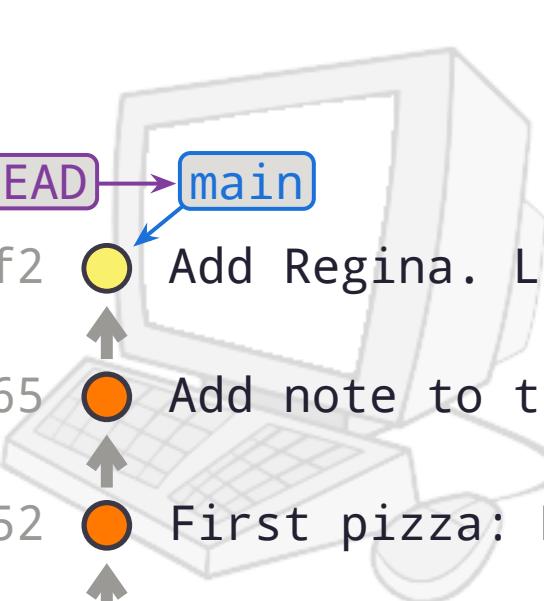


HEAD → main

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

HEAD → main

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

A faint, semi-transparent icon of a computer keyboard is positioned behind the commit history.

# Share Your Project

## Creating a Remote Repository

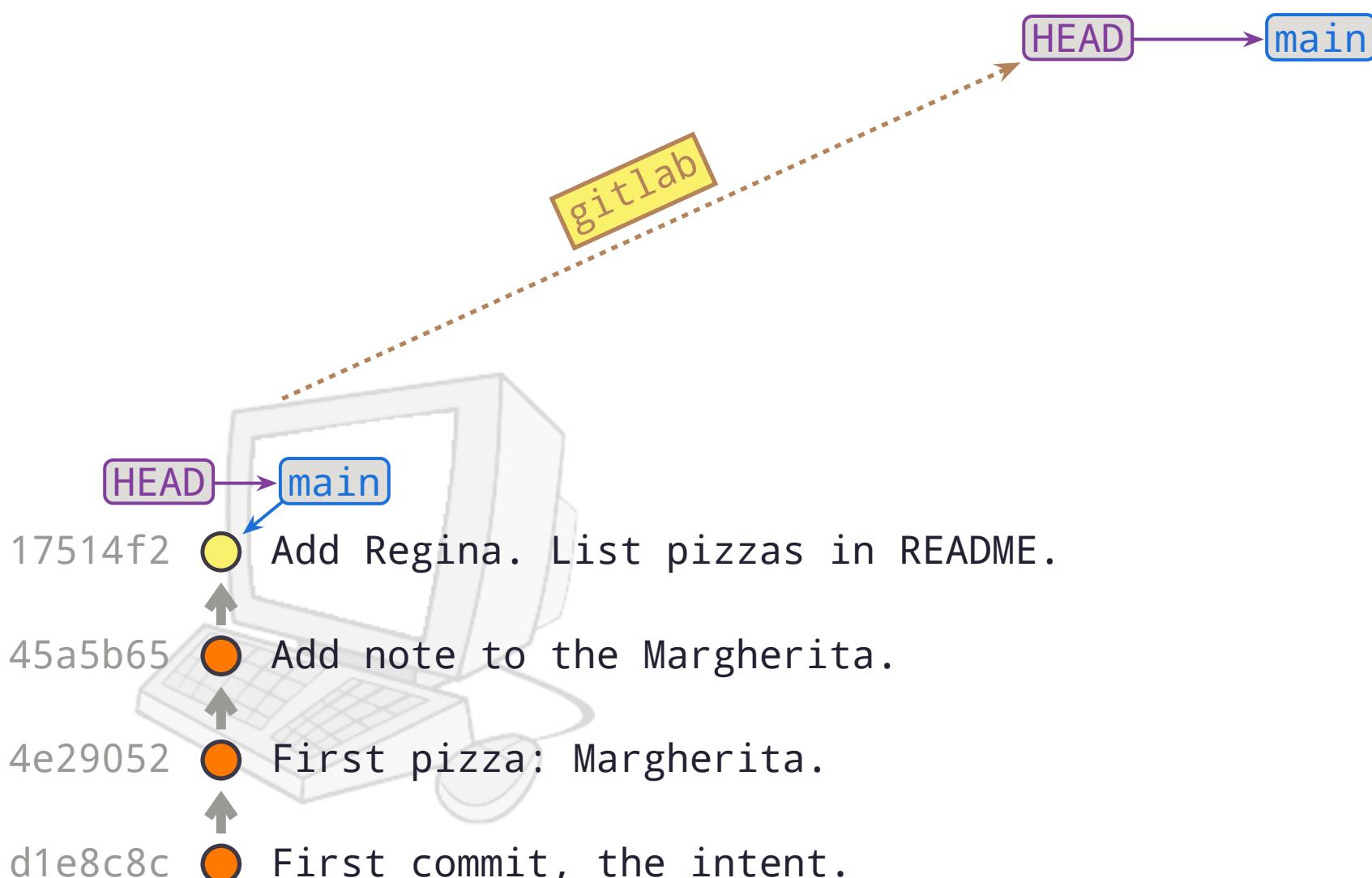


README.md

margherita.md

regina.md

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

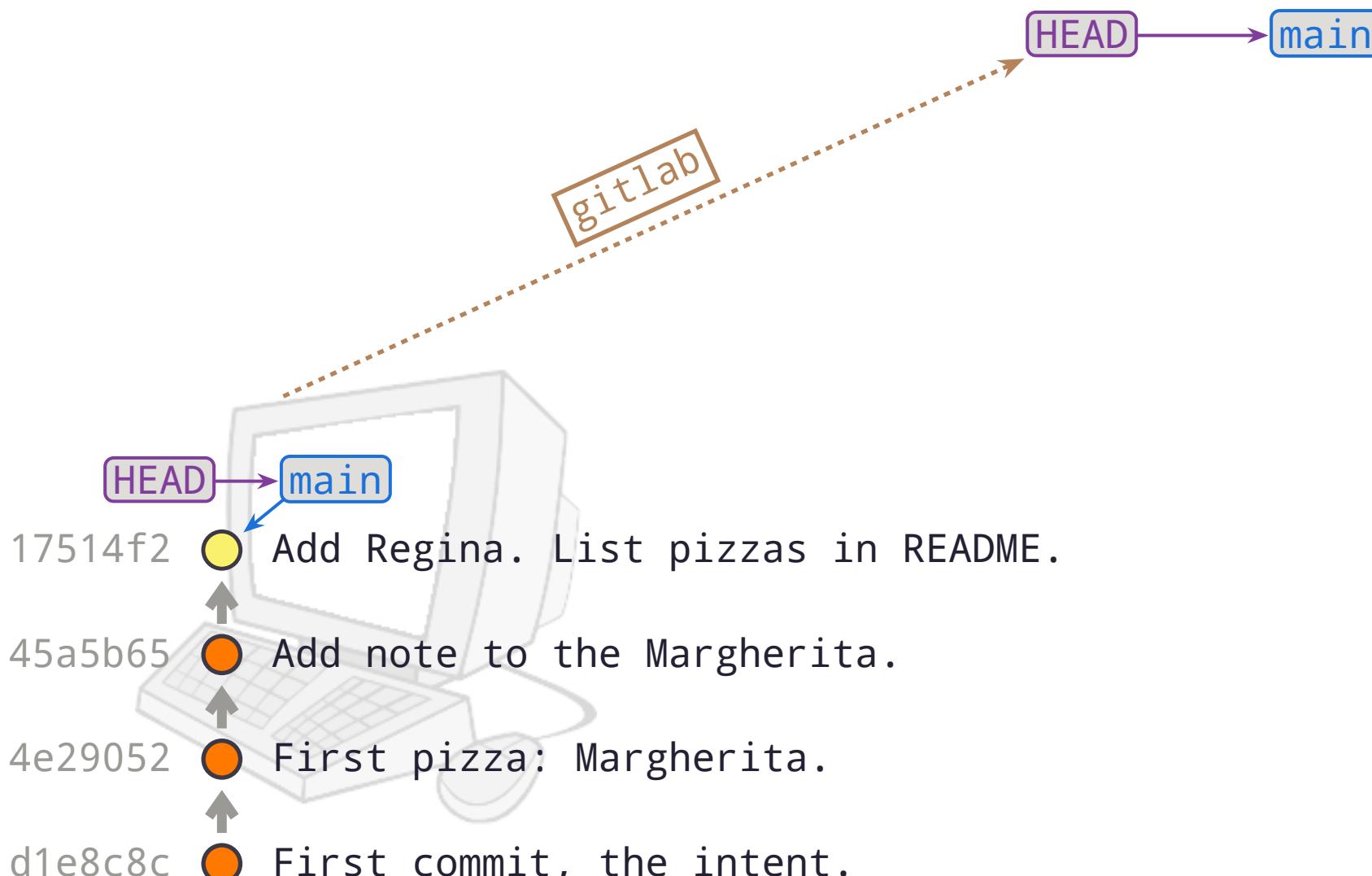


# Share Your Project

## Creating a Remote Repository



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



# Share Your Project

## Creating a Remote Repository

pizzas/

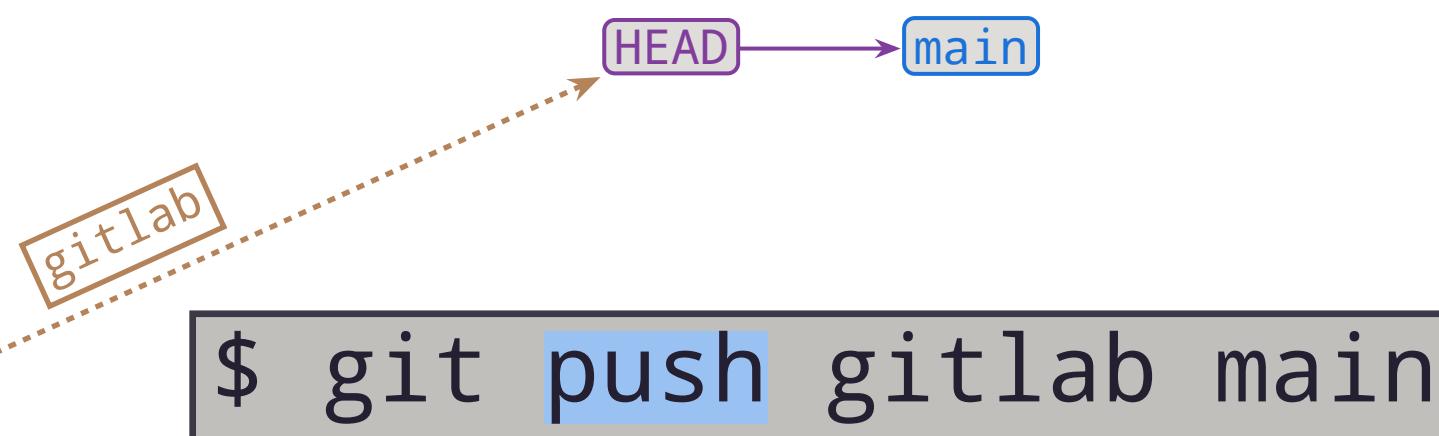
  └ .git/

    └ README.md

    └ margherita.md

    └ regina.md

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



HEAD → main

17514f2 Add Regina. List pizzas in README.

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# Share Your Project

## Creating a Remote Repository

pizzas/

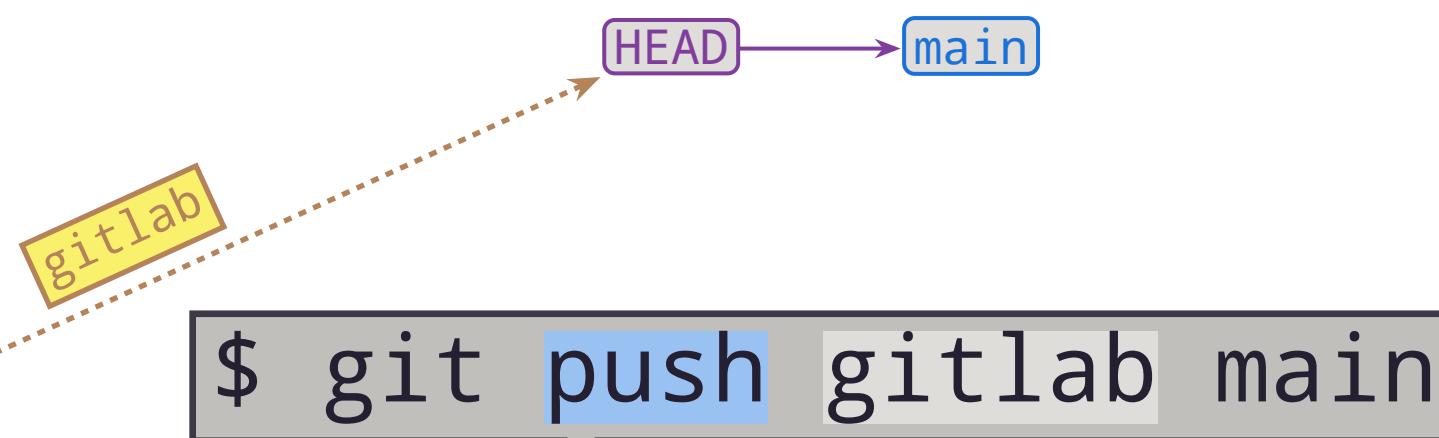
  └ .git/

    └ README.md

    └ margherita.md

    └ regina.md

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



HEAD → main

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# Share Your Project

## Creating a Remote Repository

pizzas/

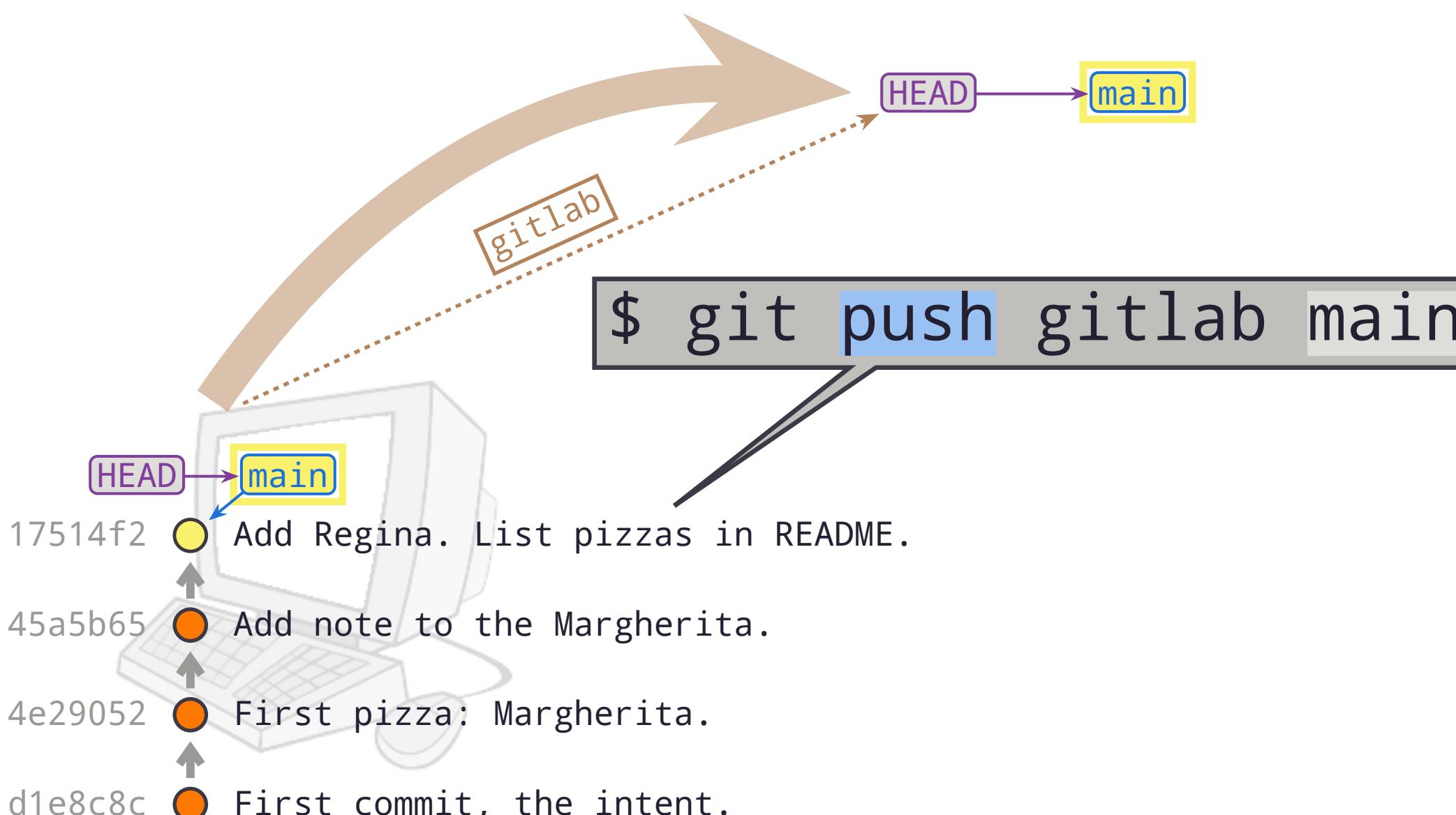
  └ .git/

    └ README.md

    └ margherita.md

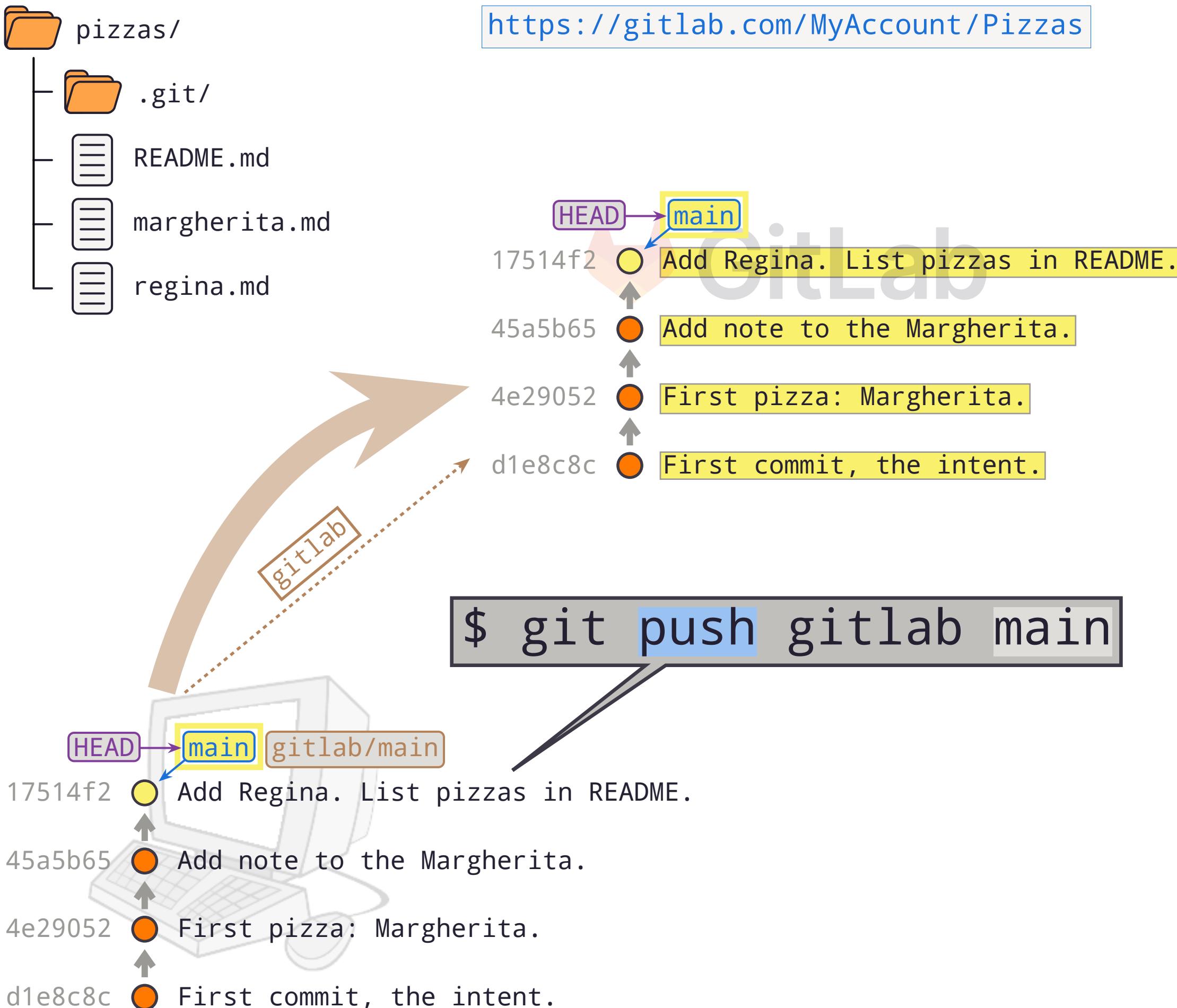
    └ regina.md

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



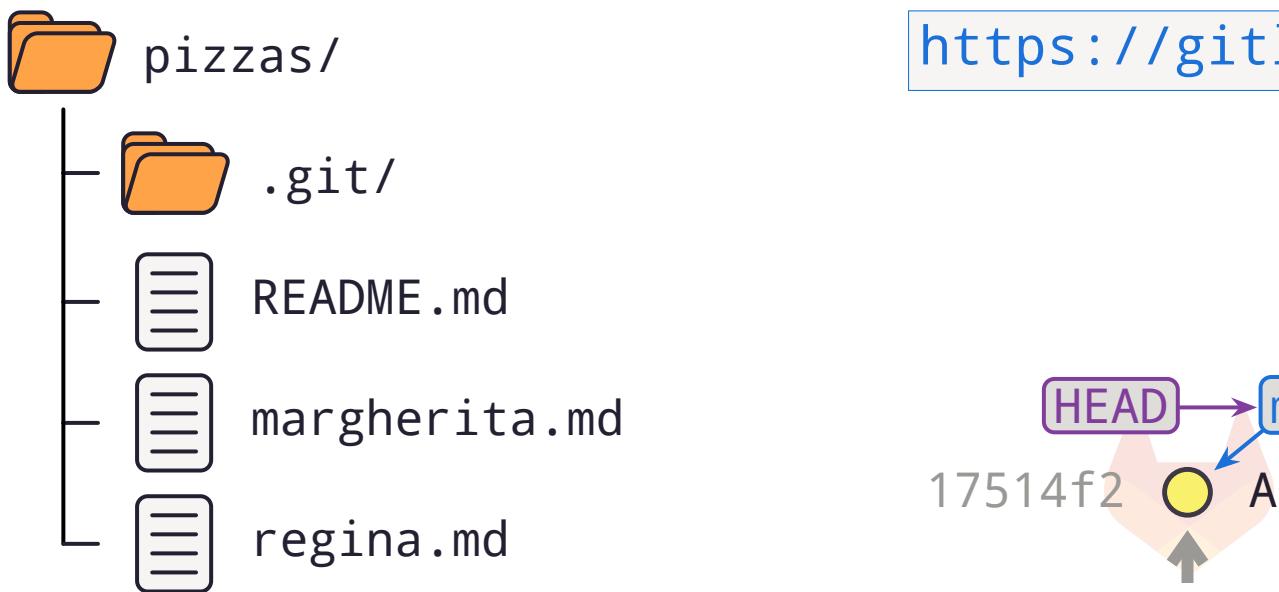
# Share Your Project

## Creating a Remote Repository

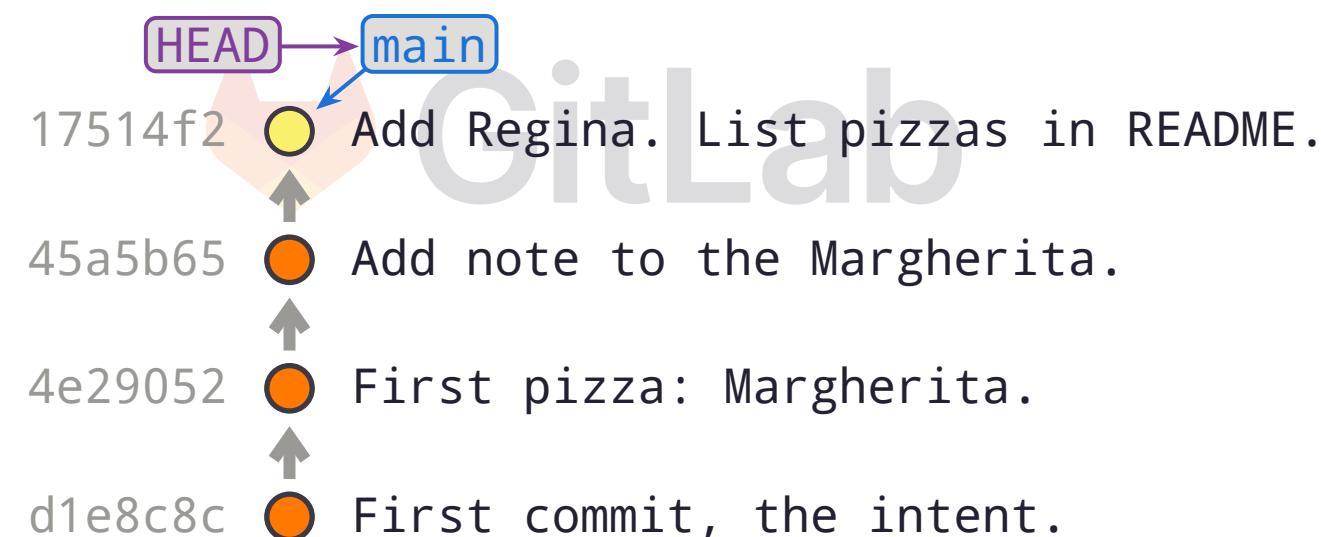


# Share Your Project

## Creating a Remote Repository

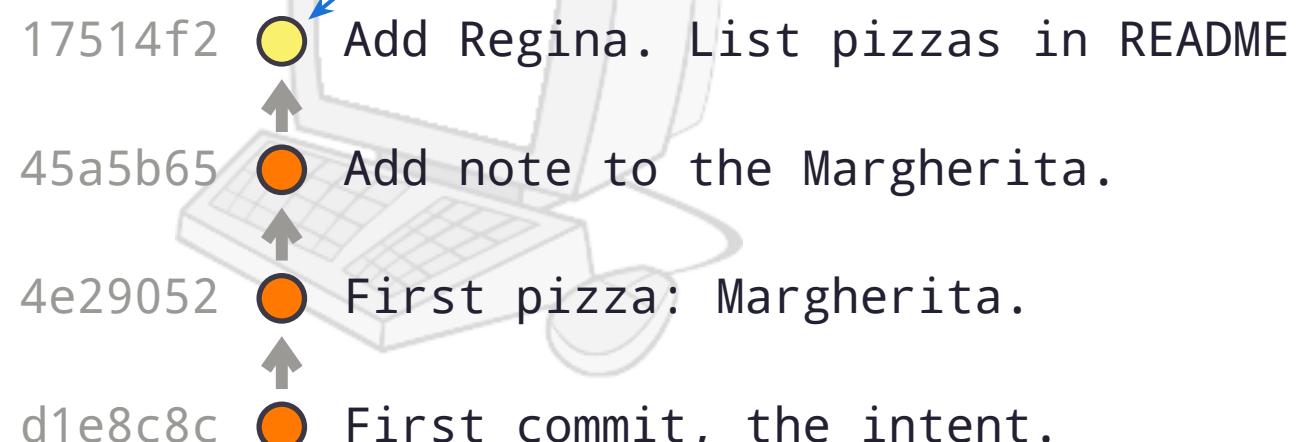


<https://gitlab.com/MyAccount/Pizzas>



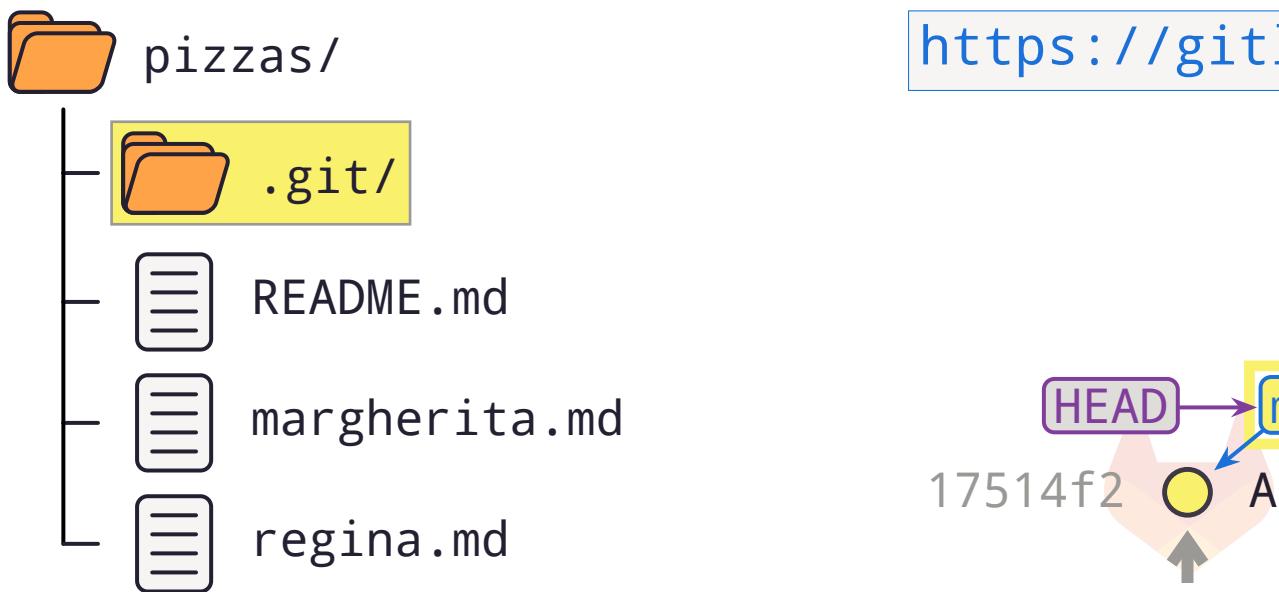
gitlab

HEAD → main gitlab/main

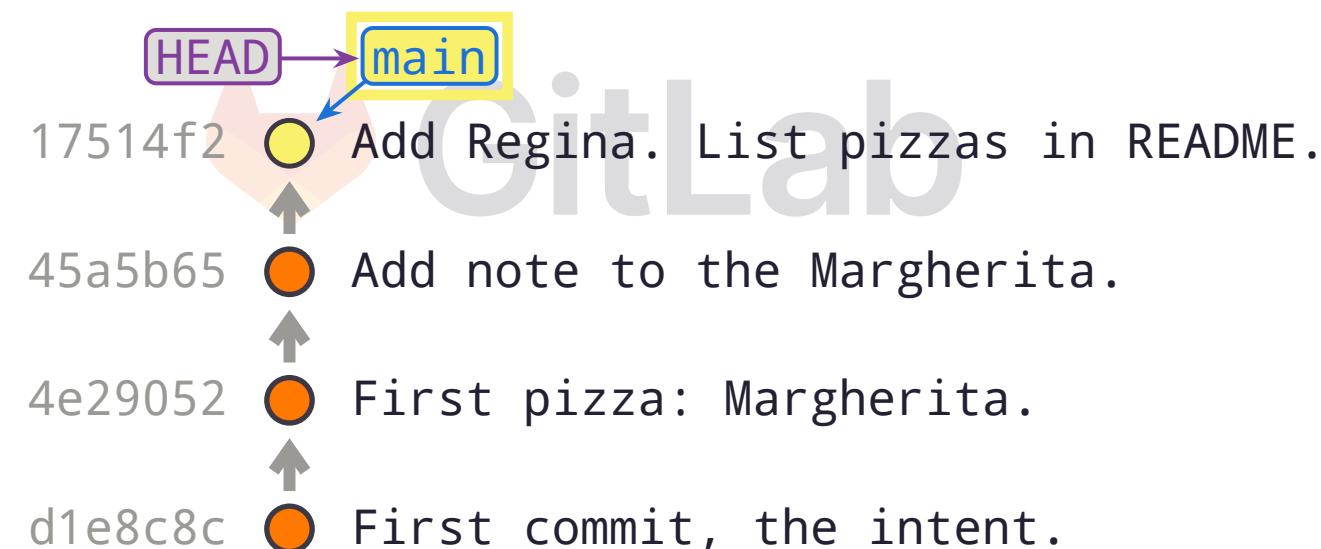


# Share Your Project

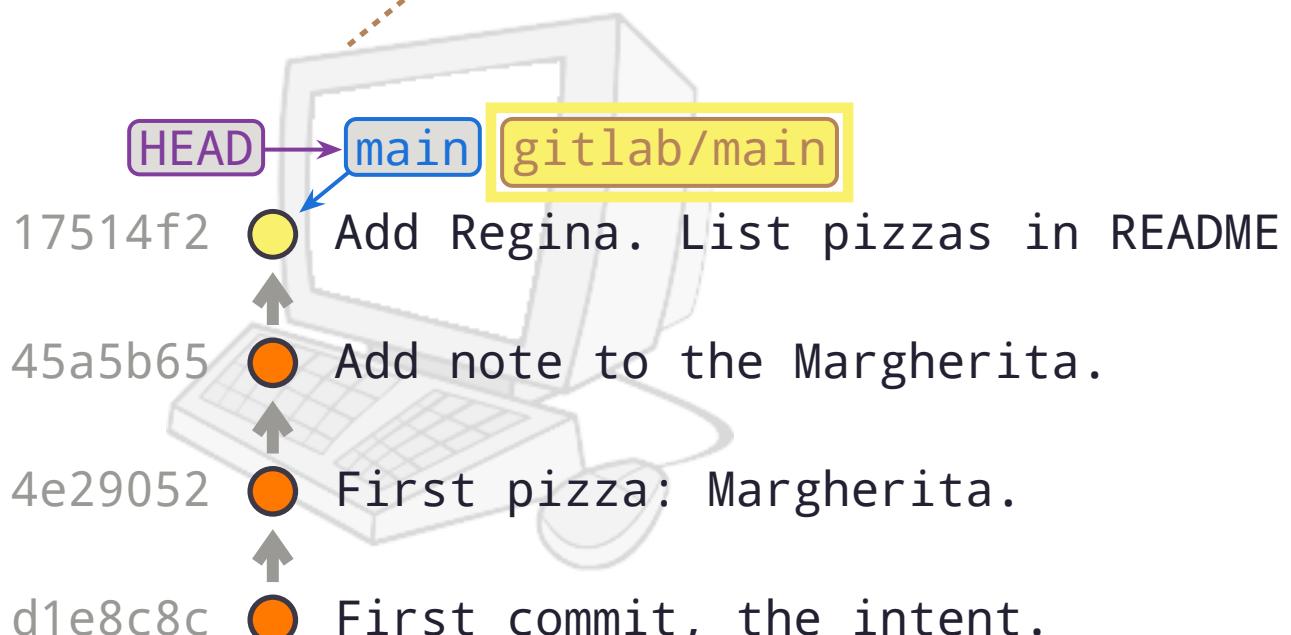
## Creating a Remote Repository



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

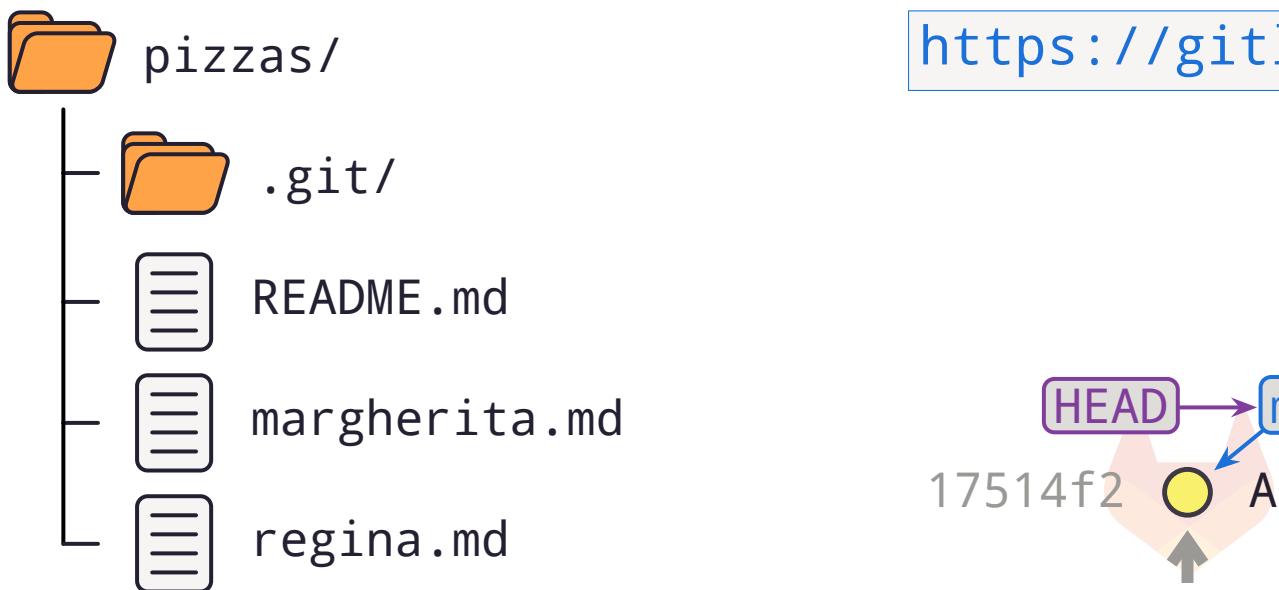


gitlab

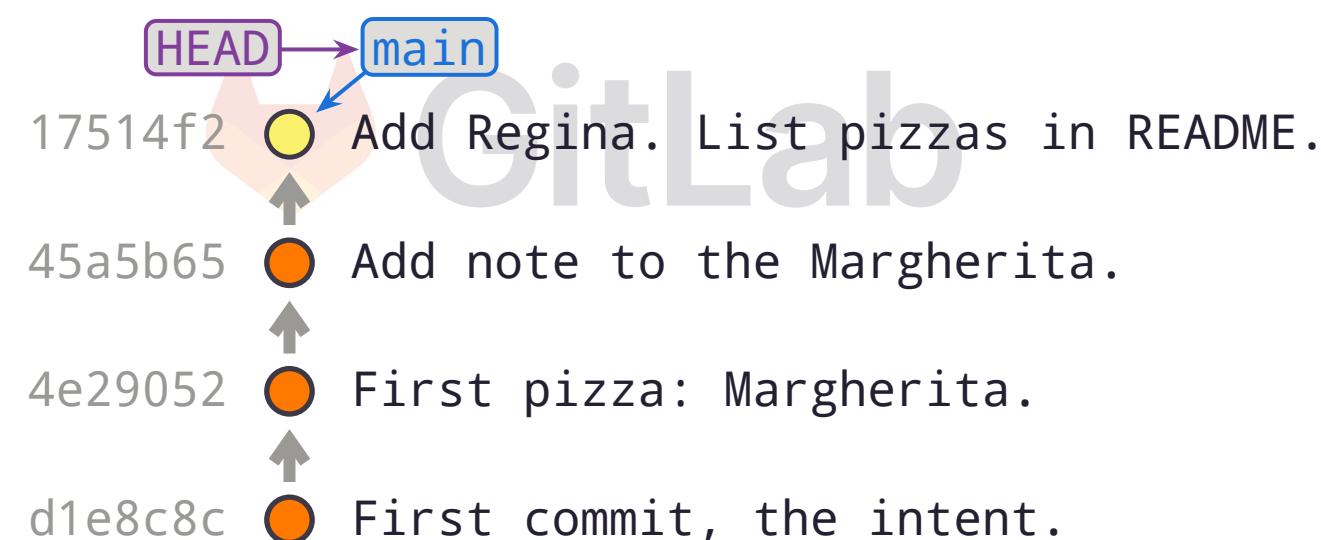


# Share Your Project

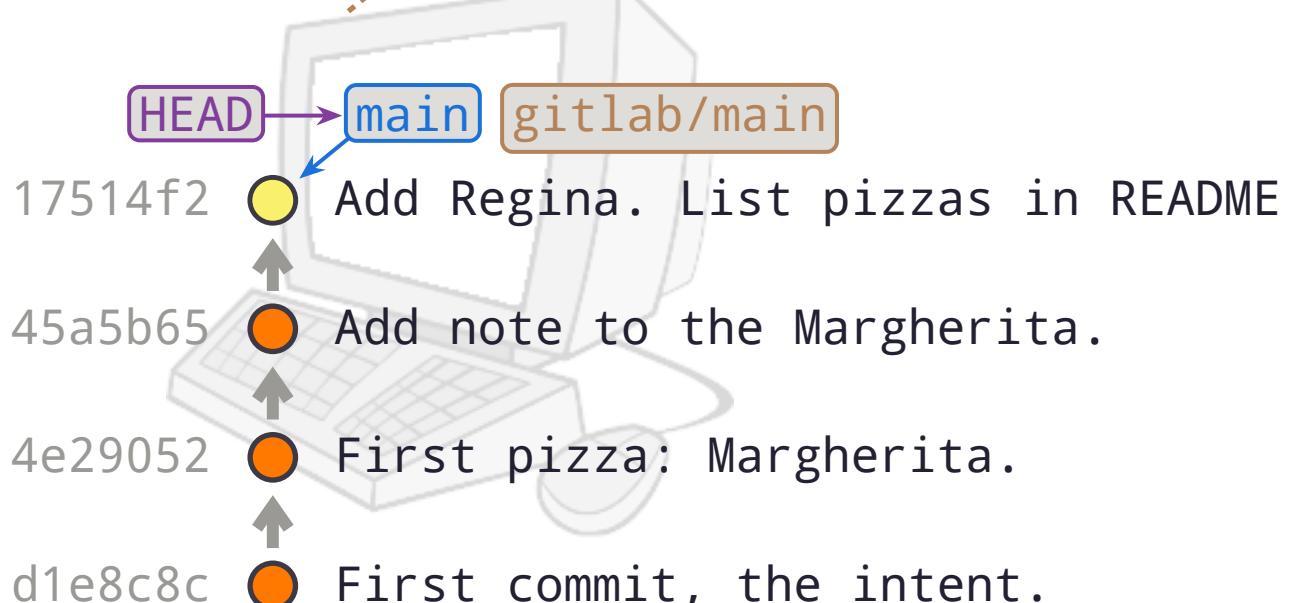
## Creating a Remote Repository



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

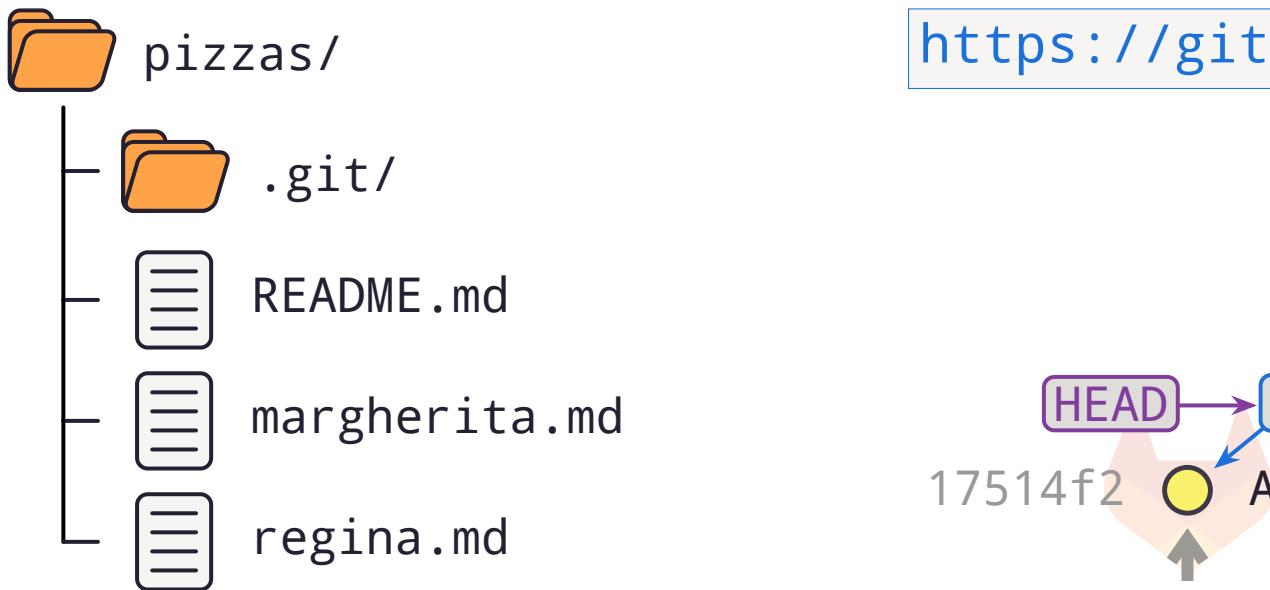


gitlab



# Share Your Project

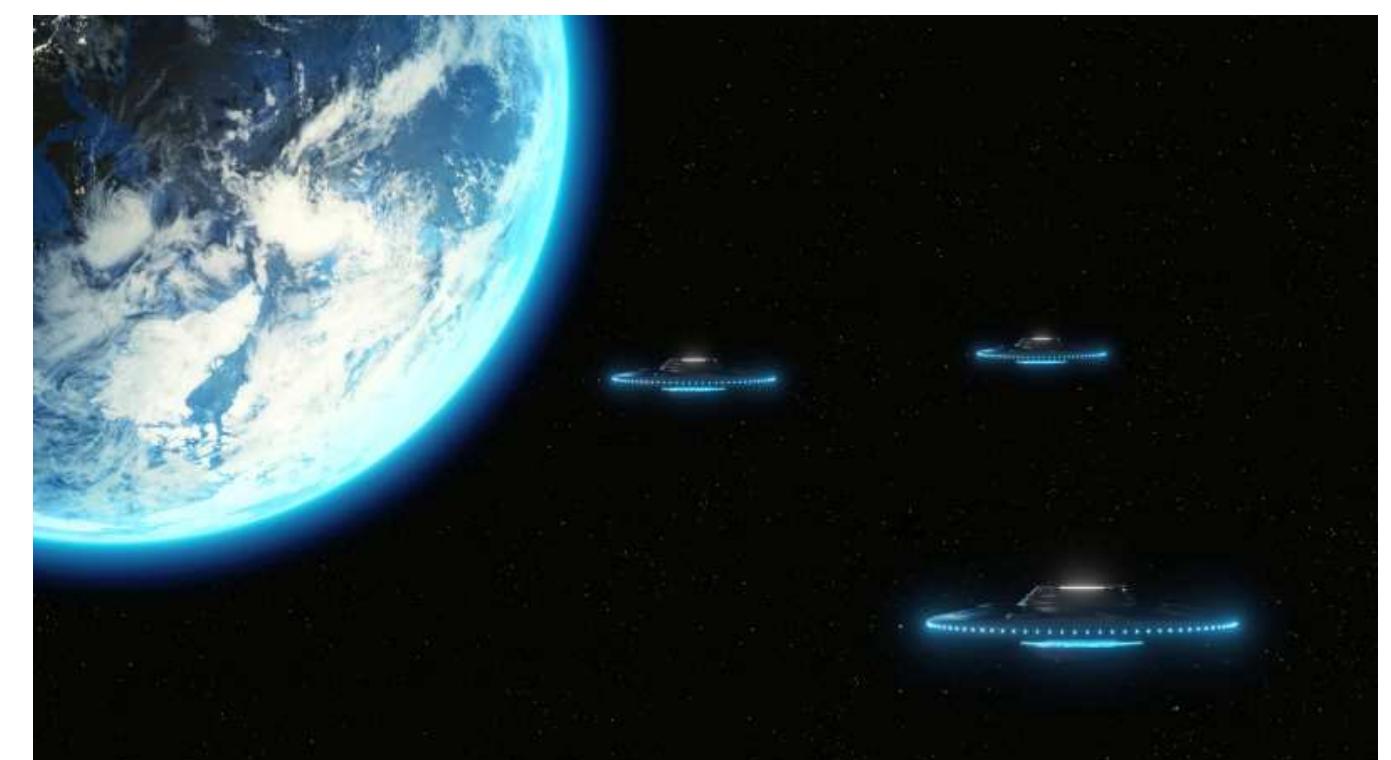
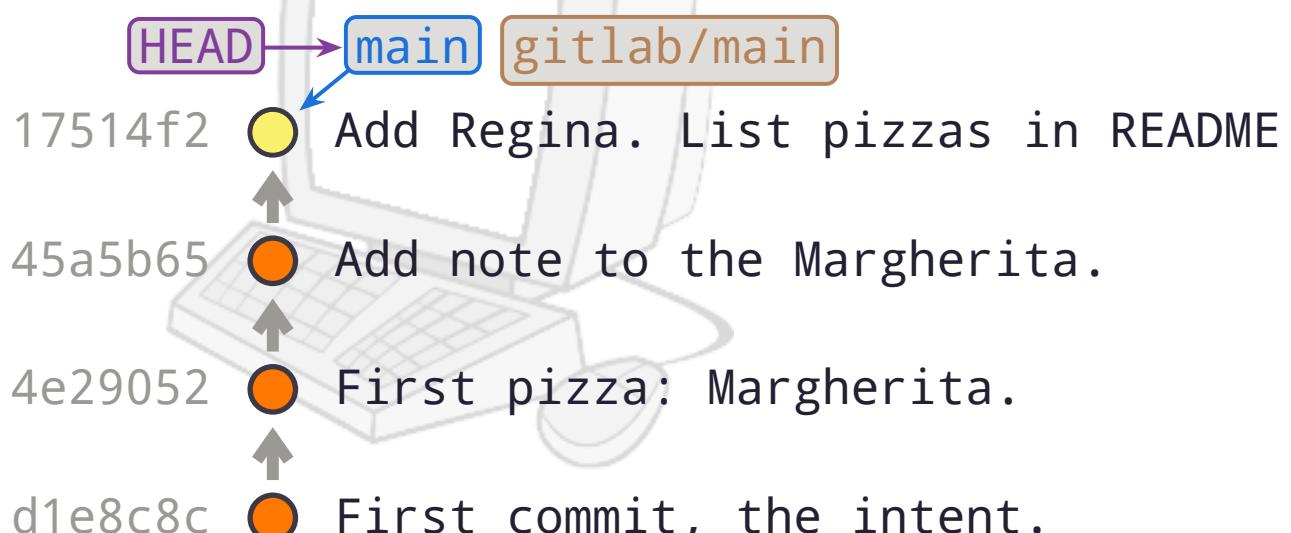
## Creating a Remote Repository



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



gitlab

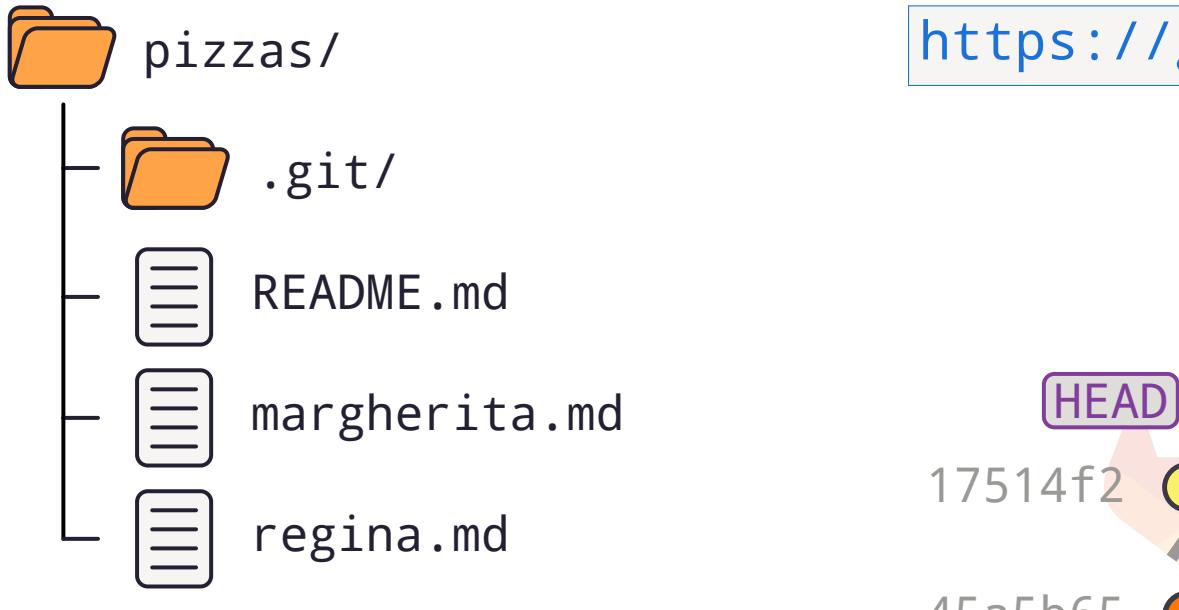


# You're Not Alone

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# Maintain Your Project

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

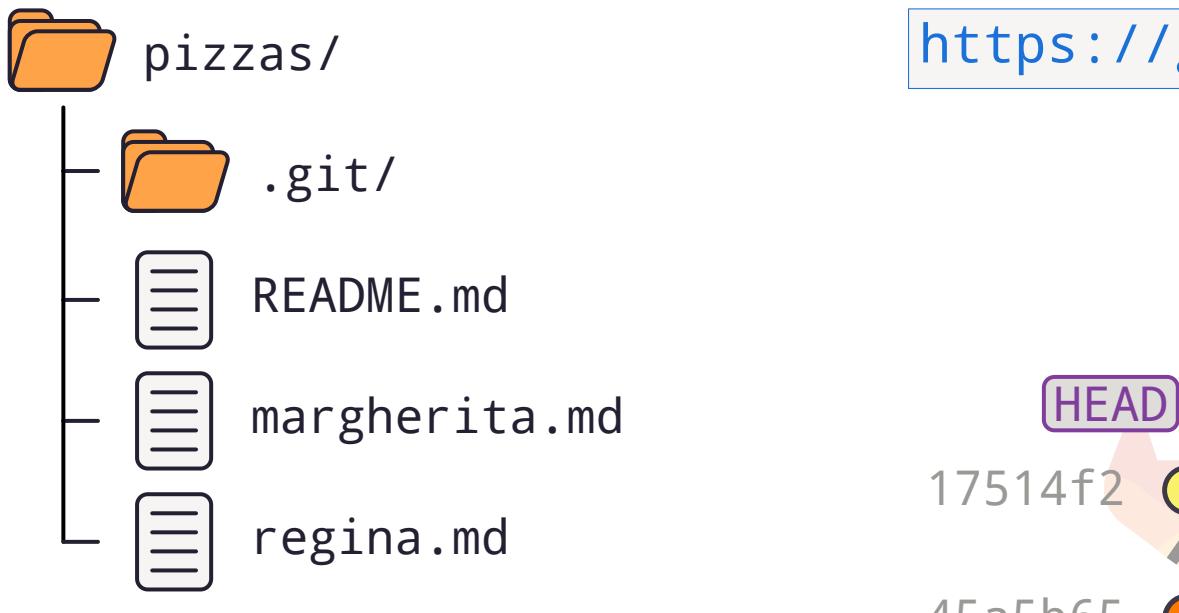


gitlab

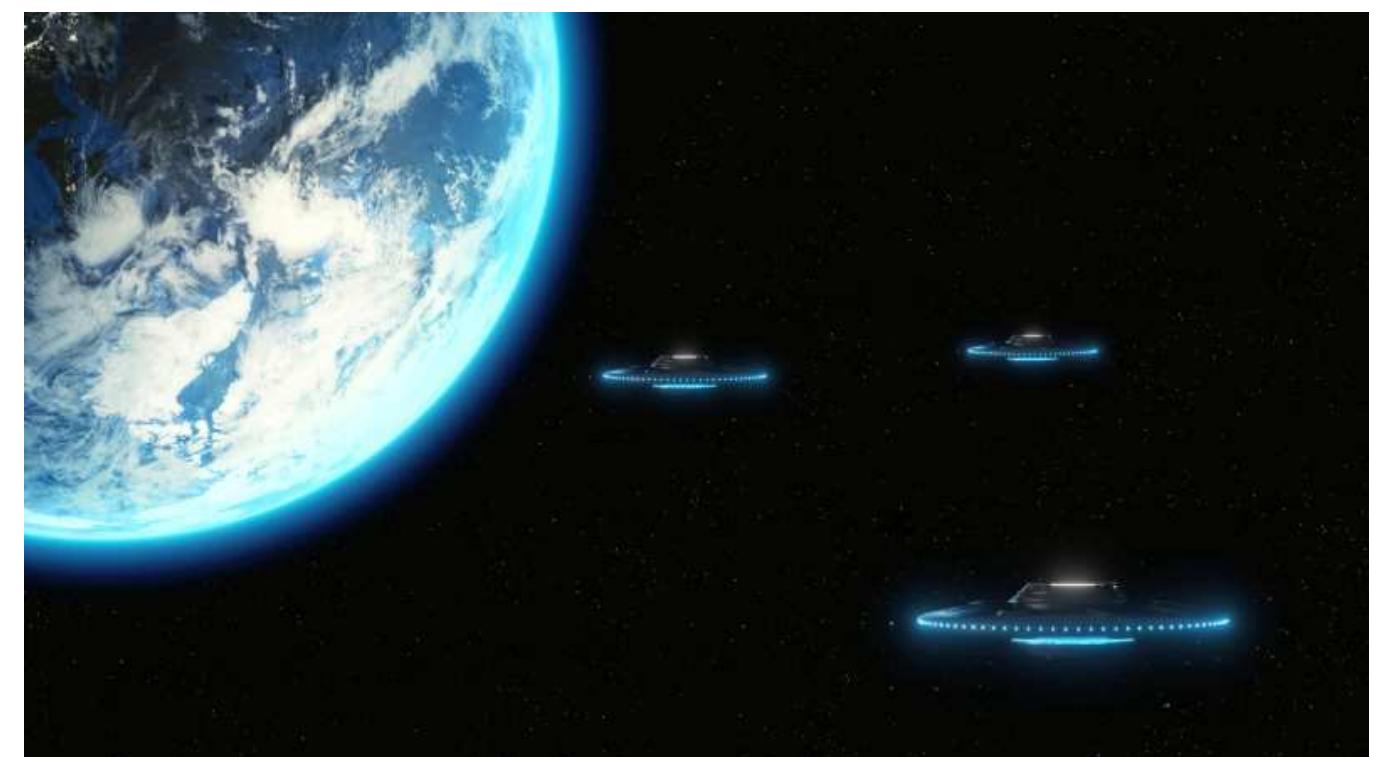
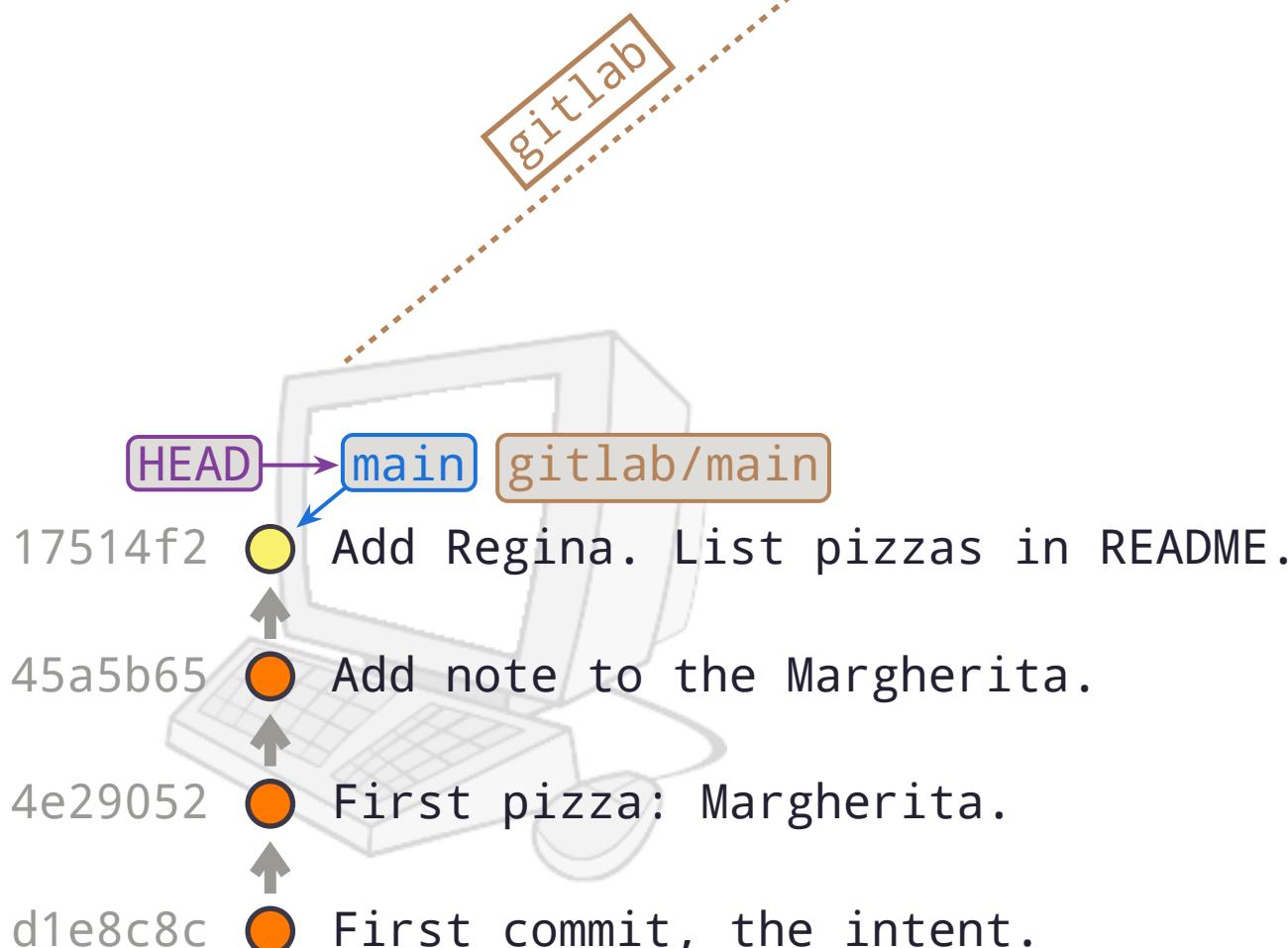


# Maintain Your Project

You're Not Alone.

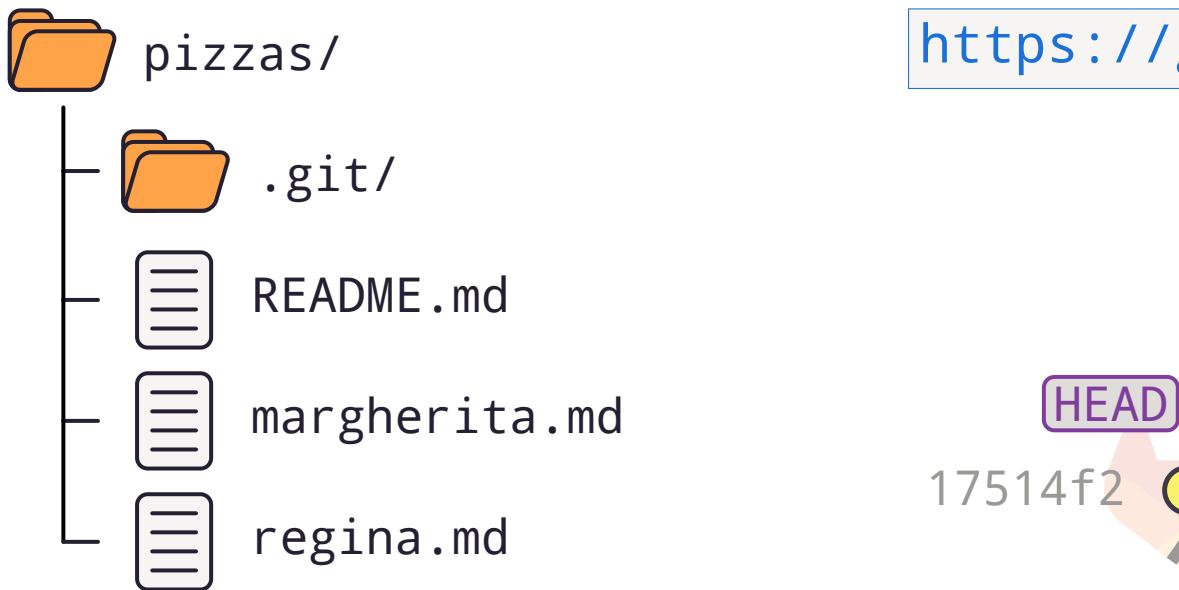


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# Maintain Your Project

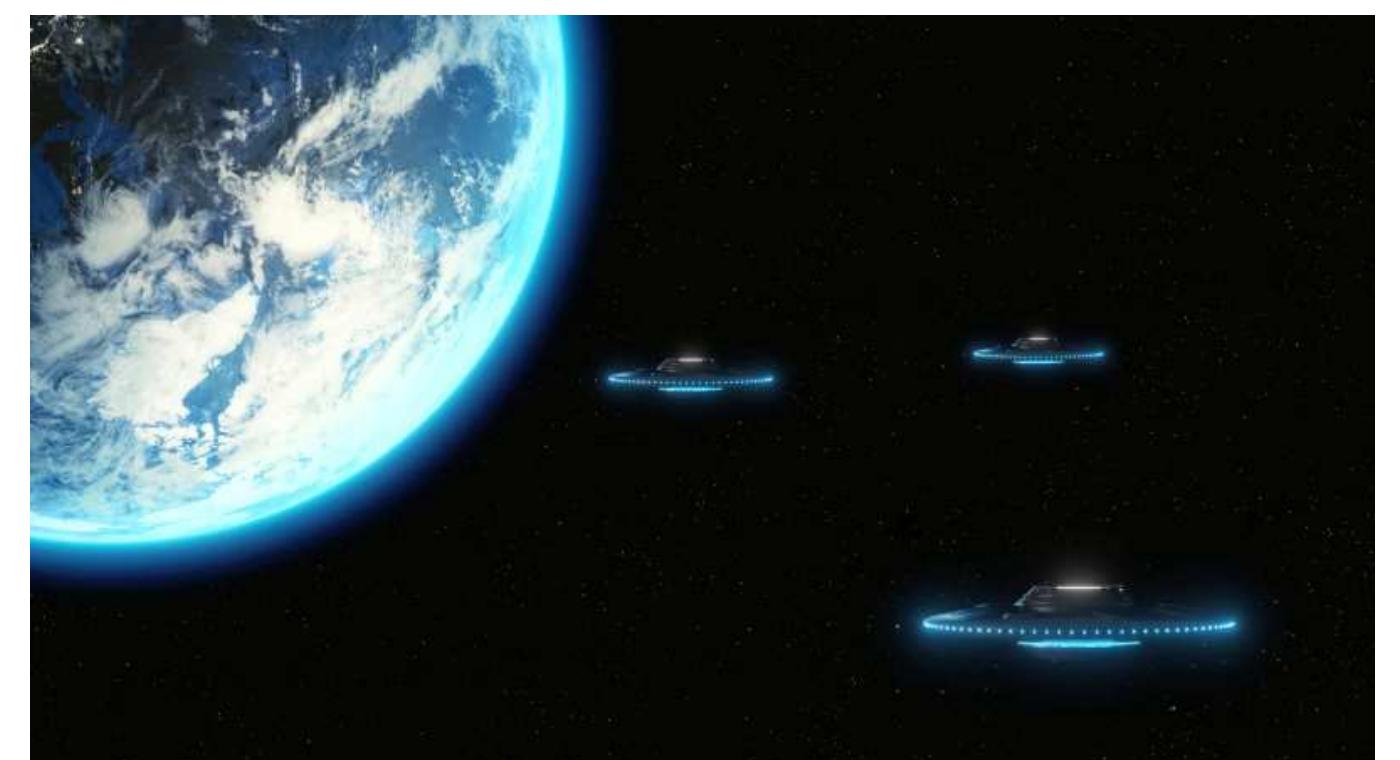
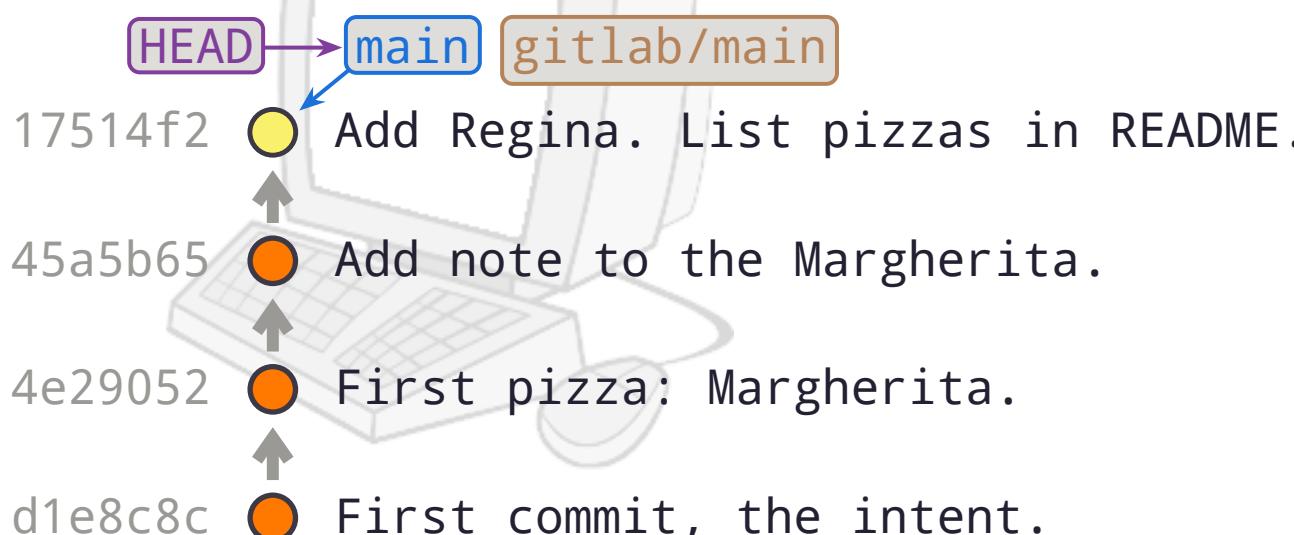
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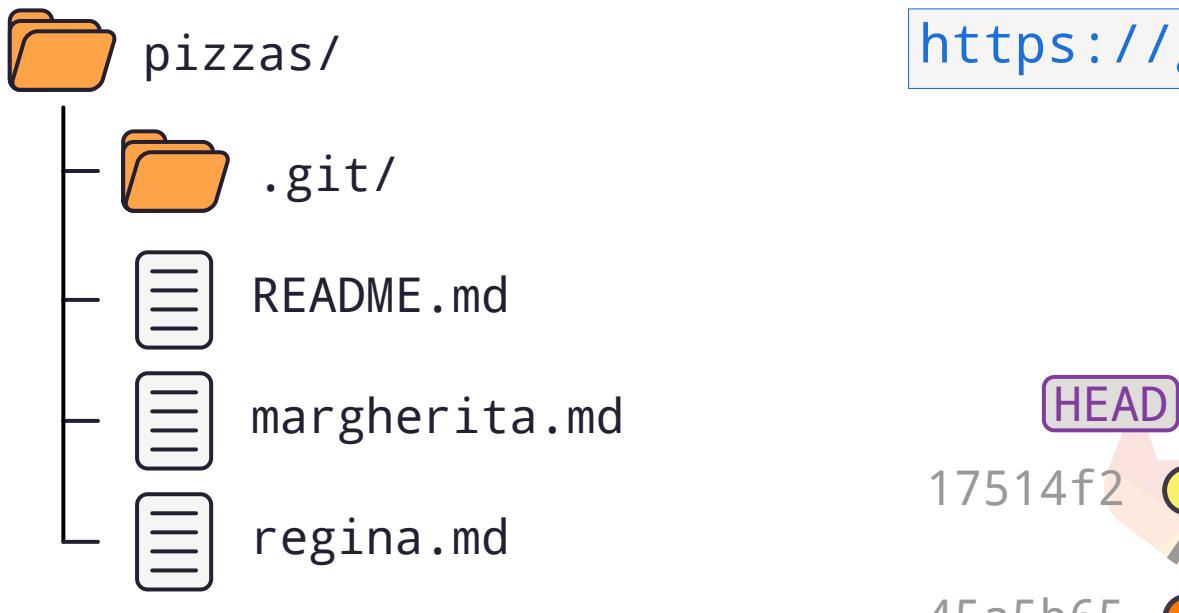


gitlab



# Maintain Your Project

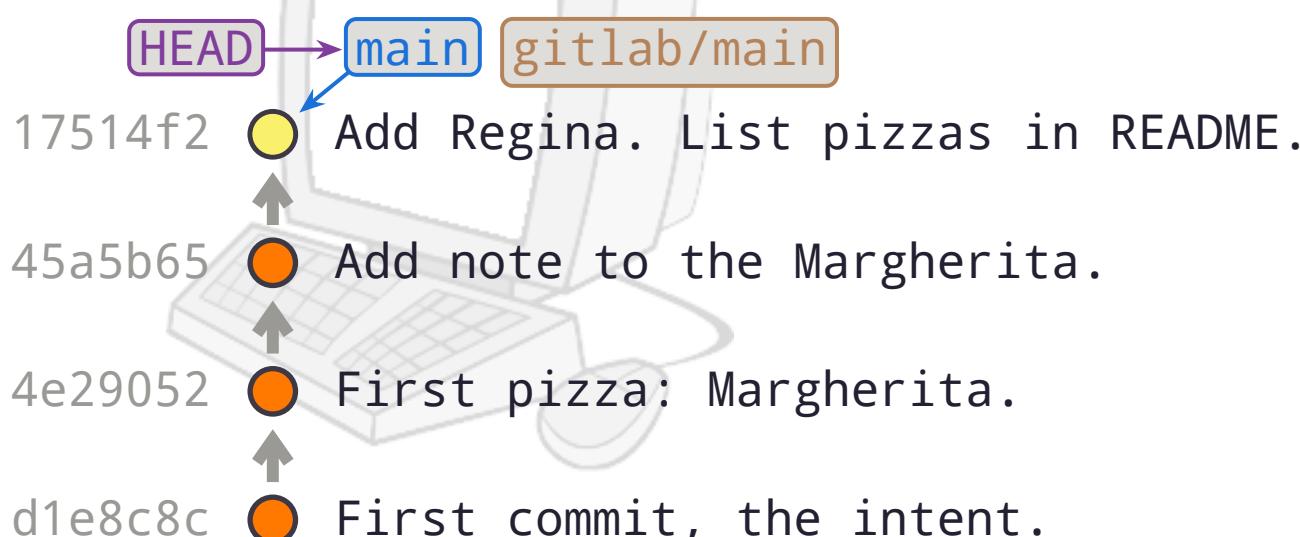
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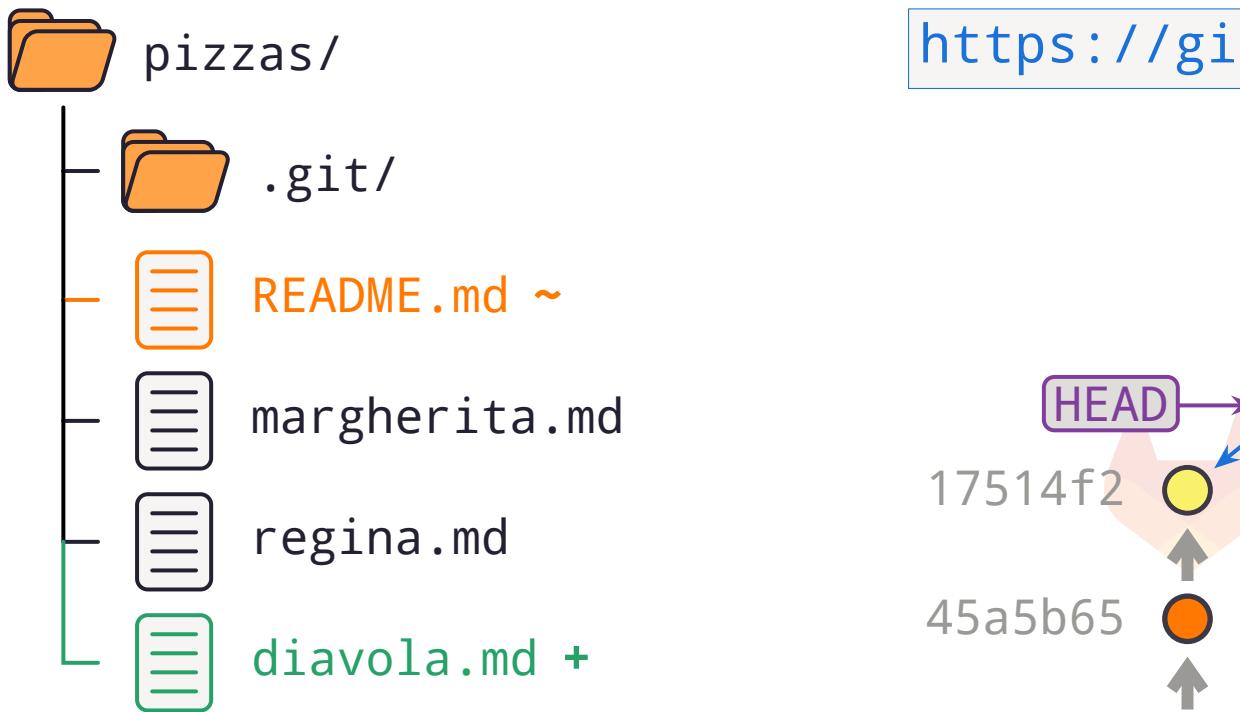


gitlab



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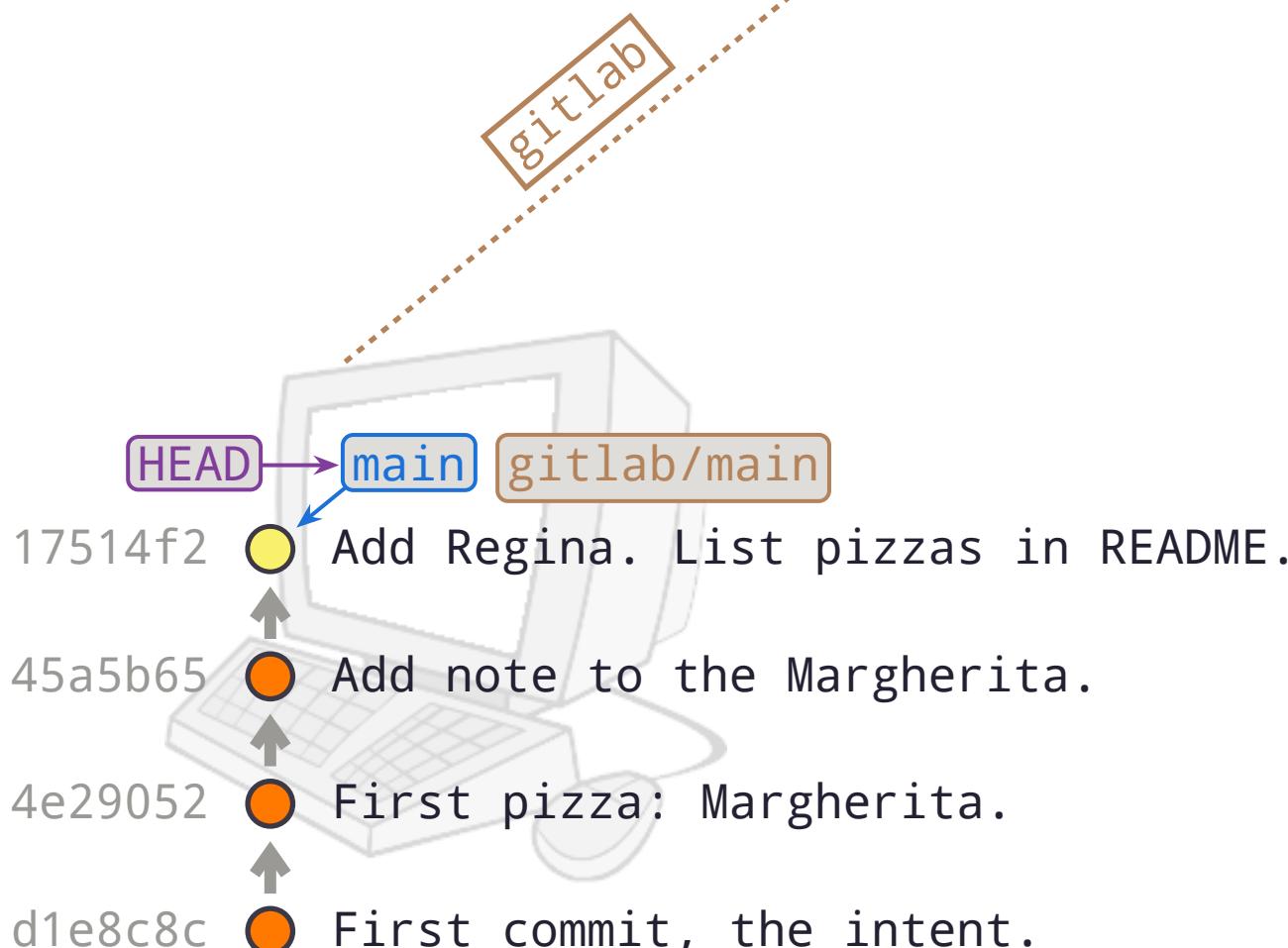


# Maintain Your Project

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# Maintain Your Project

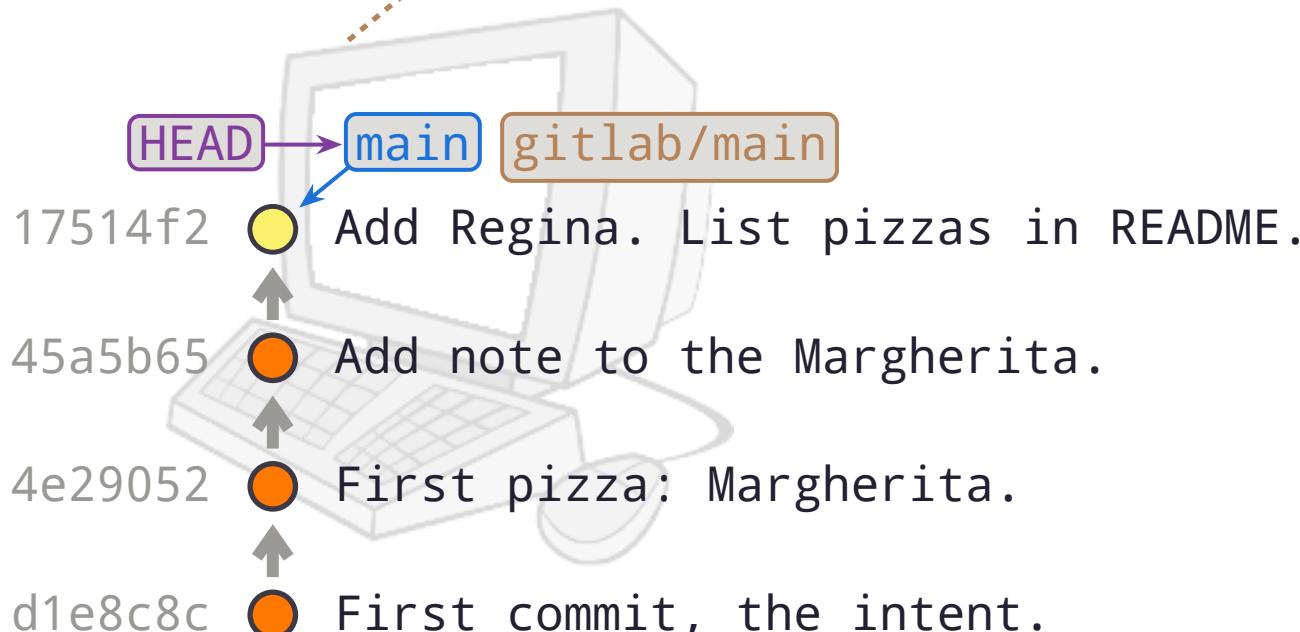
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<https://gitlab.com/MyAccount/Pizzas>



\$ git branch dev



# Maintain Your Project

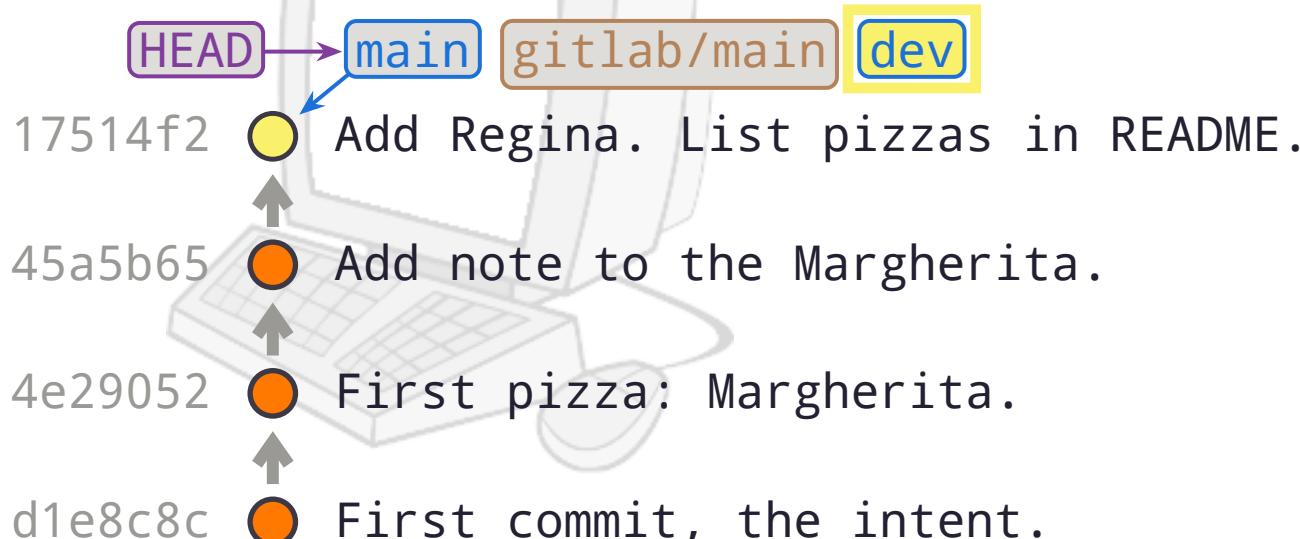
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\$ git branch dev

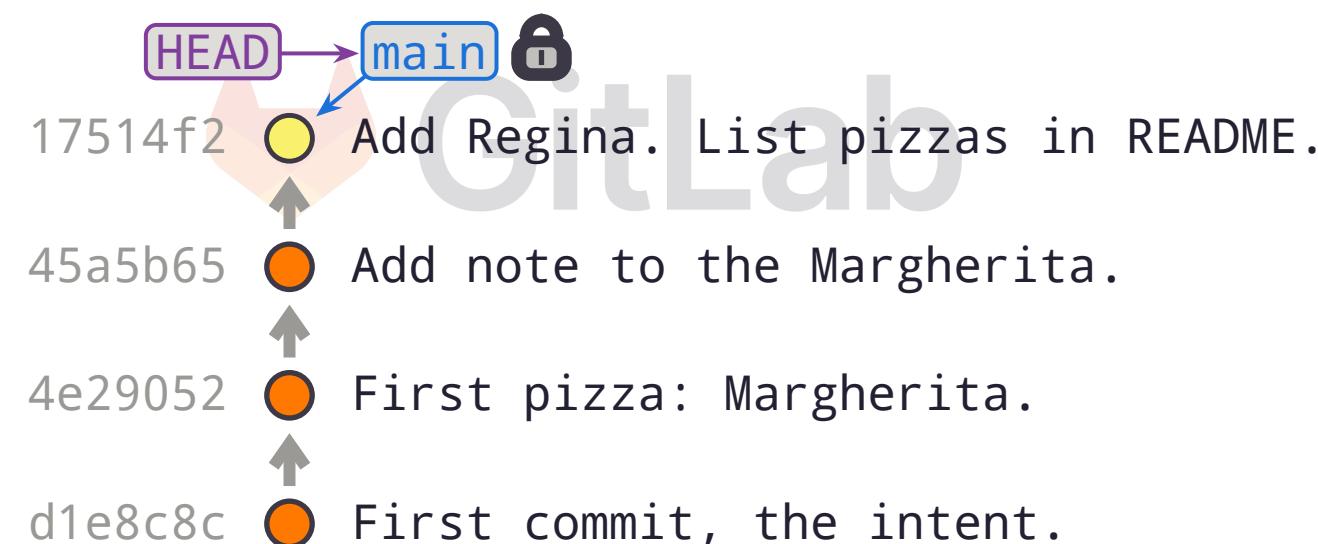


# Maintain Your Project

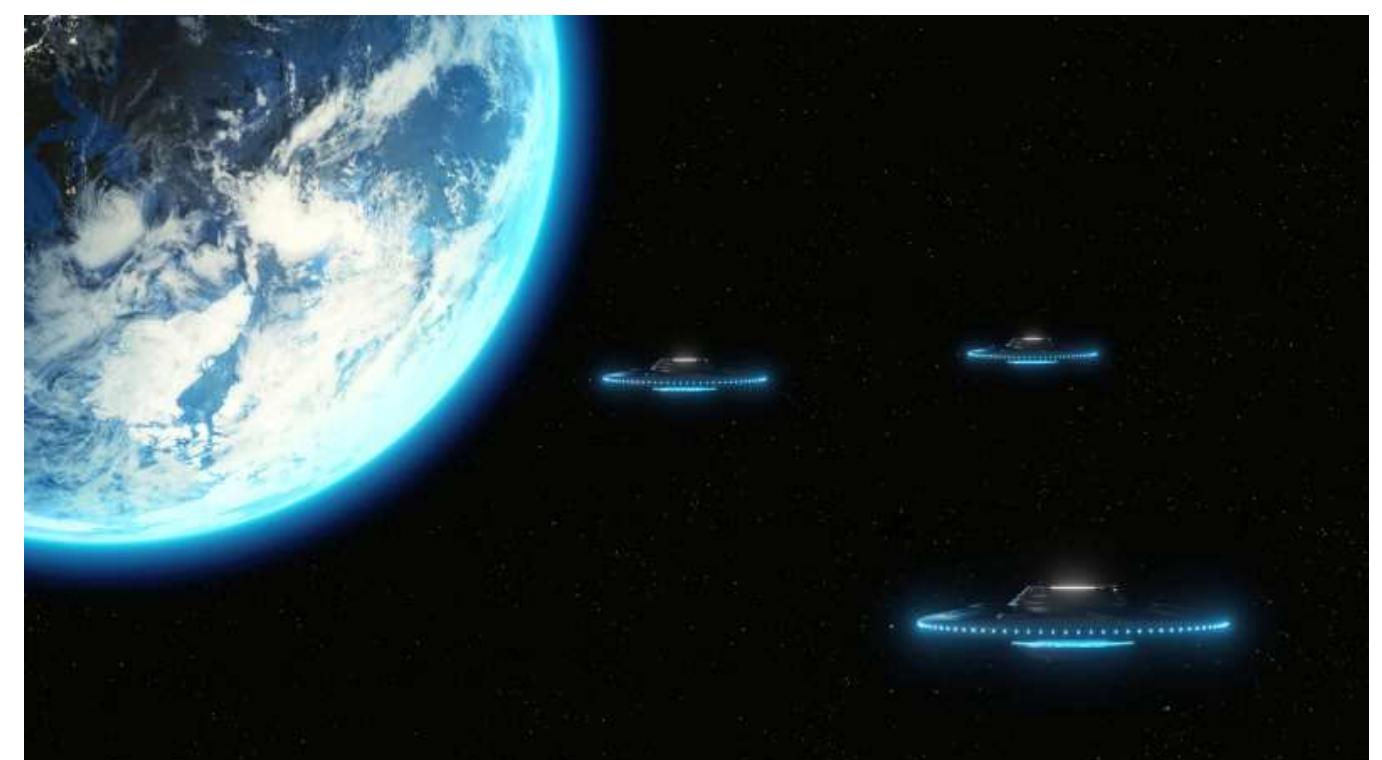
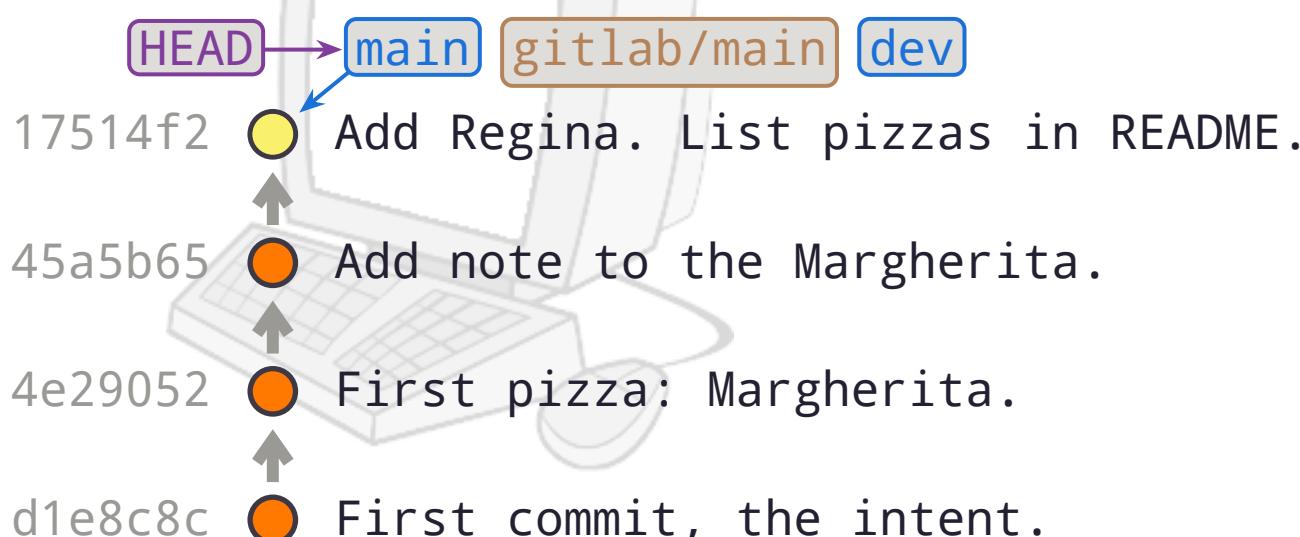
You're Not Alone.



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



gitlab



# Maintain Your Project

You're Not Alone.



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



\$ git checkout dev



# Maintain Your Project

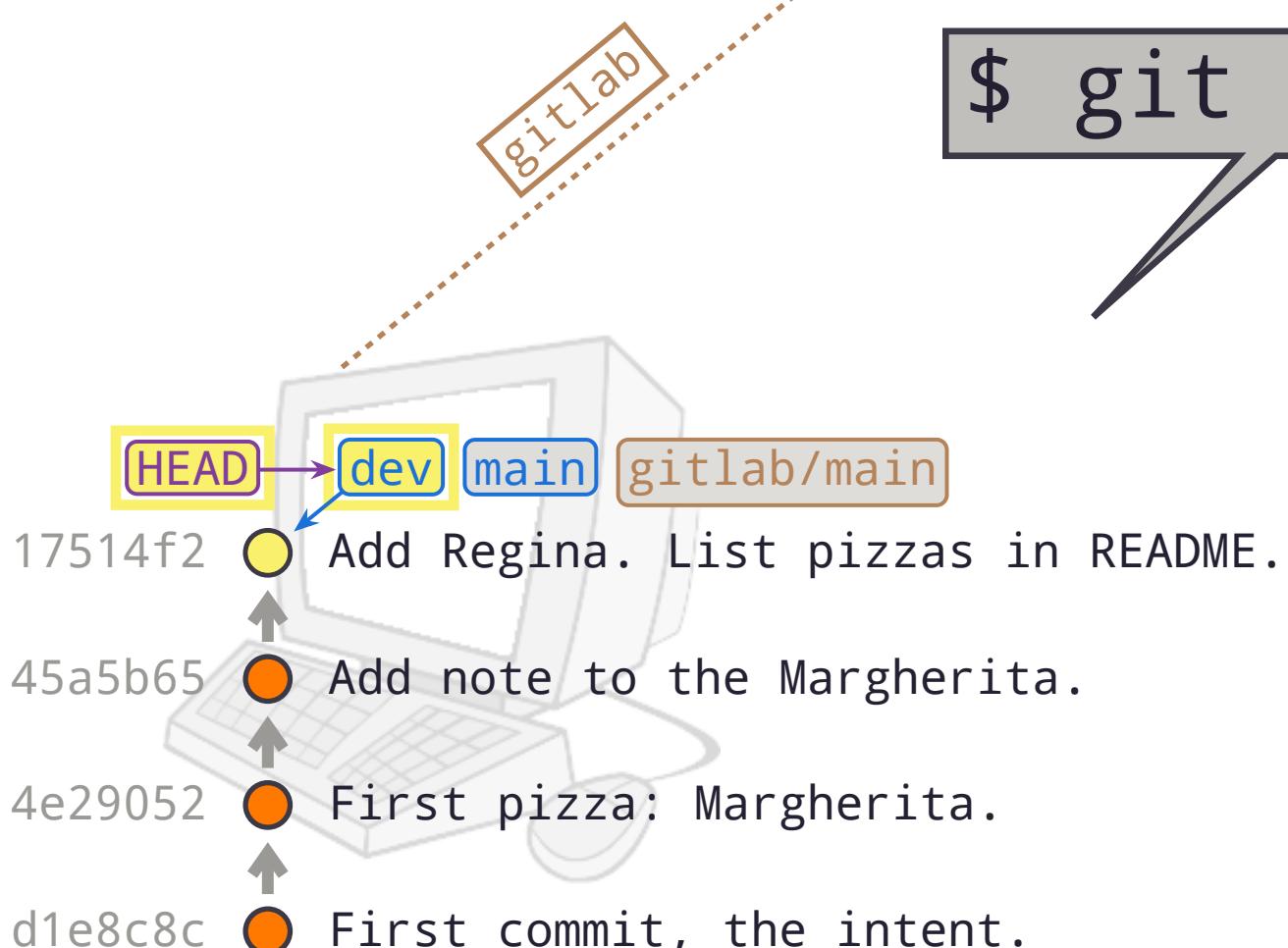
You're Not Alone.



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\$ git checkout dev



# Maintain Your Project

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gitlab

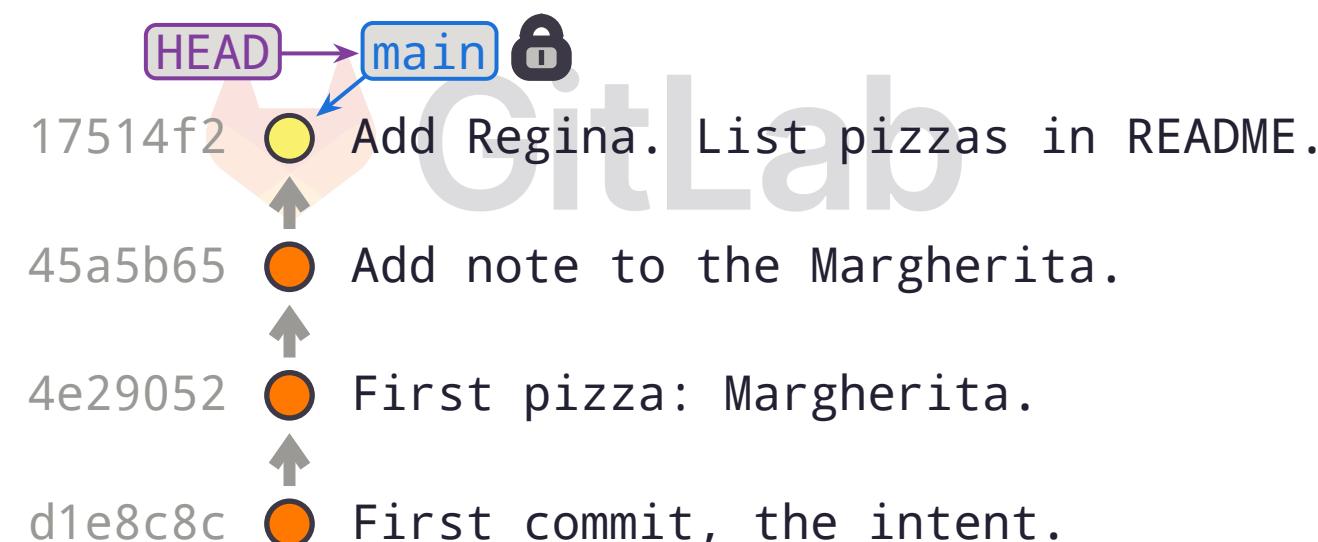


# Maintain Your Project

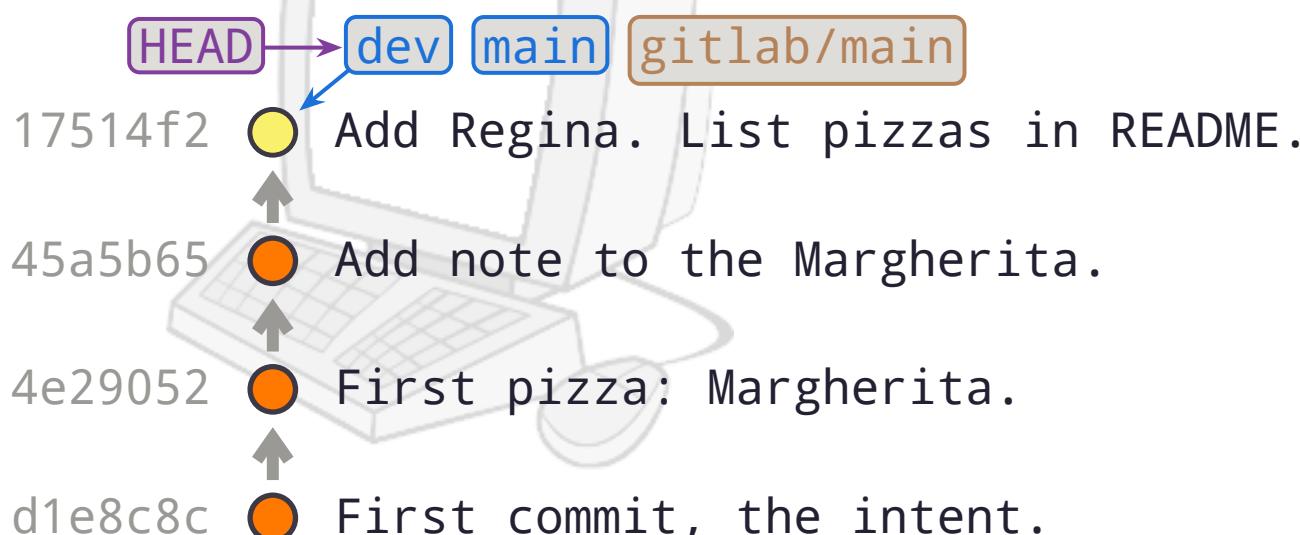
You're Not Alone.



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



\$ git commit



# Maintain Your Project

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pizzas/  
└── .git/

  └── README.md

  └── margherita.md

  └── regina.md

  └── diavola.md

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



gitlab

HEAD → dev

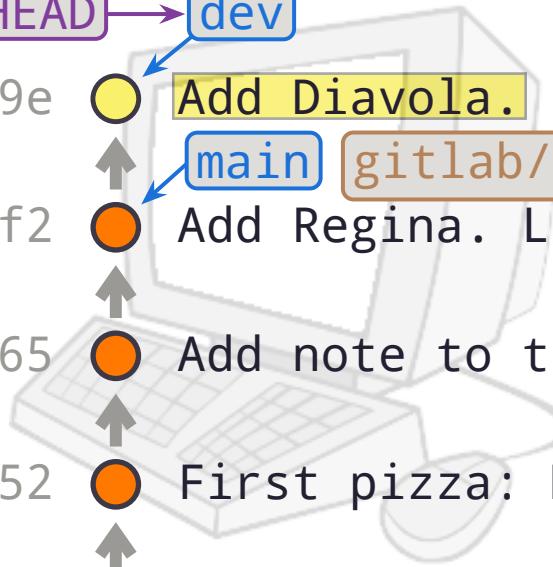
aa0299e Add Diavola.

17514f2 Add Regina. List pizzas in README.

45a5b65 Add note to the Margherita.

4e29052 First pizza: Margherita.

d1e8c8c First commit, the intent.



# Maintain Your Project

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pizzas/



.git/



README.md



margherita.md



regina.md



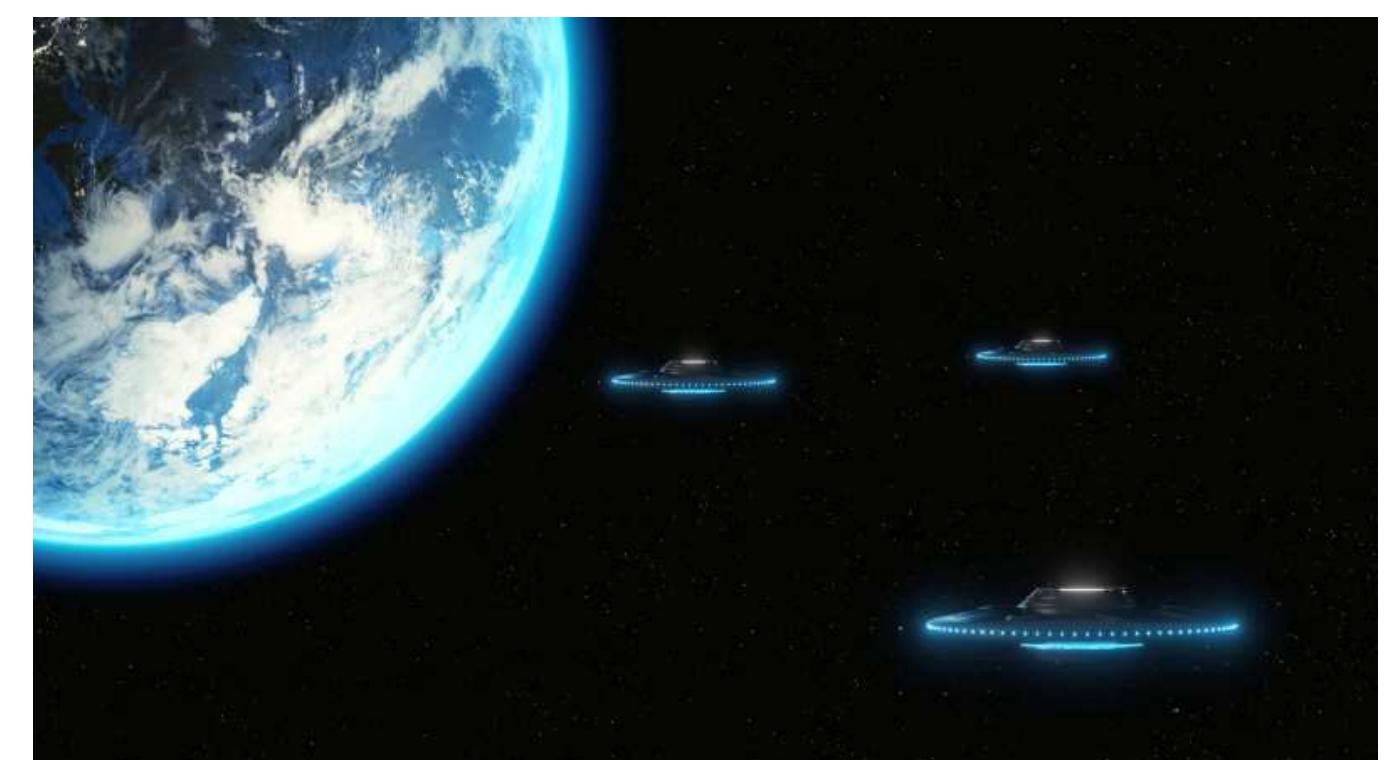
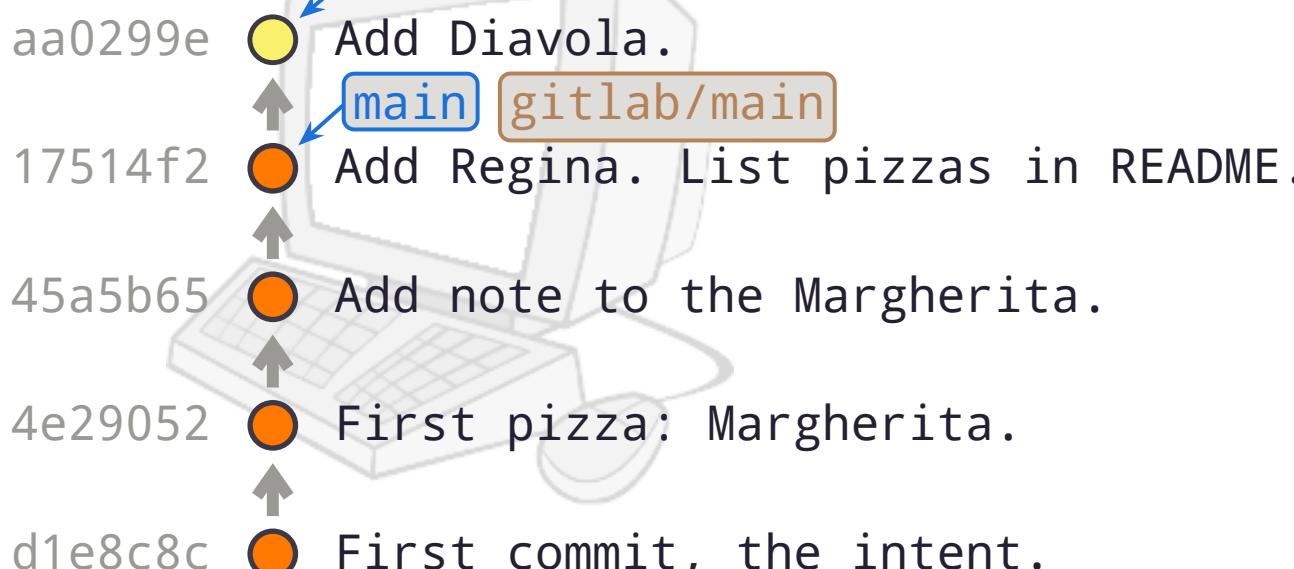
diavola.md

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



gitlab

HEAD → dev

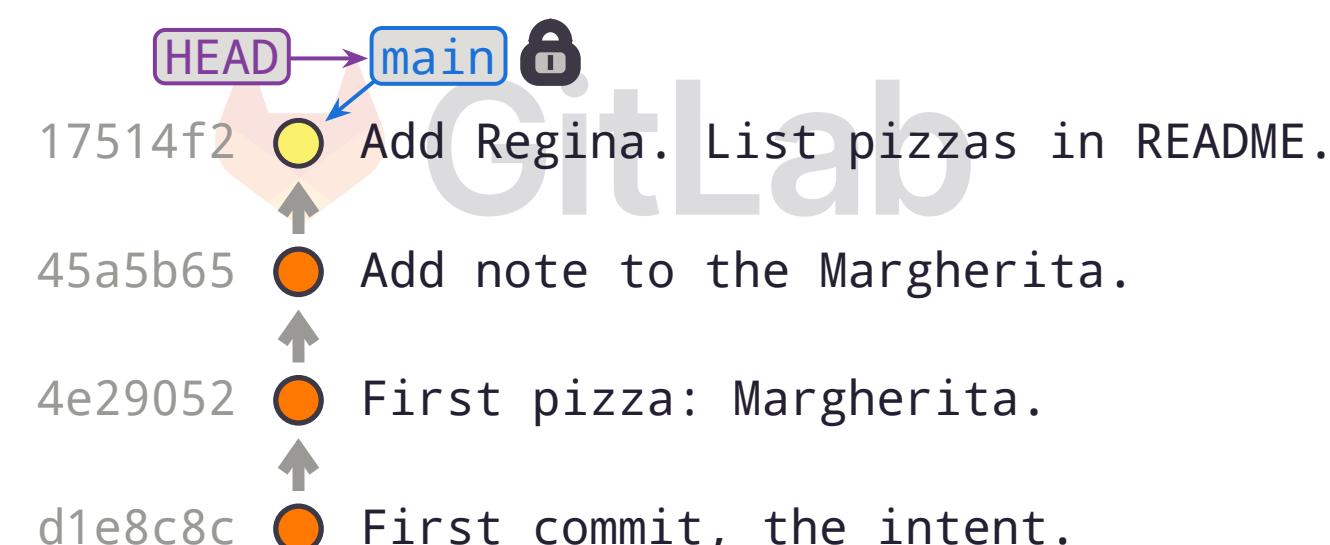


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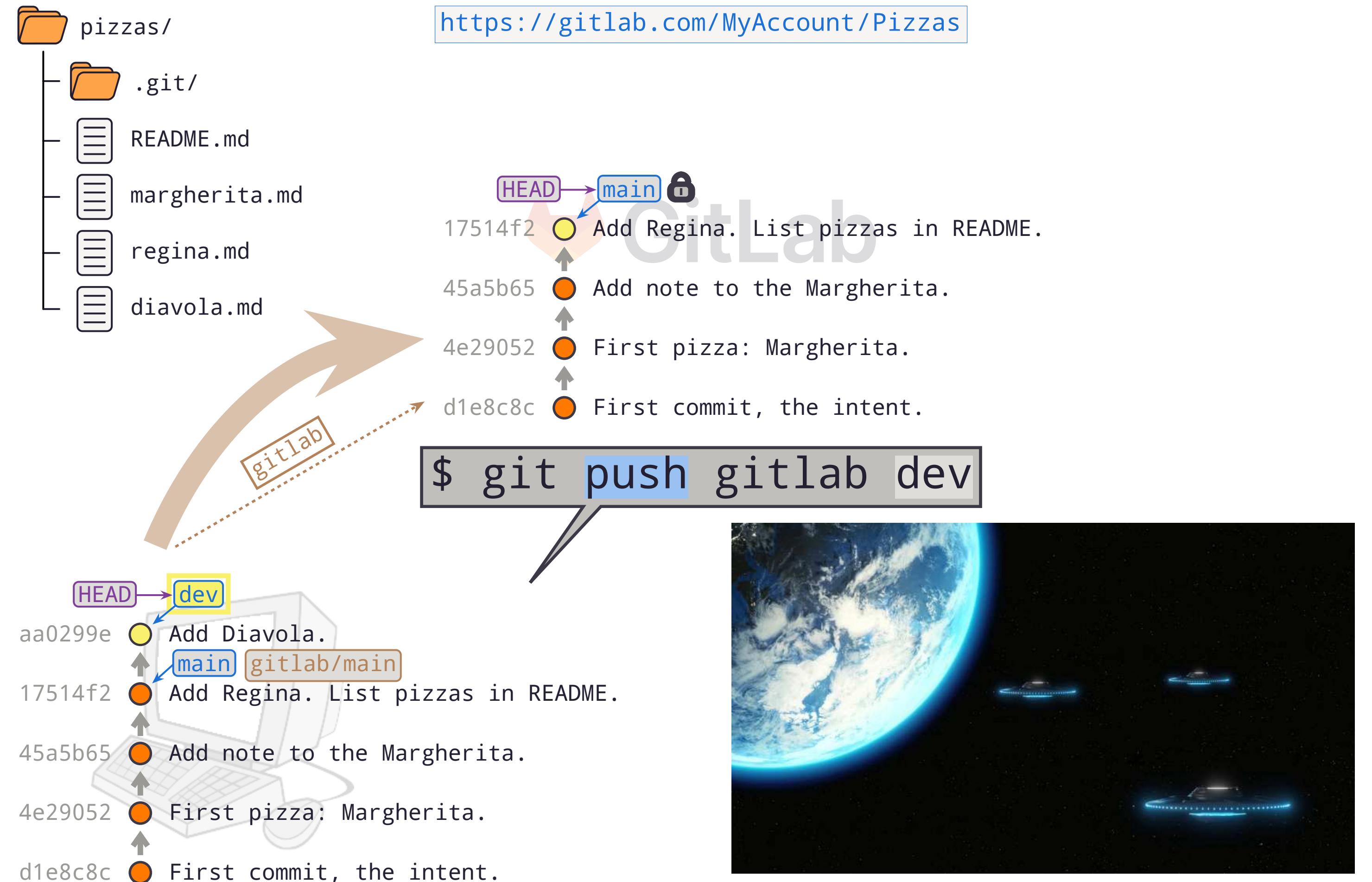


\$ git push gitlab dev



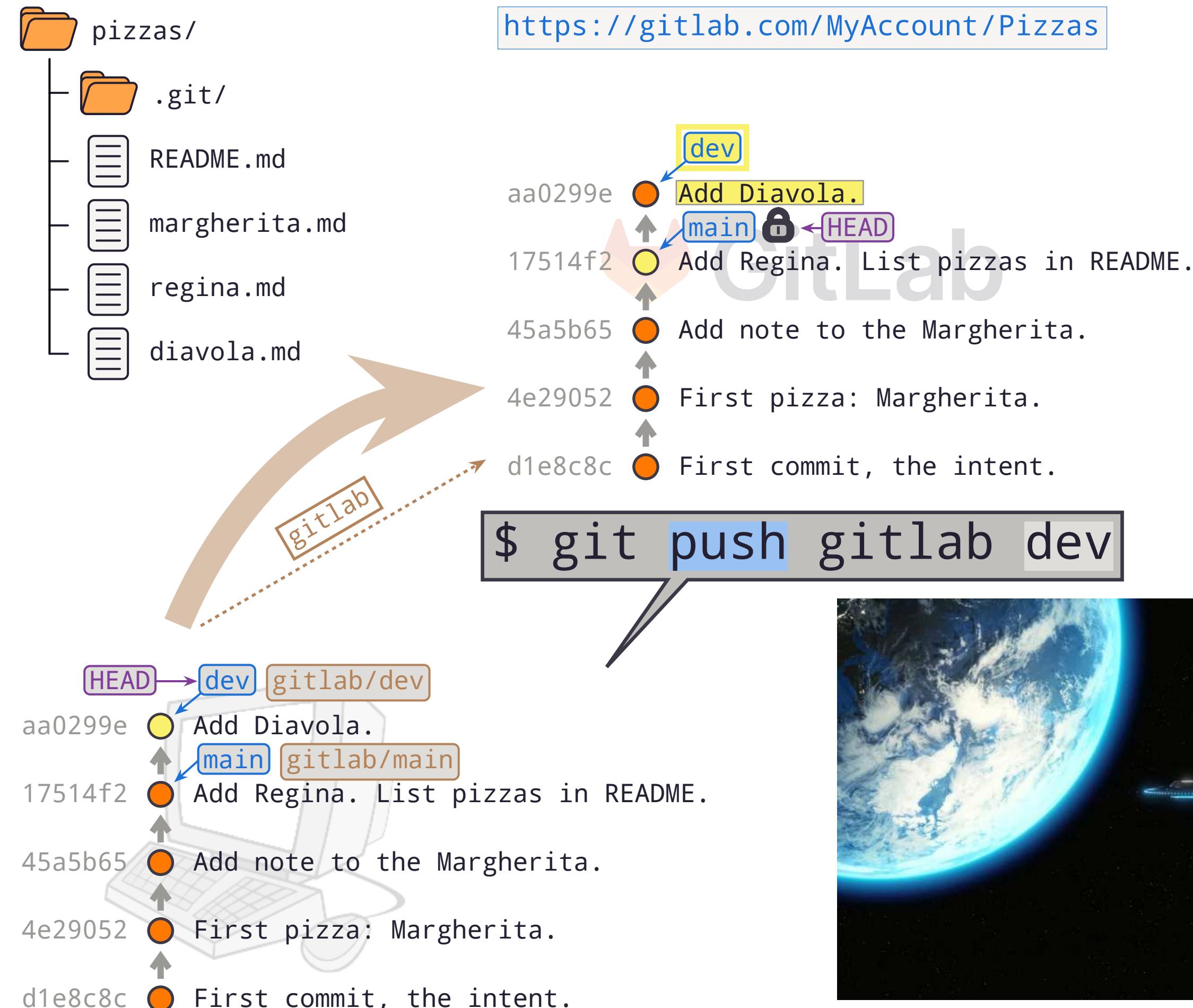
# Maintain Your Project

You're Not Alone.



# Maintain Your Project

You're Not Alone.

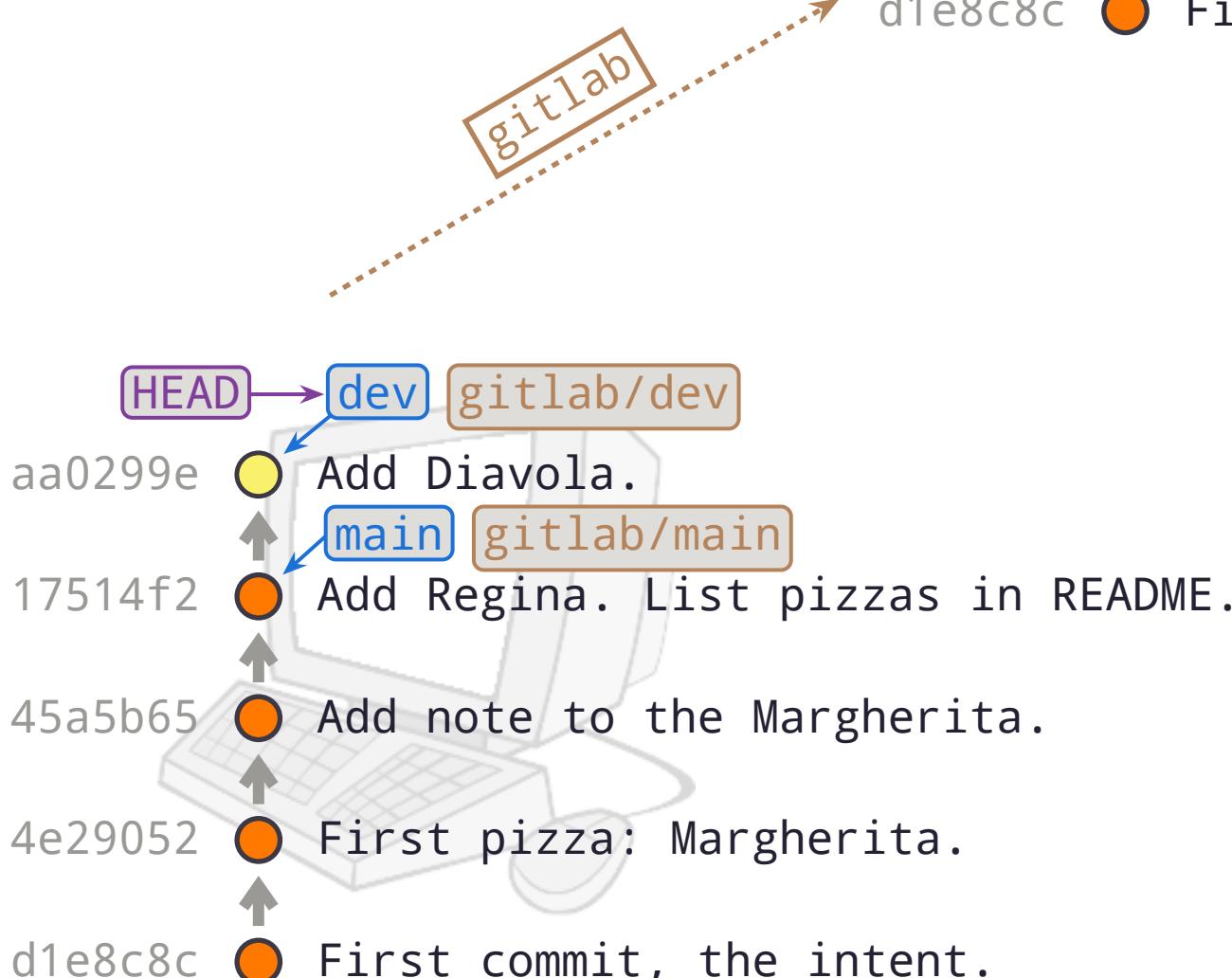


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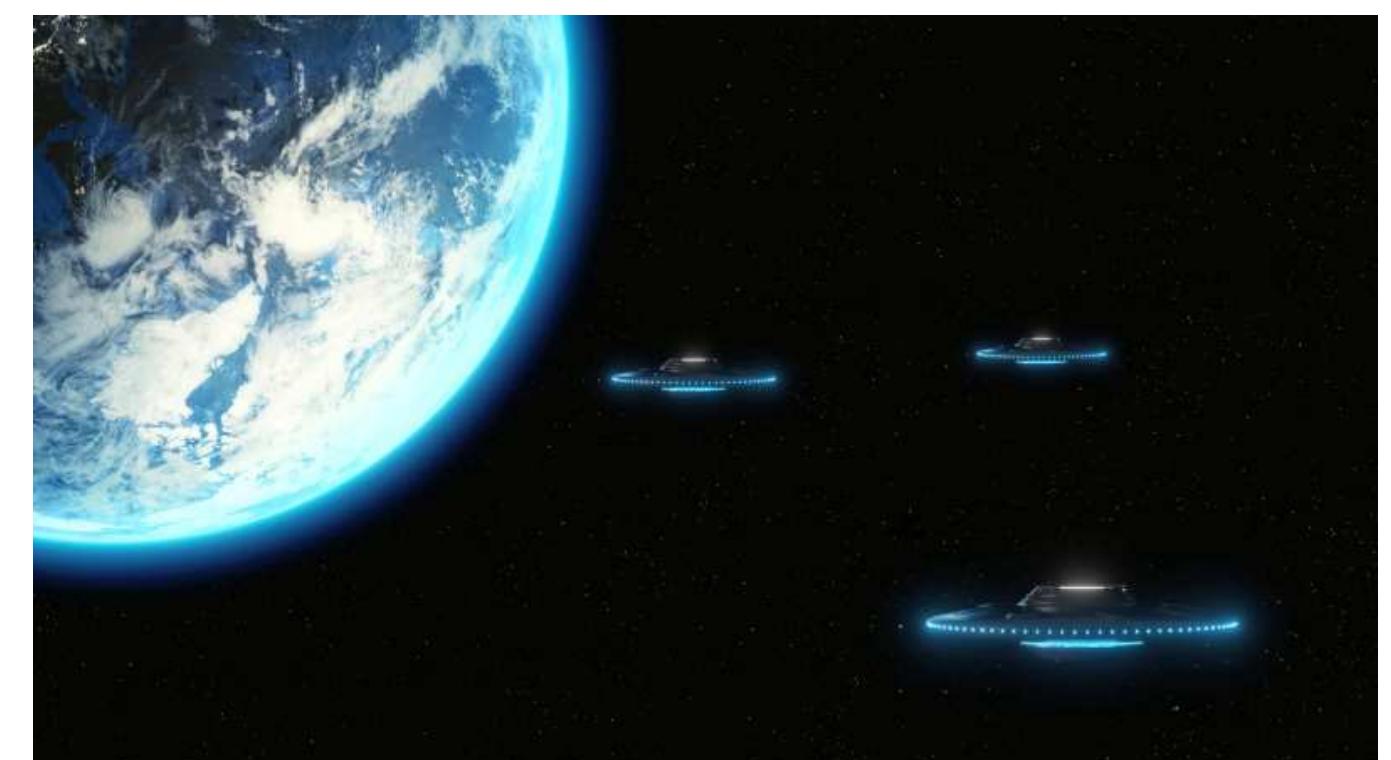
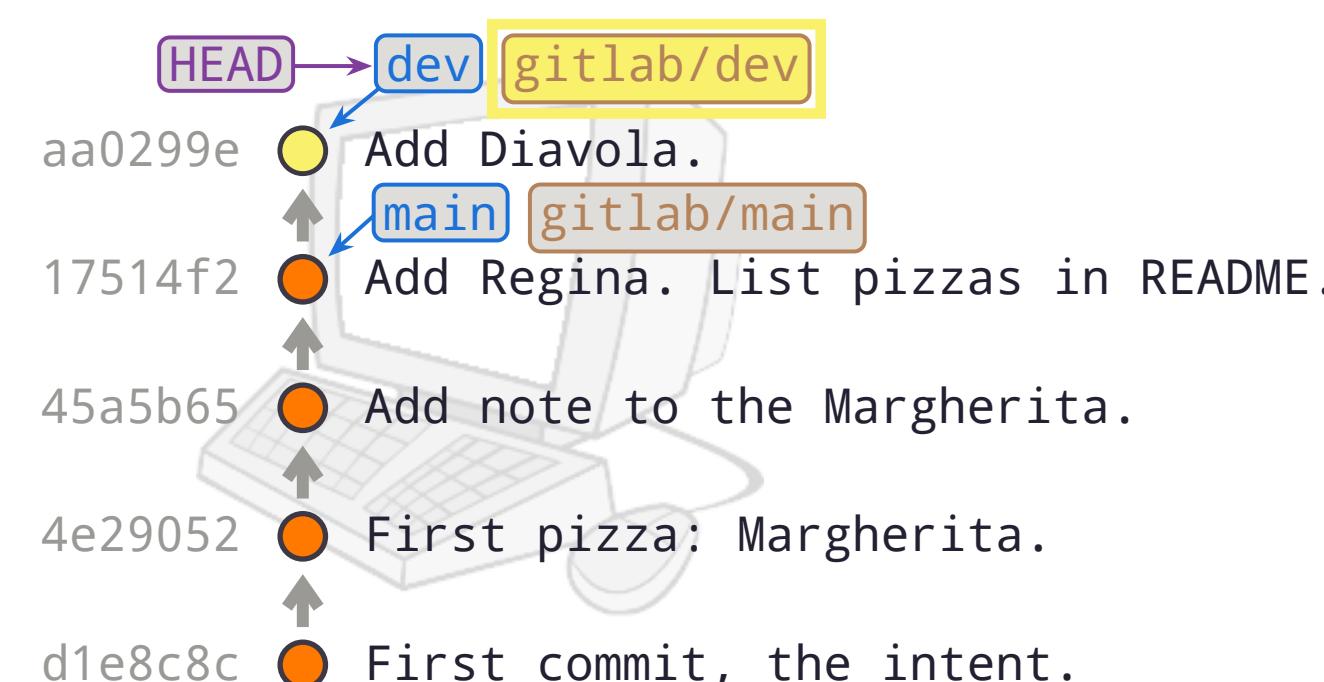


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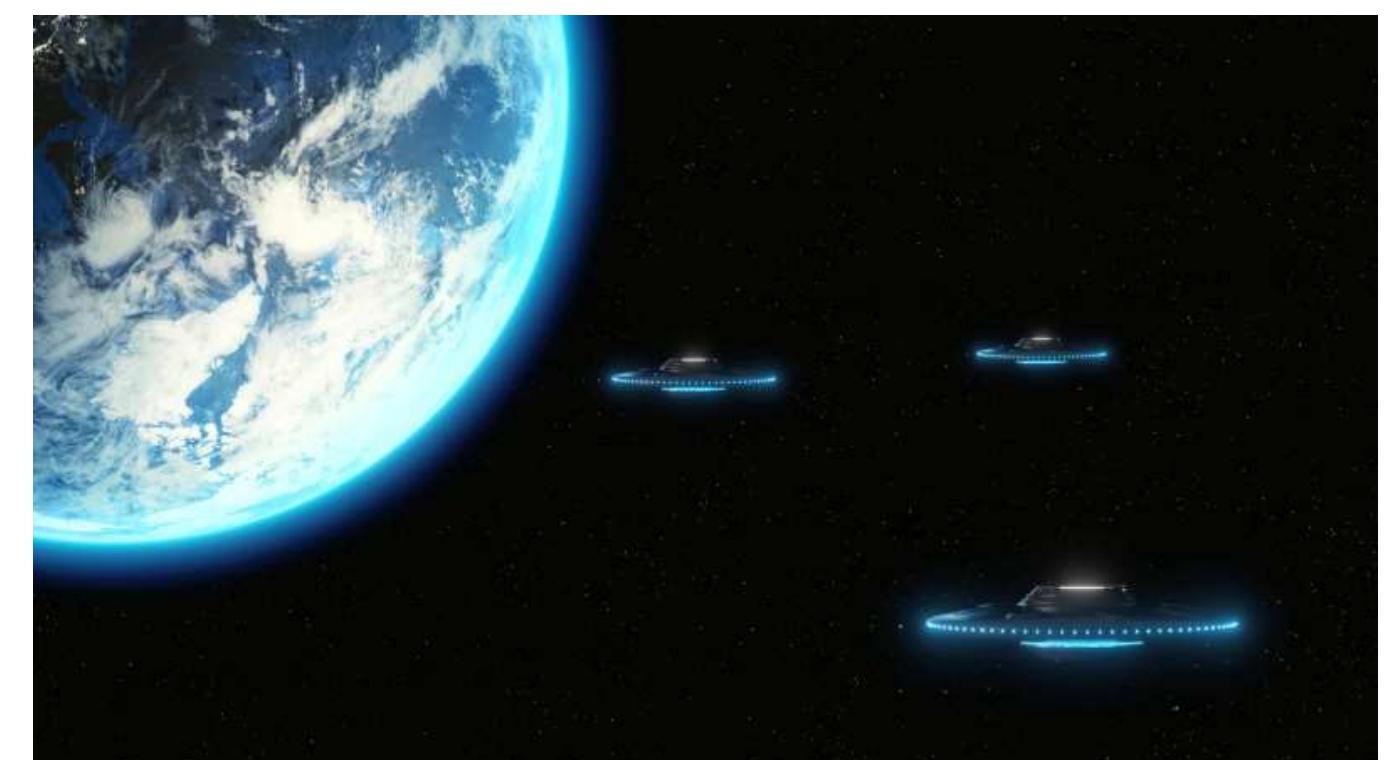
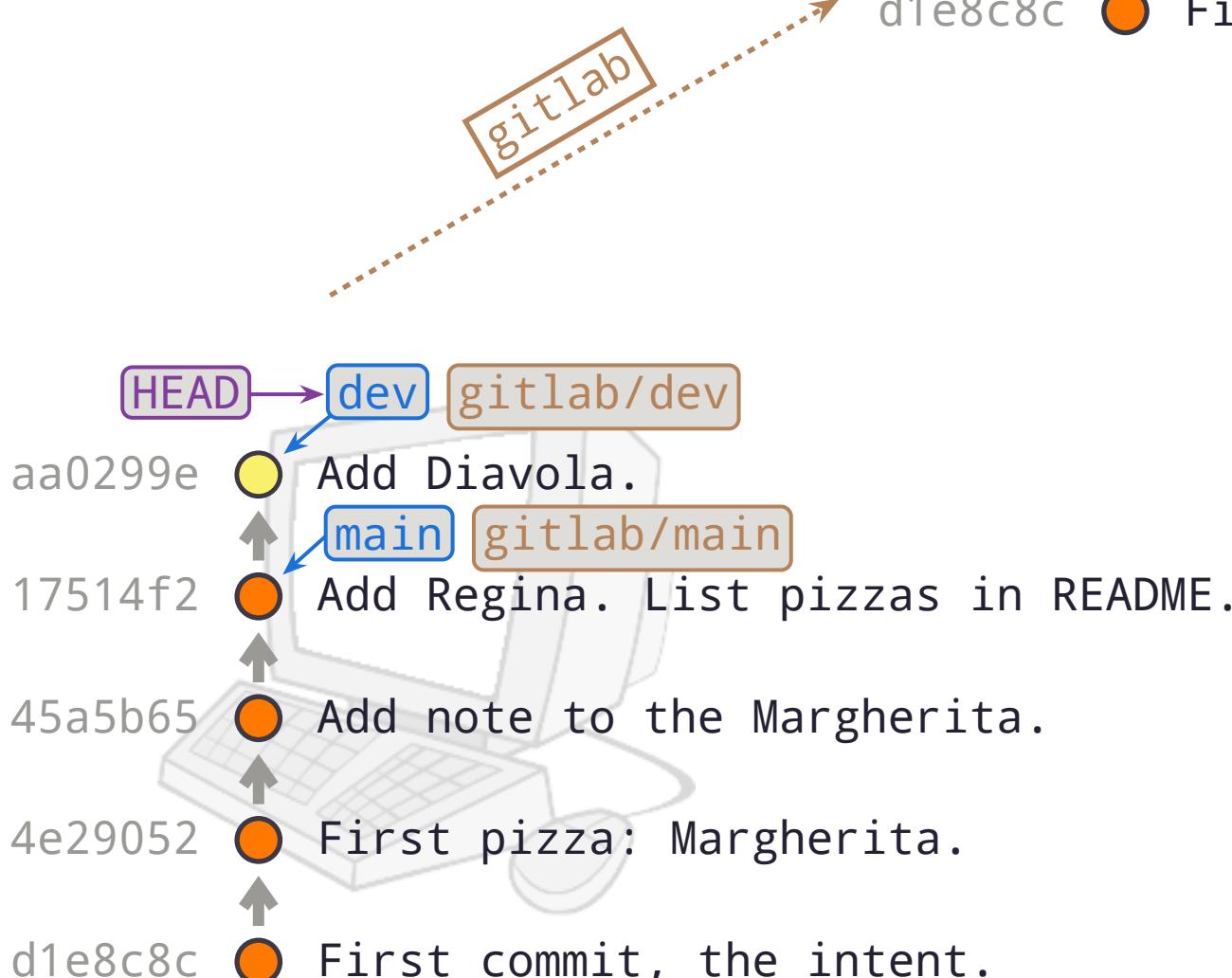


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# Maintain Your Project

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\$ git checkout main



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pizzas/



.git/



README.md



margherita.md

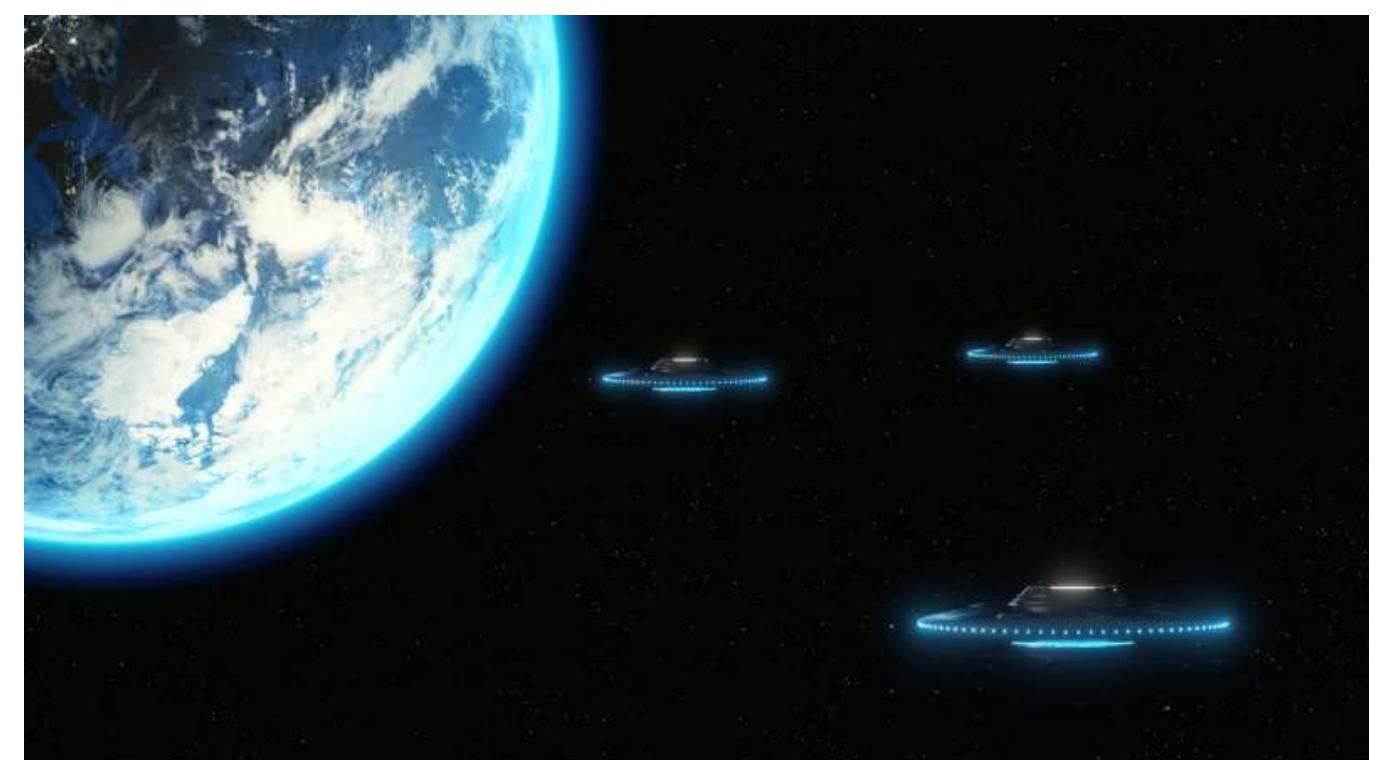


regina.md

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



\$ git checkout main



# Maintain Your Project

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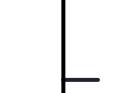
pizzas/



.git/



README.md

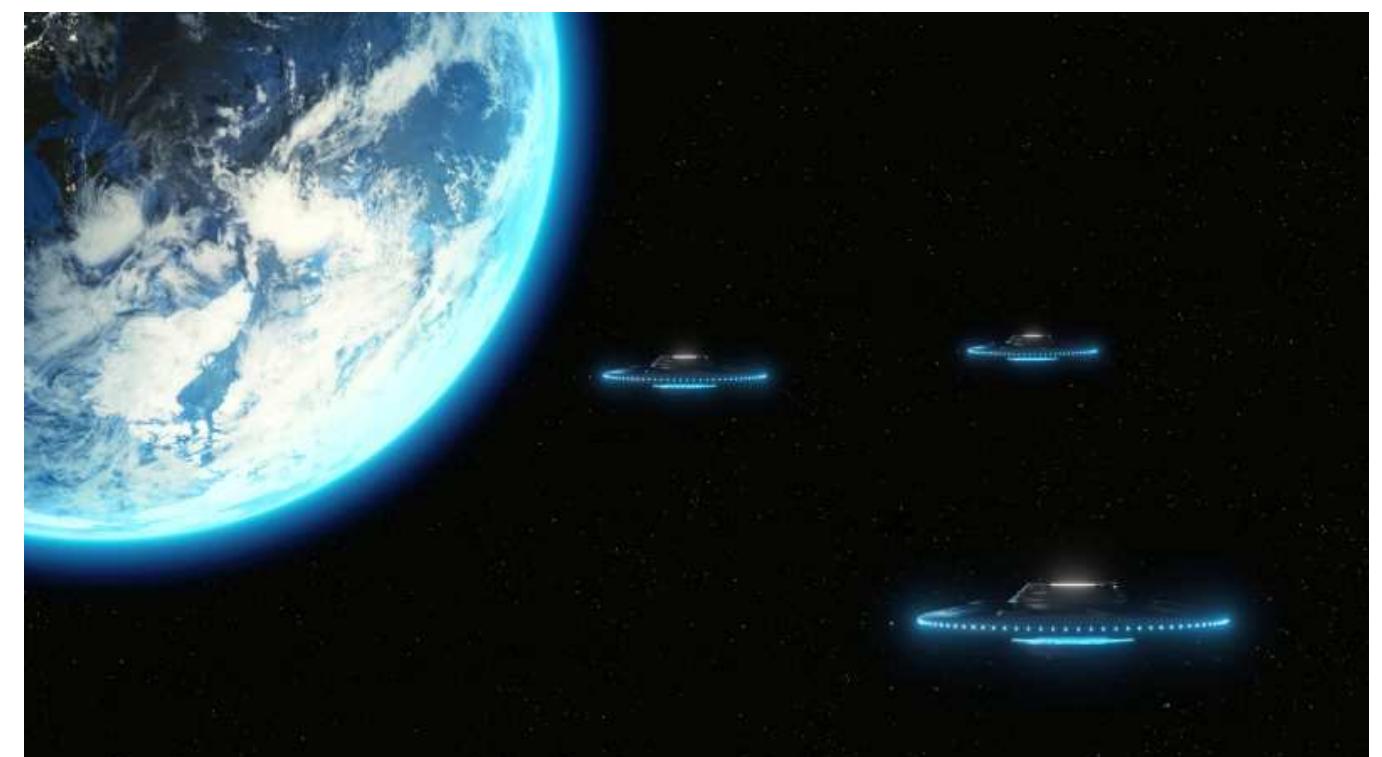
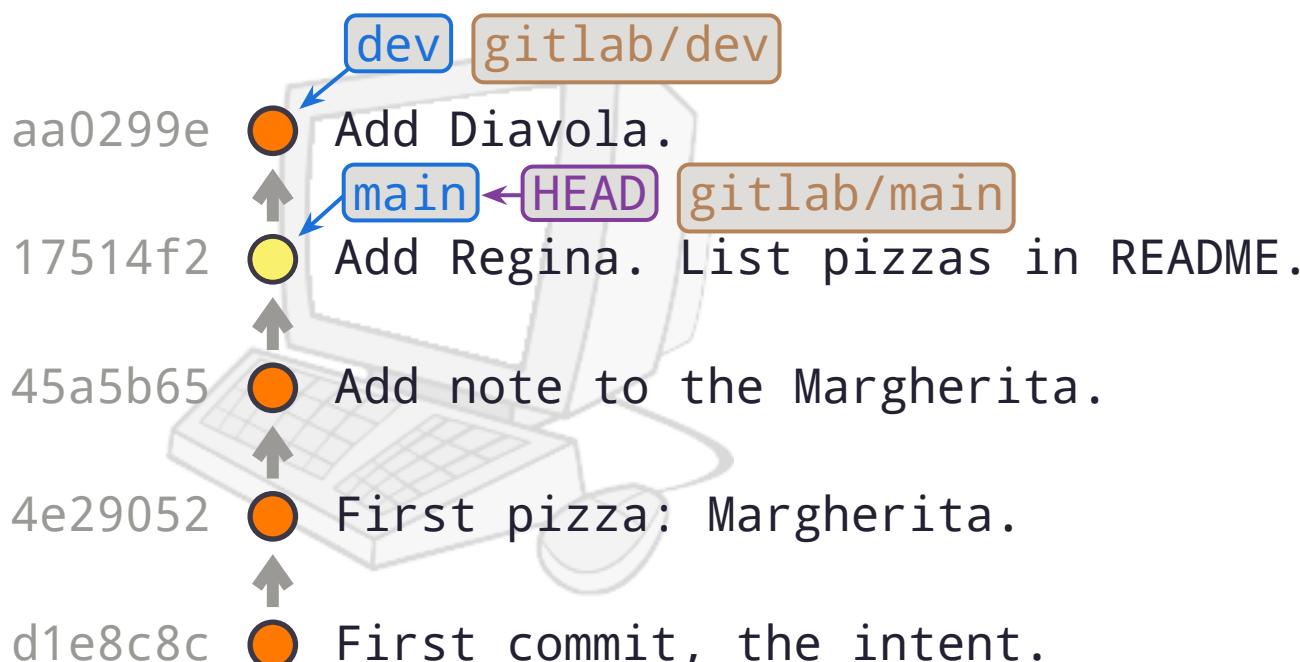


margherita.md



regina.md

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pizzas/



.git/



README.md



margherita.md



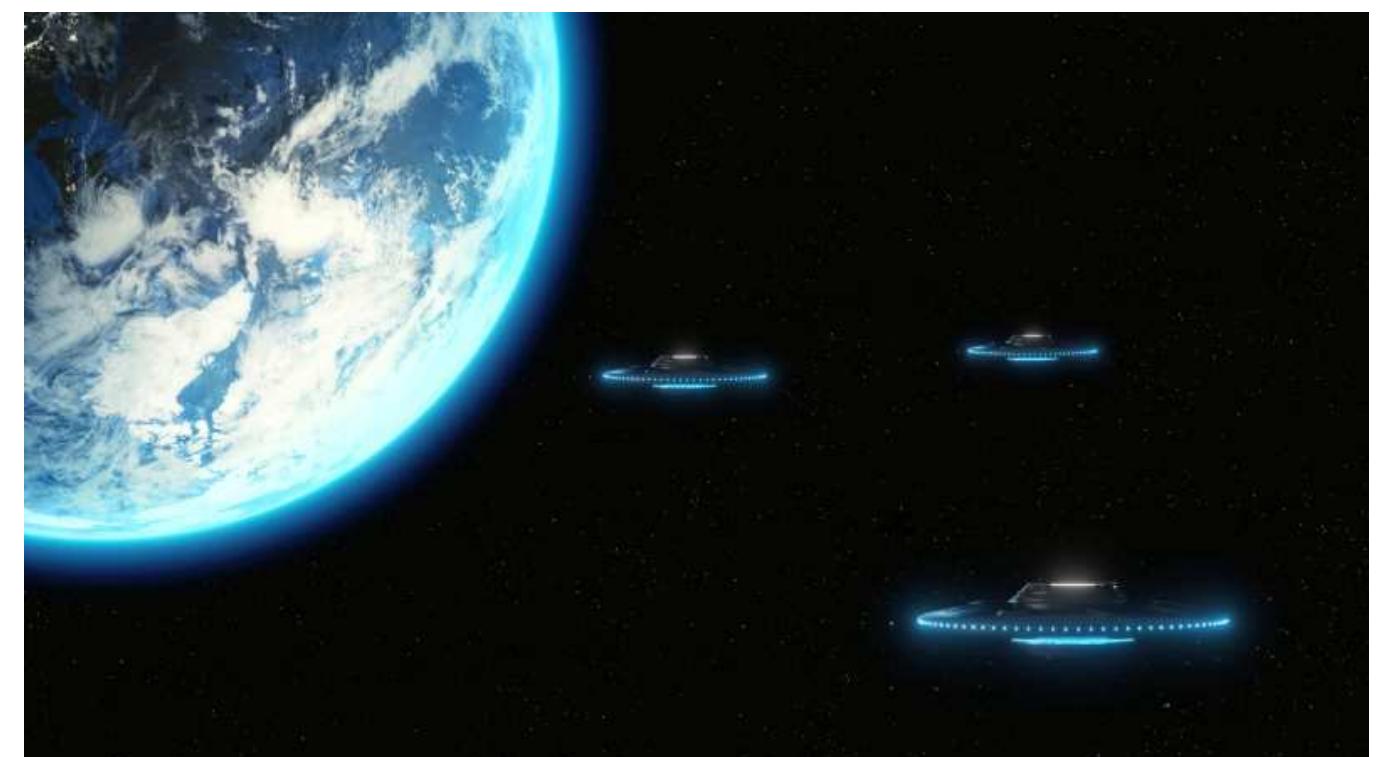
regina.md

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



gitlab

\$ git merge dev



# Maintain Your Project

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pizzas/



.git/



README.md



margherita.md



regina.md



diavola.md

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



\$ git merge dev

HEAD → main dev gitlab/dev



# Maintain Your Project

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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



# Maintain Your Project

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pizzas/



.git/



README.md



margherita.md



regina.md

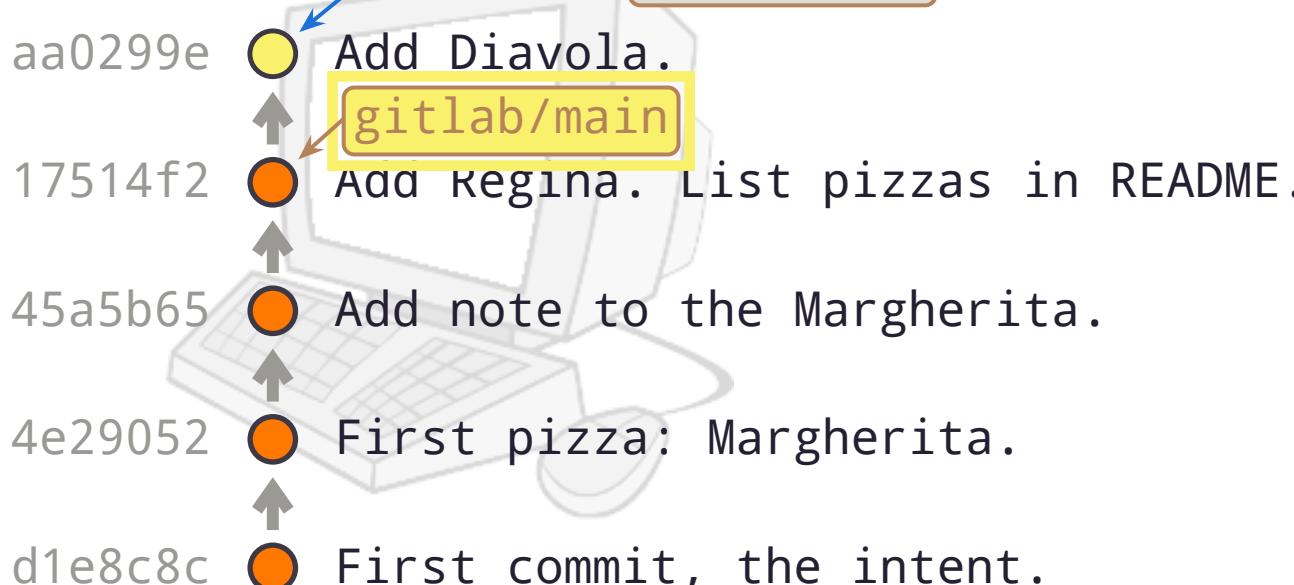


diavola.md

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



HEAD → main dev gitlab/dev



# Maintain Your Project

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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



# Maintain Your Project

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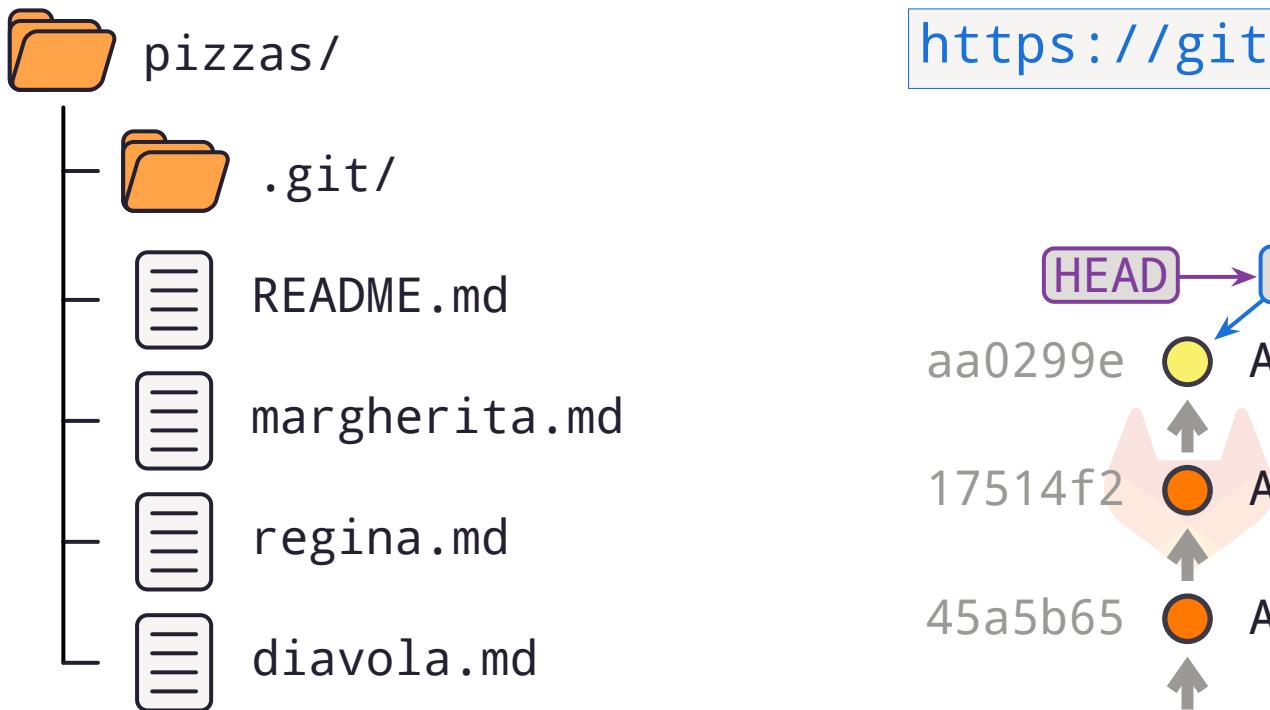
# Maintain Your Project

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# Maintain Your Project

You're Not Alone.

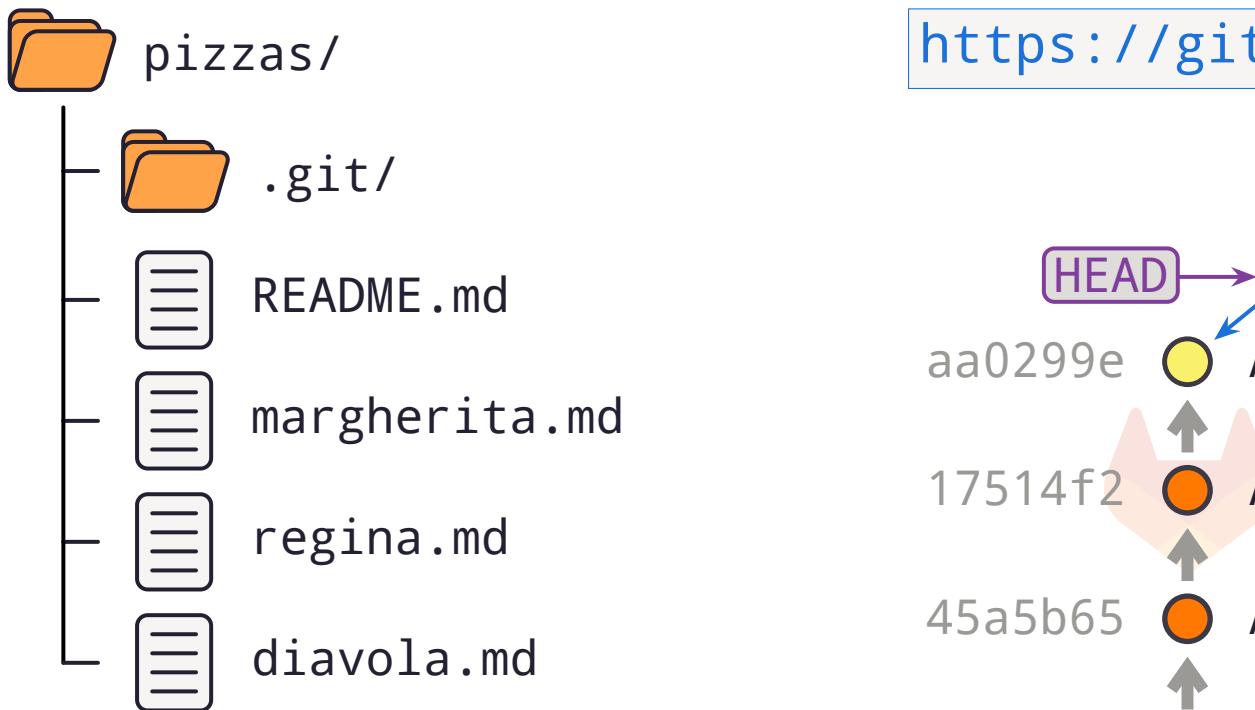


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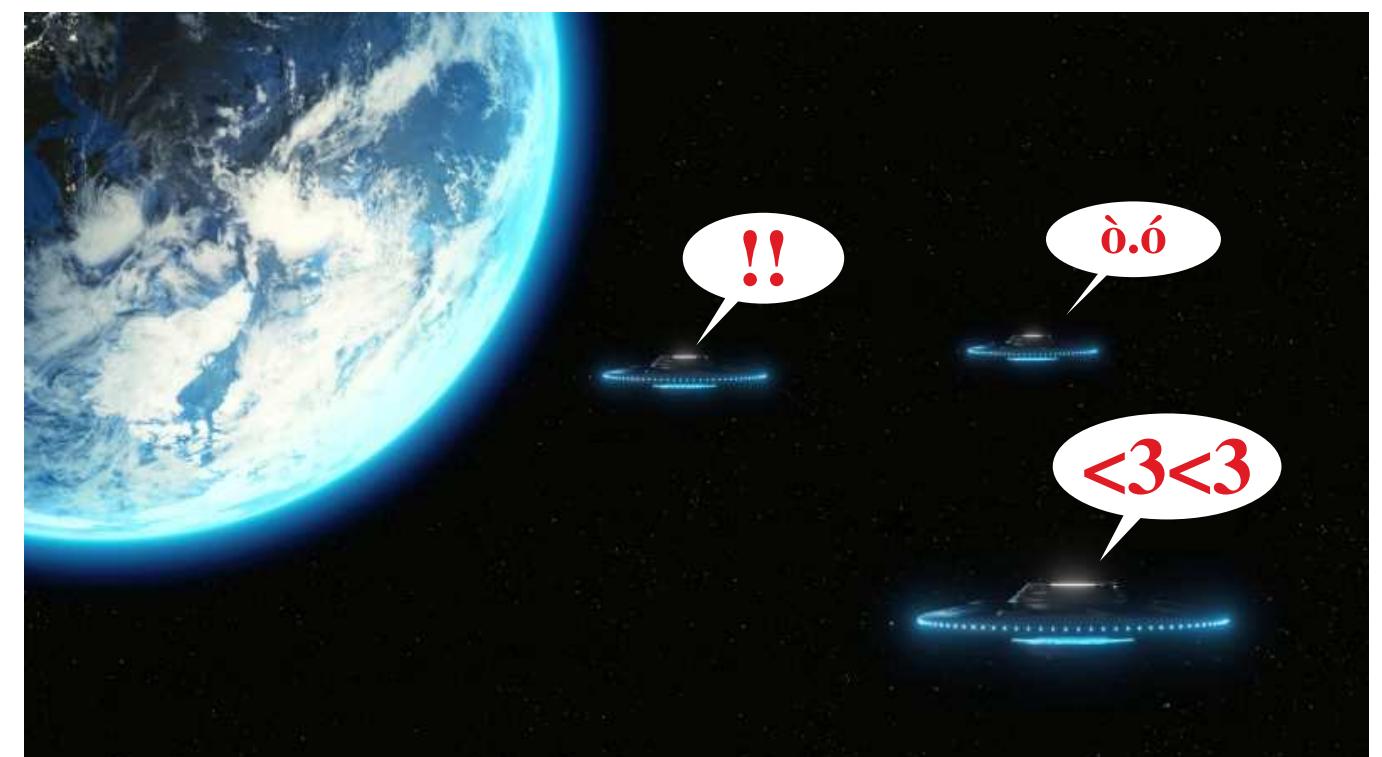


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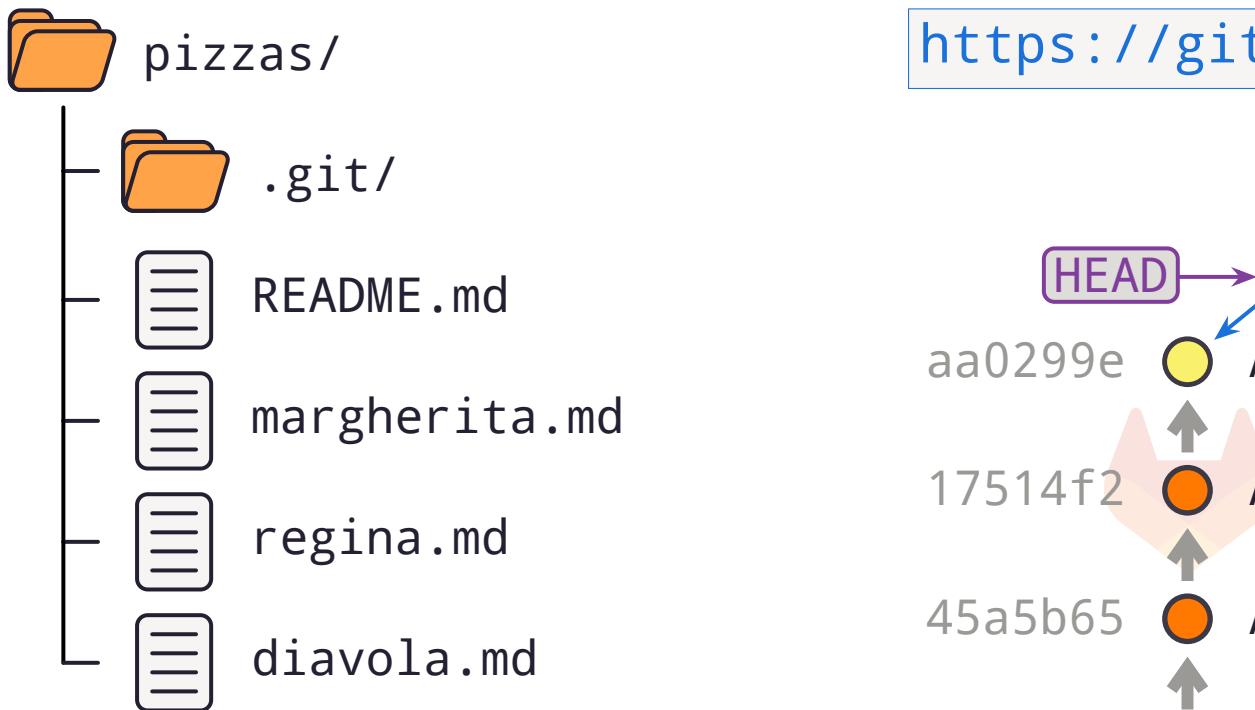


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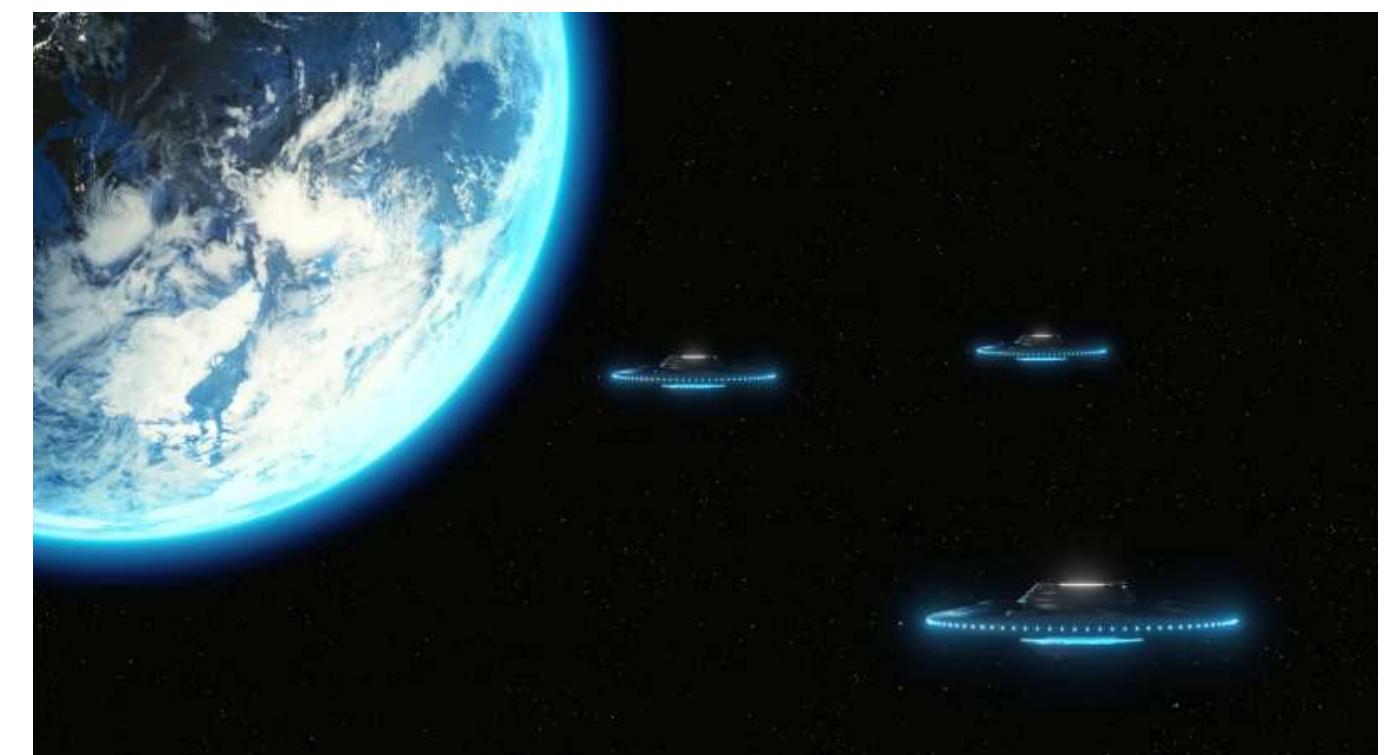


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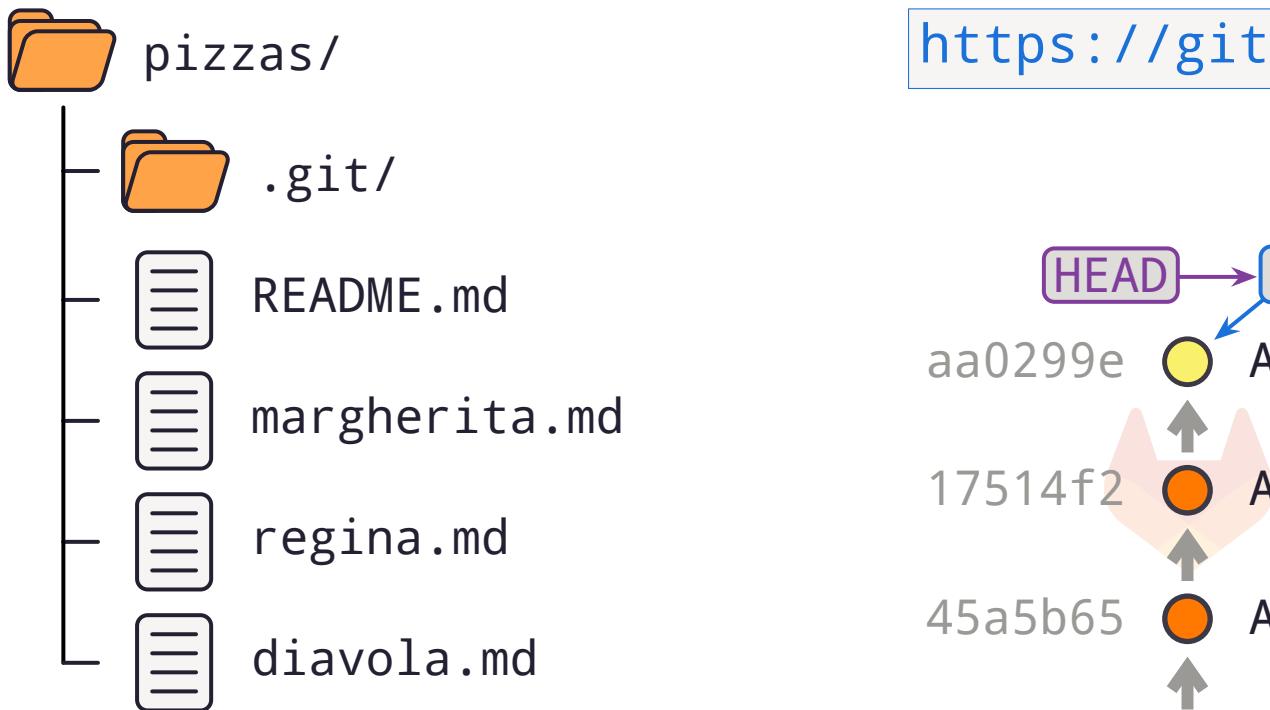


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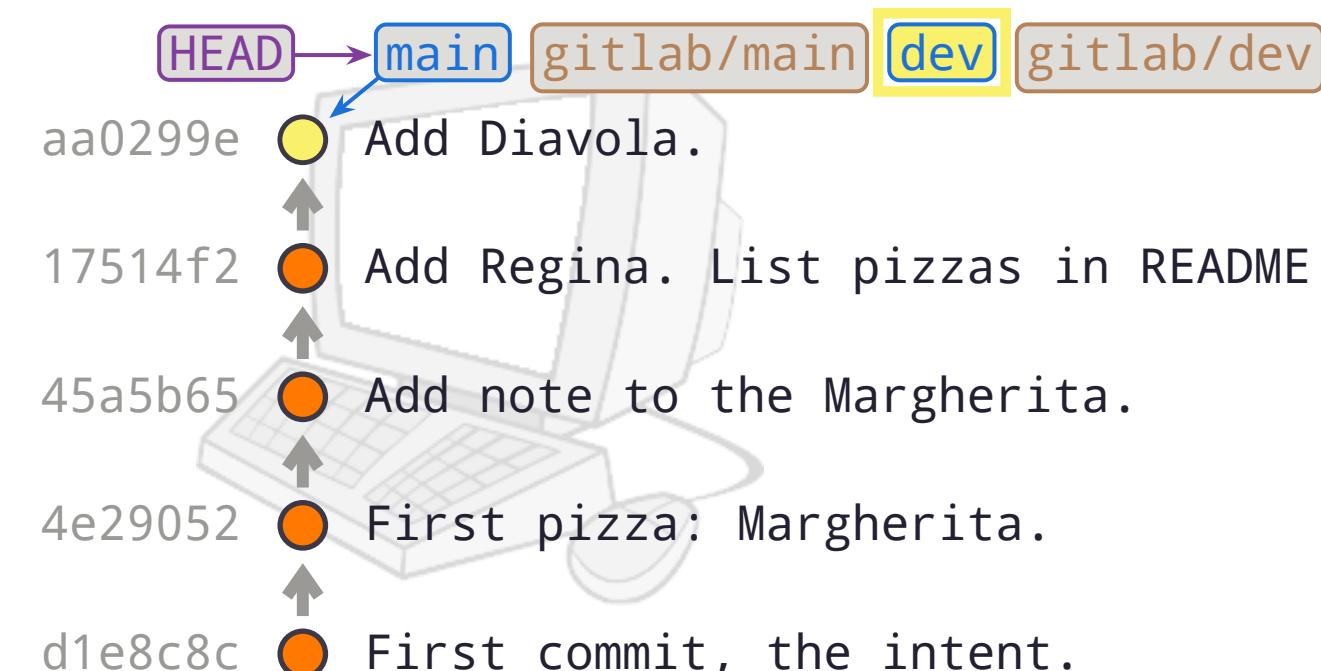
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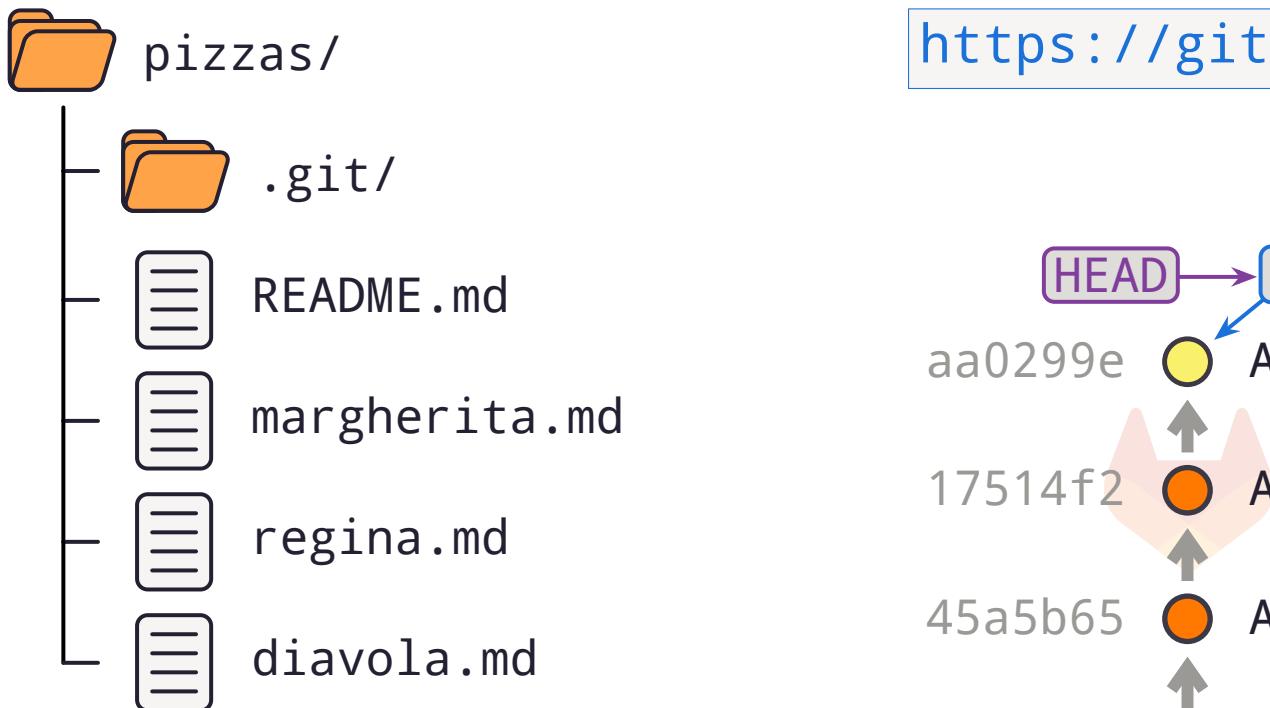


\$ git checkout dev



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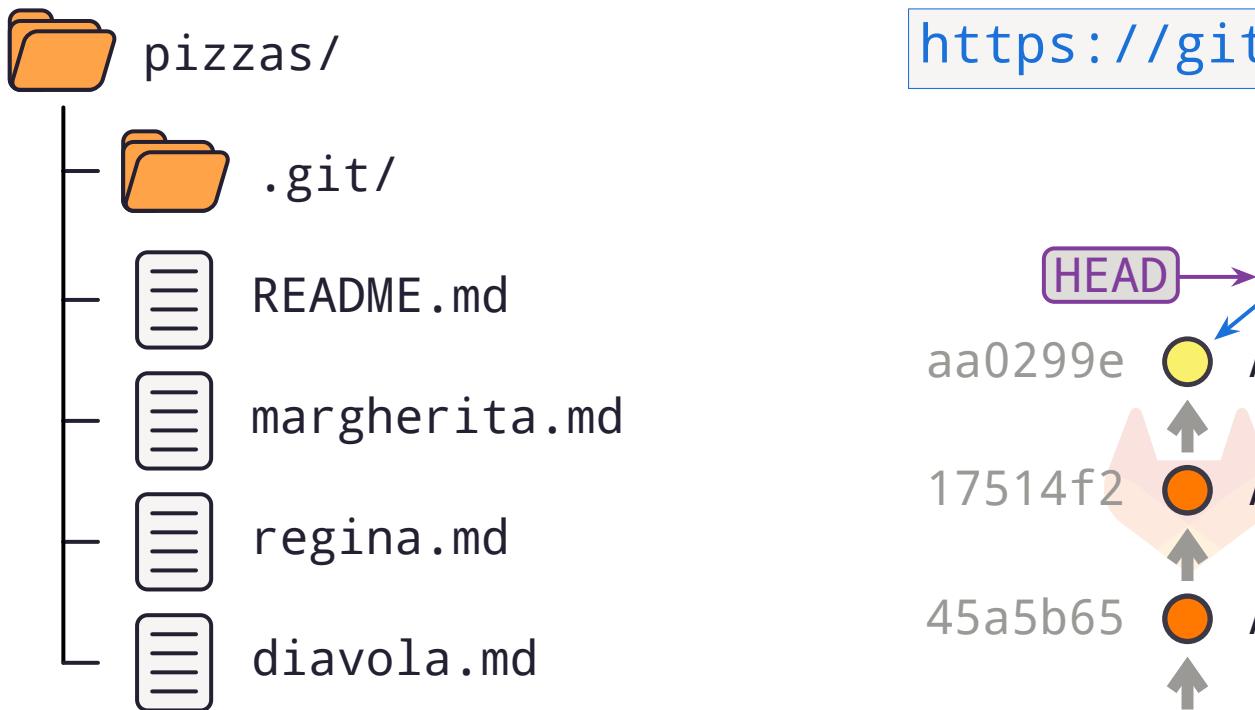


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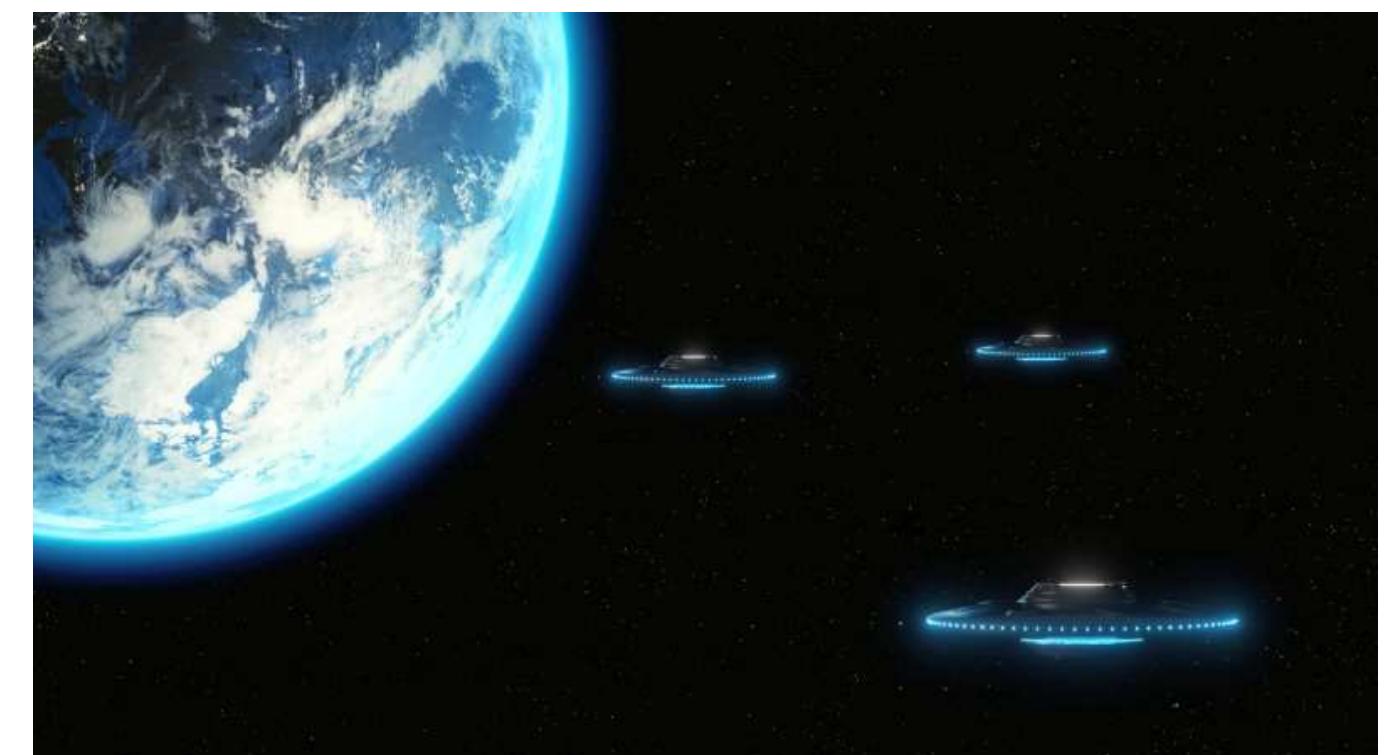


# Maintain Your Project

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



# Collaborate

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# Collaborate

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# Collaborate

You're Not Alone



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gitlab



# Collaborate

You're Not Alone



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



\$ git clone <url>



# Collaborate

You're Not Alone



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



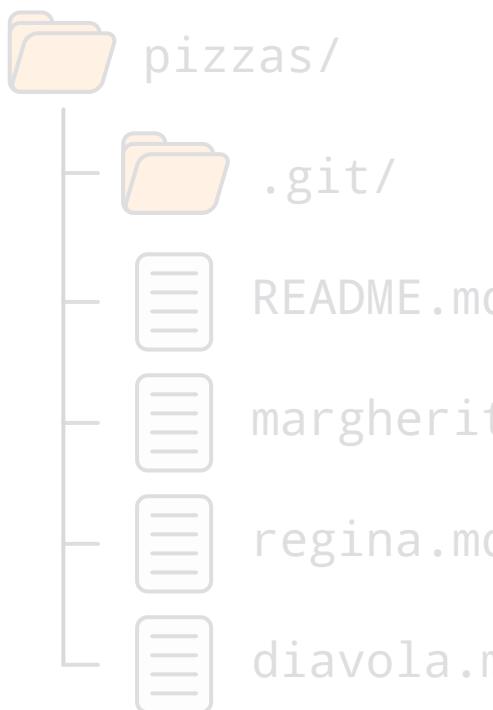
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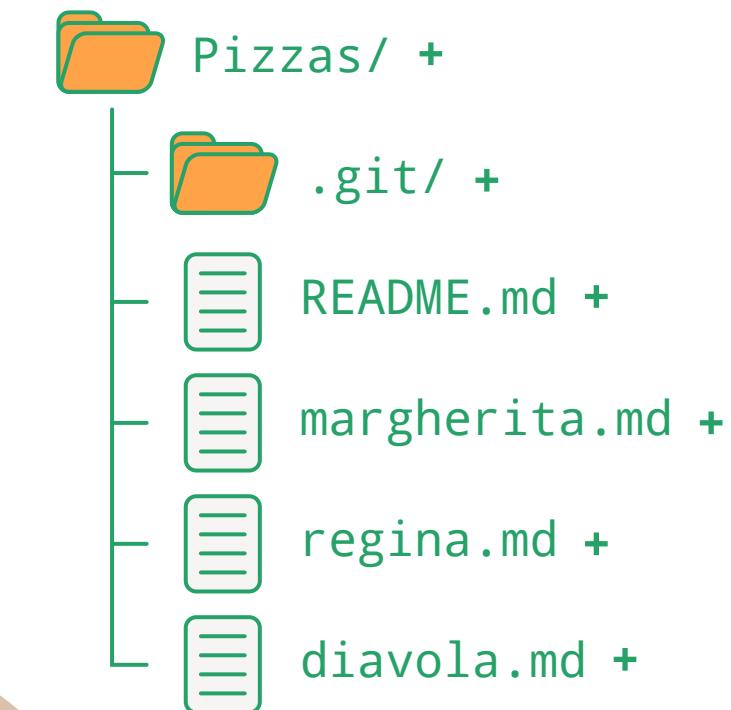


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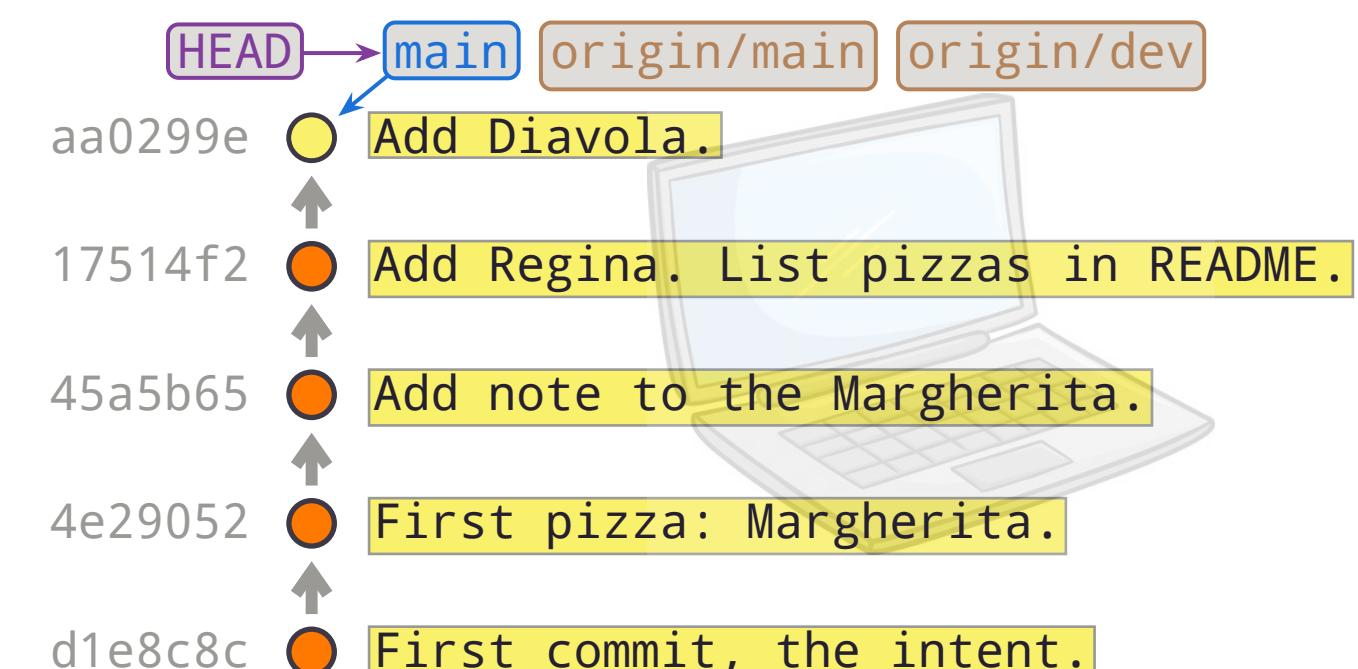
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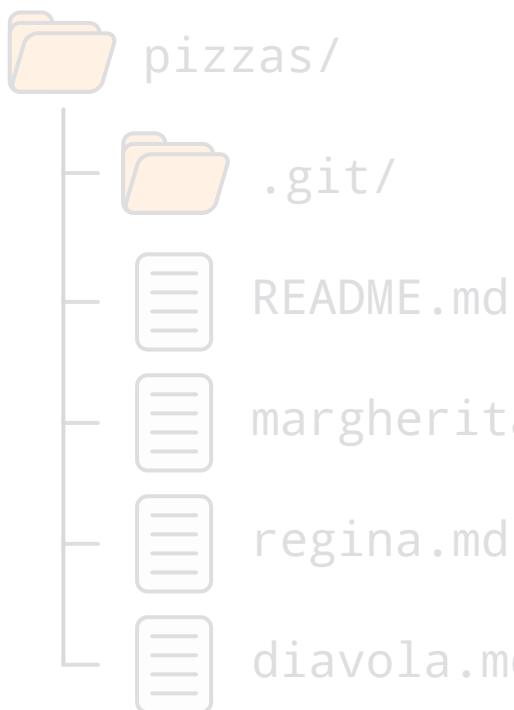


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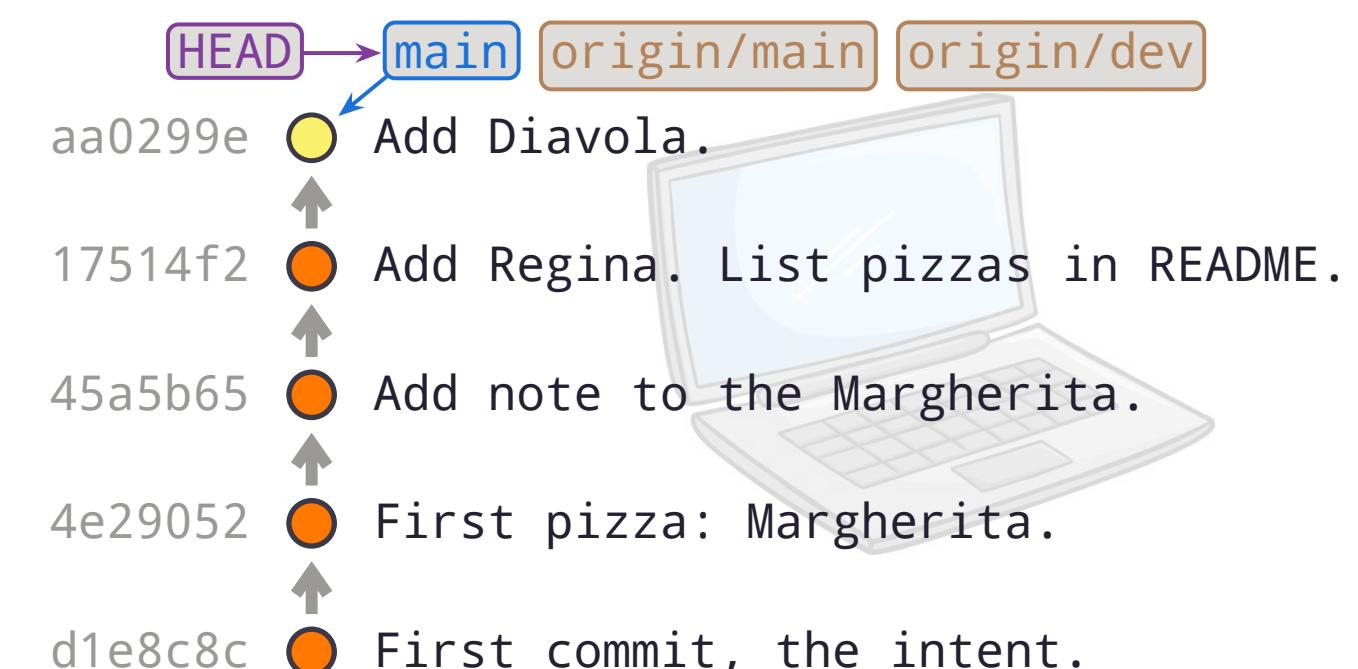
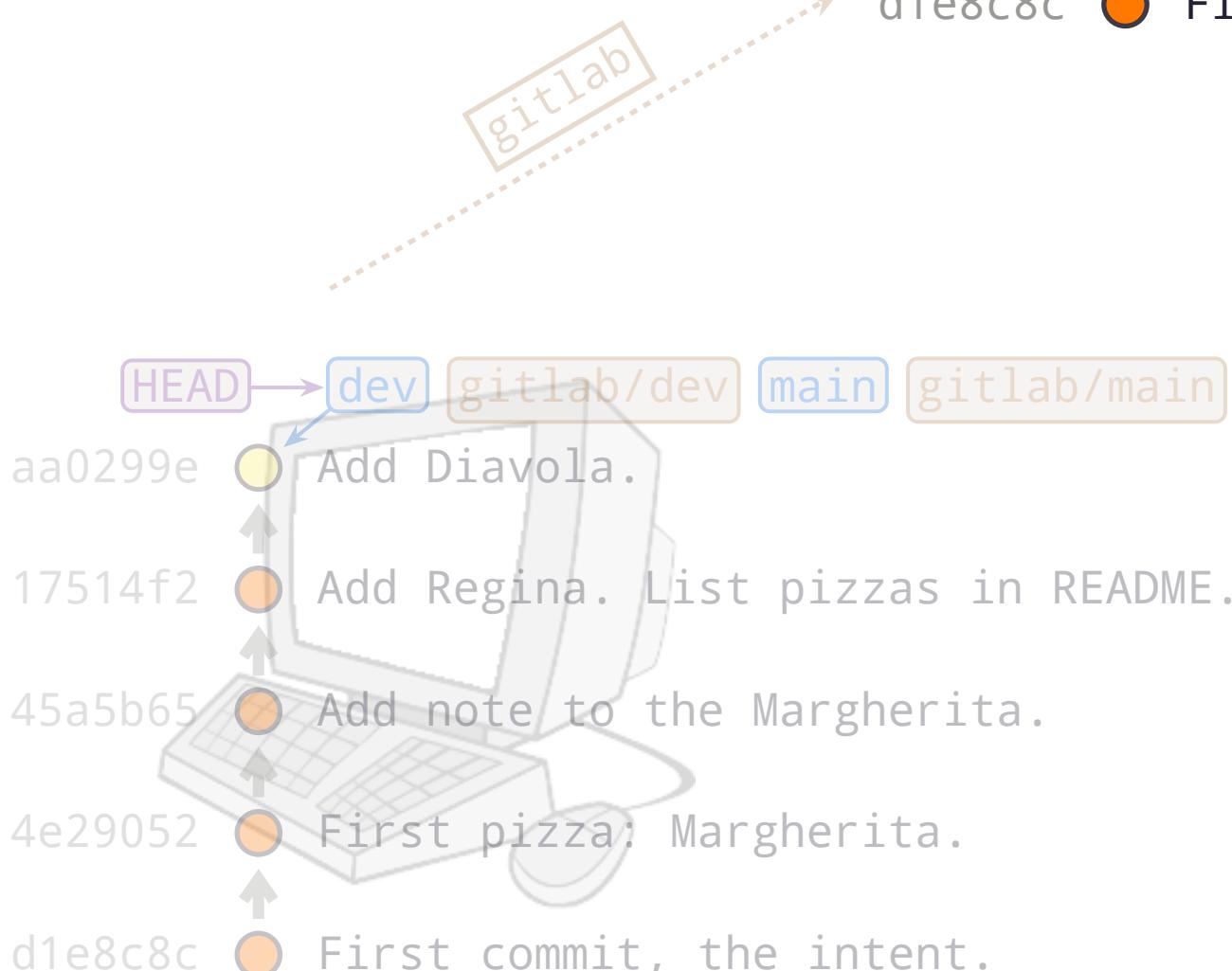
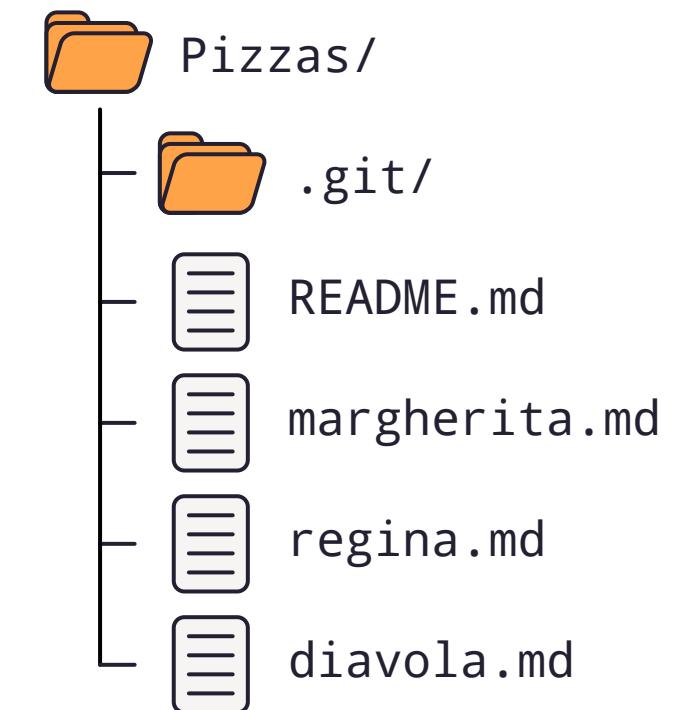


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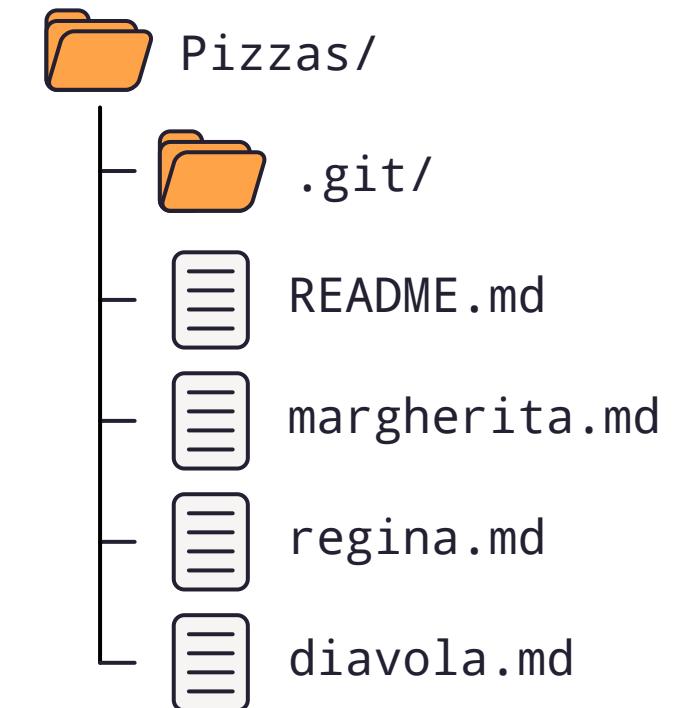


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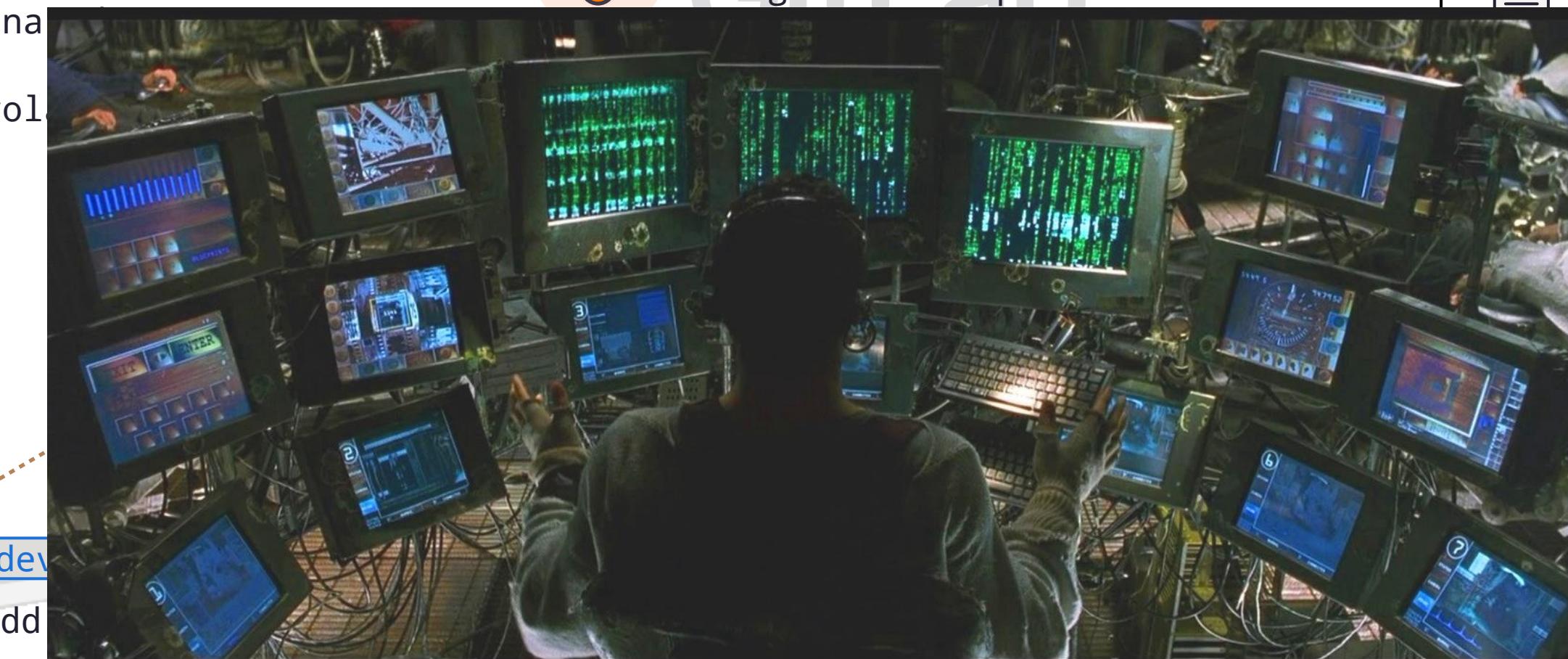


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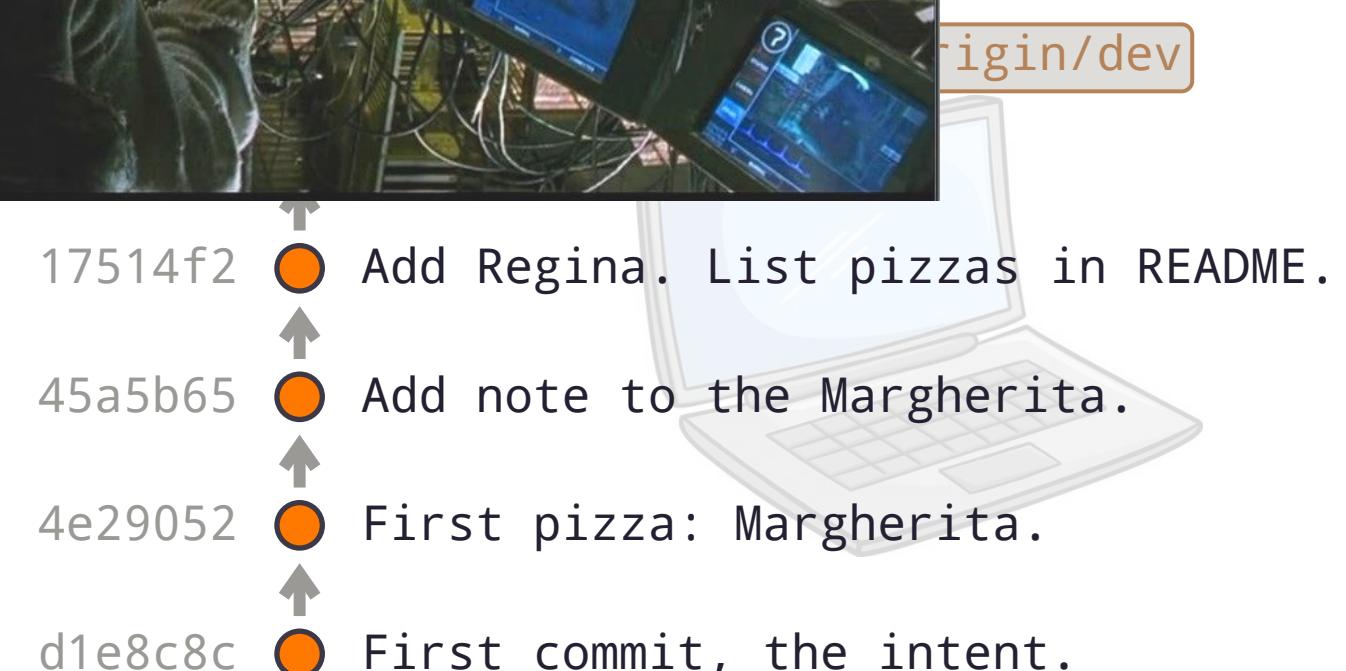
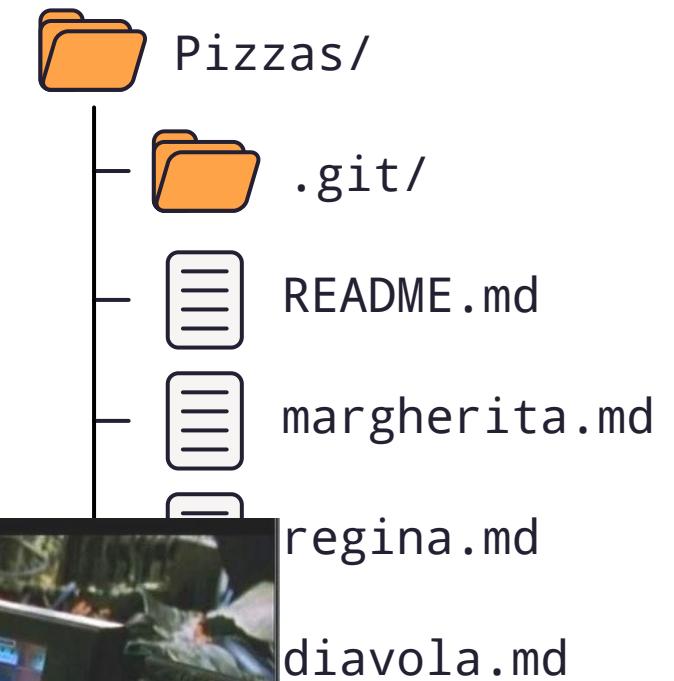


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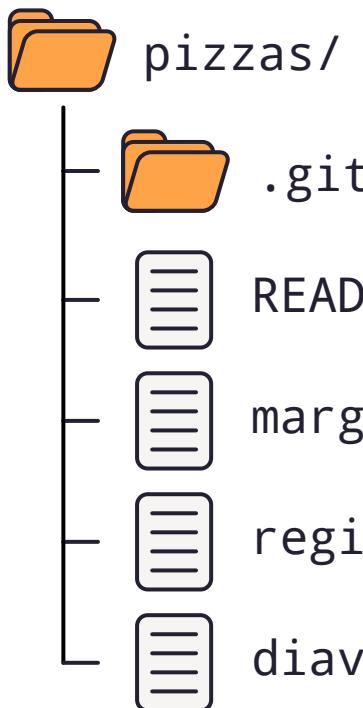


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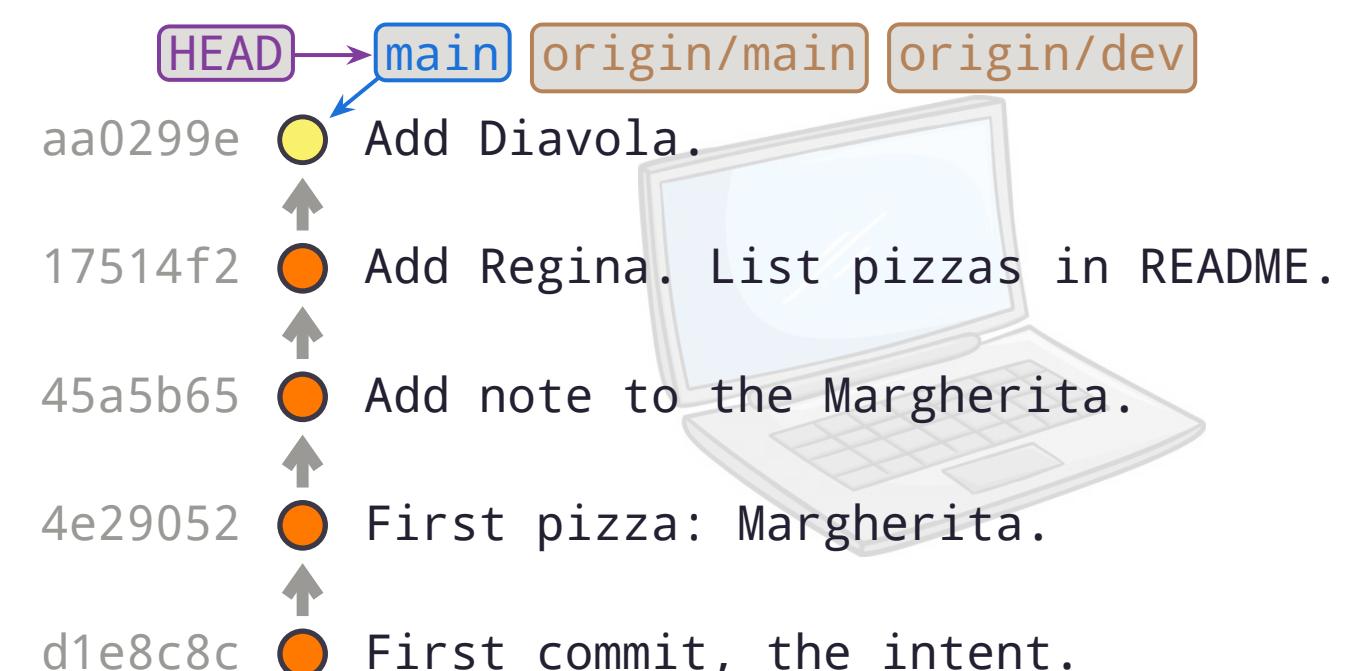
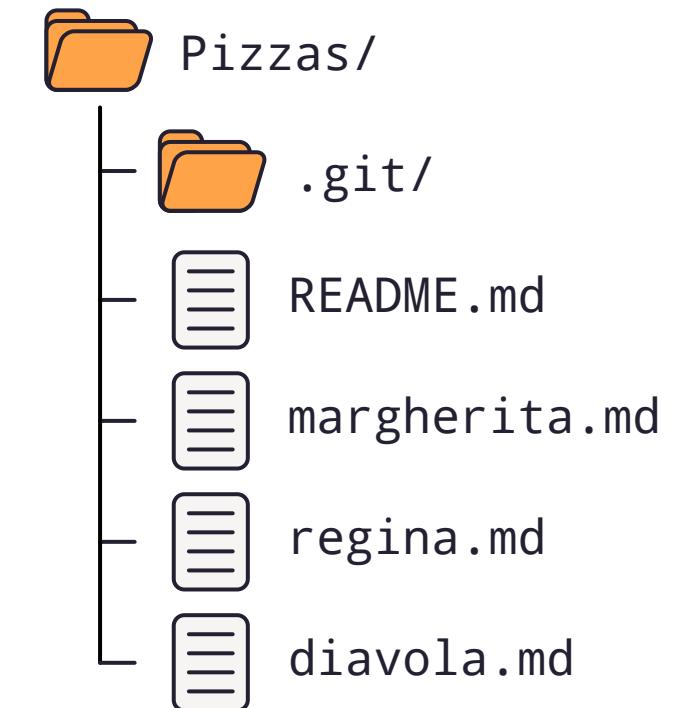


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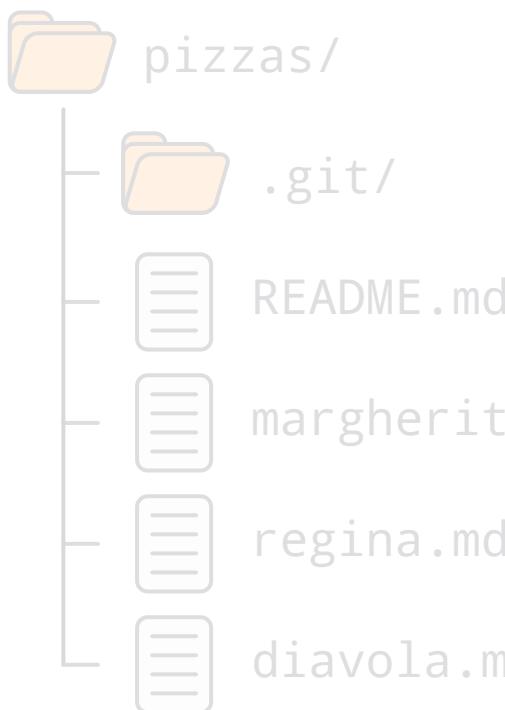


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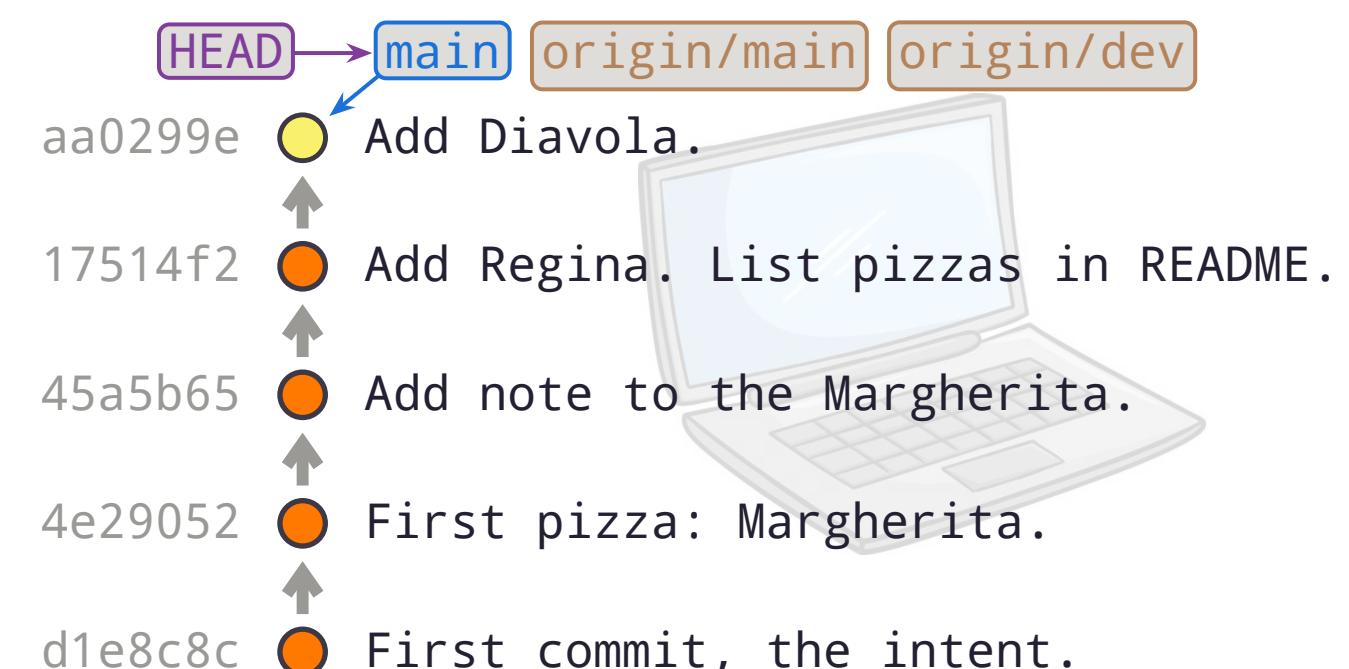
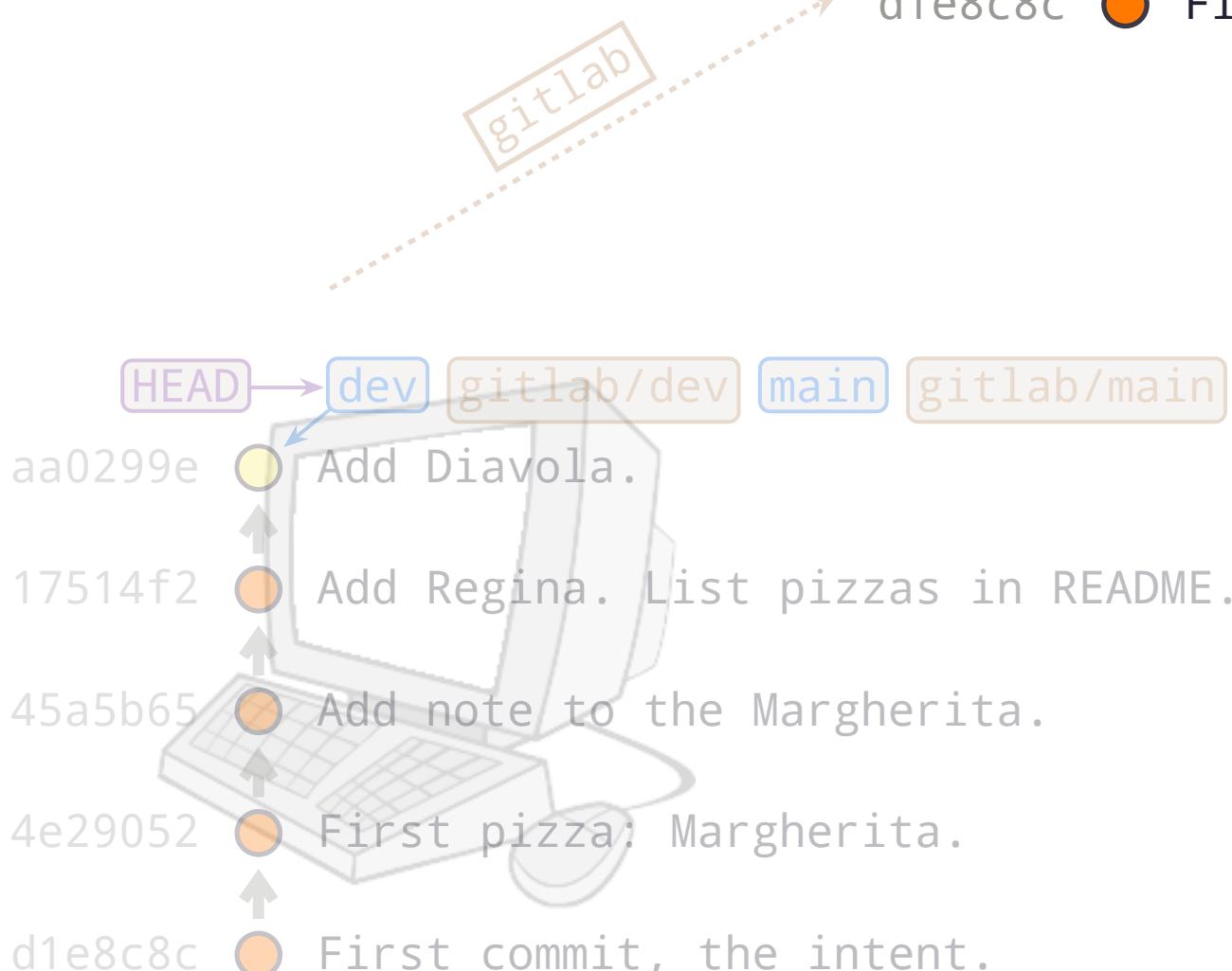
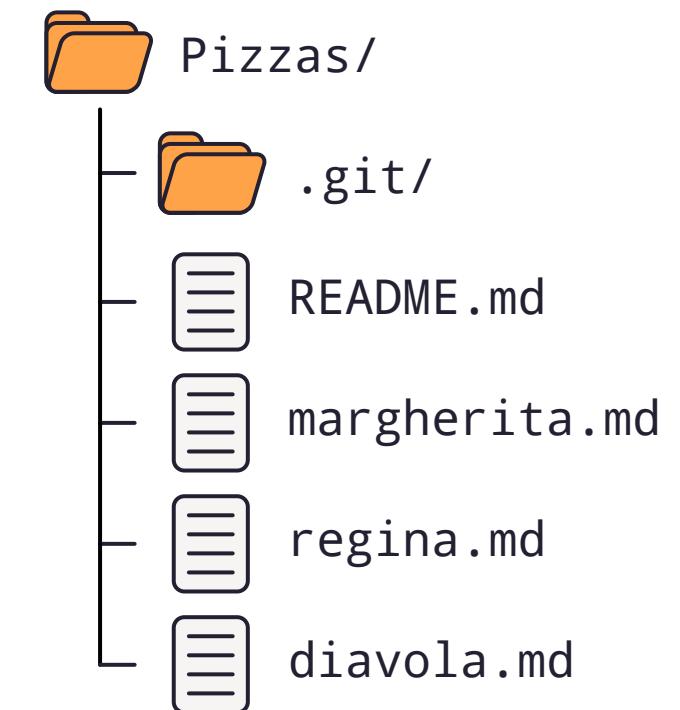


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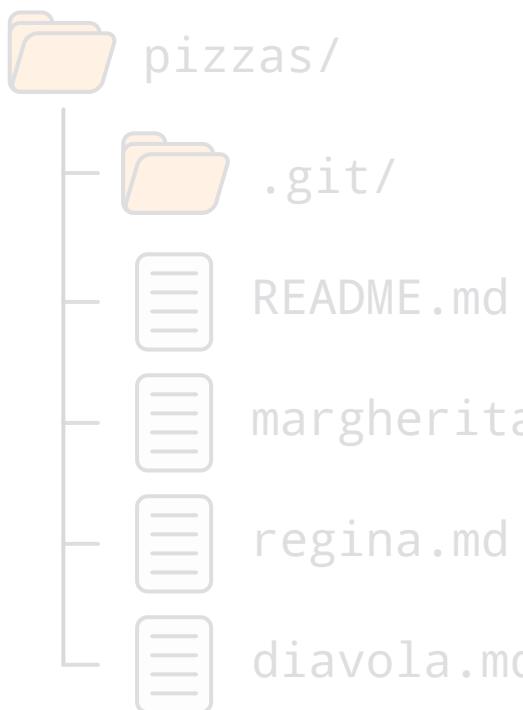


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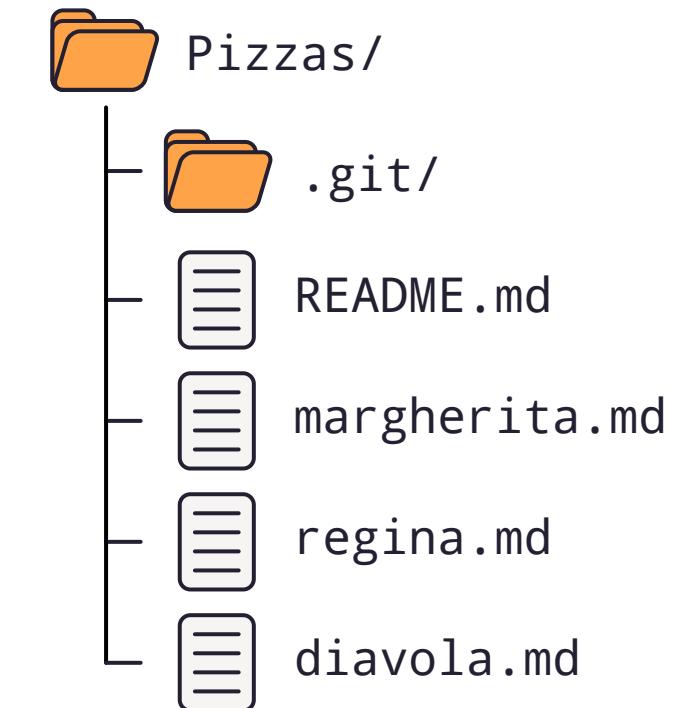


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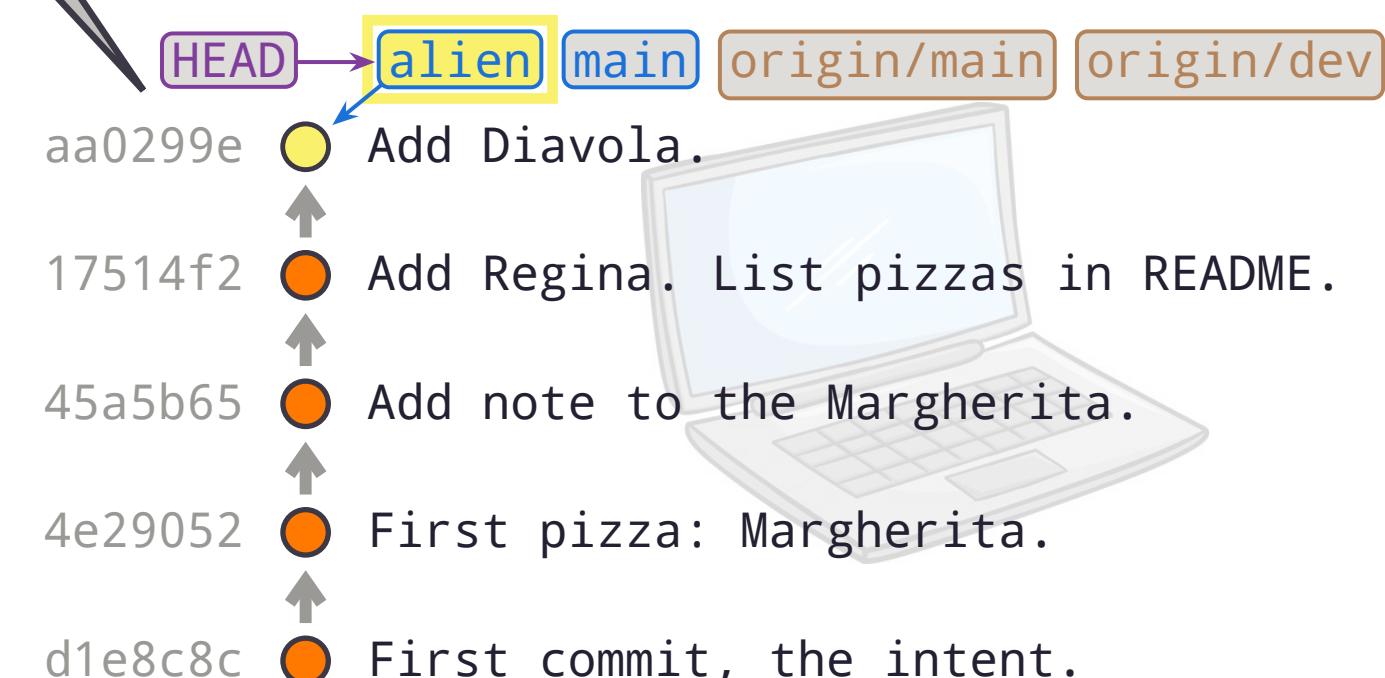
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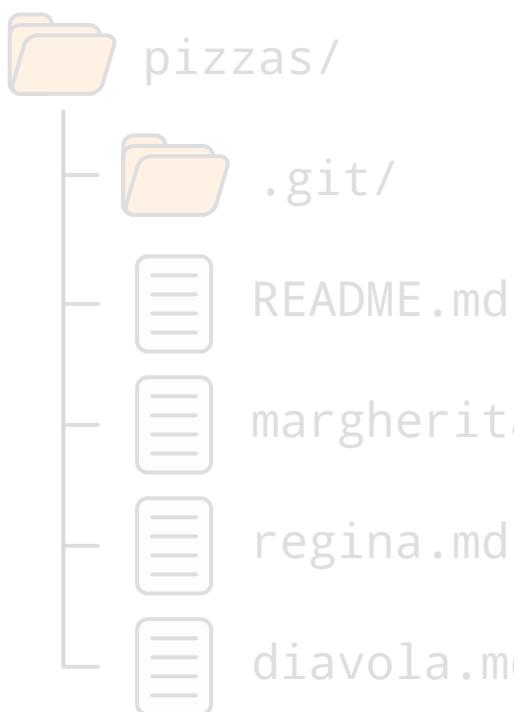


\$ git checkout -b alien

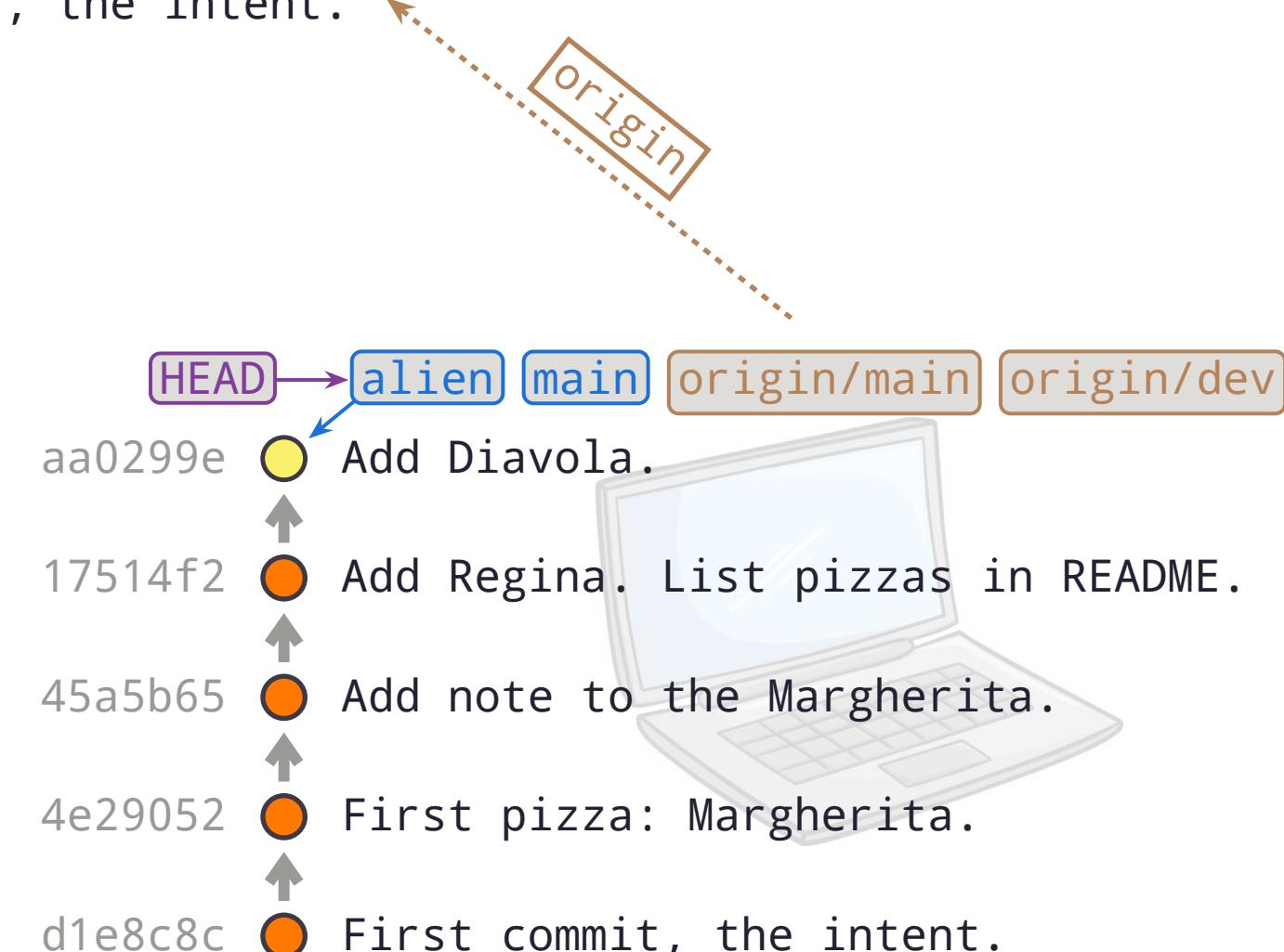
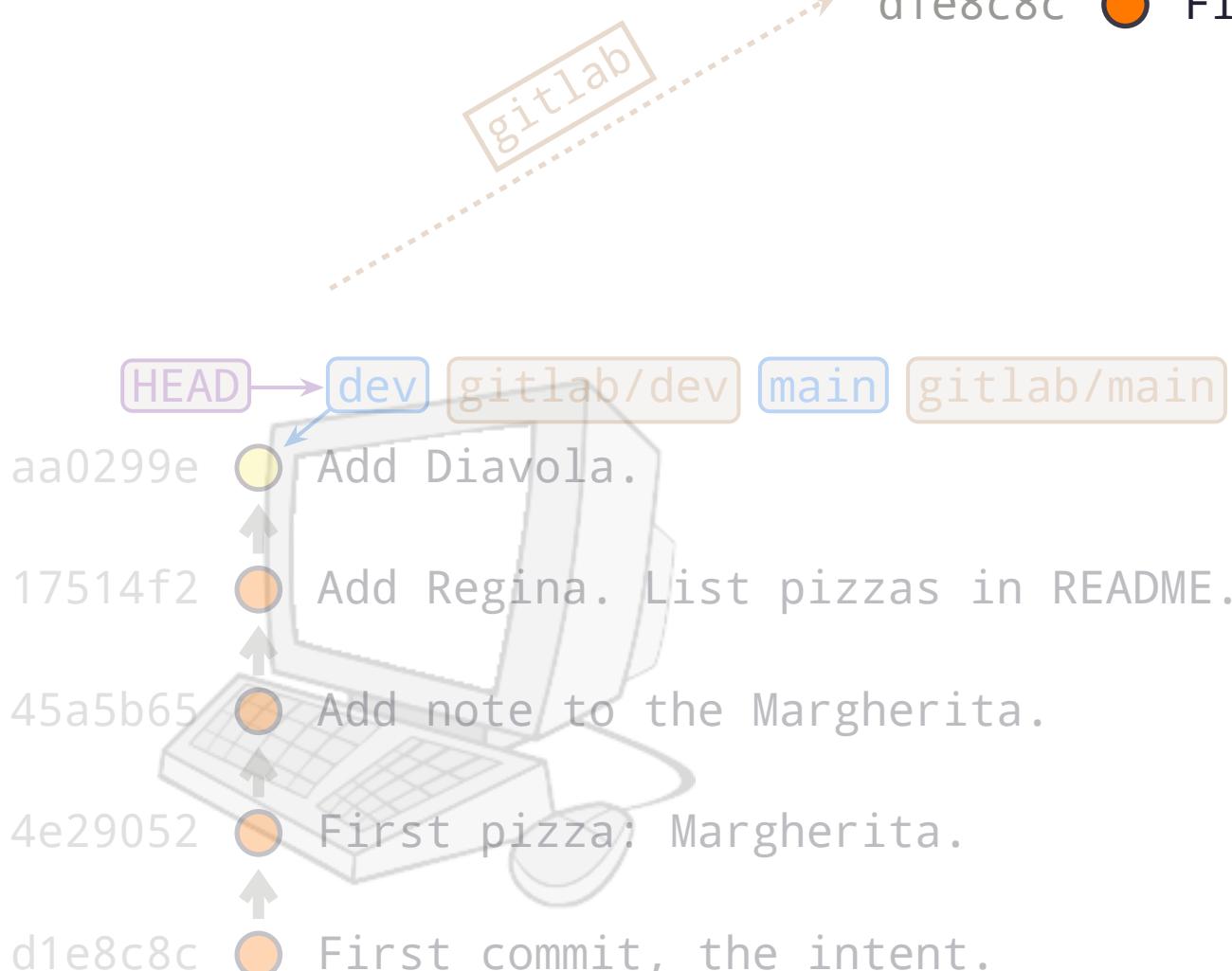
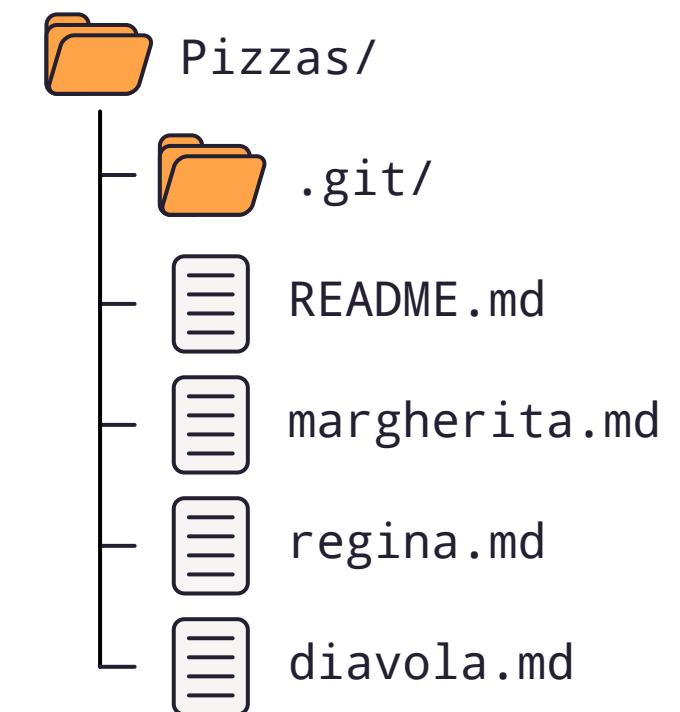


# Collaborate

You're Not Alone

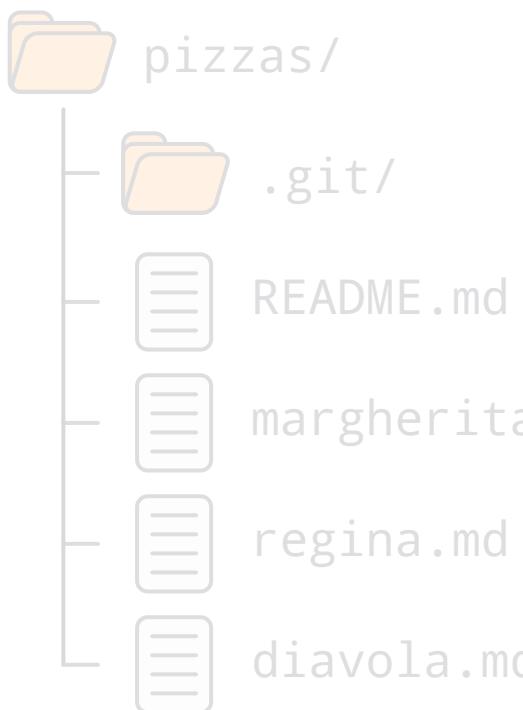


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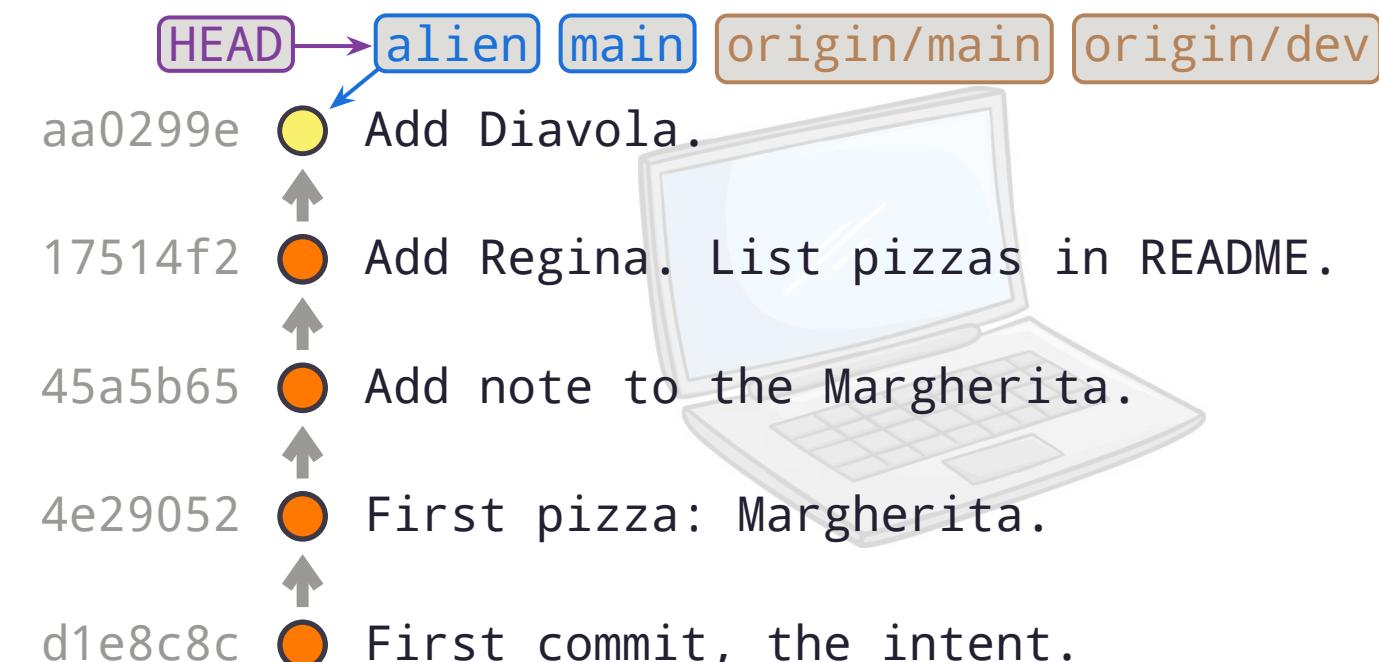
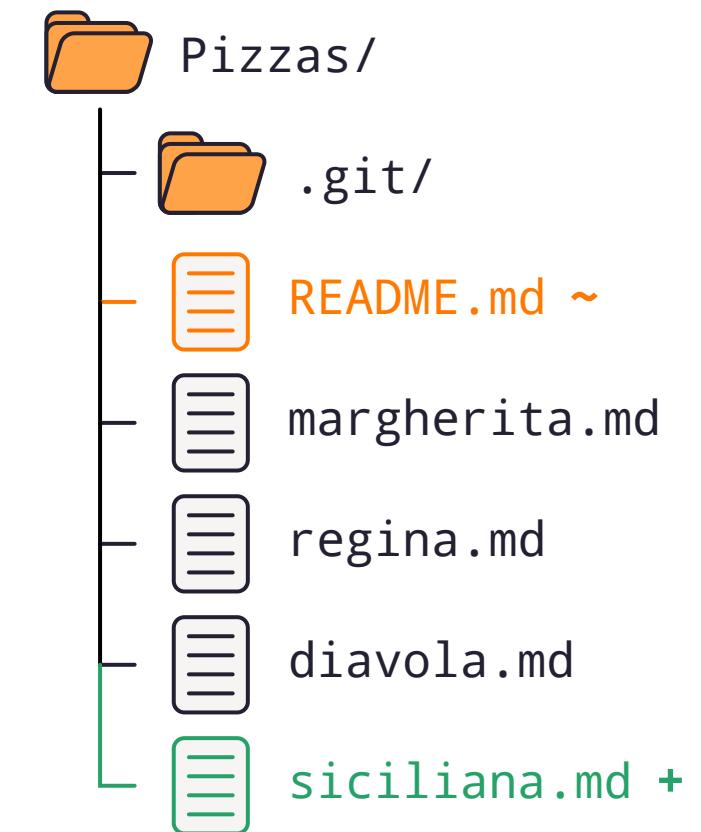


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You're Not Alone

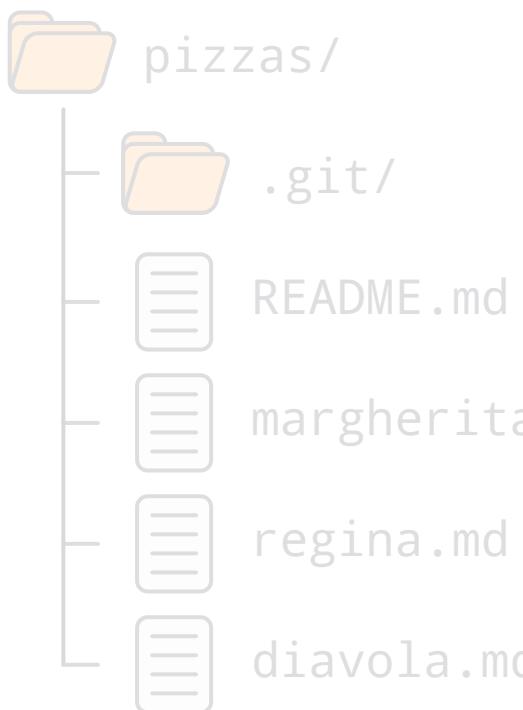


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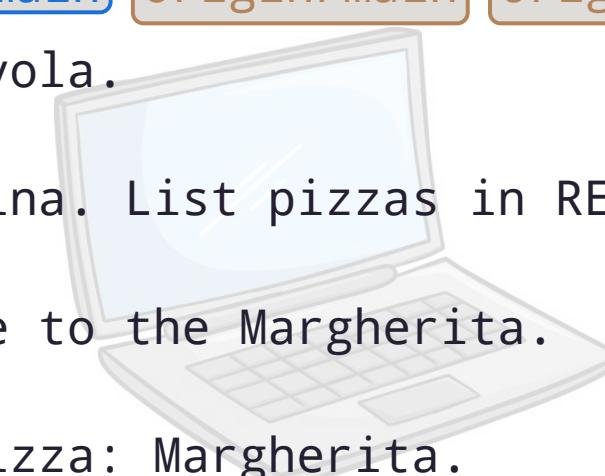
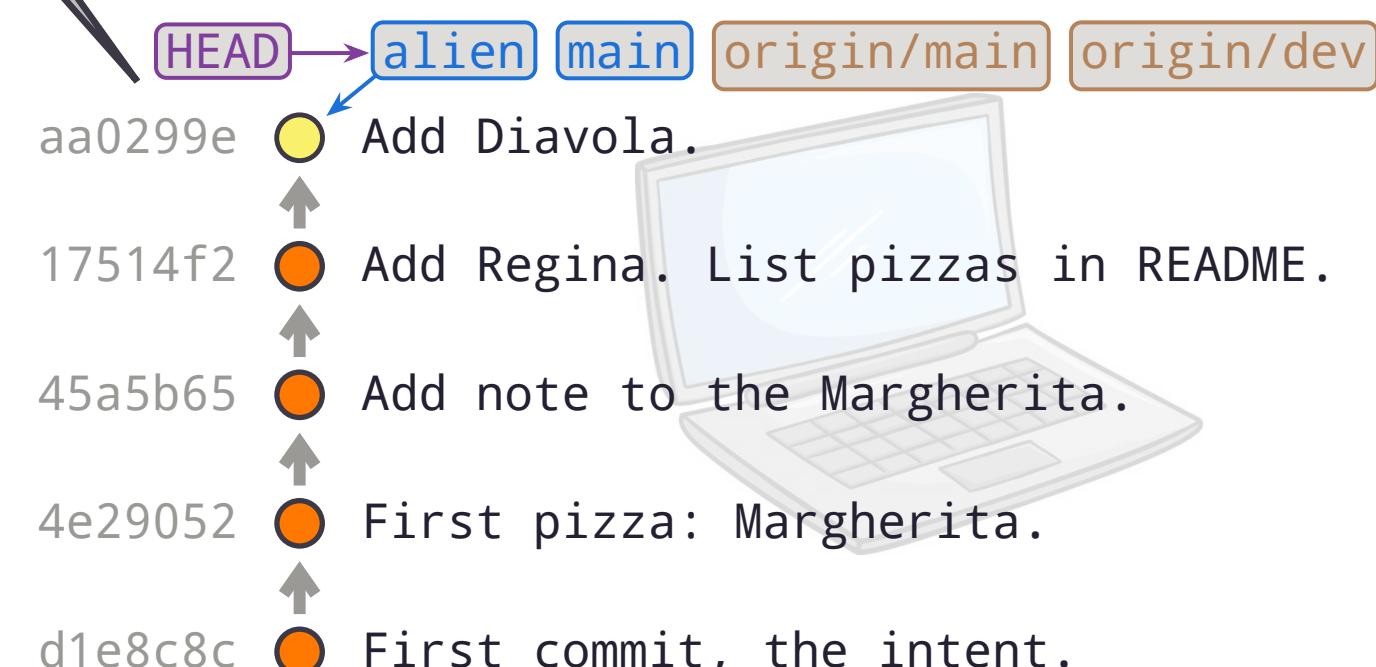
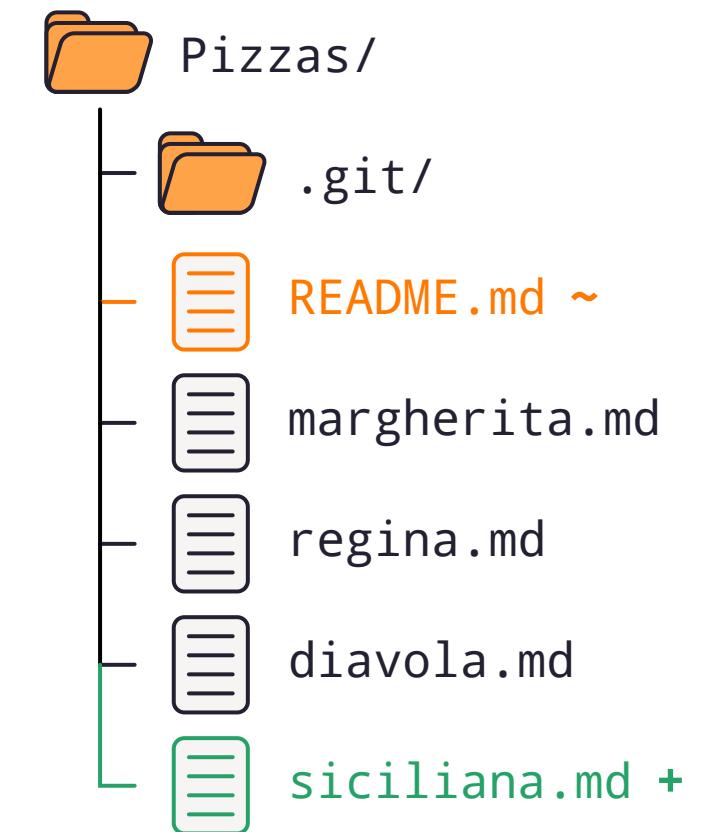
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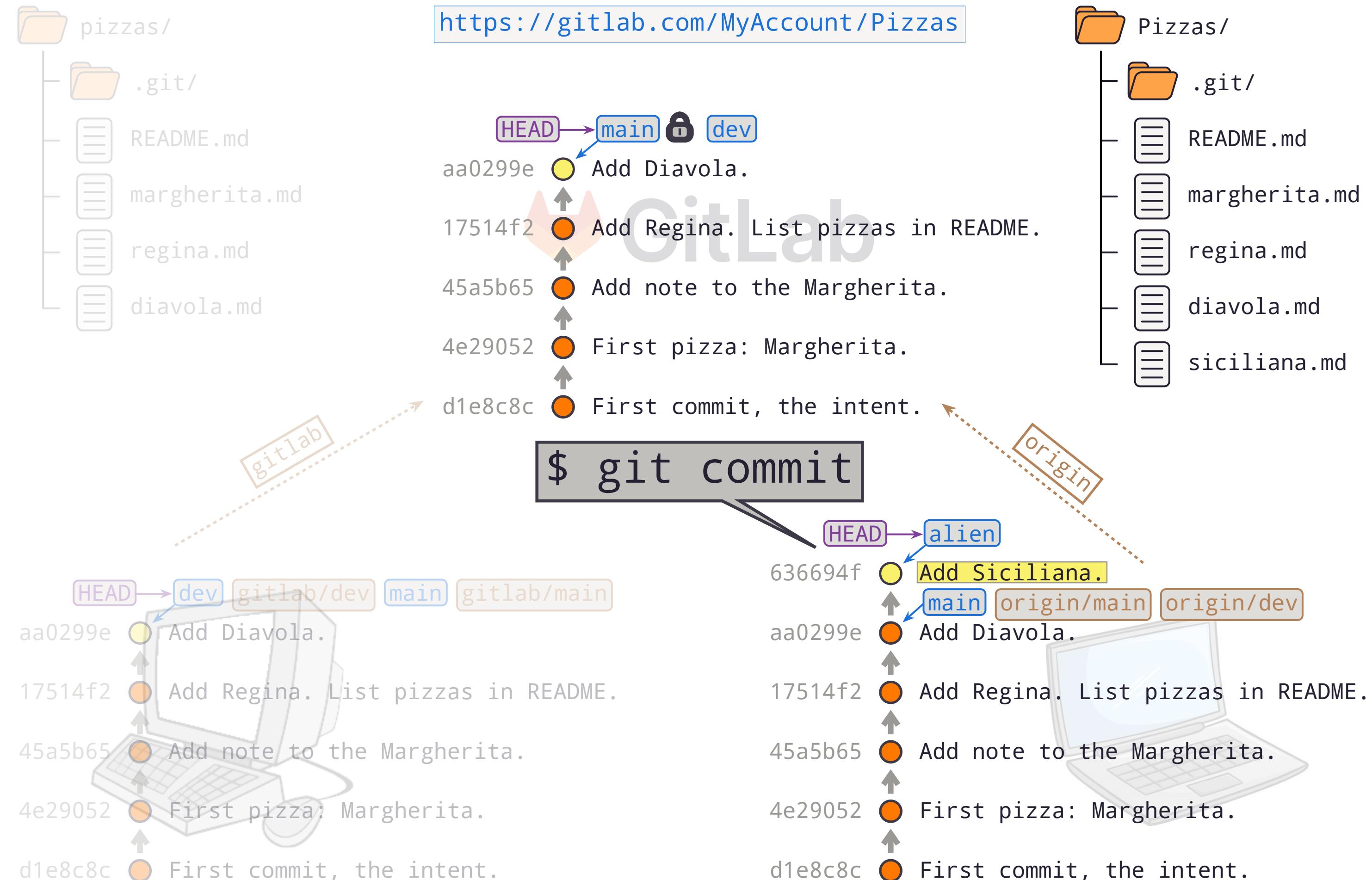


\$ git commit



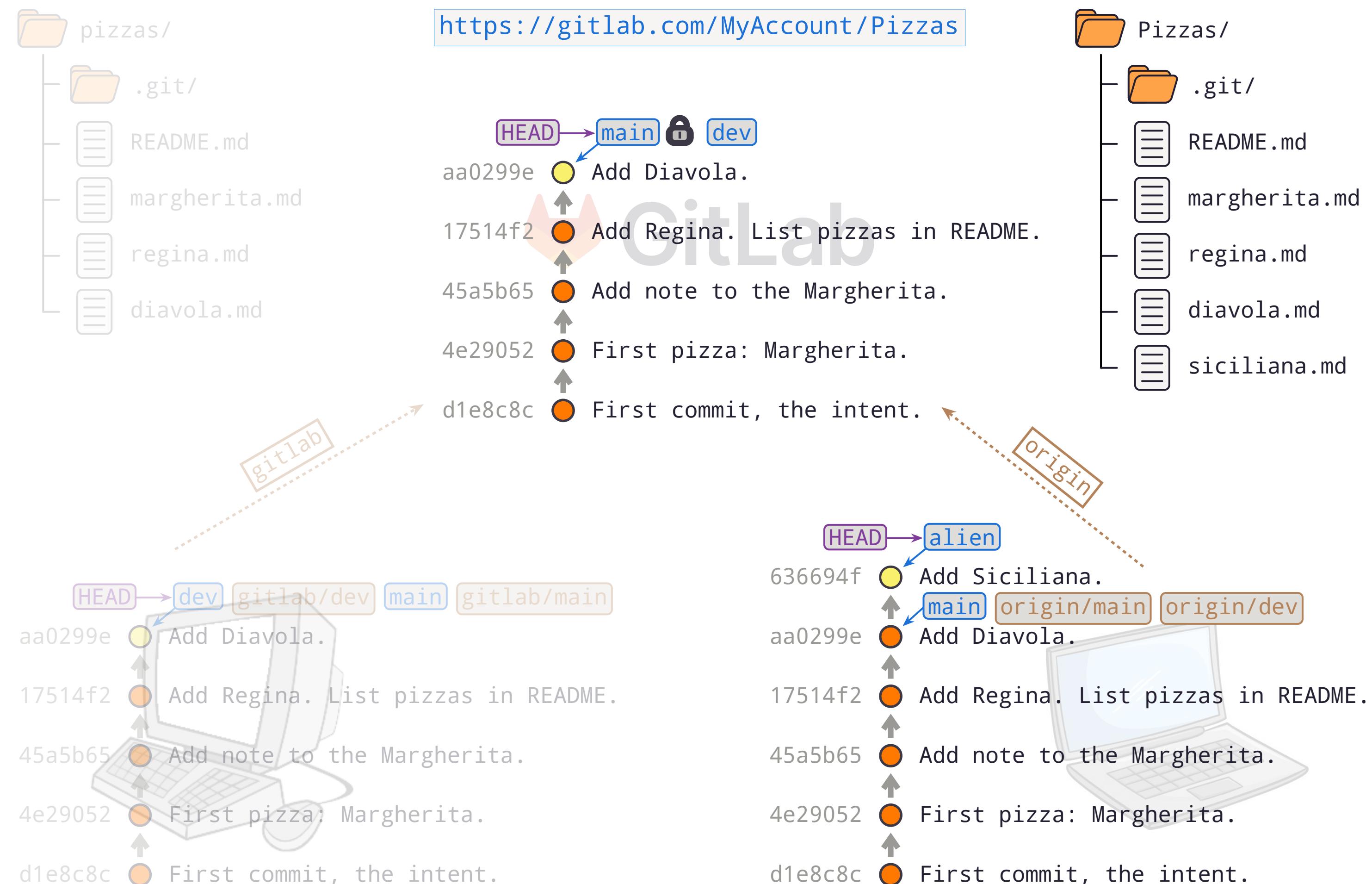
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You're Not Alone



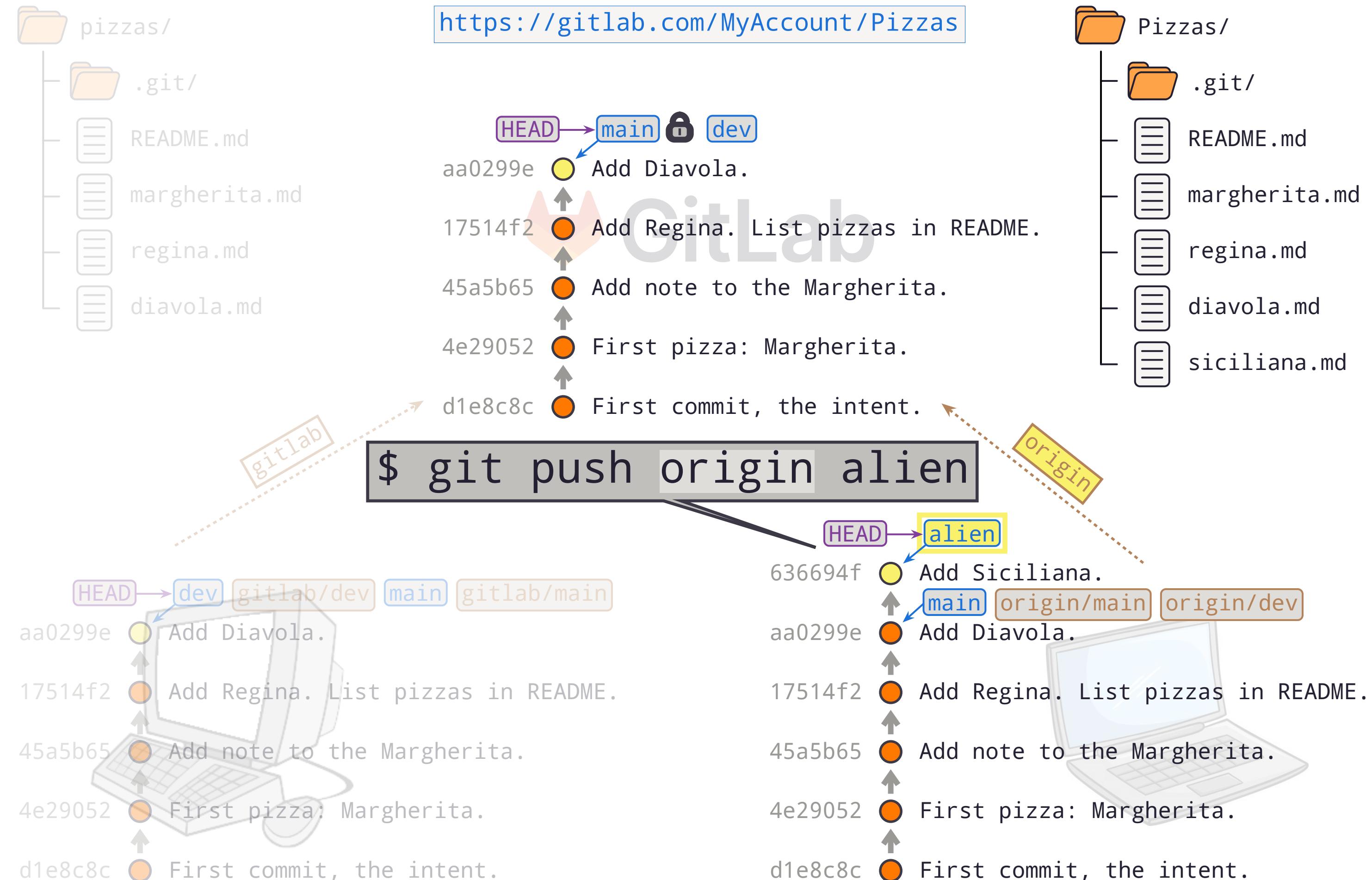
# Collaborate

You're Not Alone



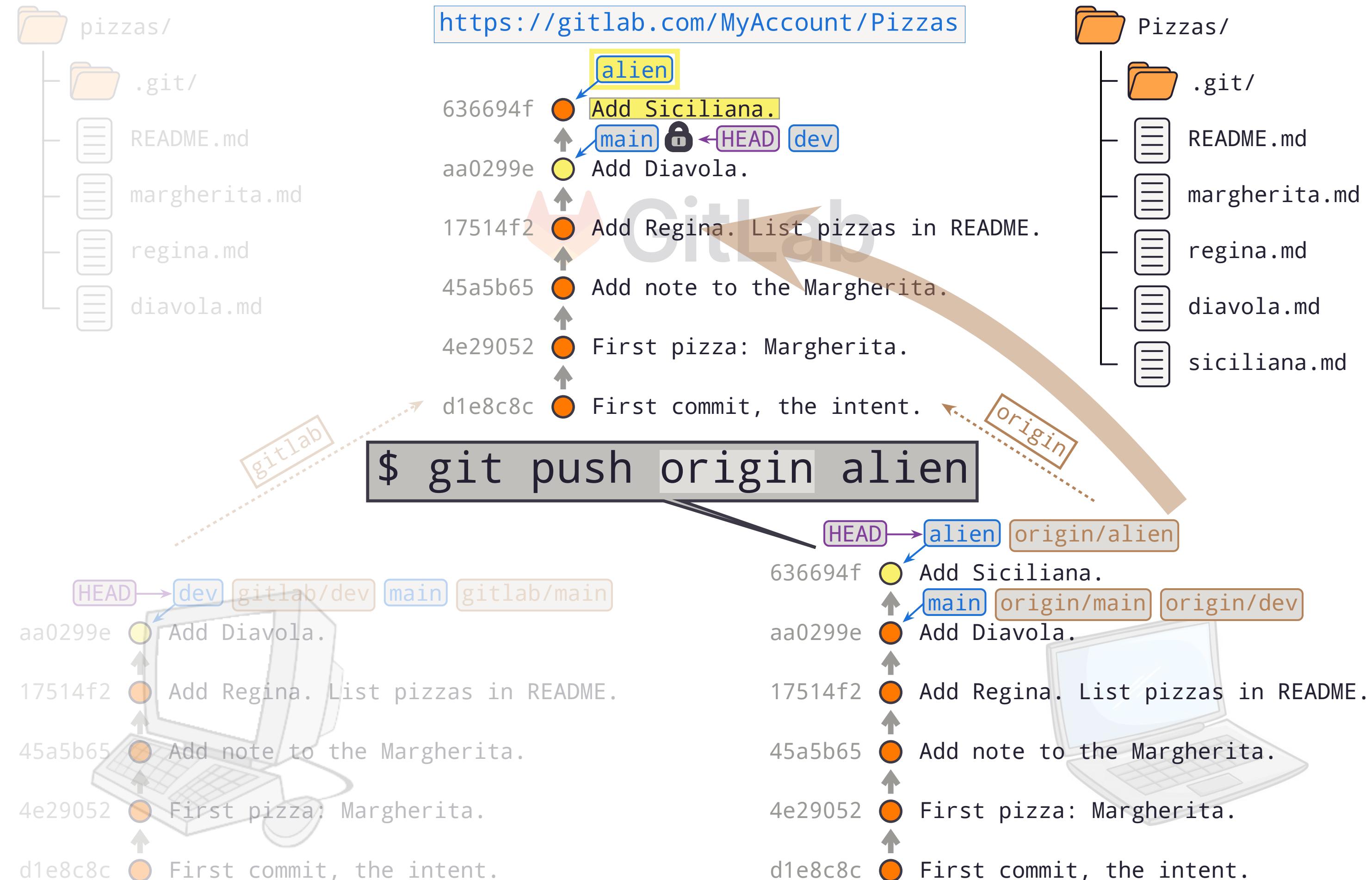
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You're Not Alone



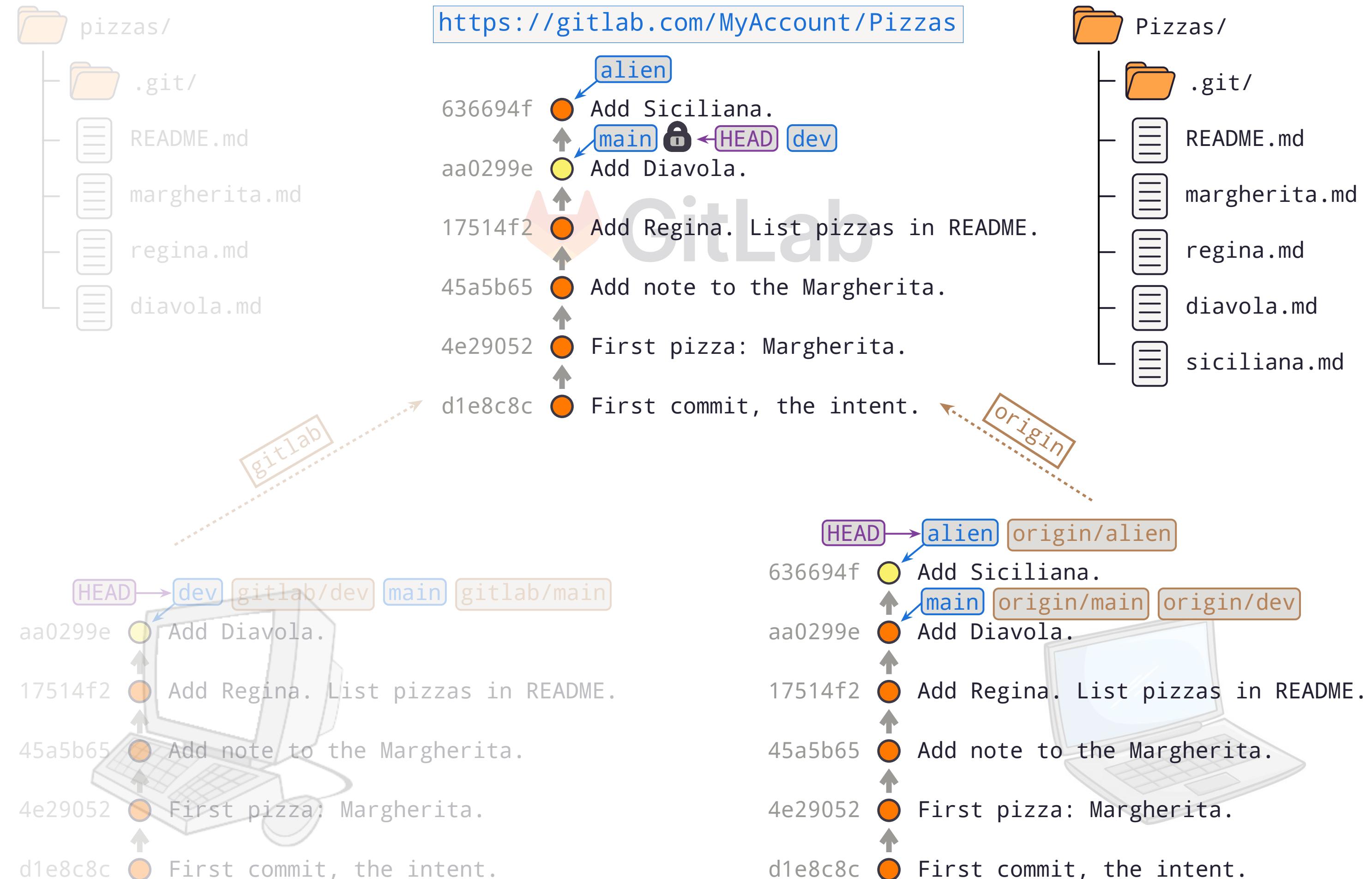
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You're Not Alone



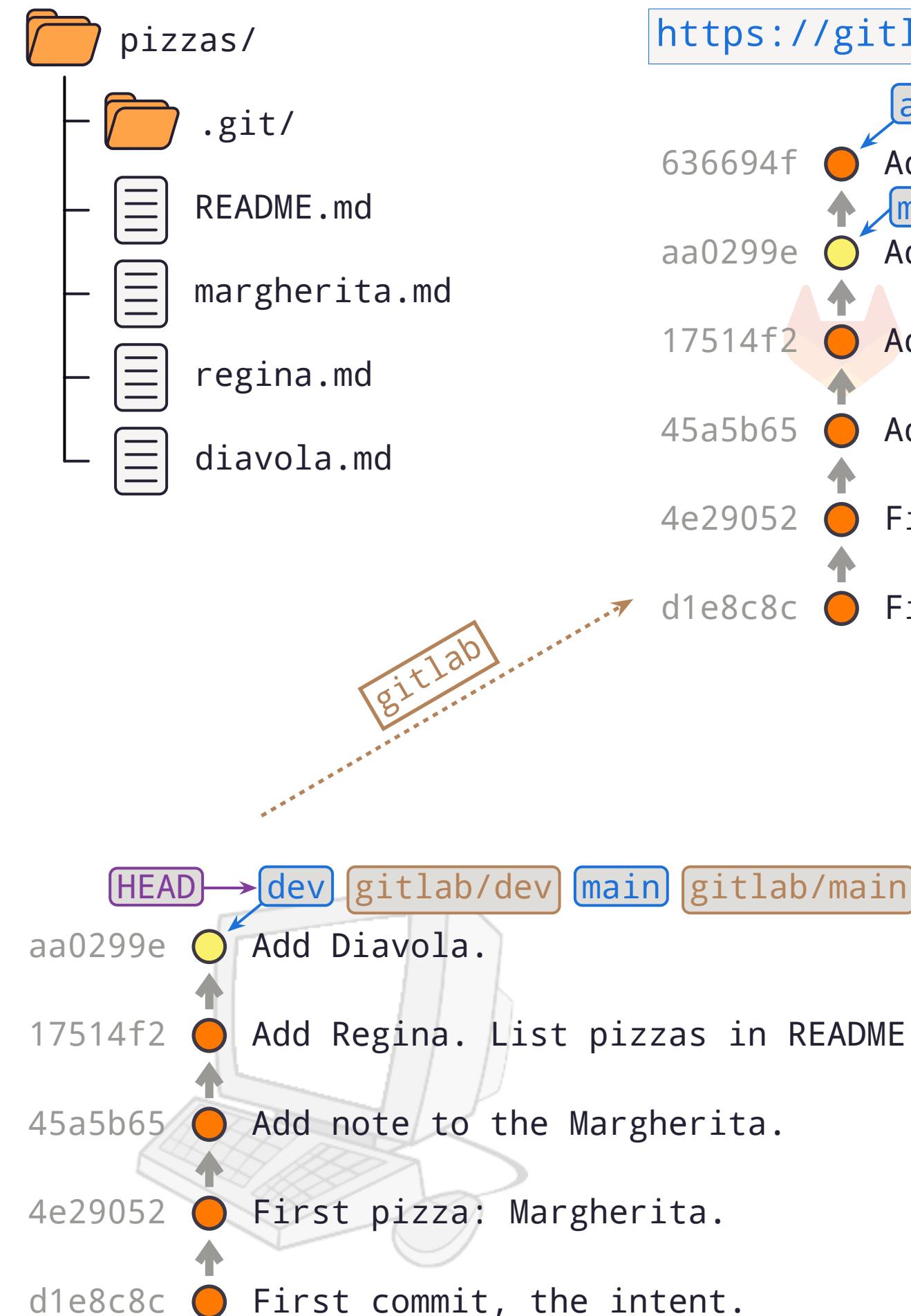
# Collaborate

You're Not Alone

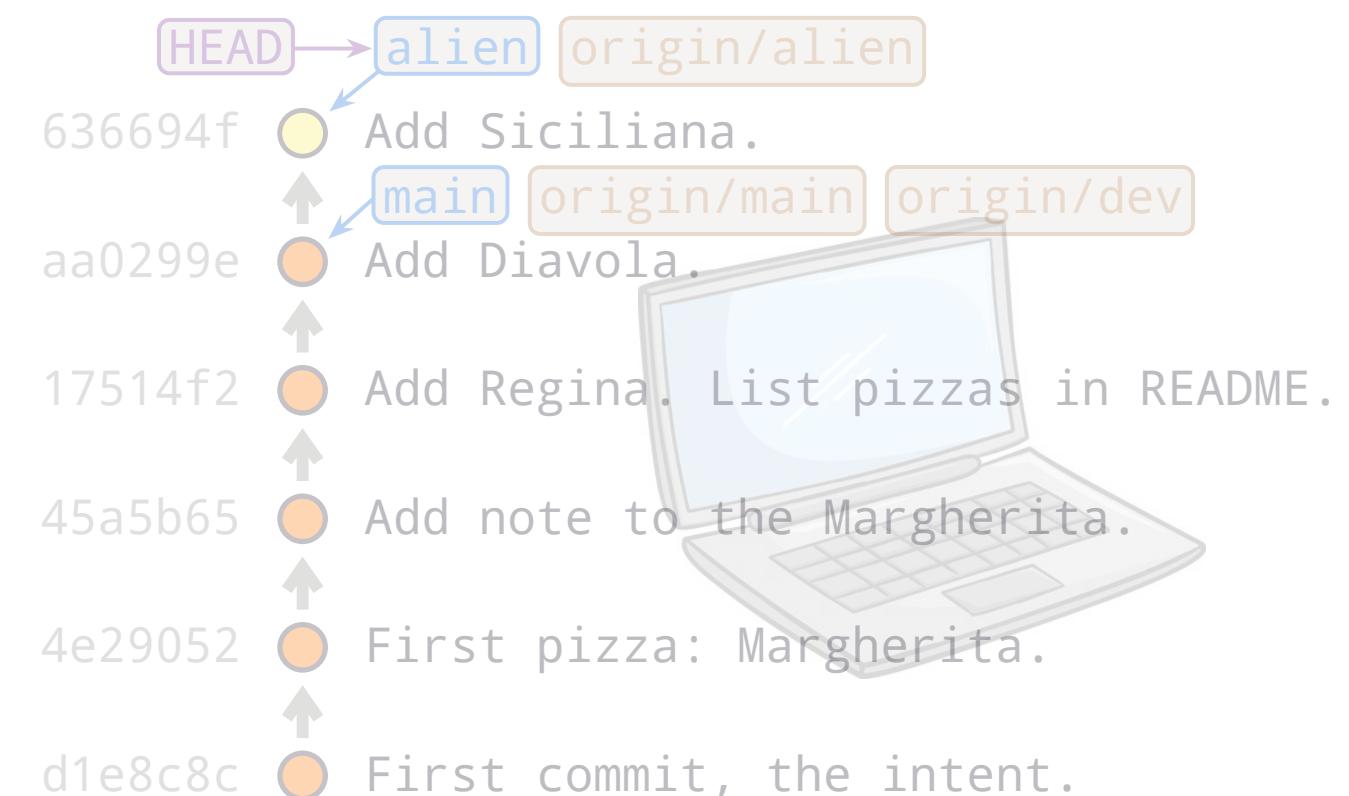
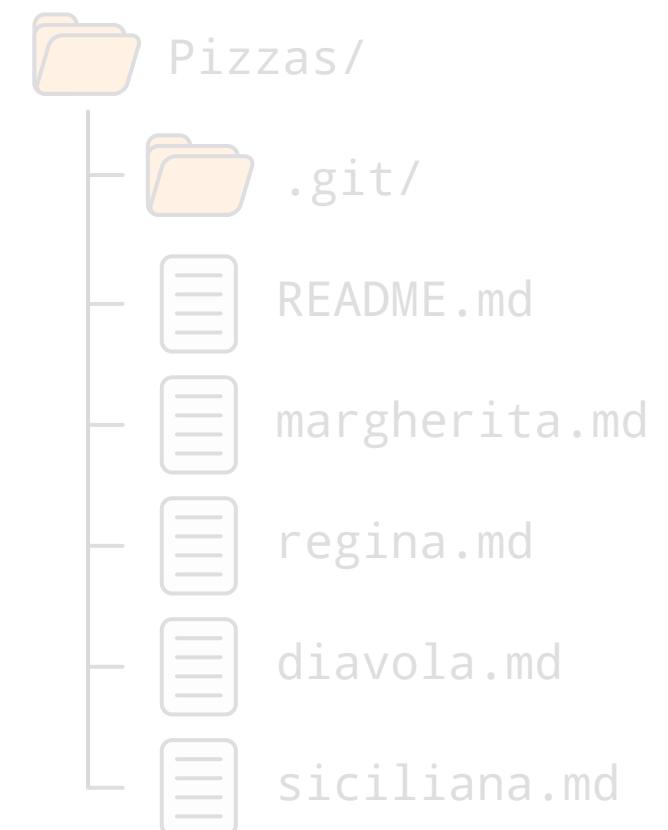


# Collaborate

You're Not Alone

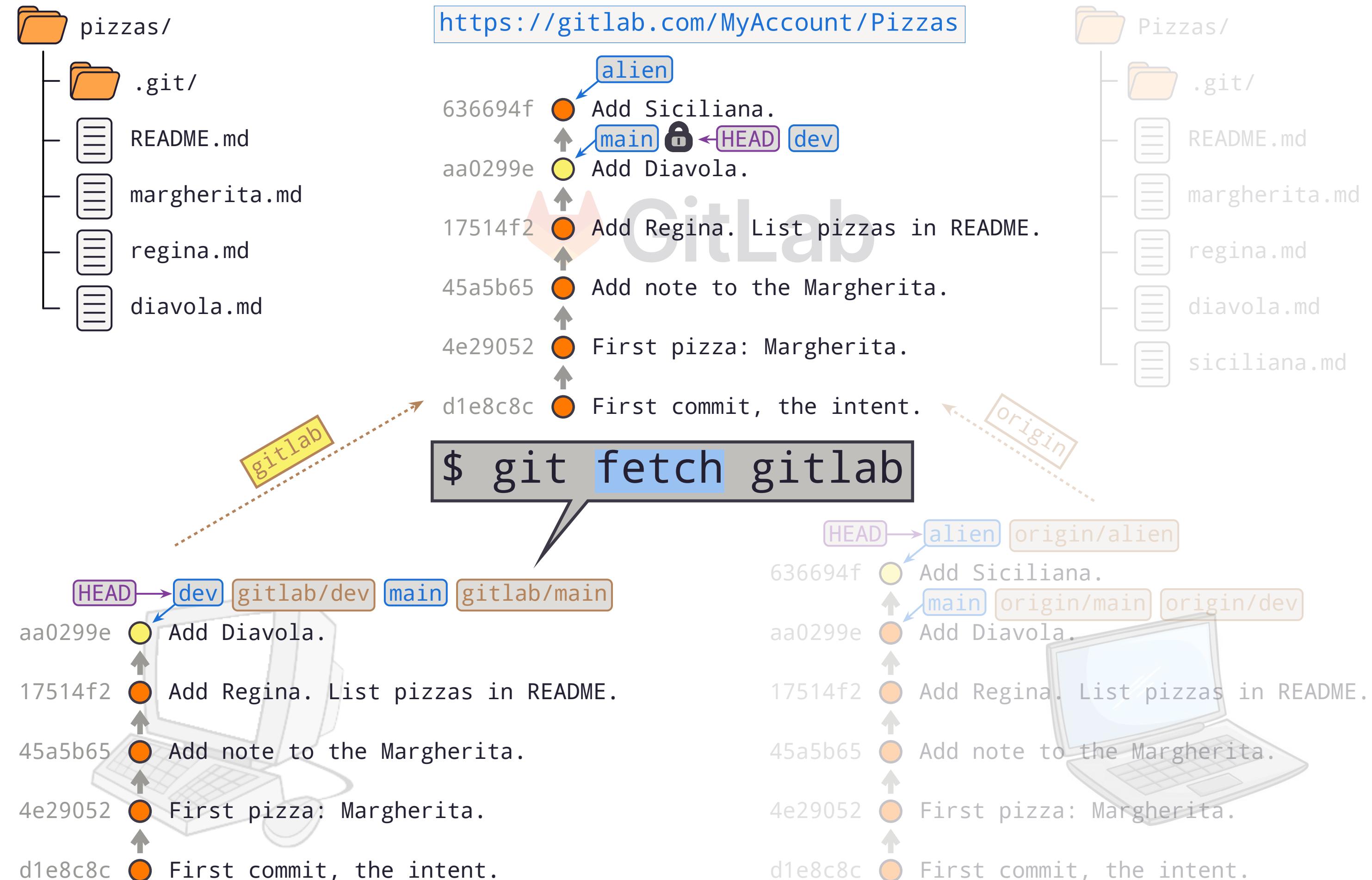


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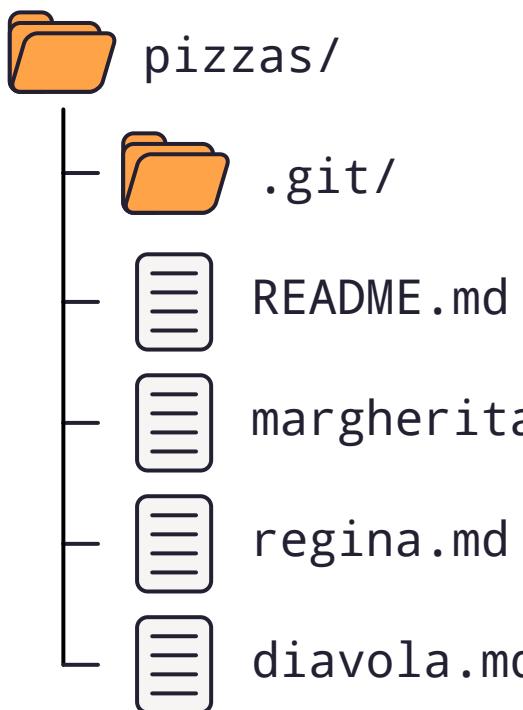
# Collaborate

You're Not Alone



# Collaborate

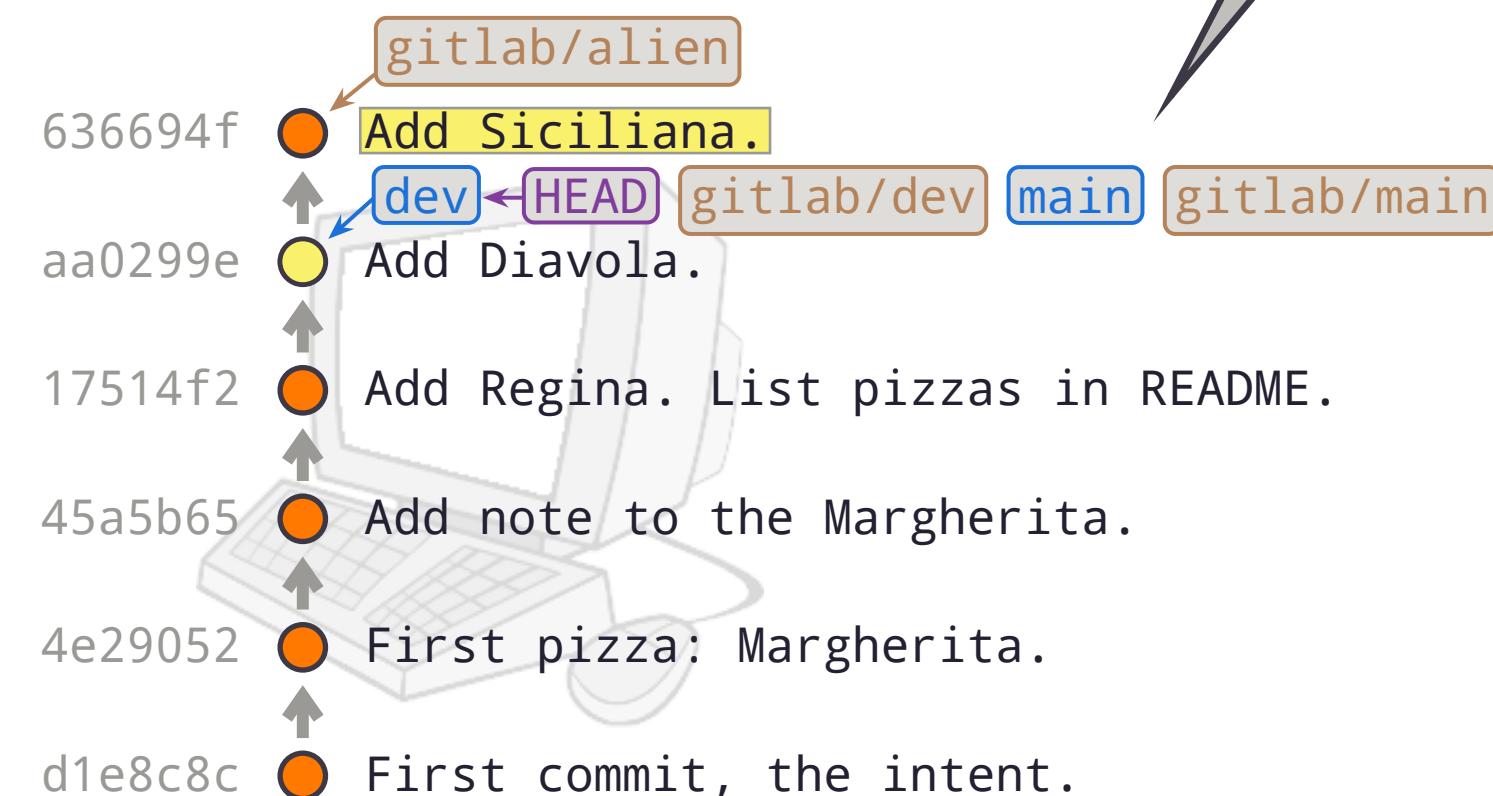
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<https://gitlab.com/MyAccount/Pizzas>

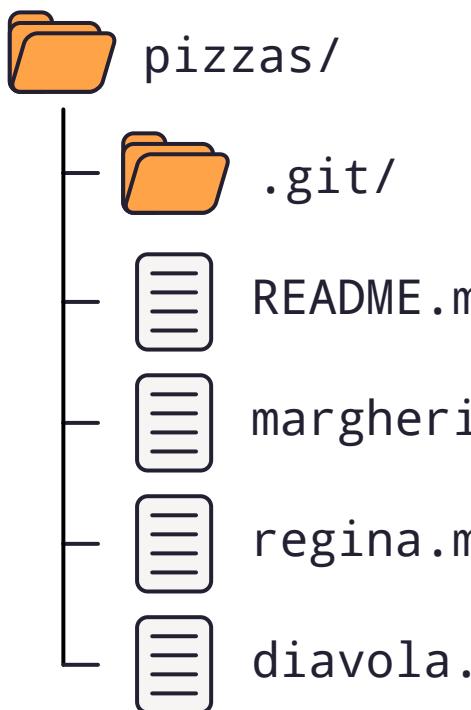


\$ git fetch gitlab

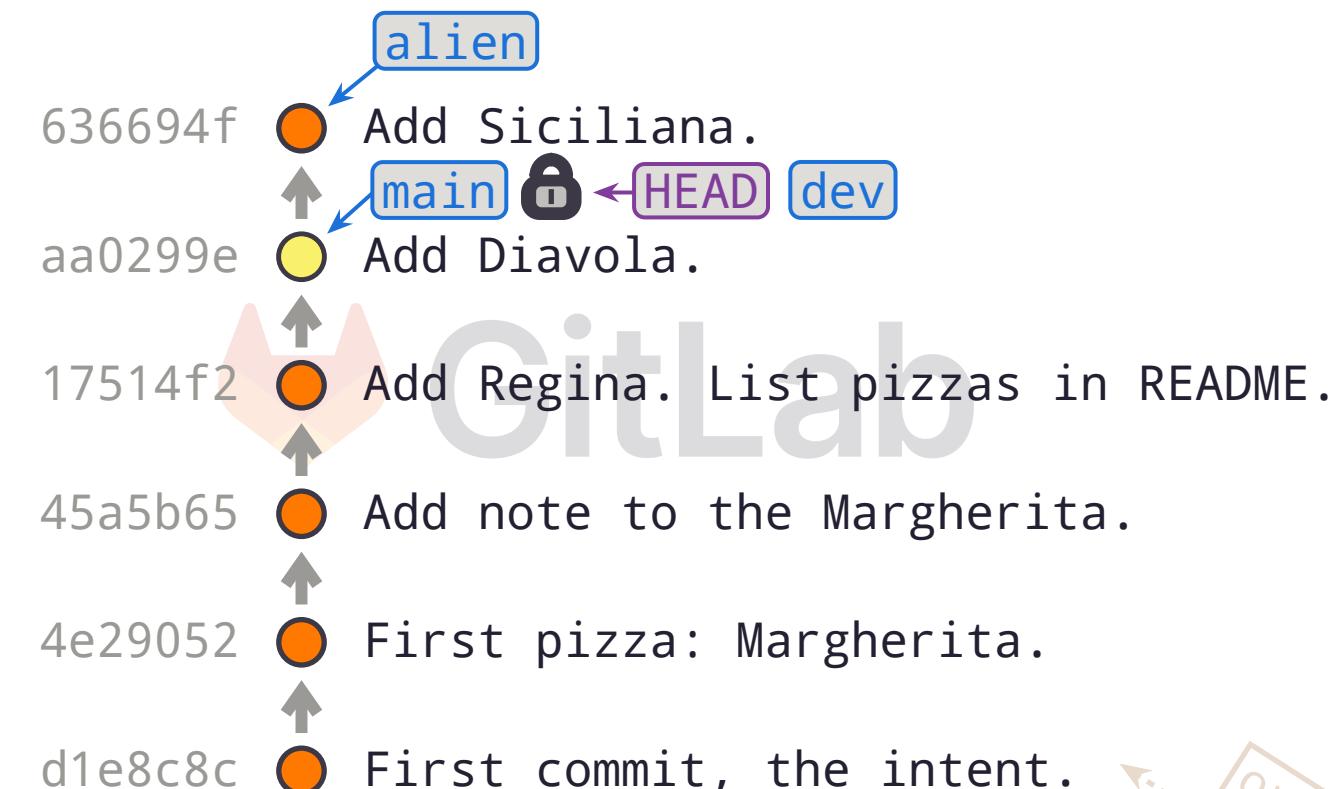


# Collaborate

You're Not Alone

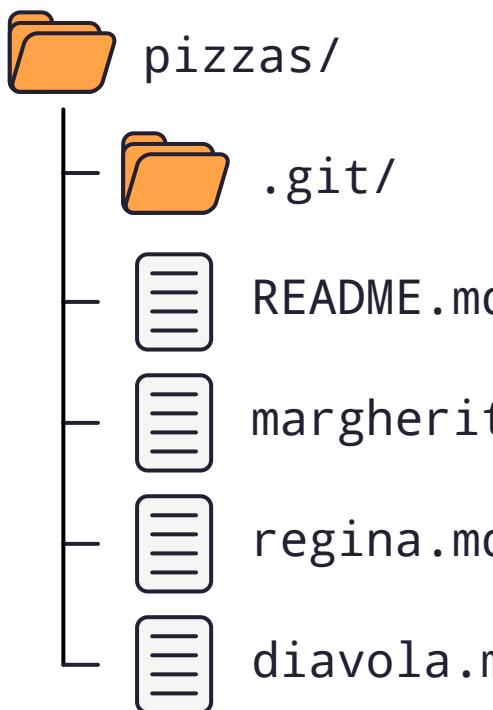


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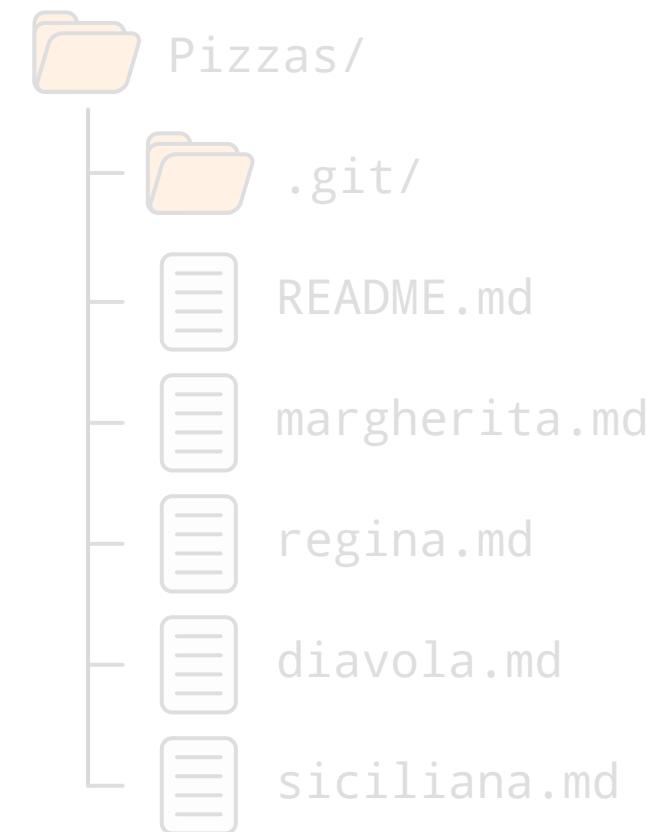
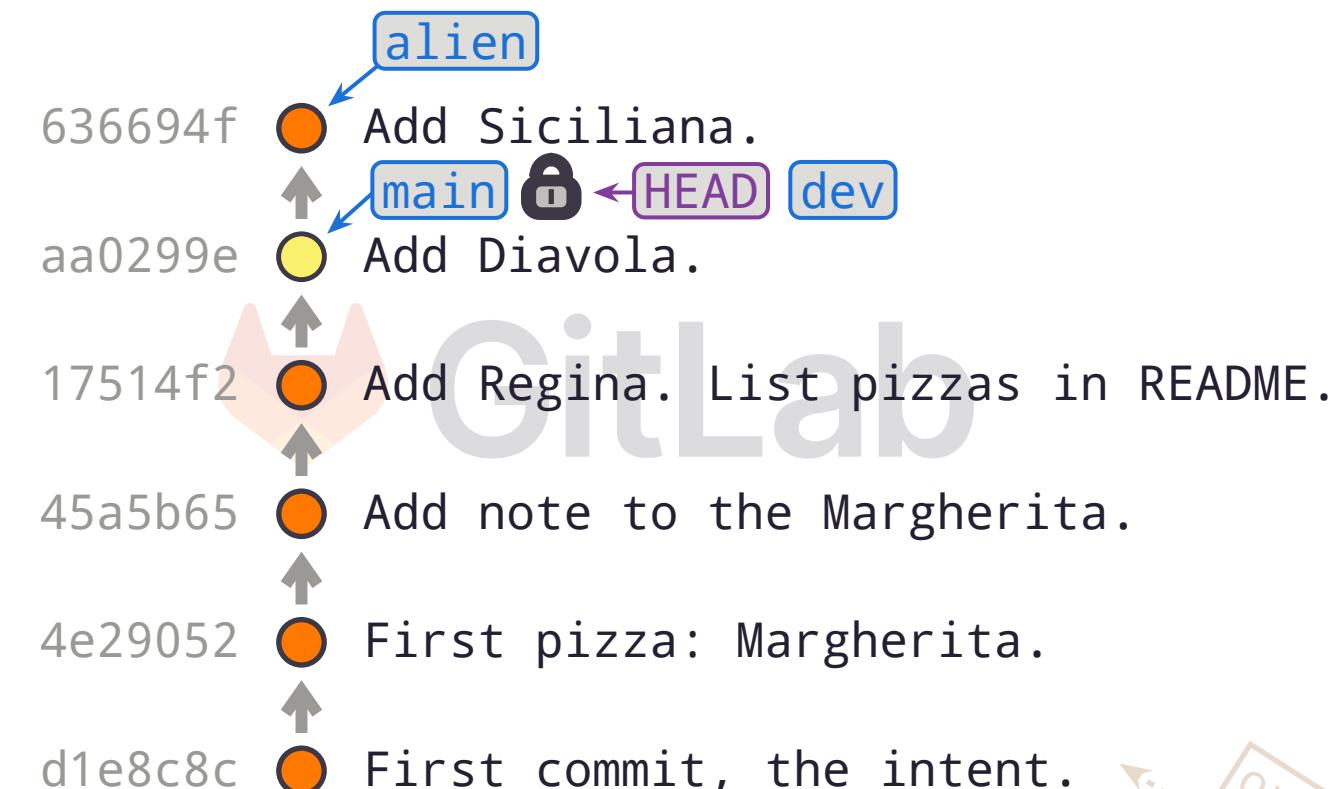


# Collaborate

You're Not Alone

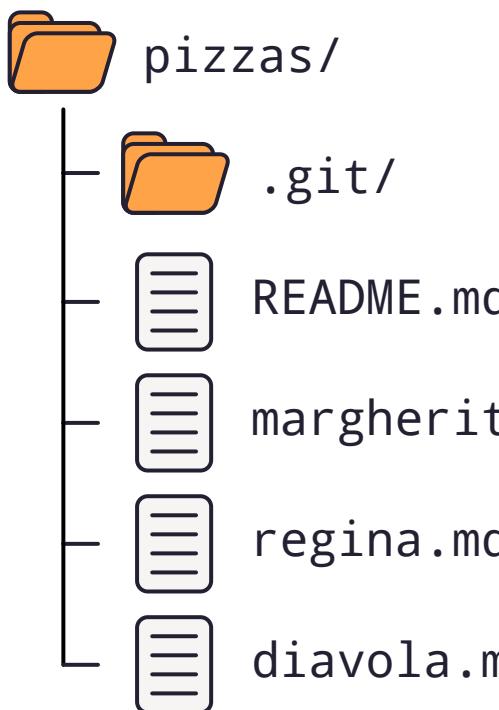


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# Collaborate

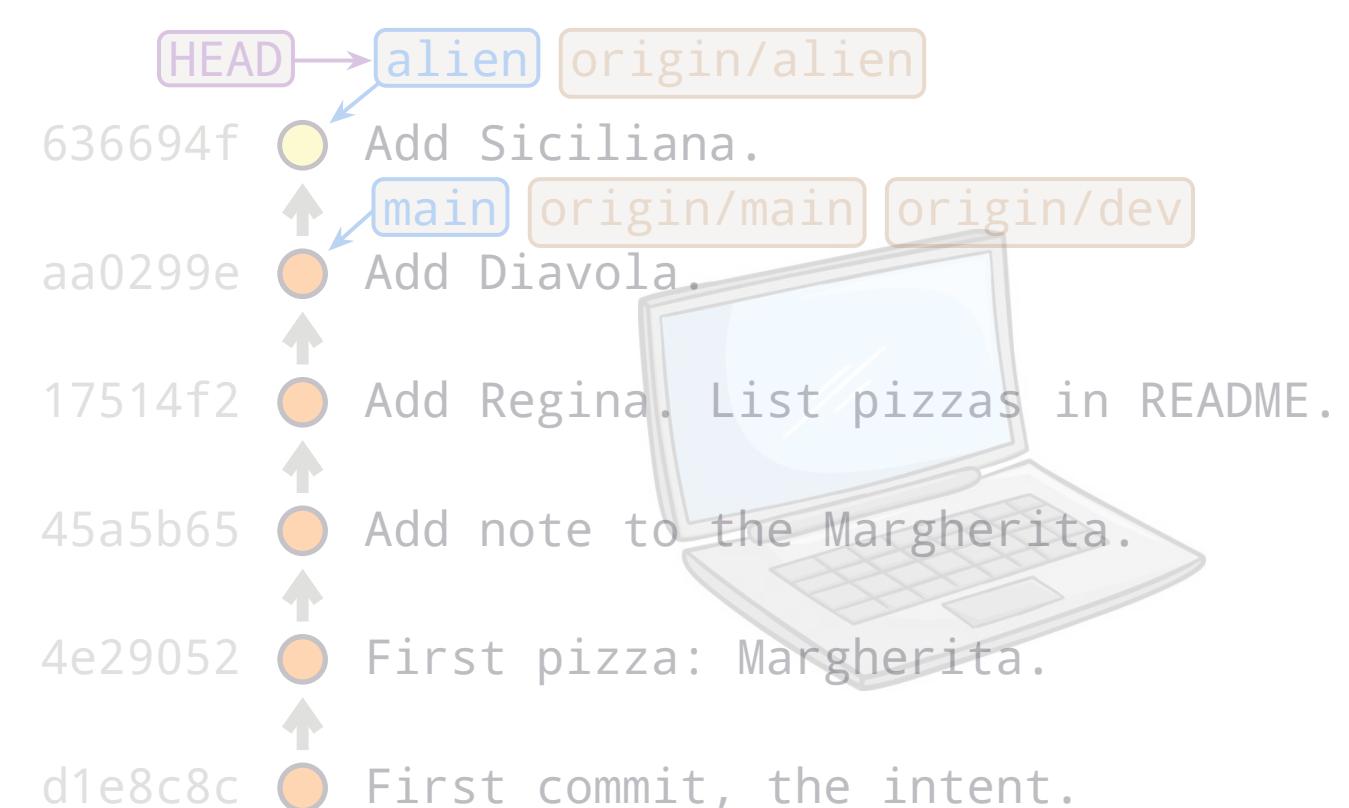
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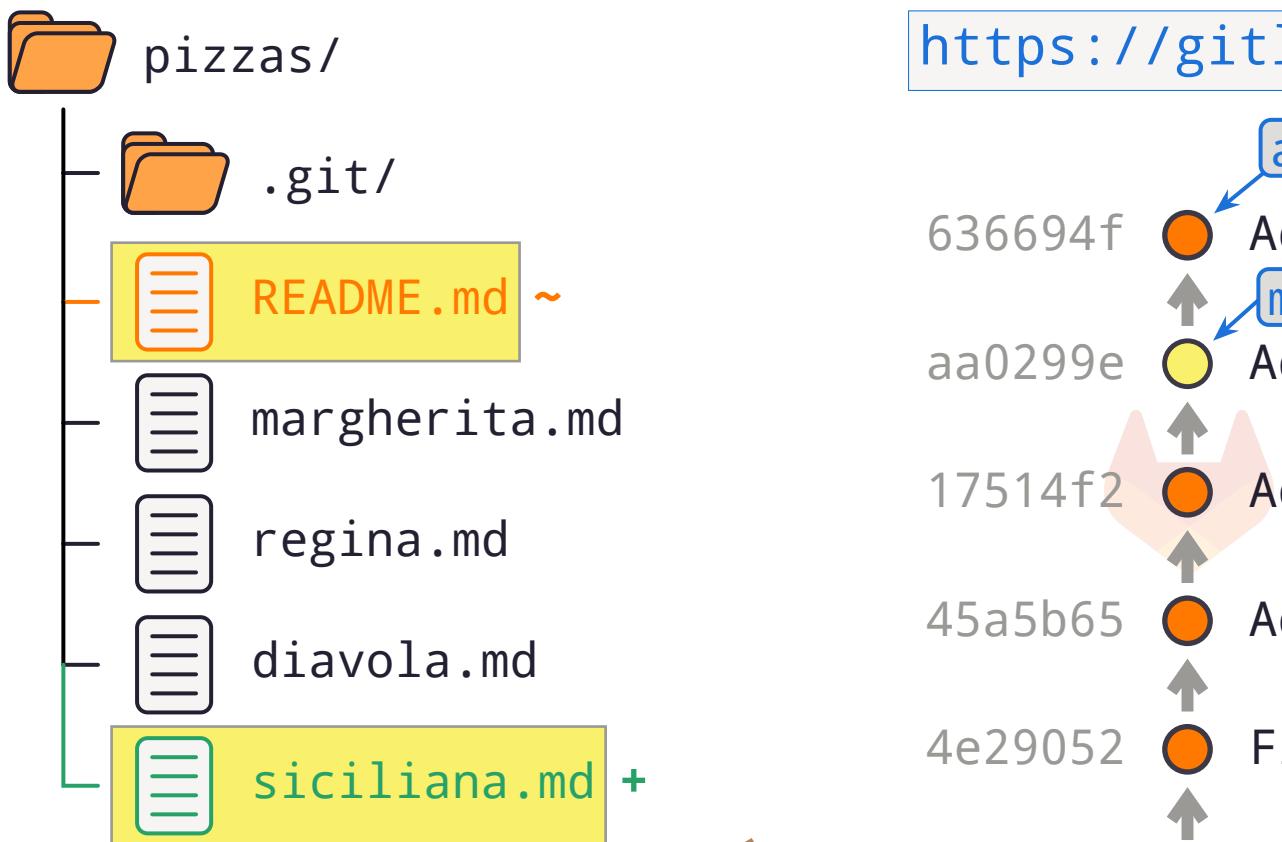


\$ git checkout gitlab/alien



# Collaborate

You're Not Alone



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

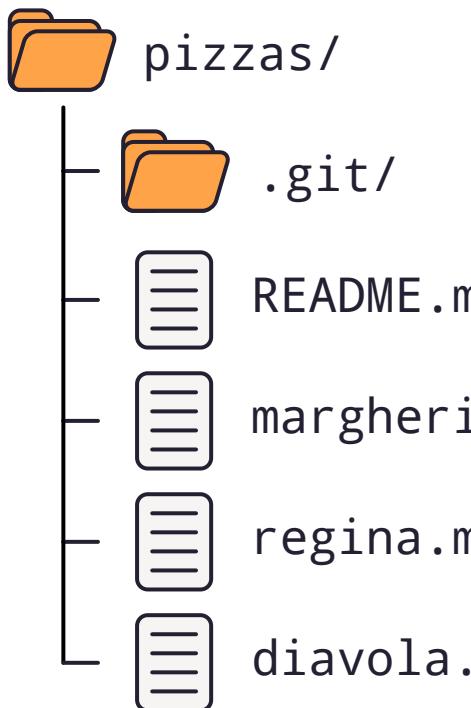


\$ git checkout gitlab/alien



# Collaborate

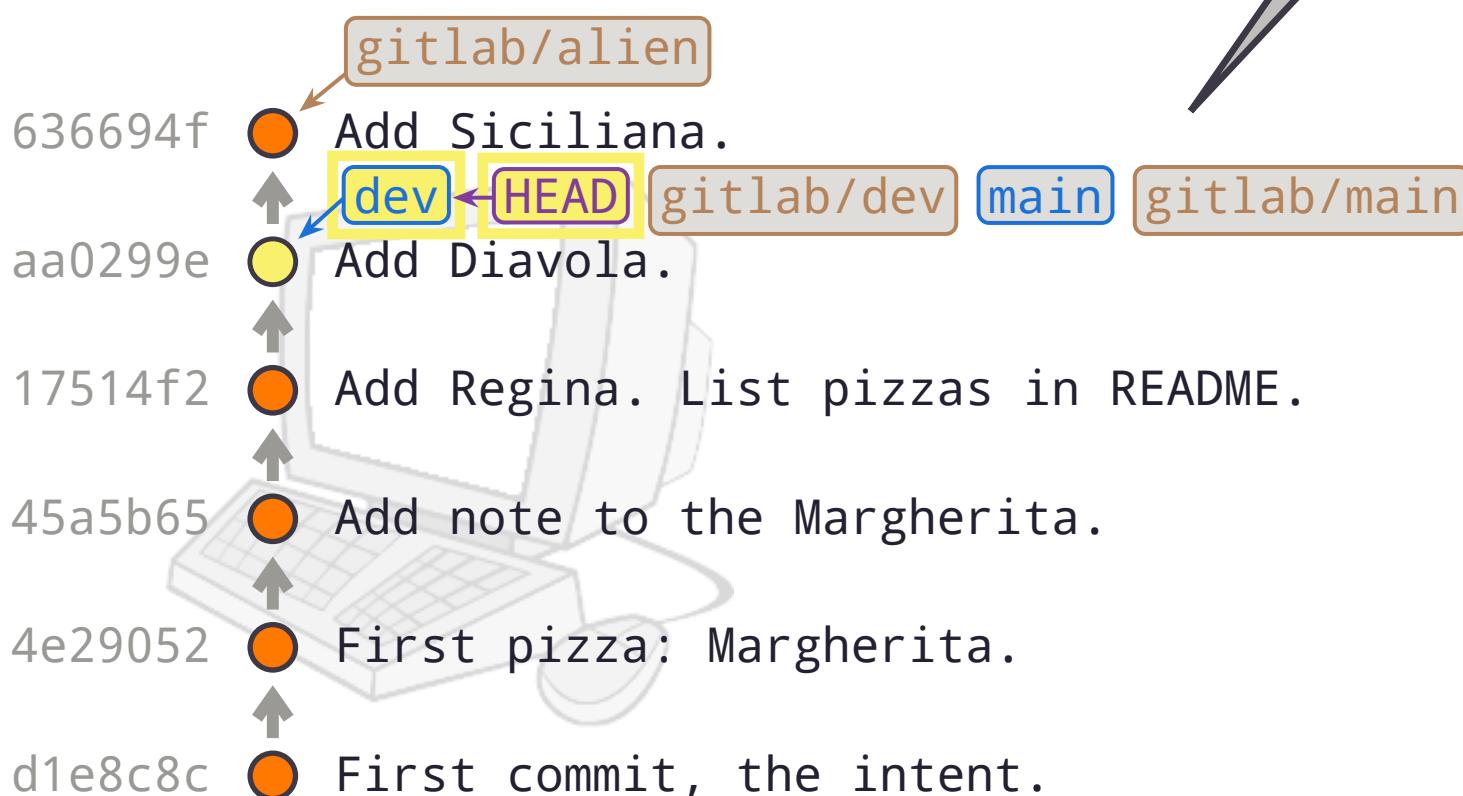
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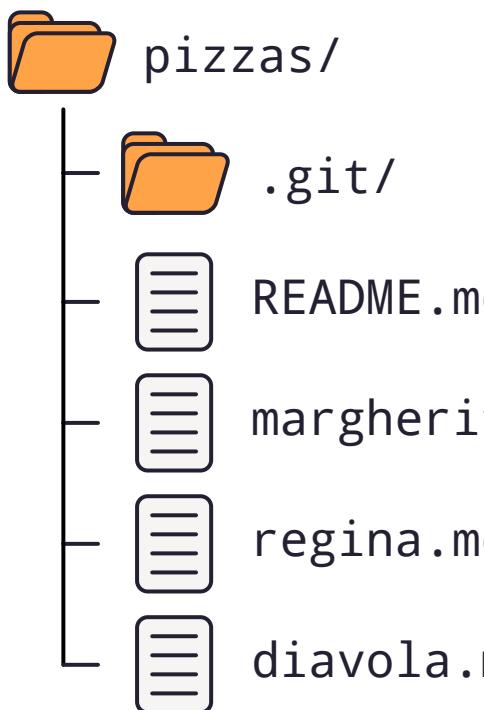


\$ git checkout dev

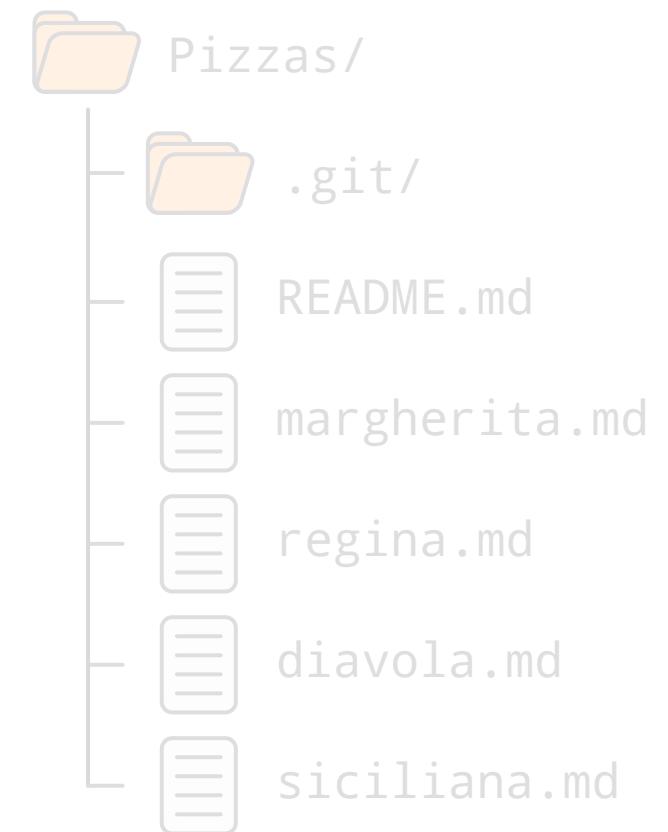


# Collaborate

You're Not Alone

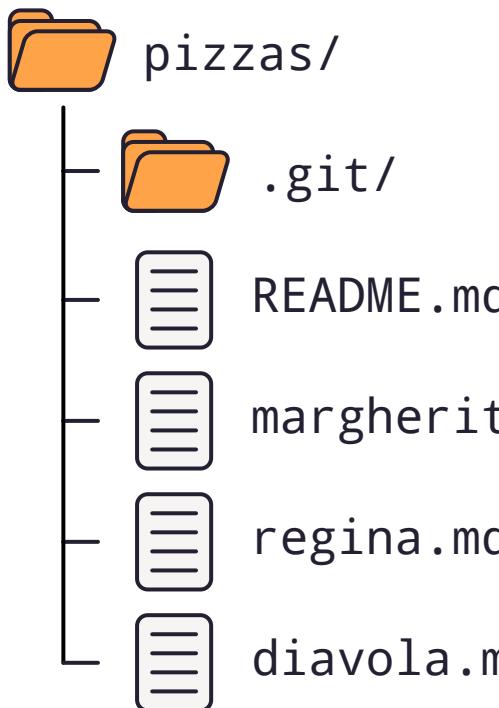


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# Collaborate

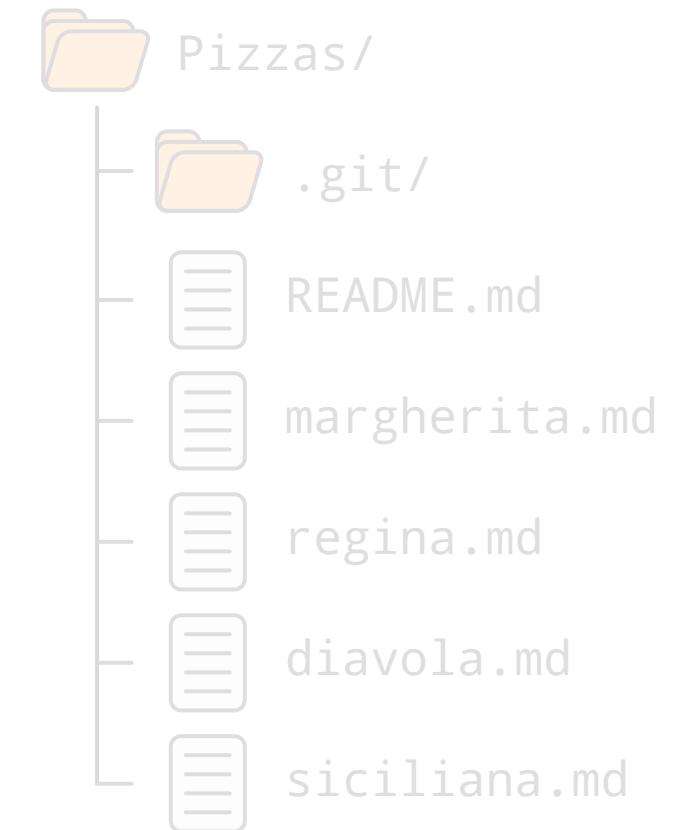
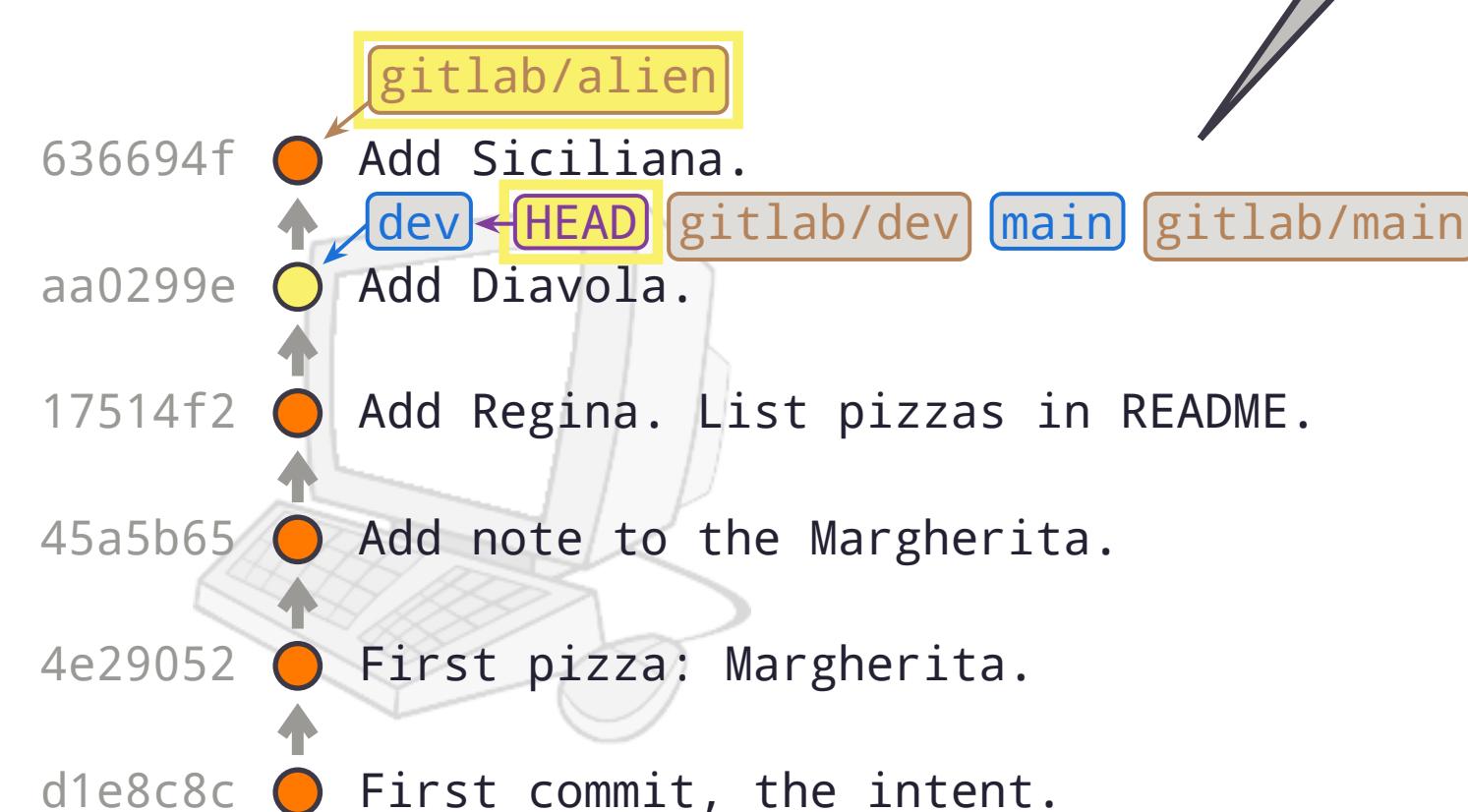
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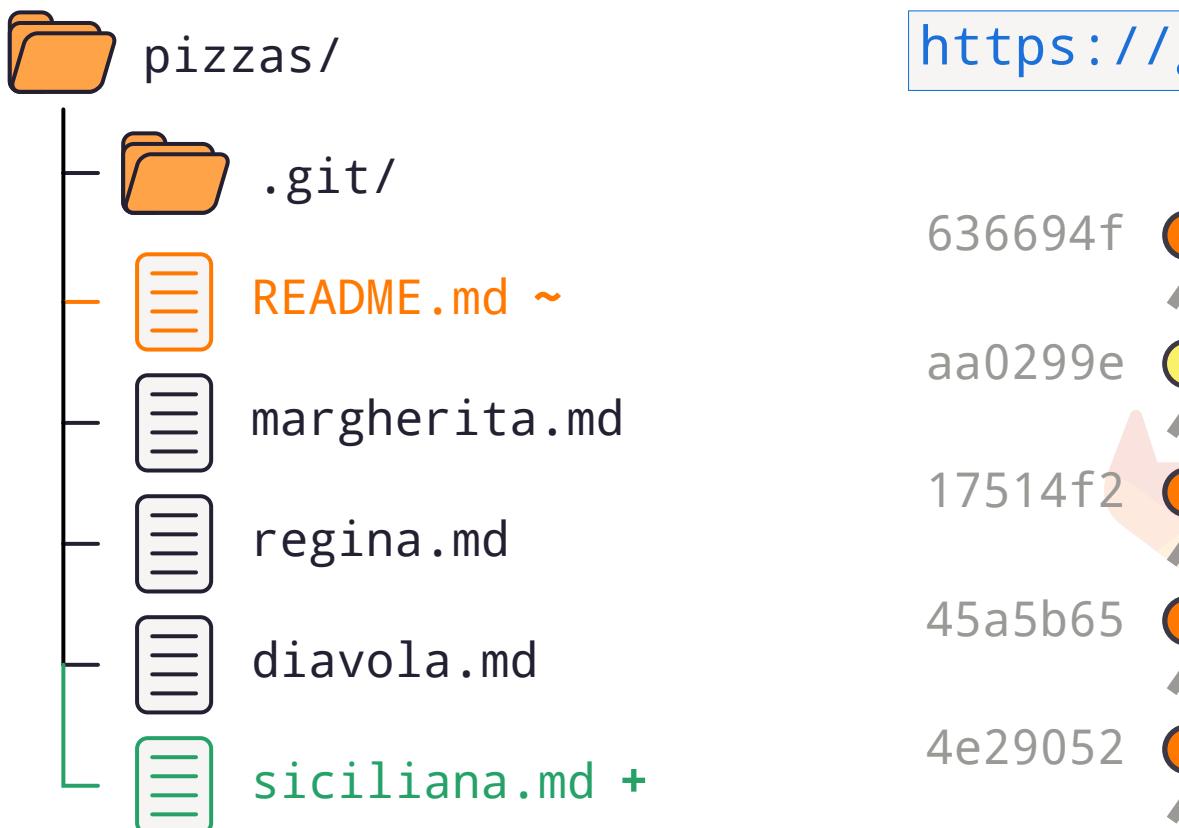


\$ git merge gitlab/alien



# Collaborate

You're Not Alone



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



\$ git merge gitlab/alien

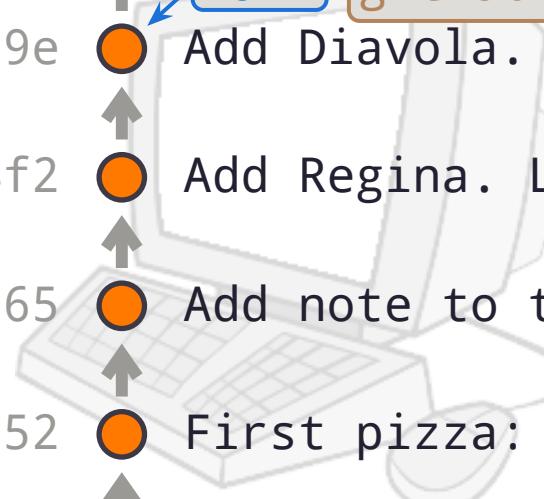
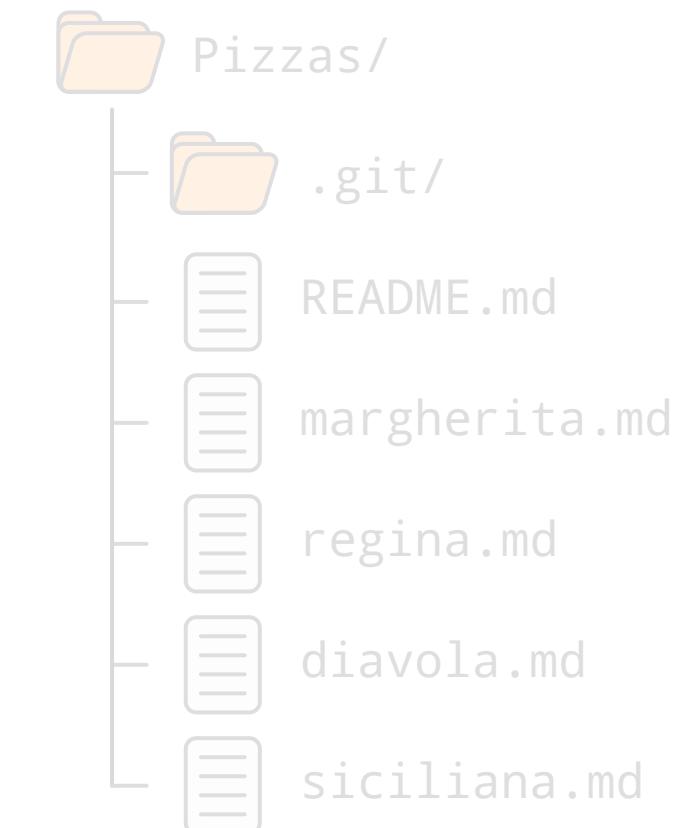


# Collaborate

You're Not Alone

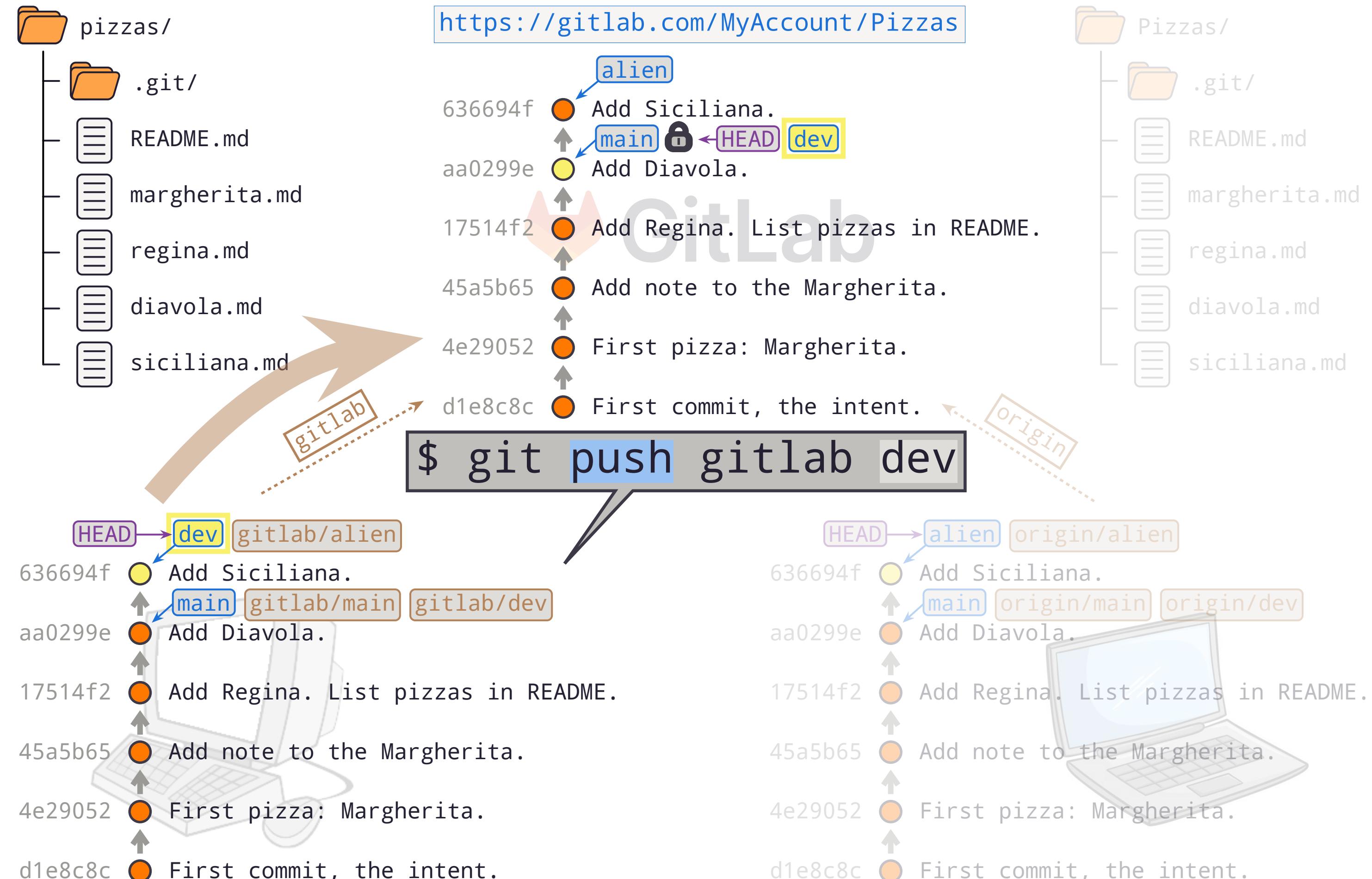


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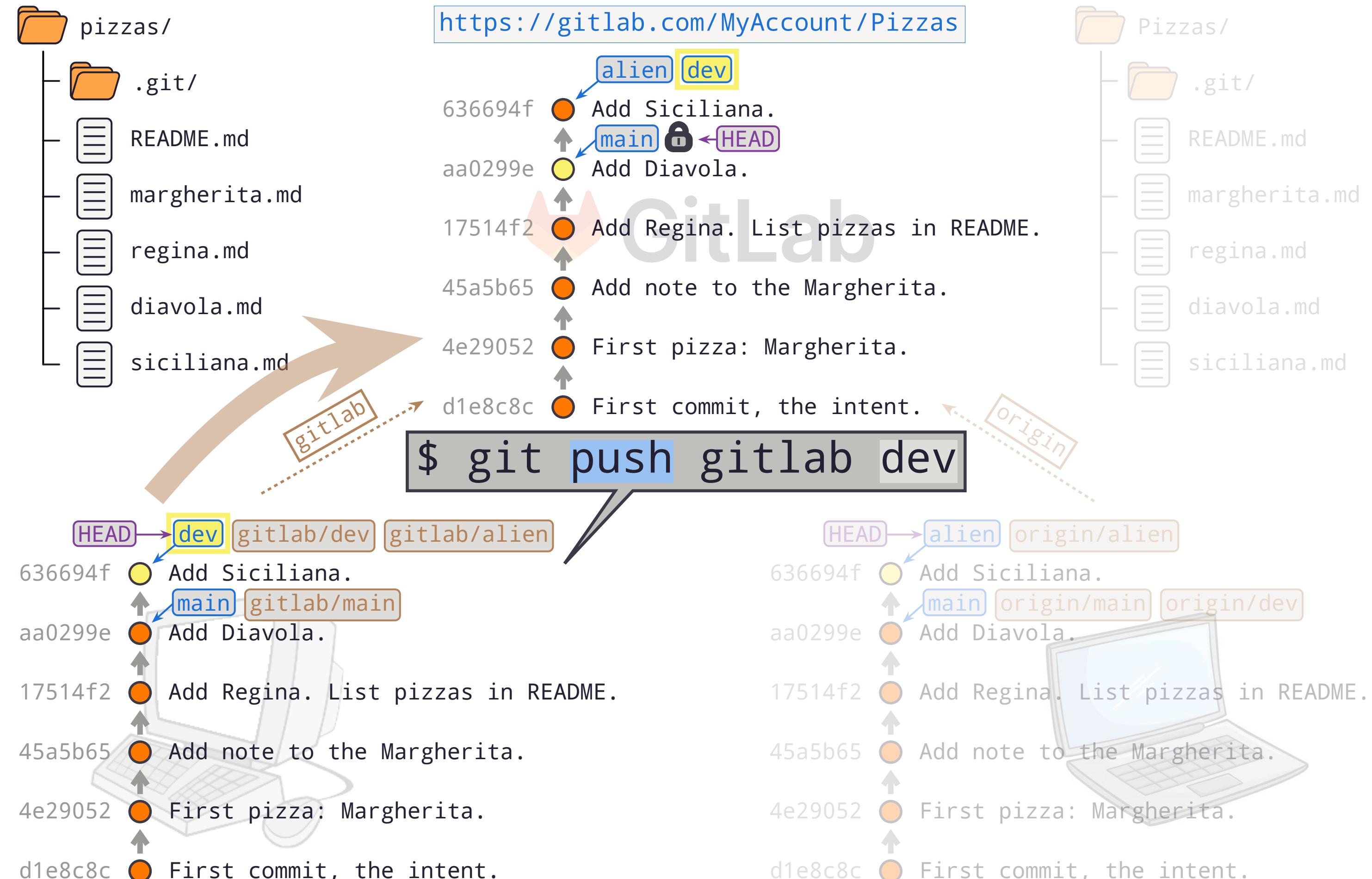
# Collaborate

You're Not Alone



# Collaborate

You're Not Alone

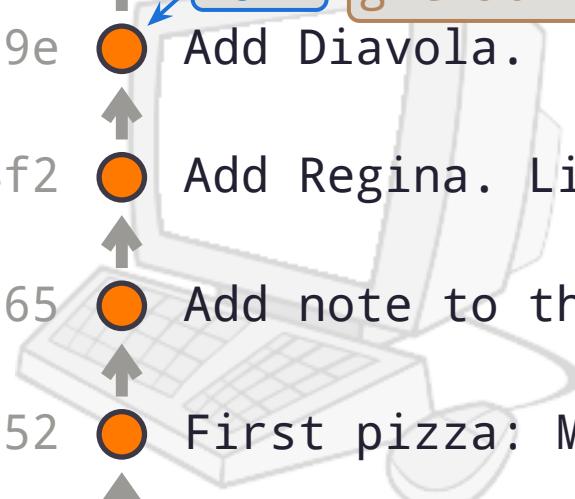
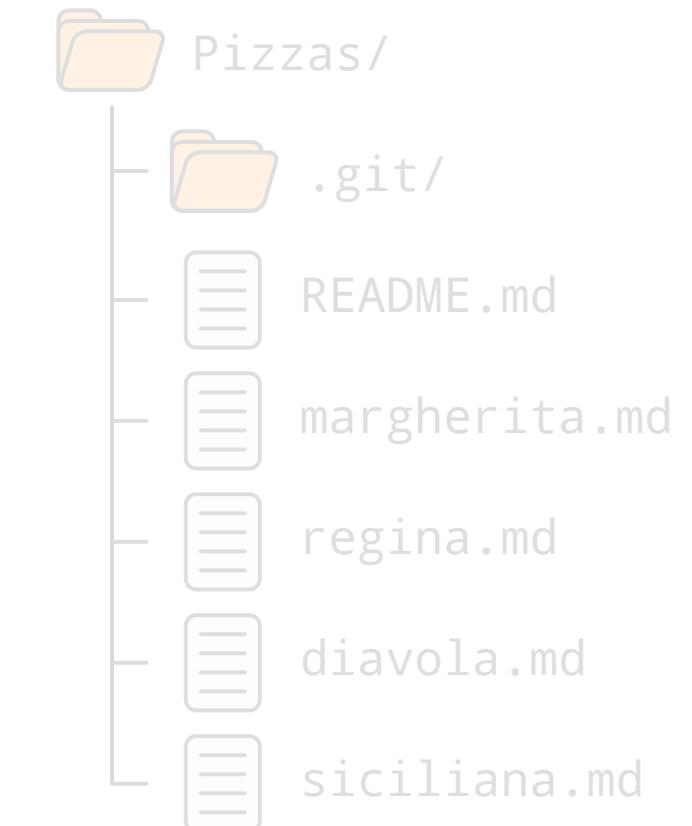


# Collaborate

You're Not Alone



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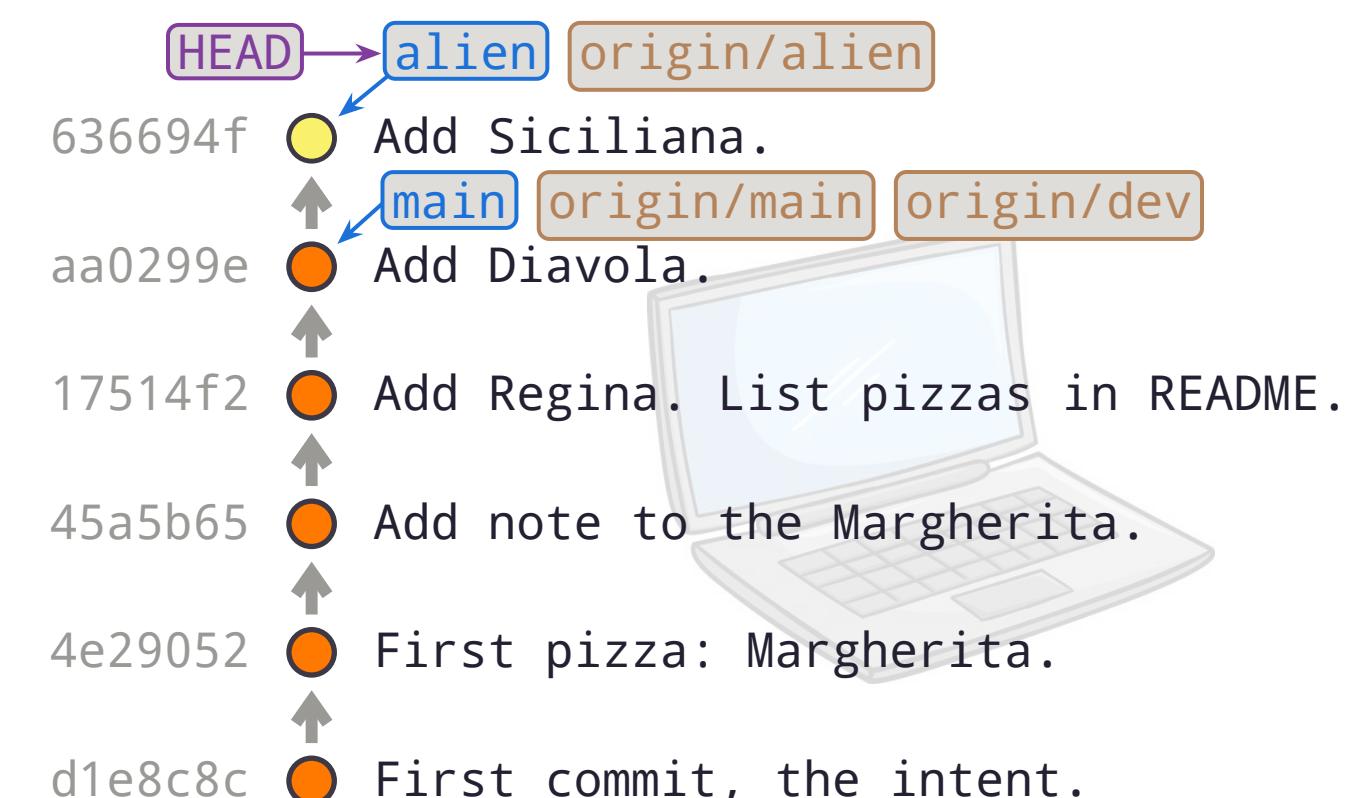
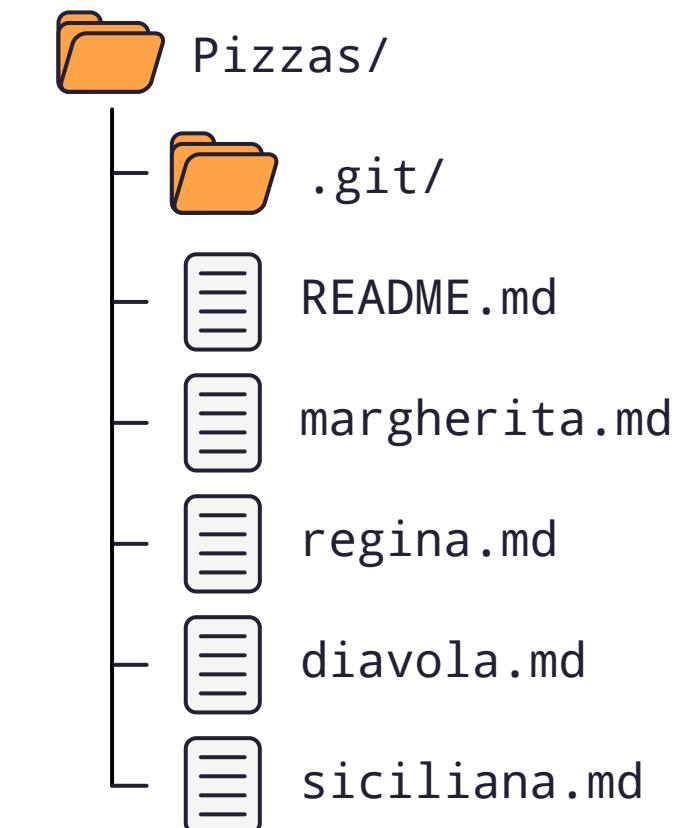
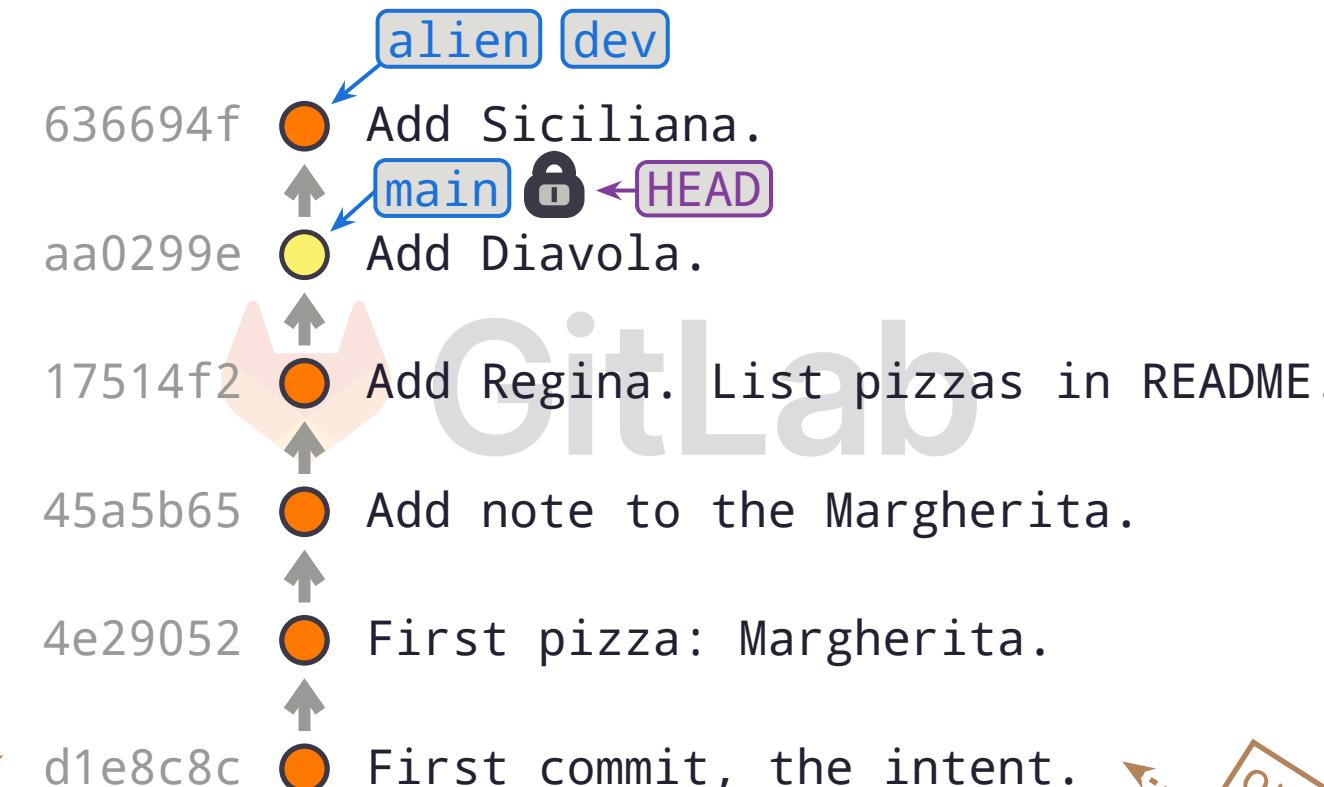


# Collaborate

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



# Collaboration Divergence

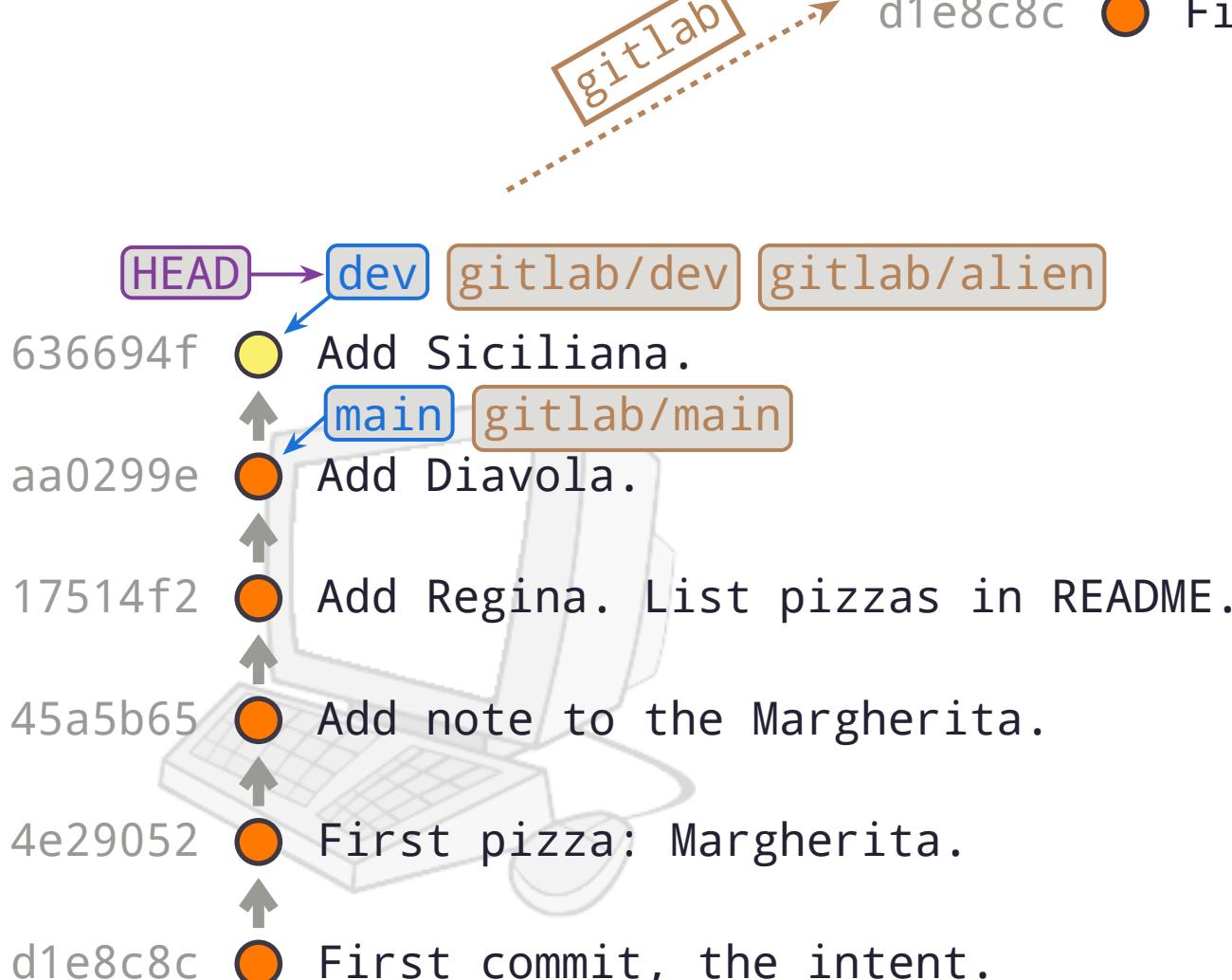
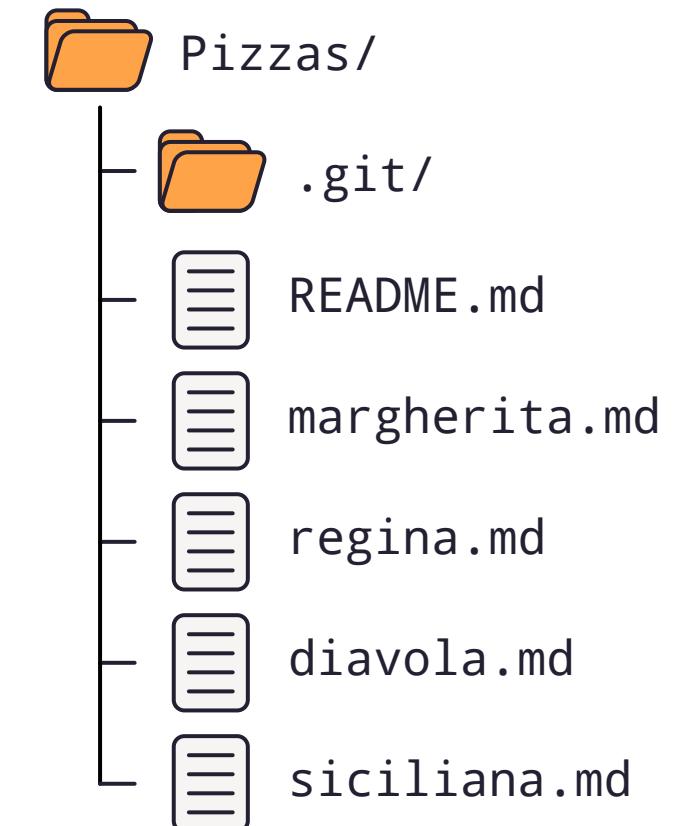
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# Collaborate

When you Diverge

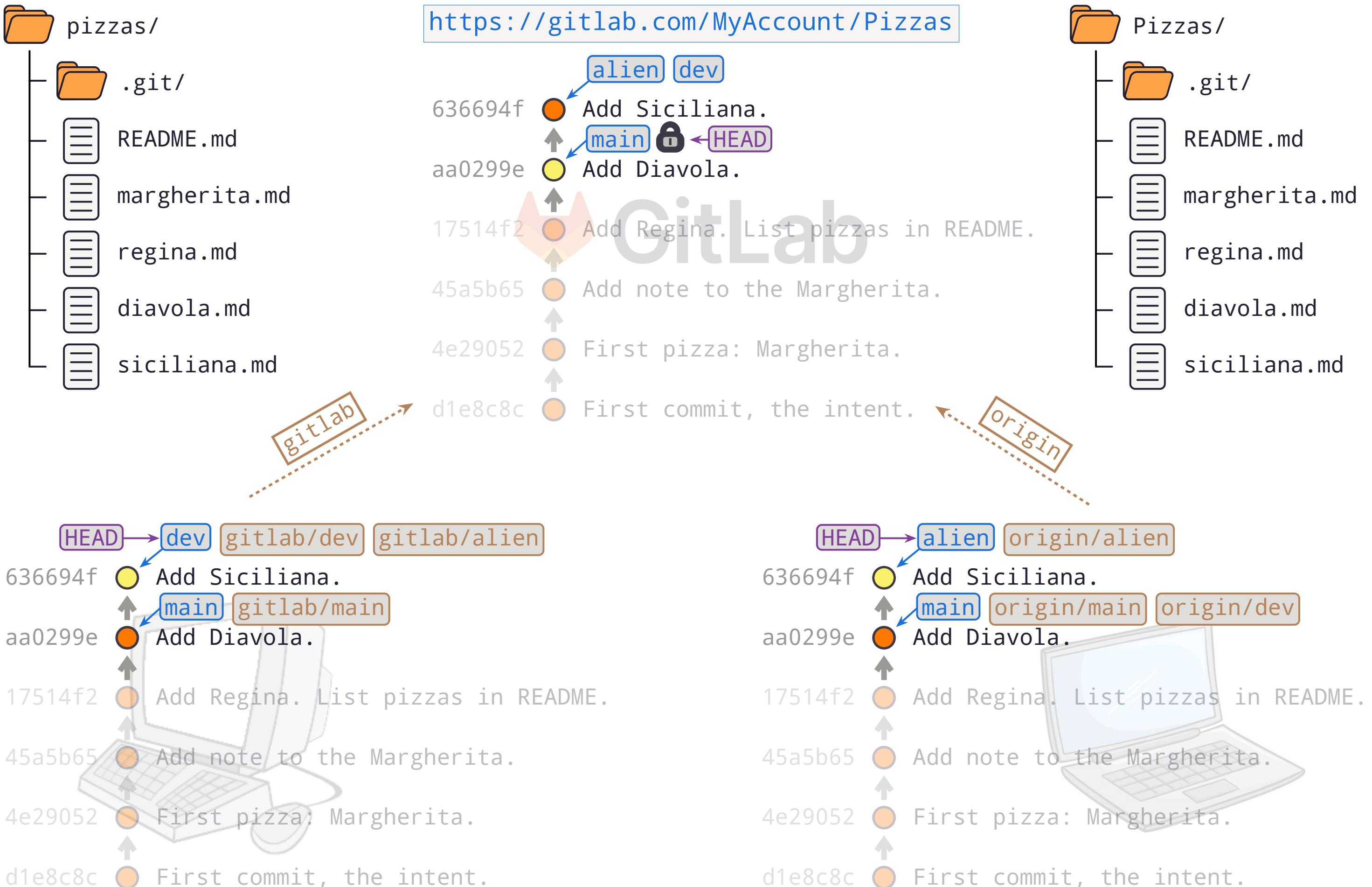


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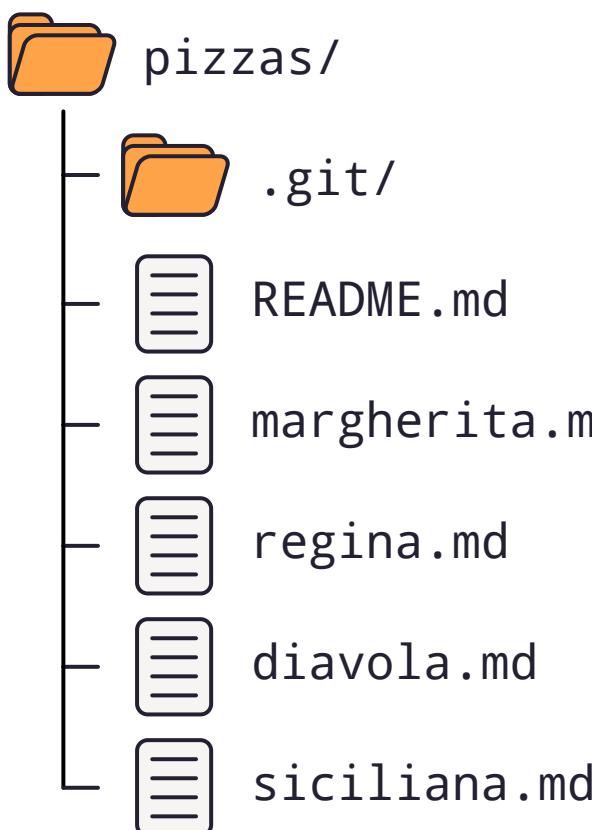
# Collaborate

When you Diverge

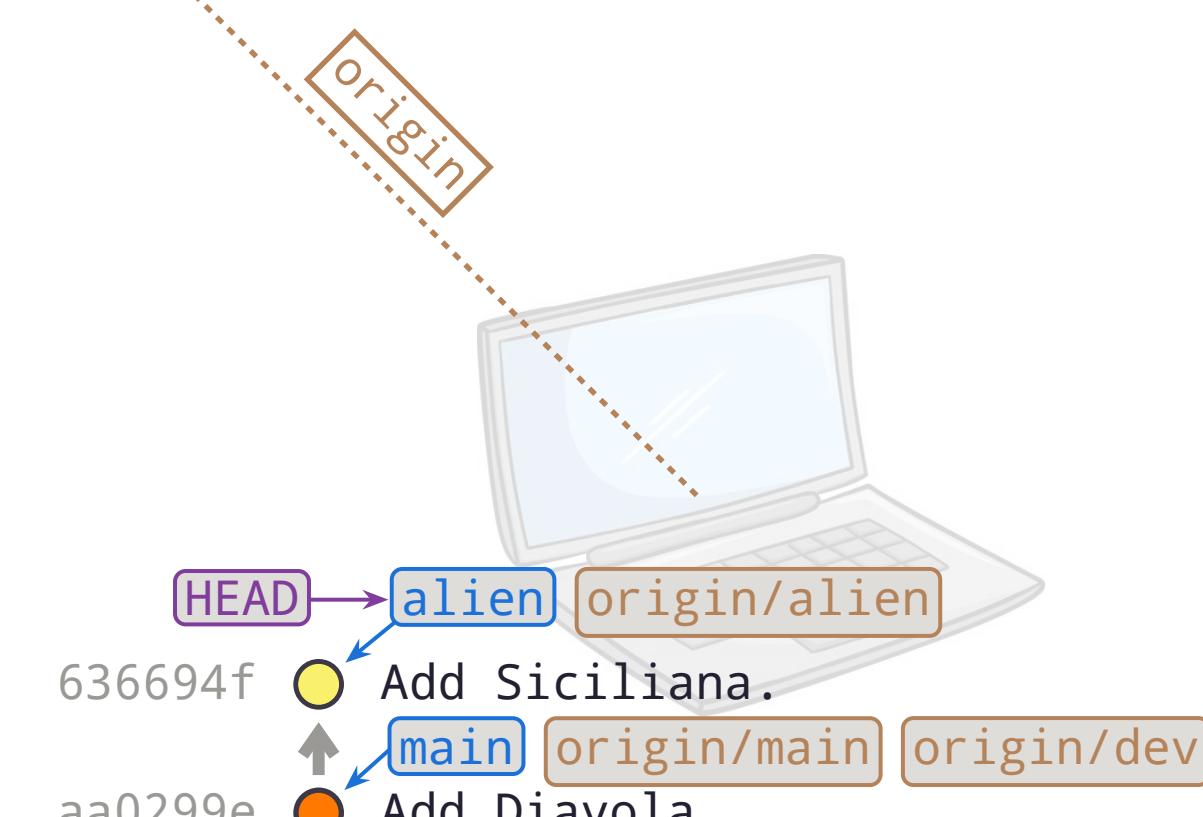
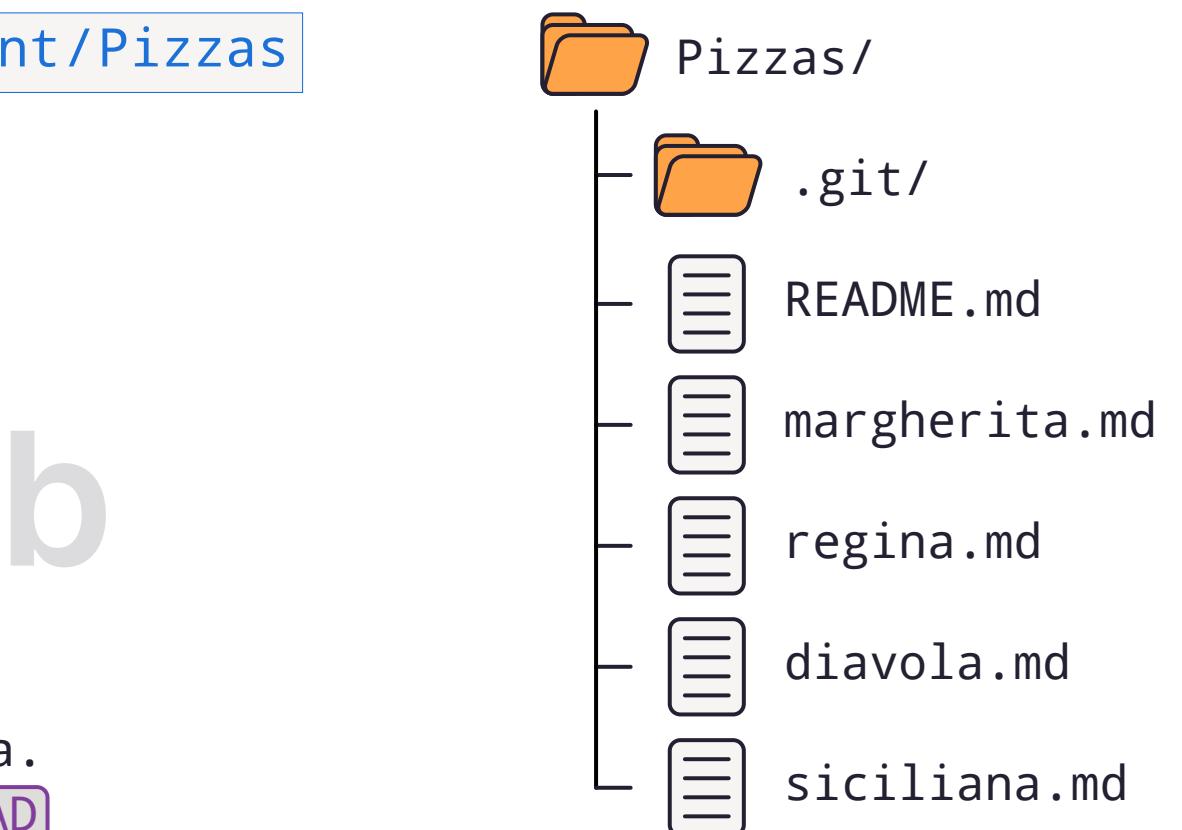
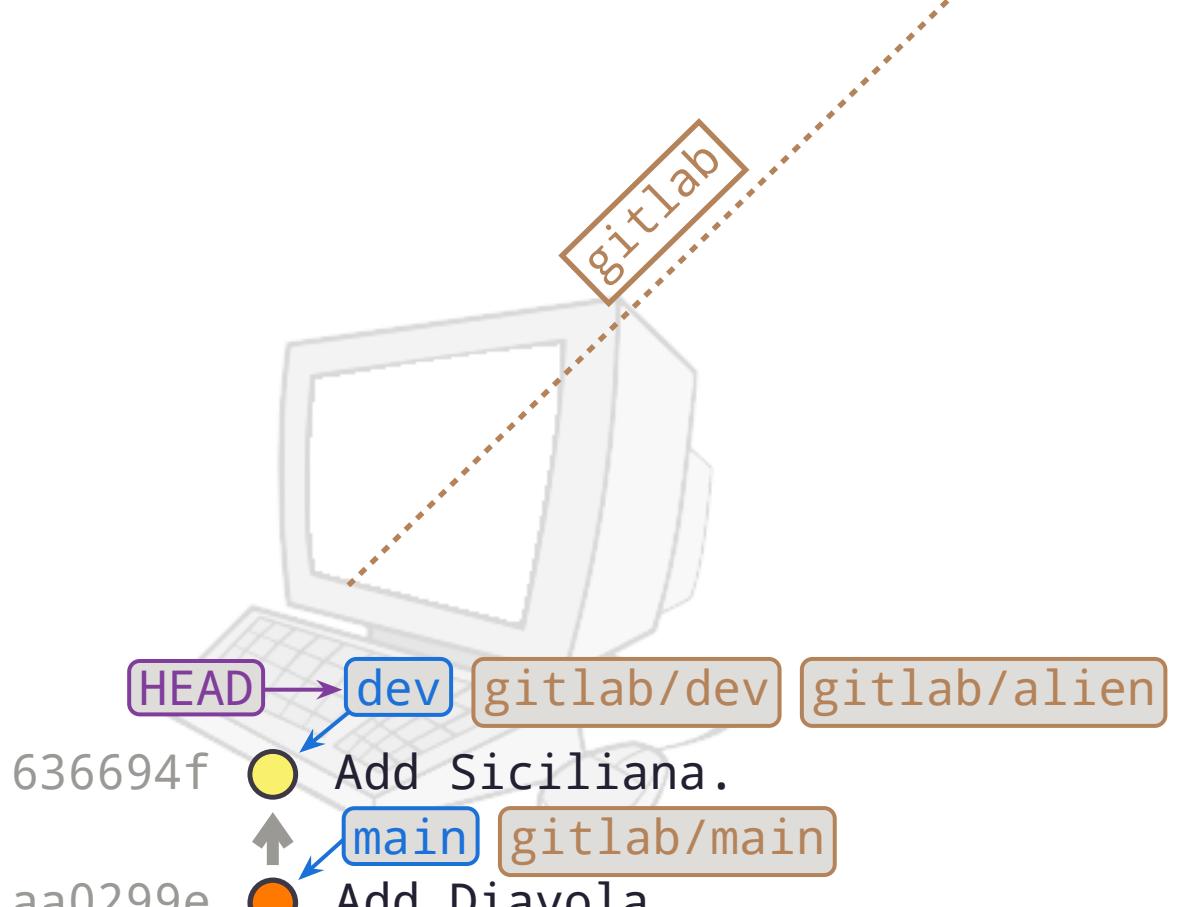
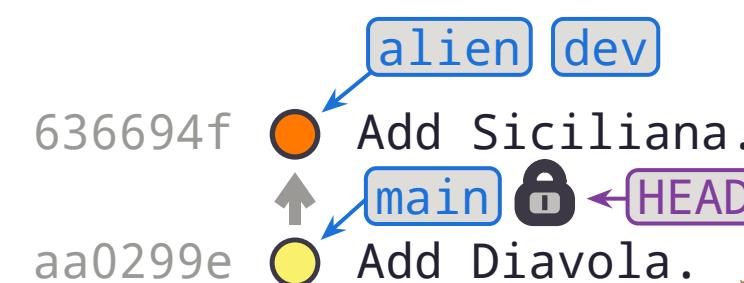


# Collaborate

When you Diverge

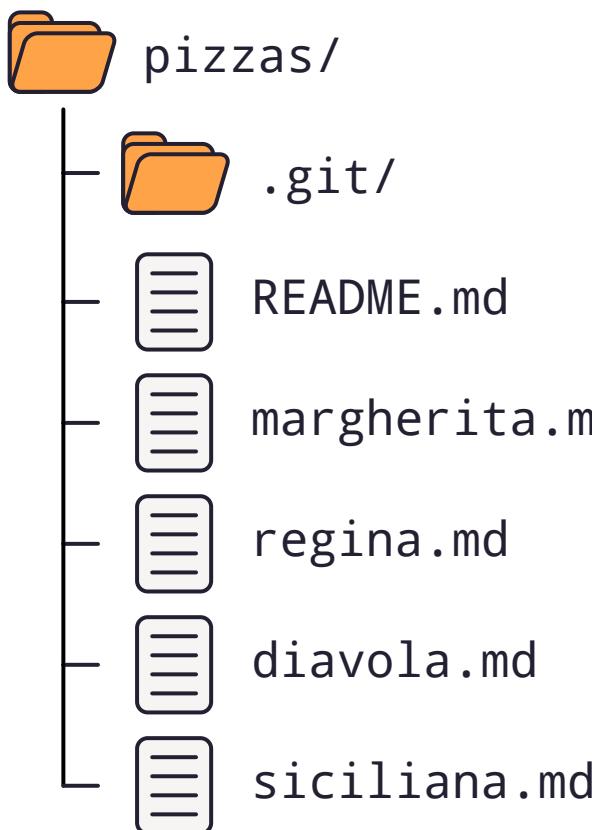


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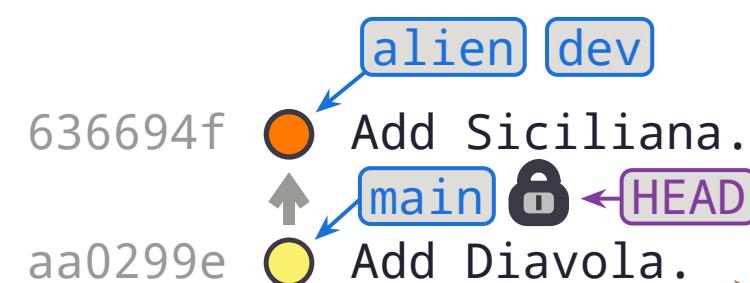


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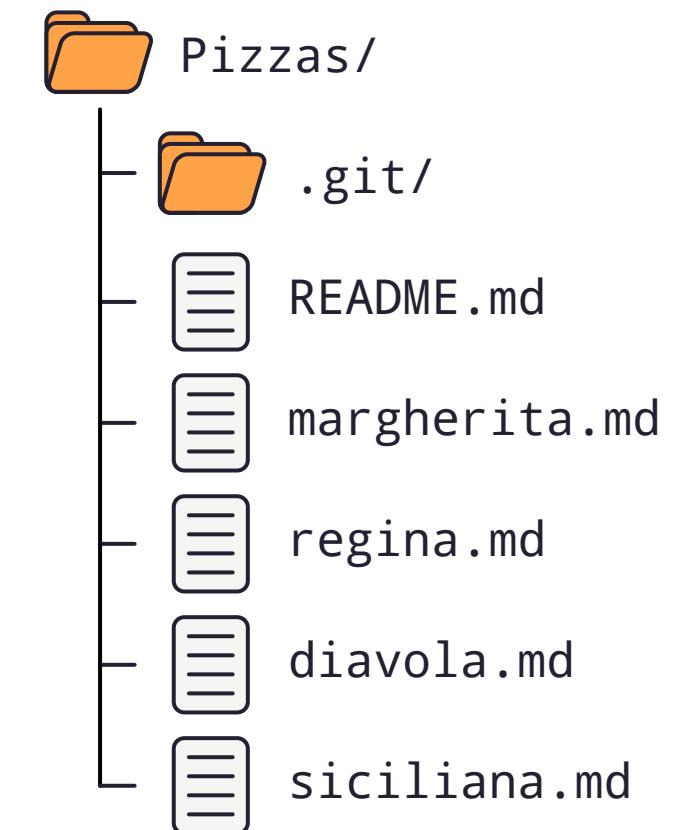
When you Diverge



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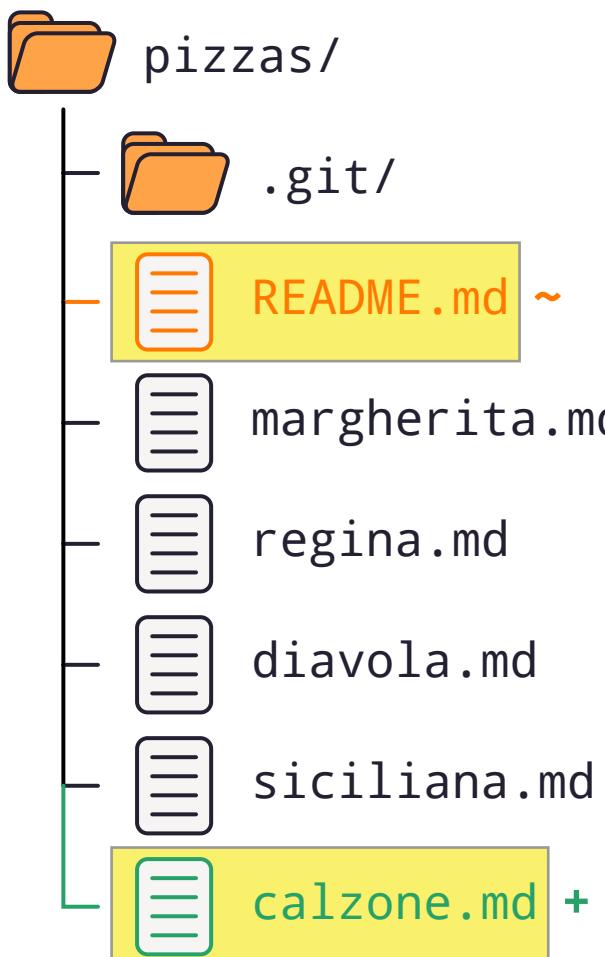


ab/alien

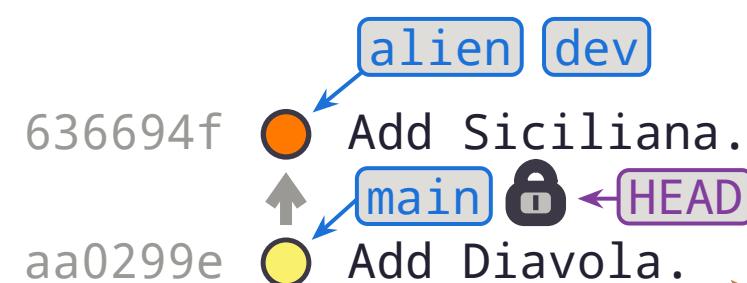


# Collaborate

When you Diverge



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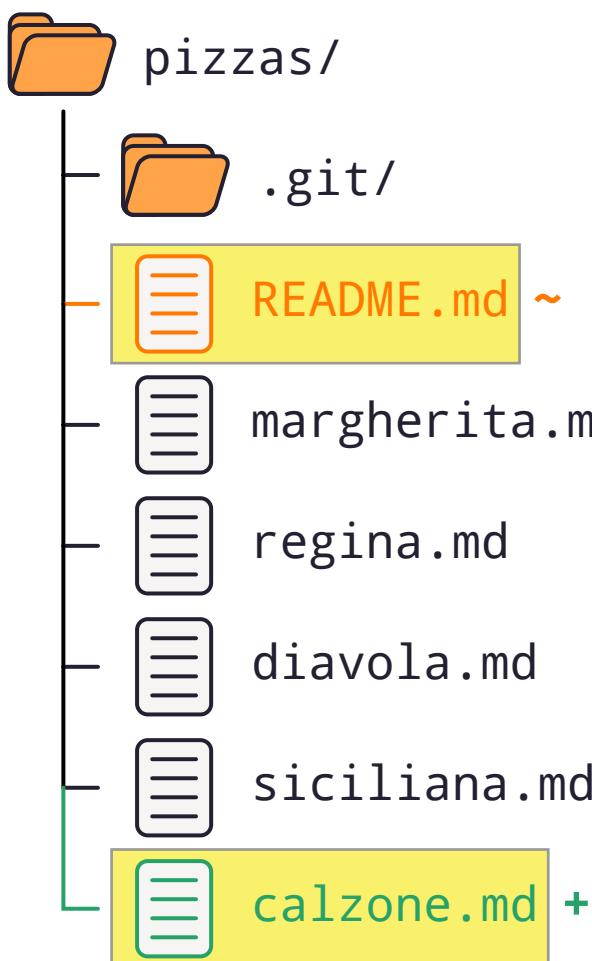


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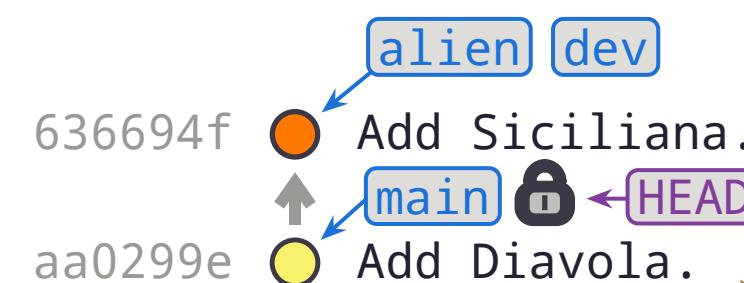


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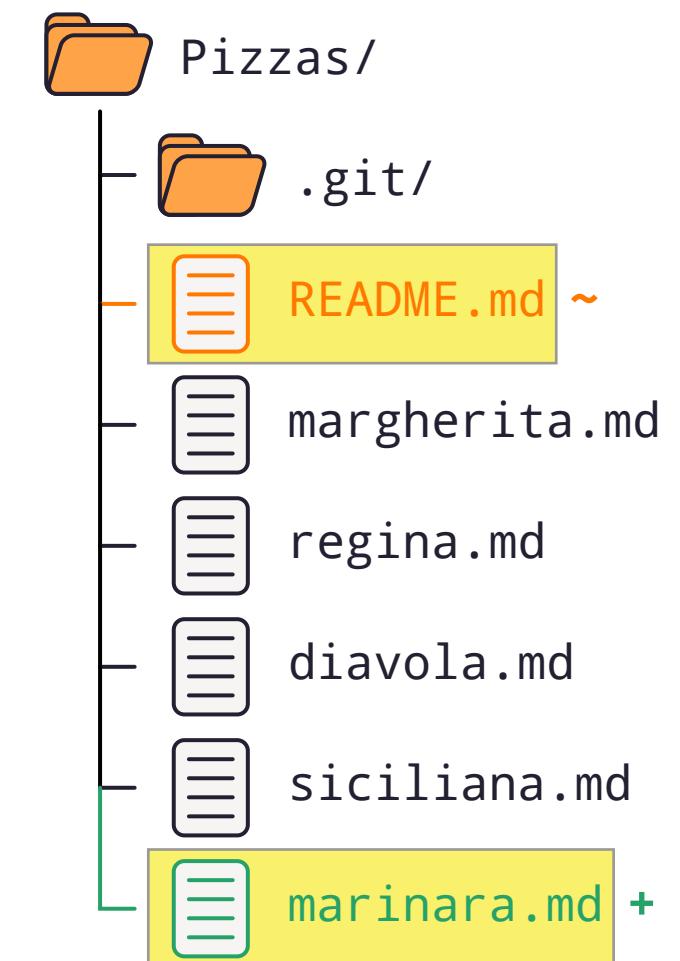
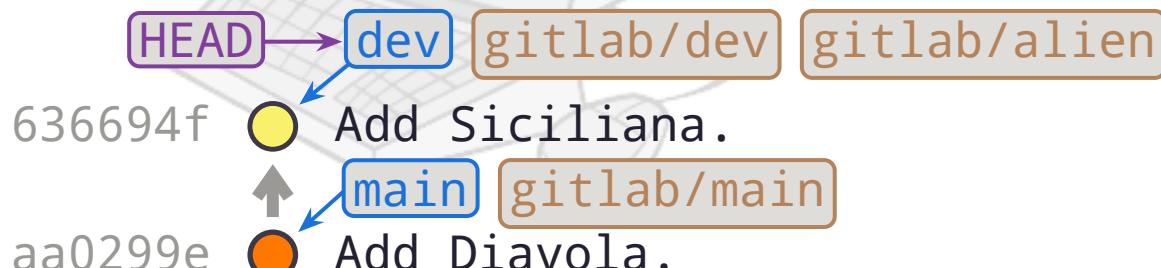
When you Diverge



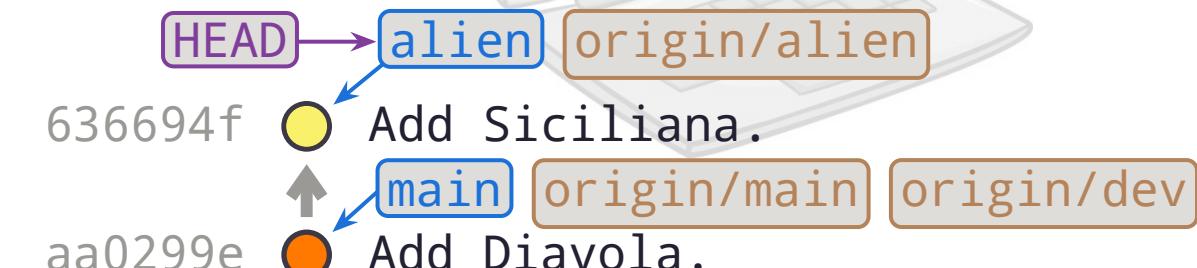
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gitlab

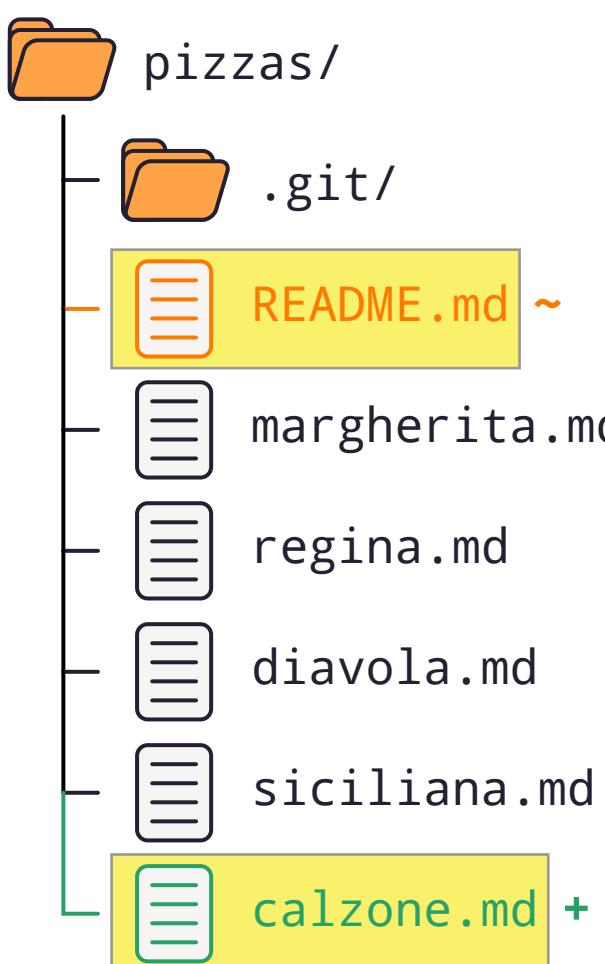


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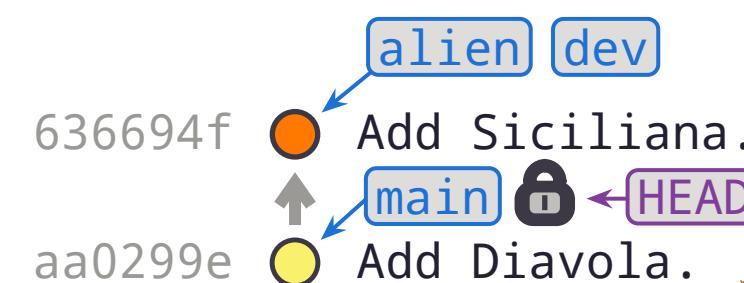


# Collaborate

When you Diverge

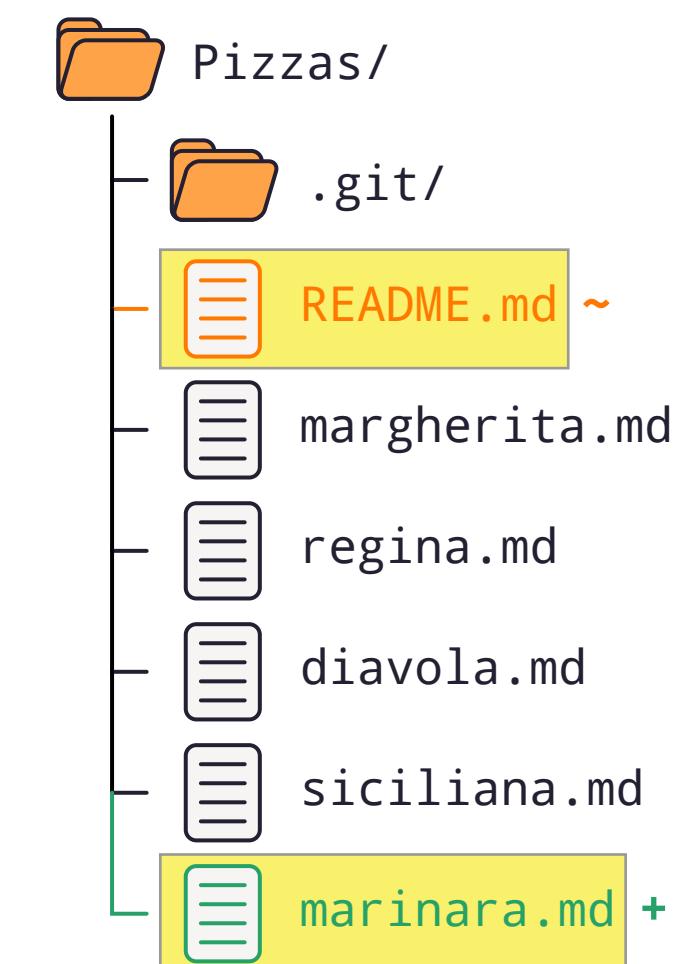
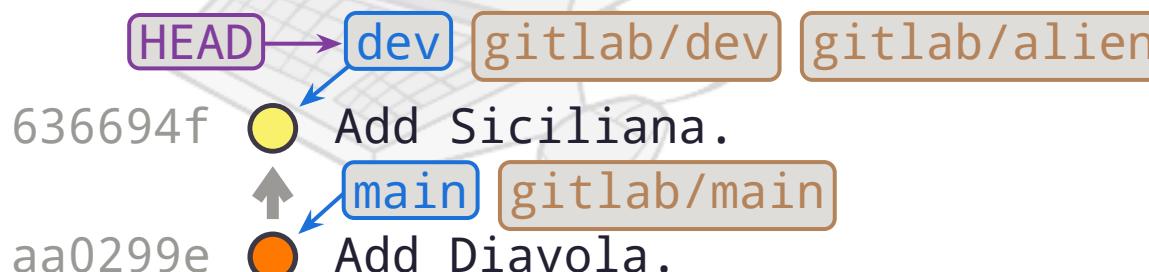


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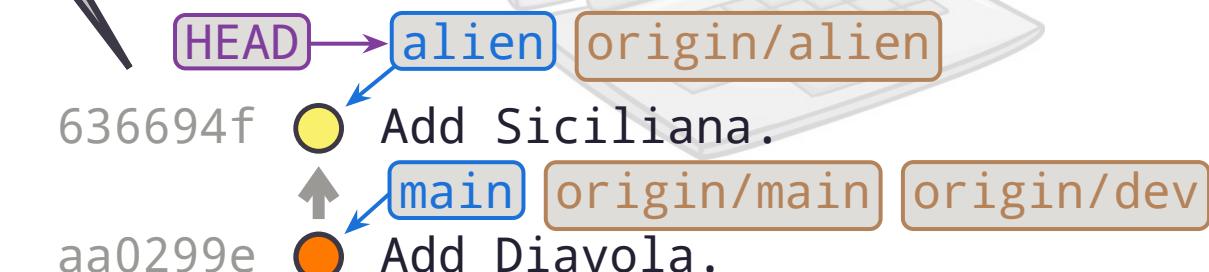


gitlab

\$ git commit  
\$ git commit

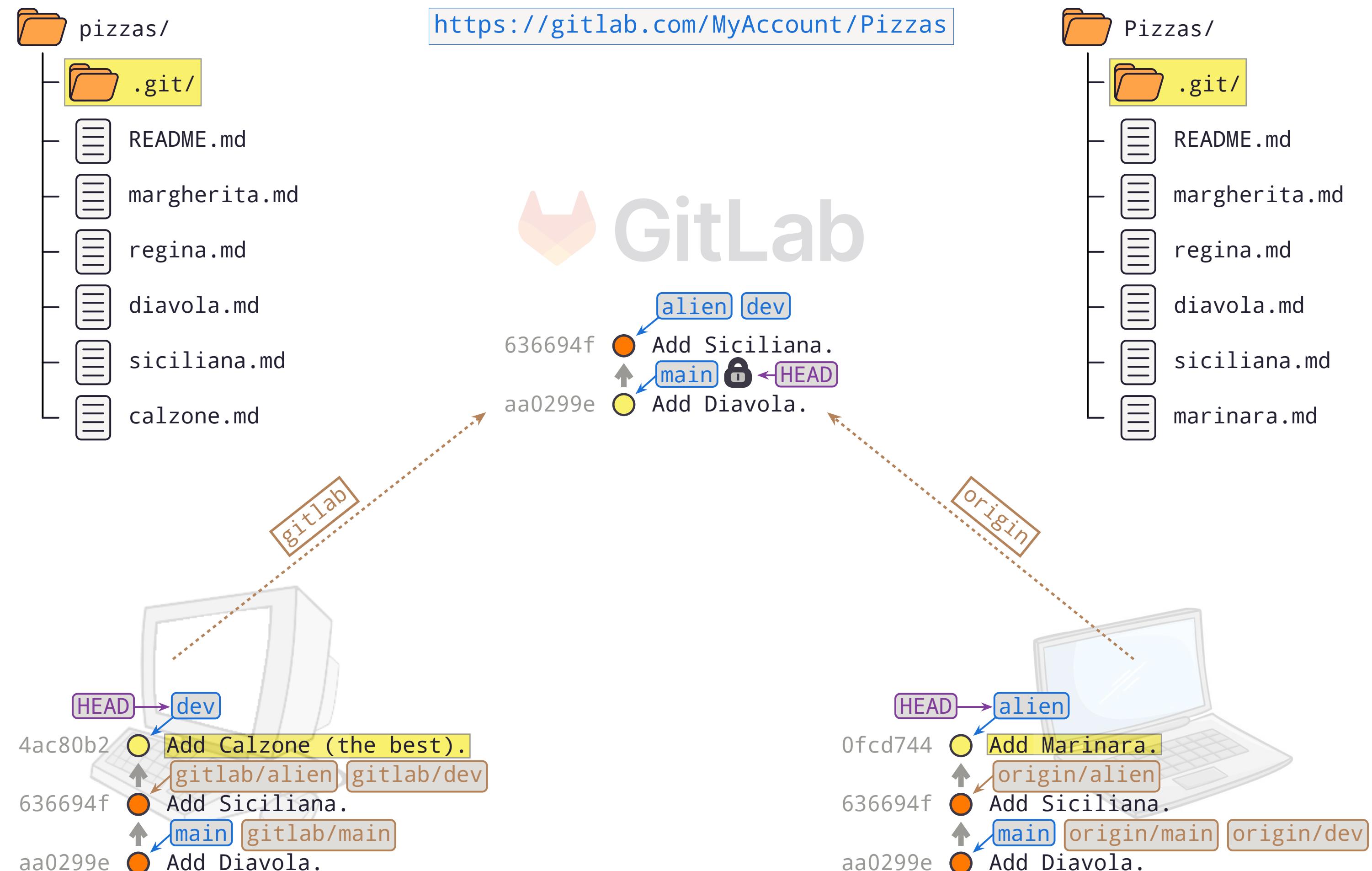


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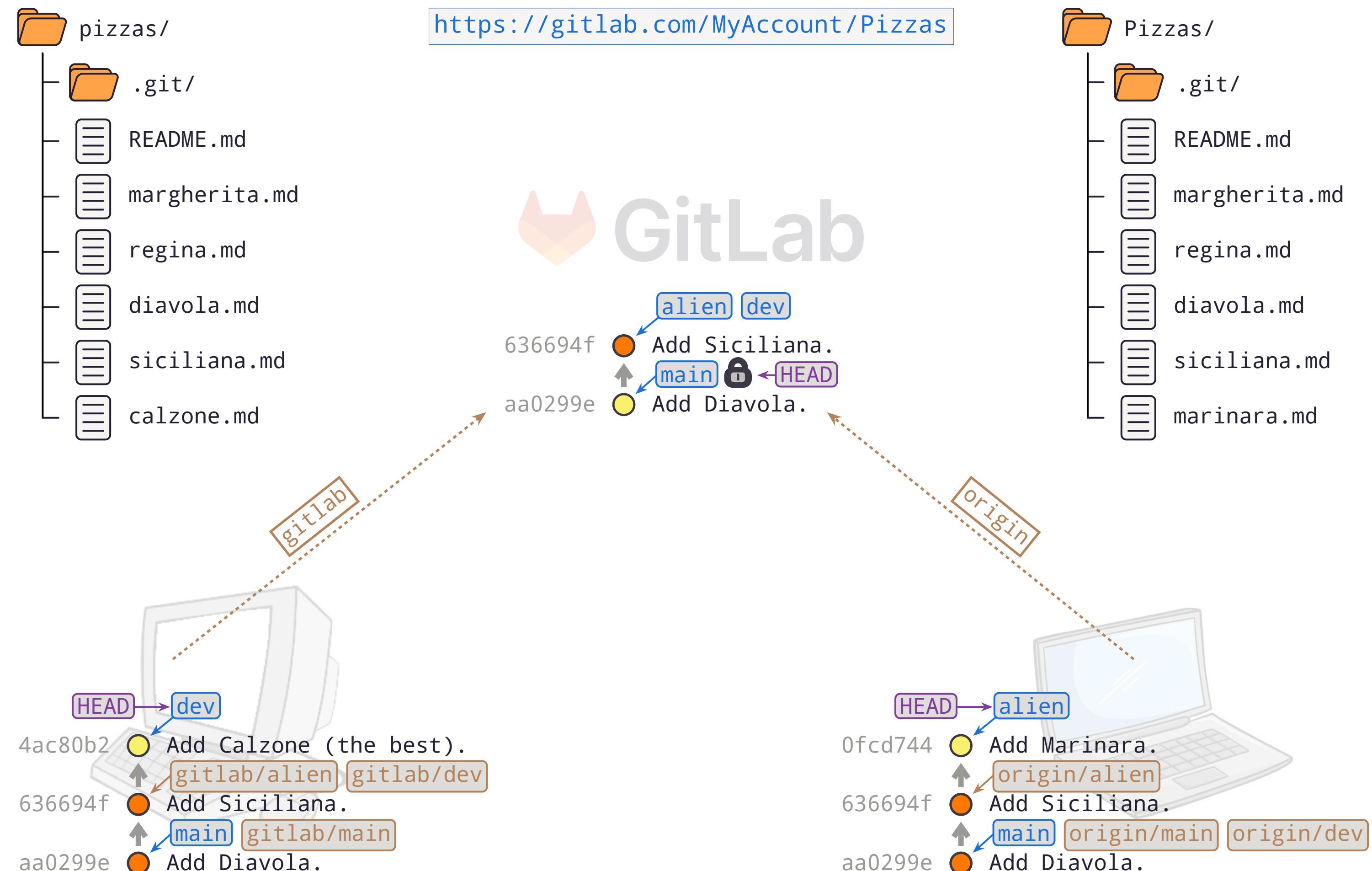
# Collaborate

When you Diverge



# Collaborate

When you Diverge



# Collaborate

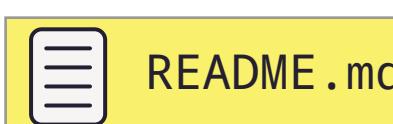
When you Diverge



pizzas/



.git/



README.md



margherita.md



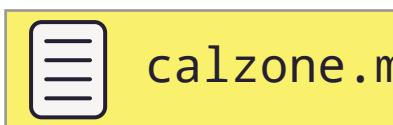
regina.md



diavola.md



siciliana.md



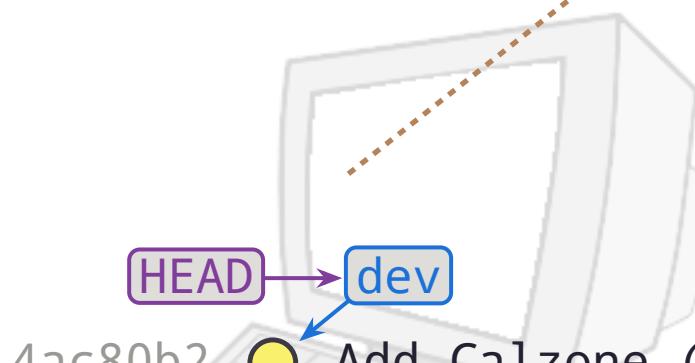
calzone.md

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



636694f alien dev  
aa0299e Add Siciliana.  
main HEAD  
Add Diavola.

gitlab



4ac80b2 HEAD → dev  
Add Calzone (the best).  
gitlab/alien gitlab/dev  
4ac80b2  
636694f Add Siciliana.  
main gitlab/main  
aa0299e Add Diavola.



Pizzas/



.git/



README.md



margherita.md



regina.md



diavola.md



siciliana.md



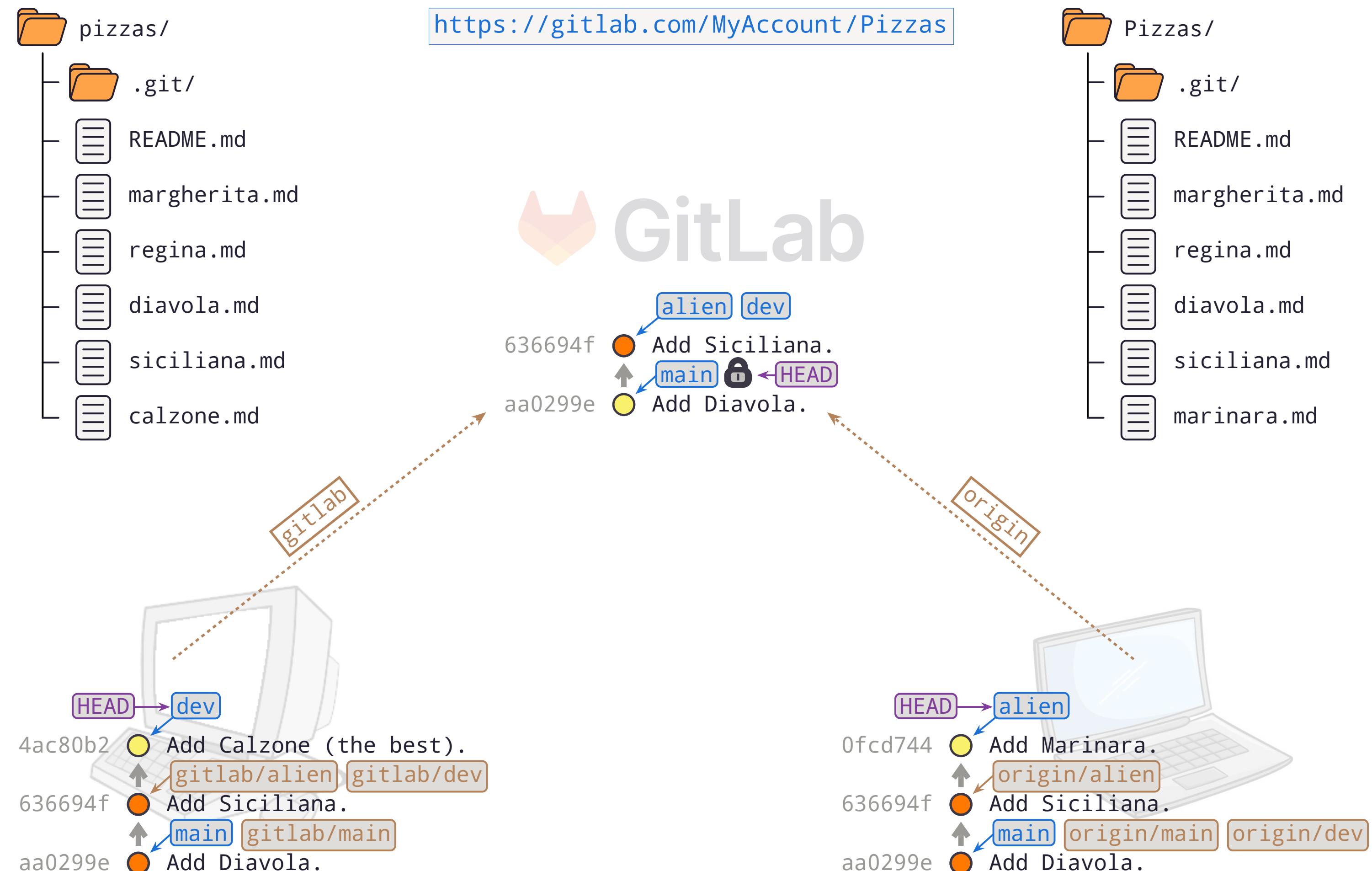
marinara.md

origin

0fcfd744 HEAD → alien  
Add Marinara.  
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636694f Add Siciliana.  
main origin/main origin/dev  
aa0299e Add Diavola.

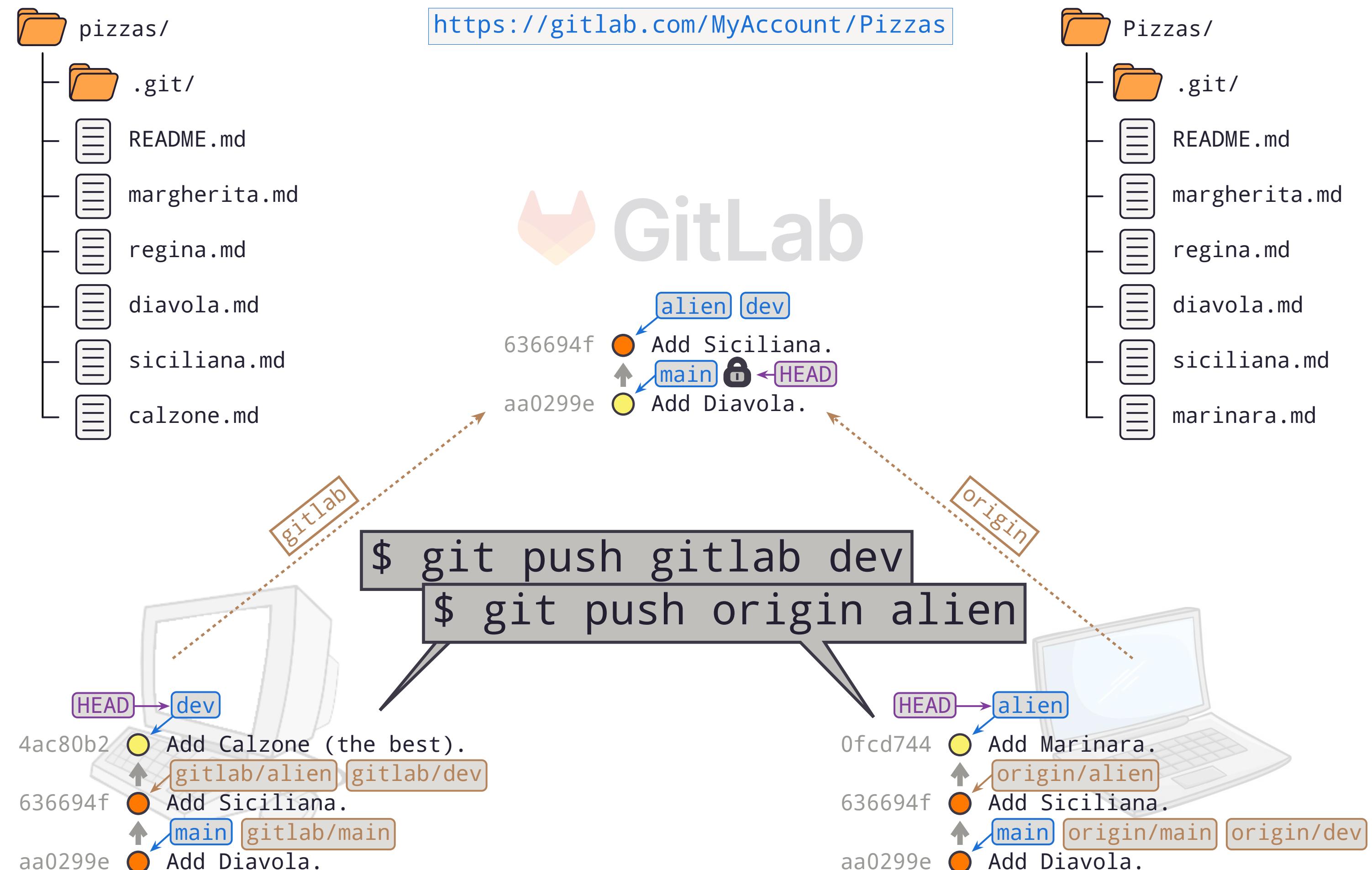
# Collaborate

When you Diverge



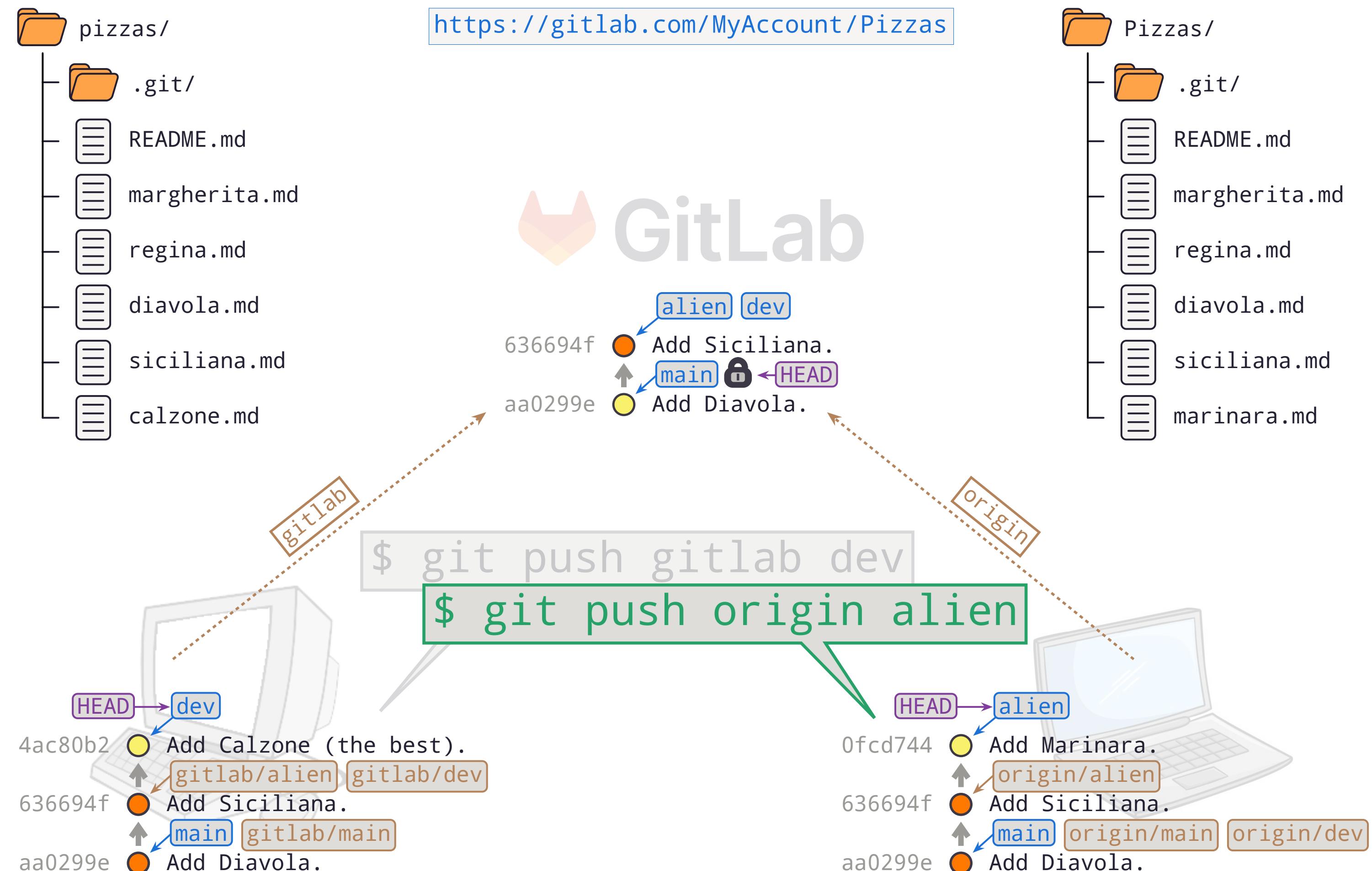
# Collaborate

When you Diverge



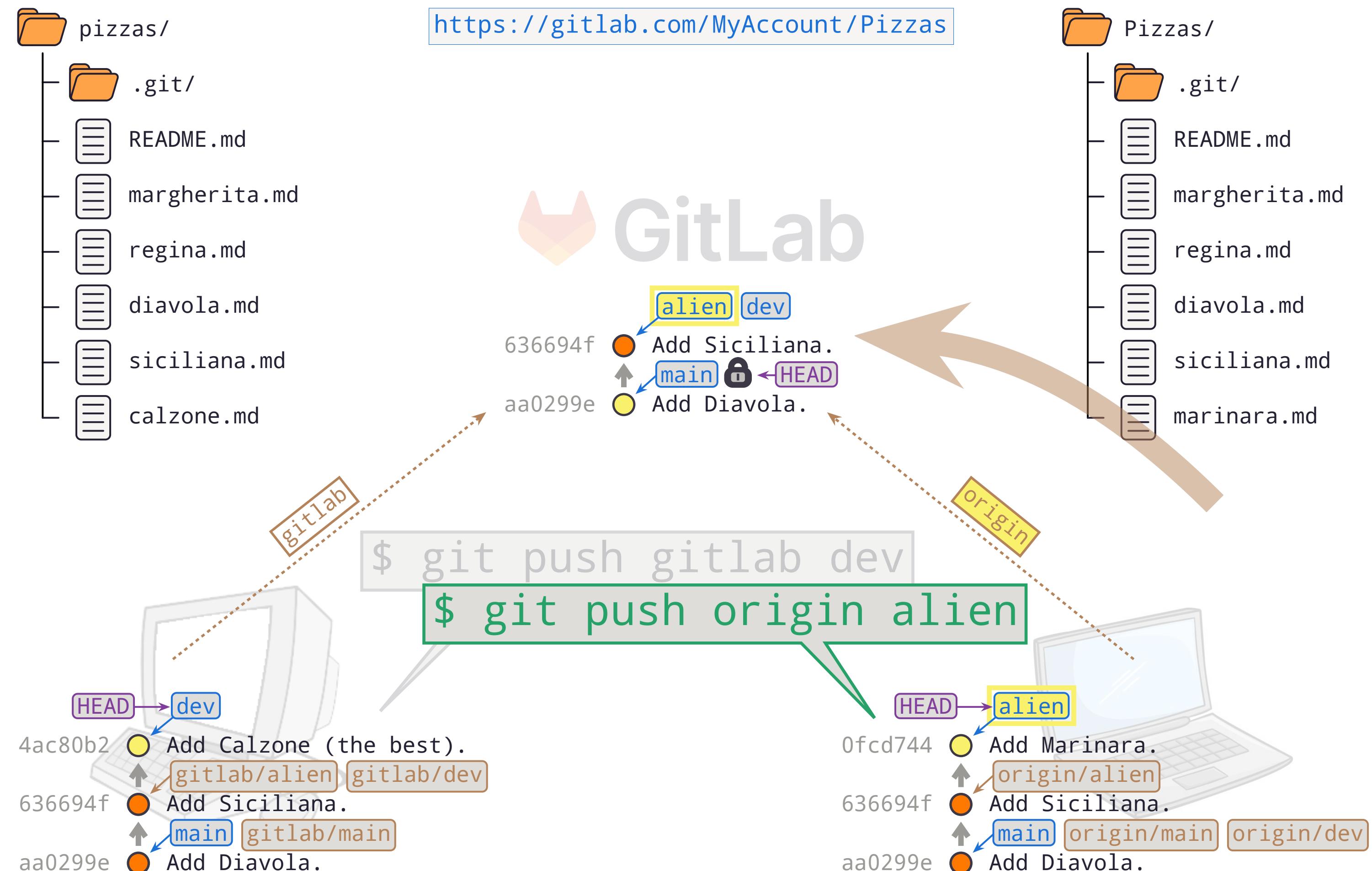
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When you Diverge



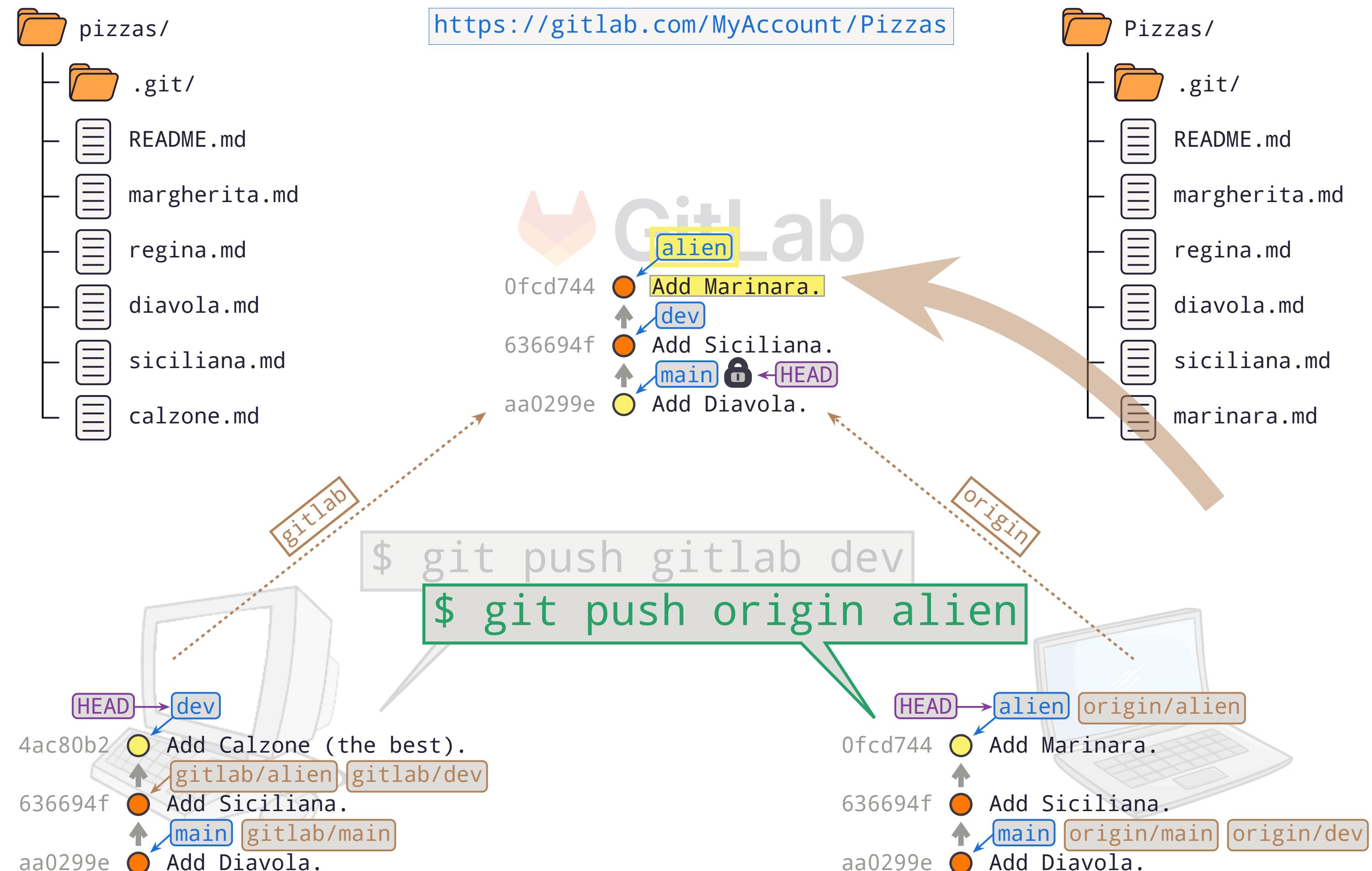
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When you Diverge



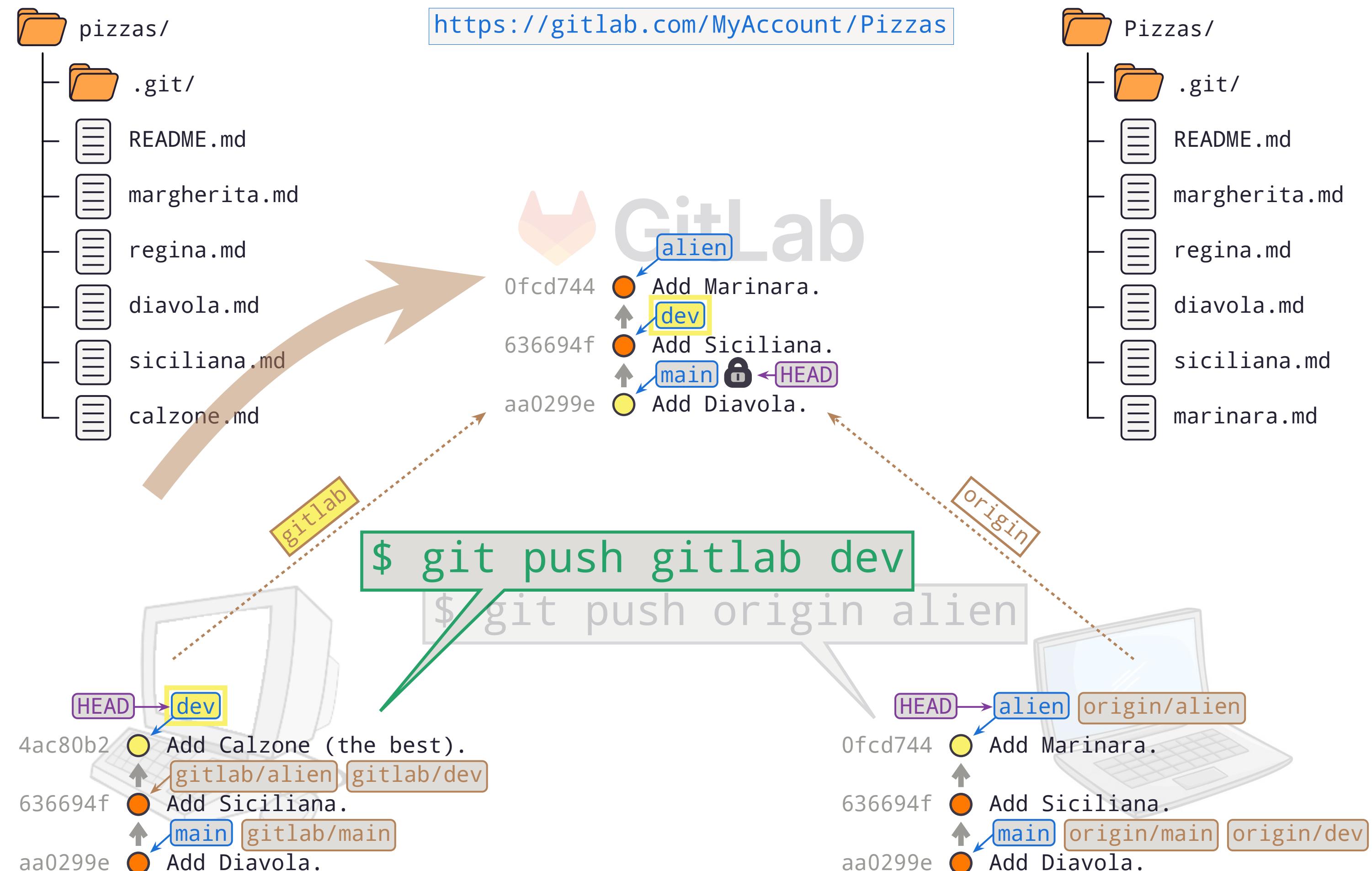
# Collaborate

When you Diverge



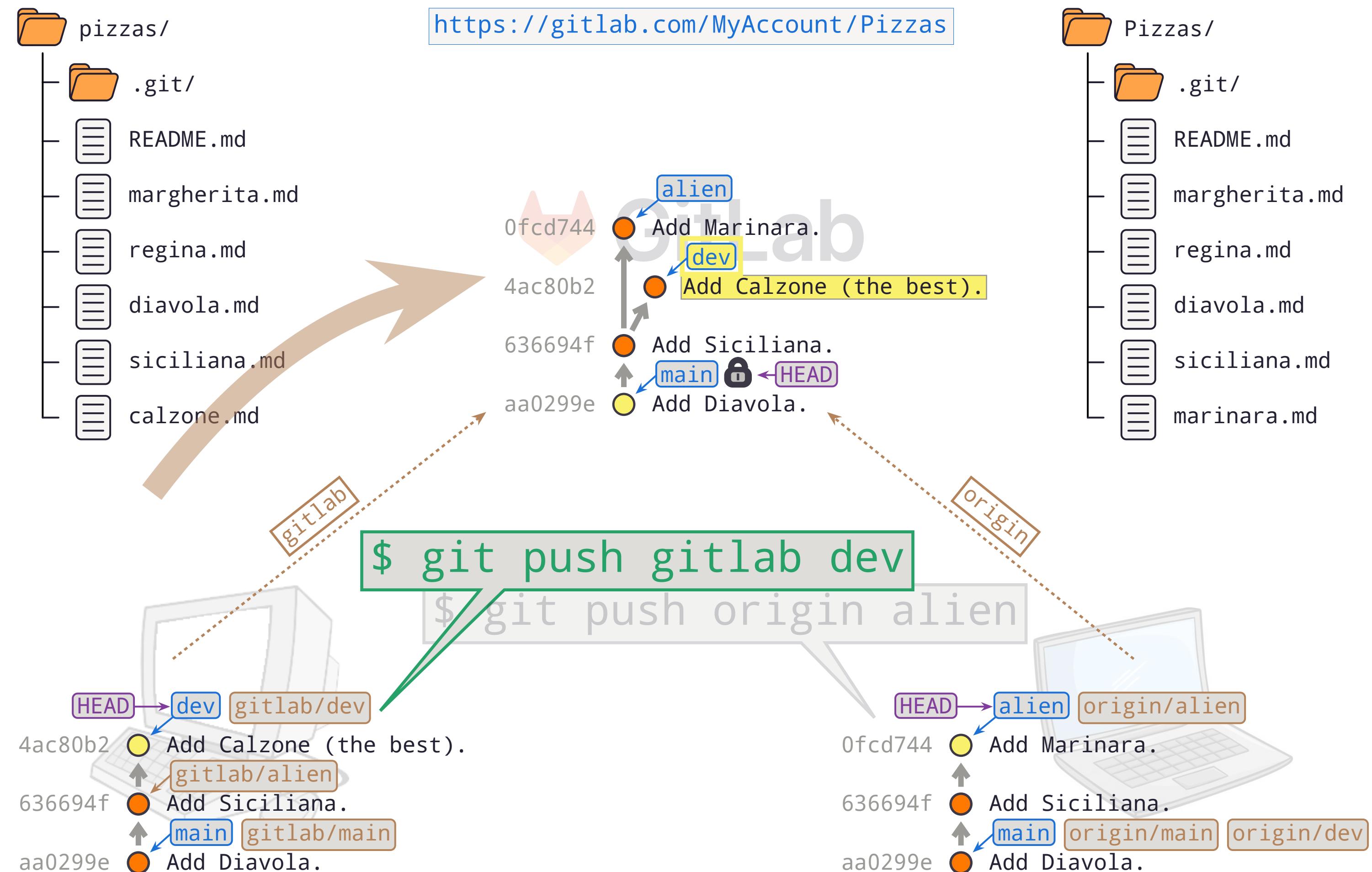
# Collaborate

When you Diverge



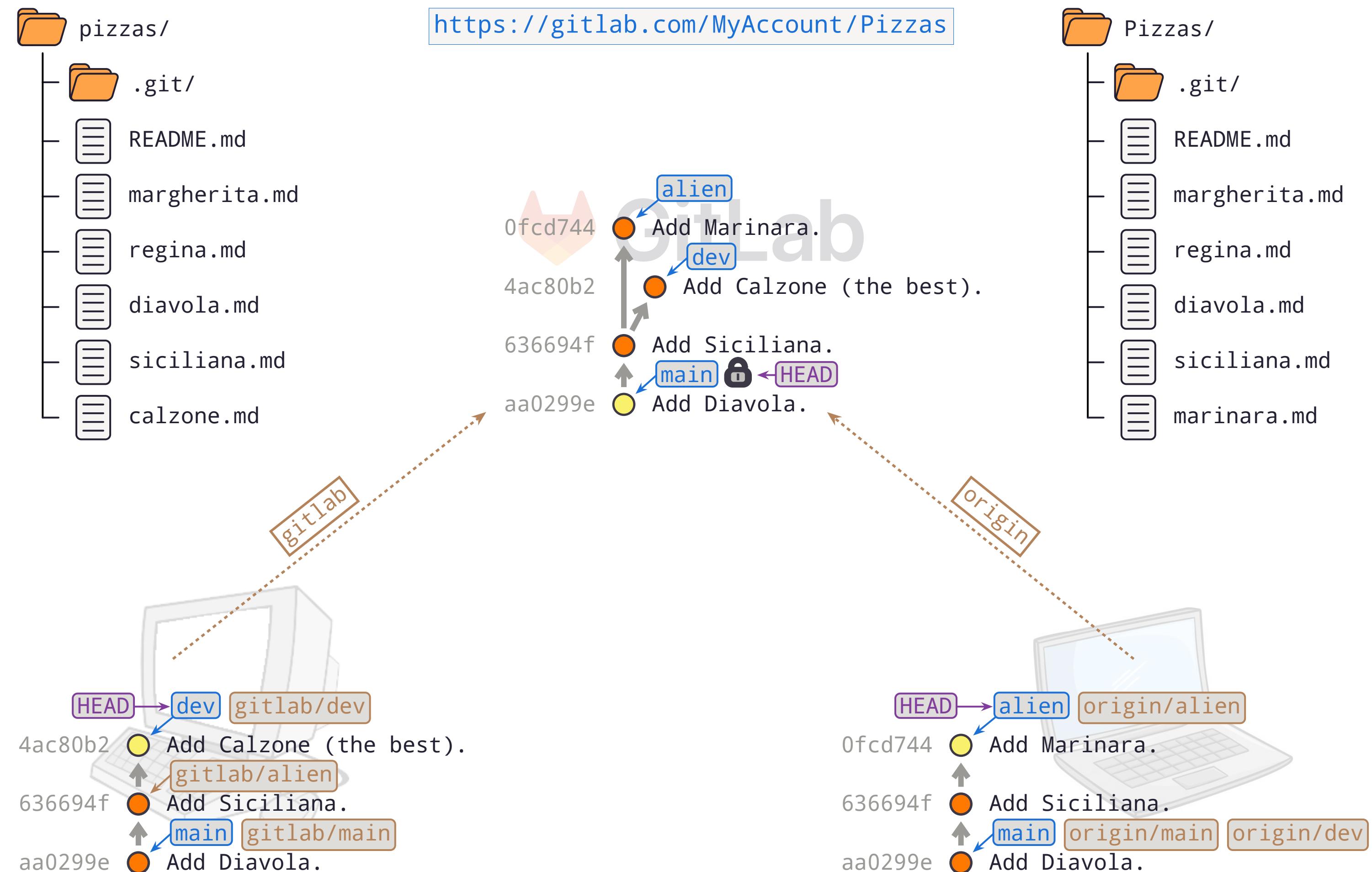
# Collaborate

When you Diverge



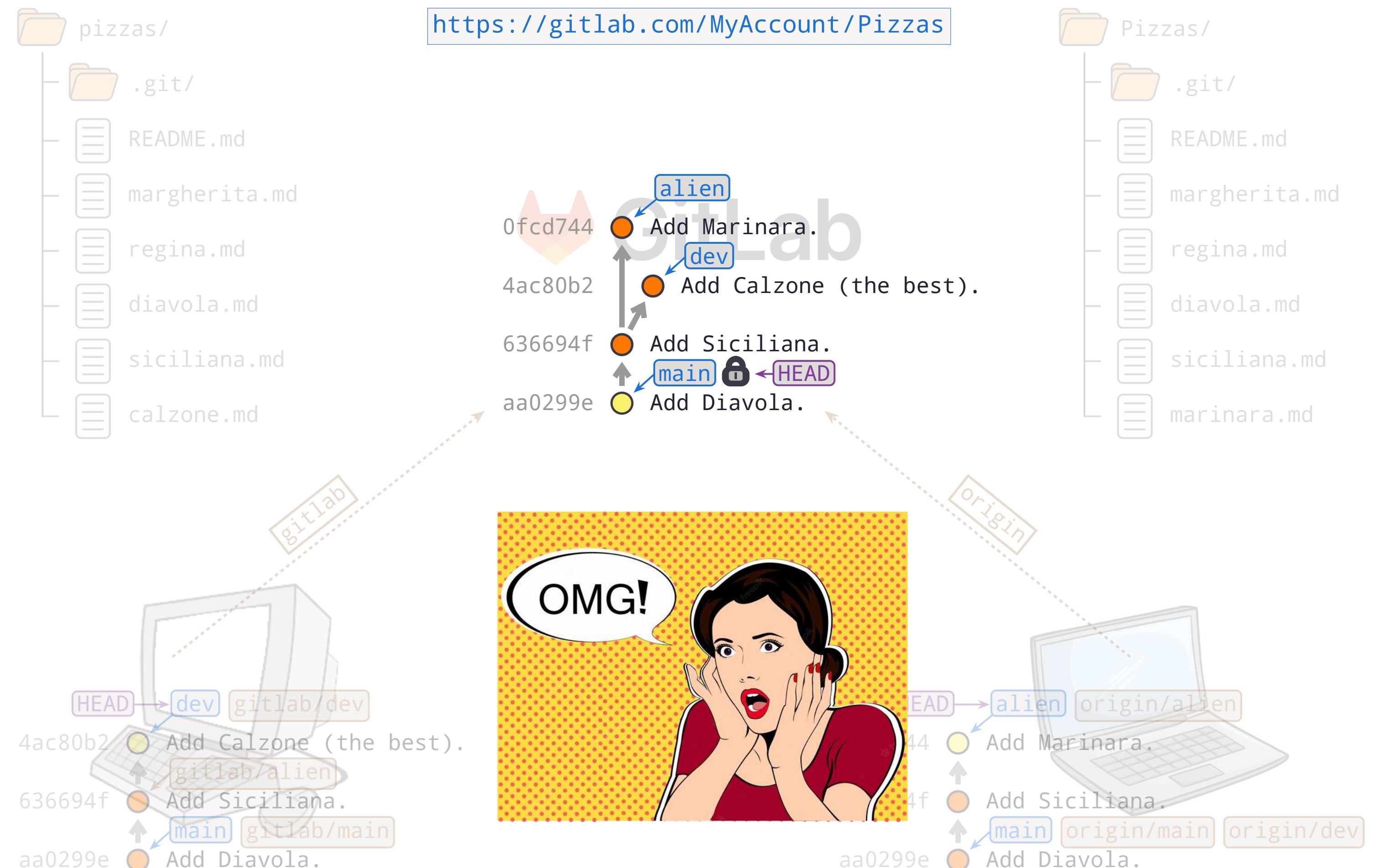
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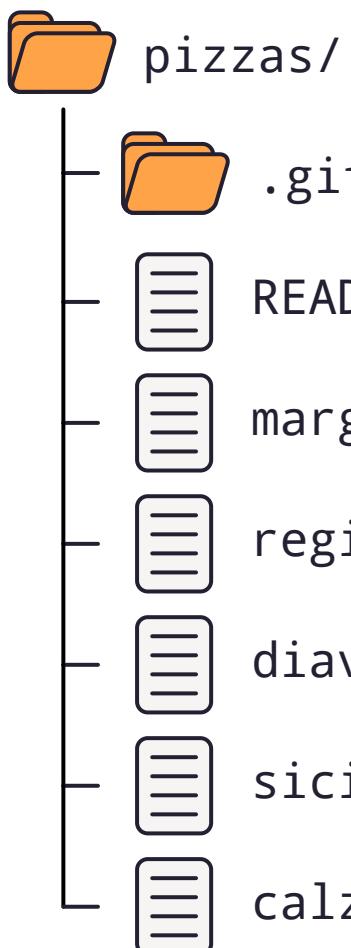
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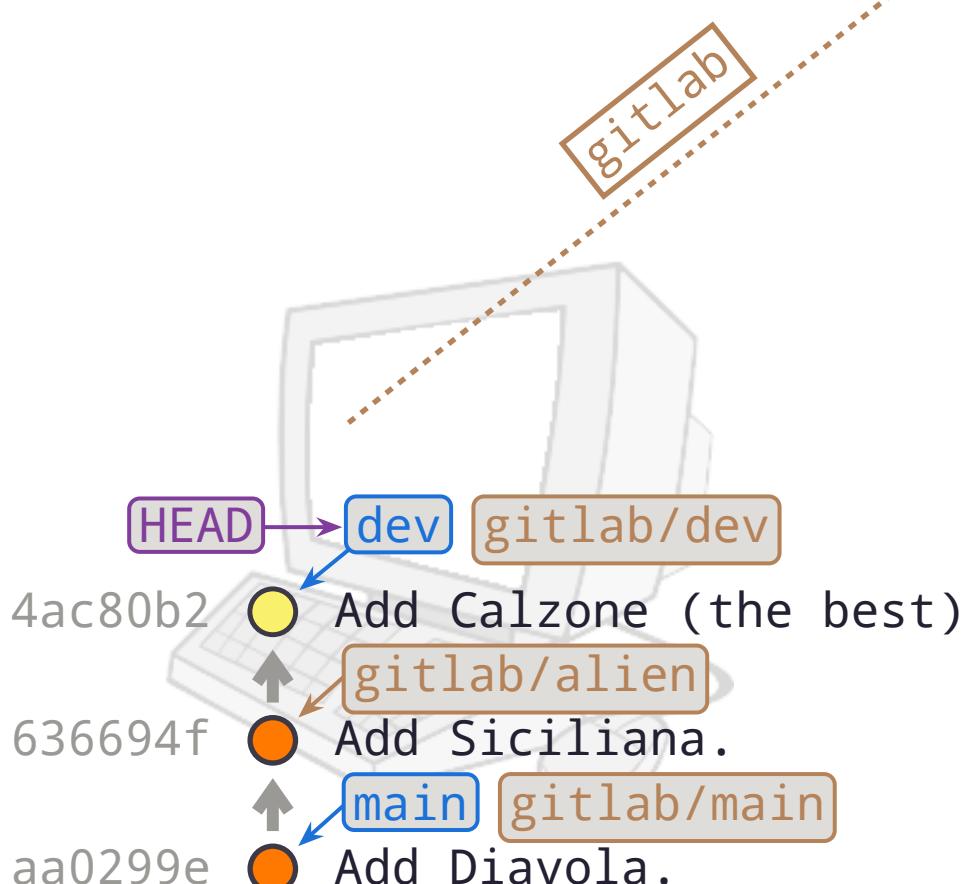
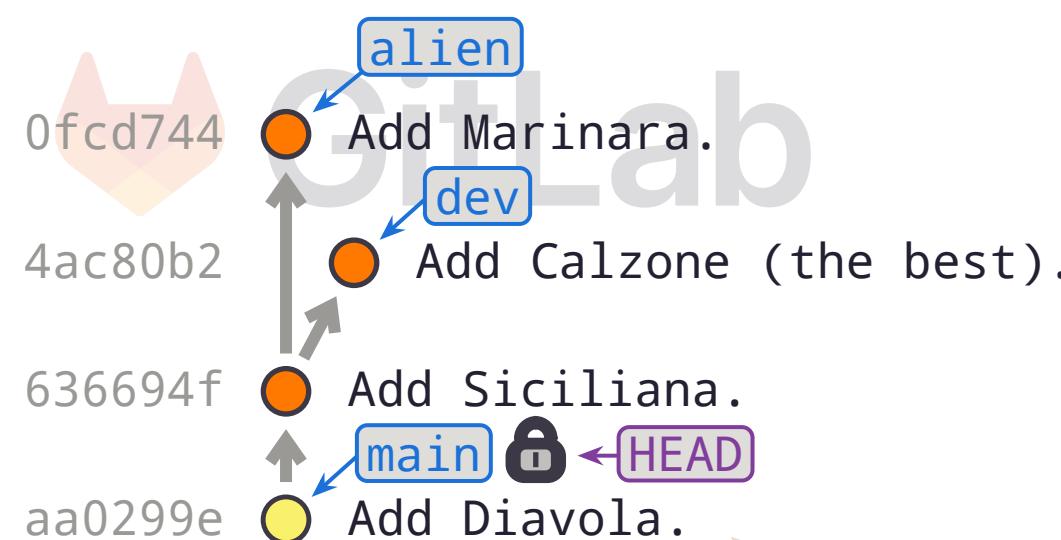


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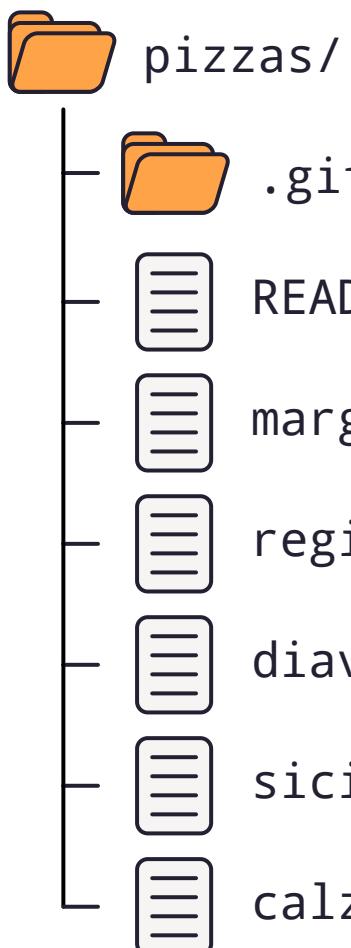


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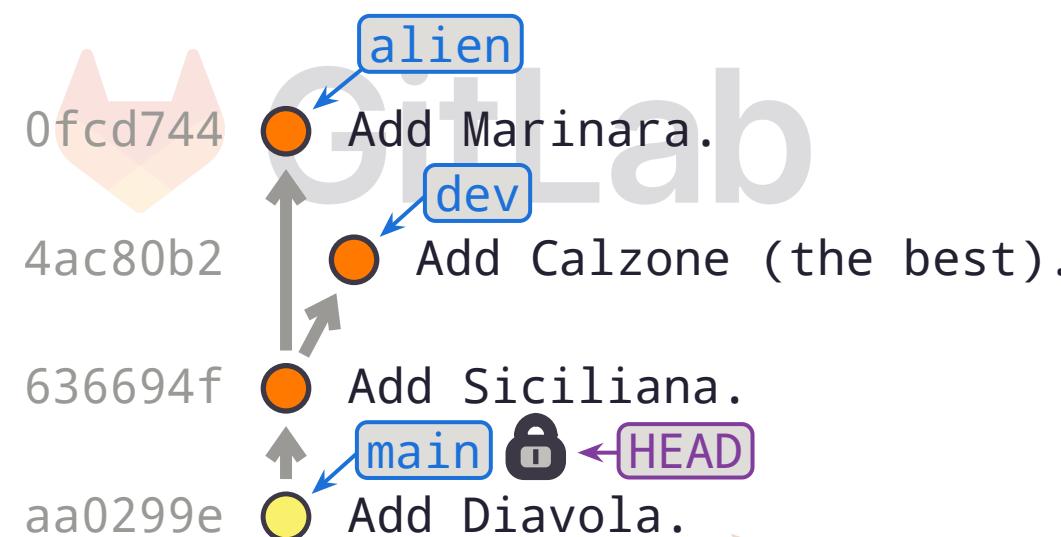


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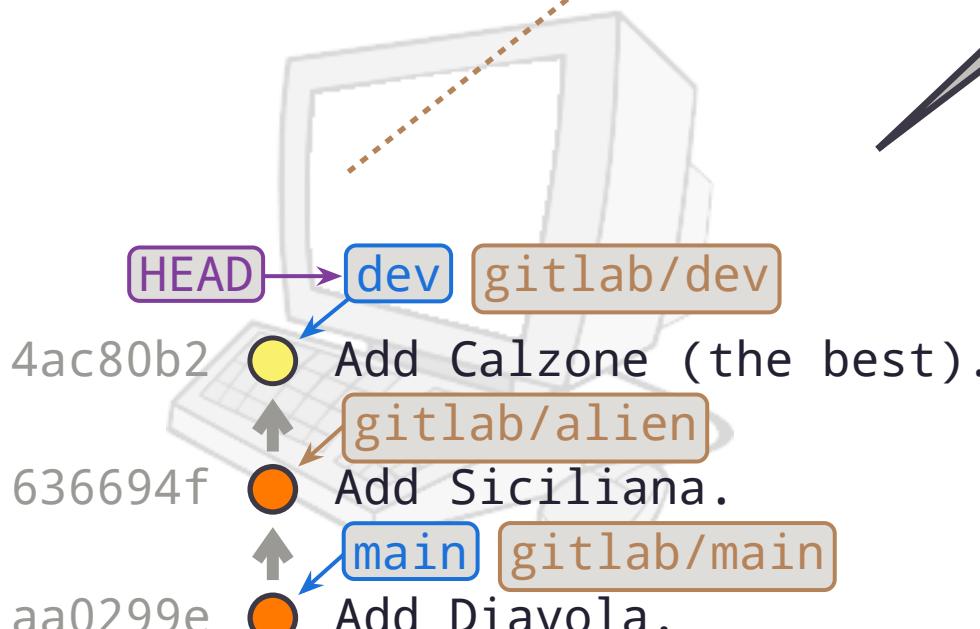
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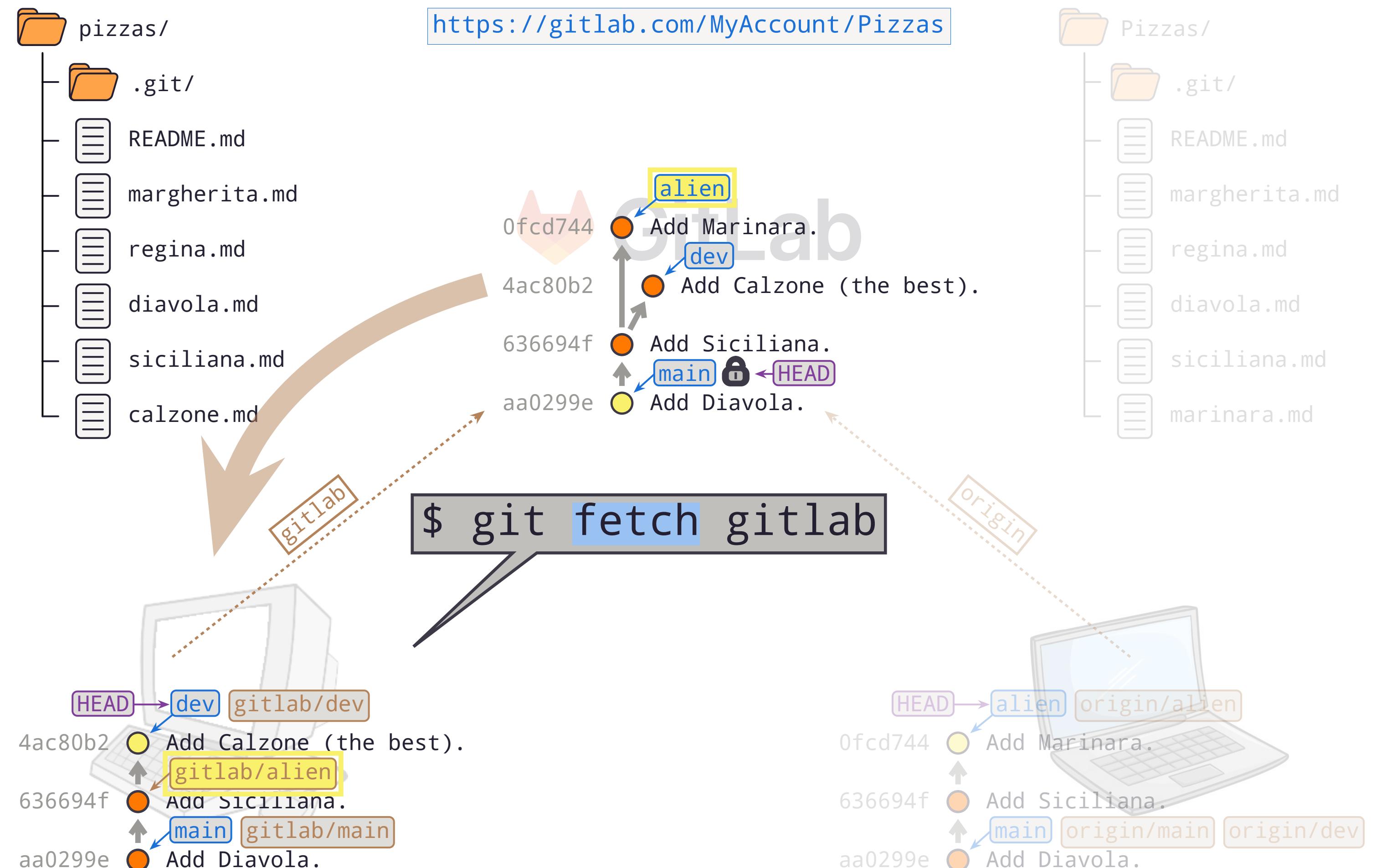


\$ git fetch gitlab



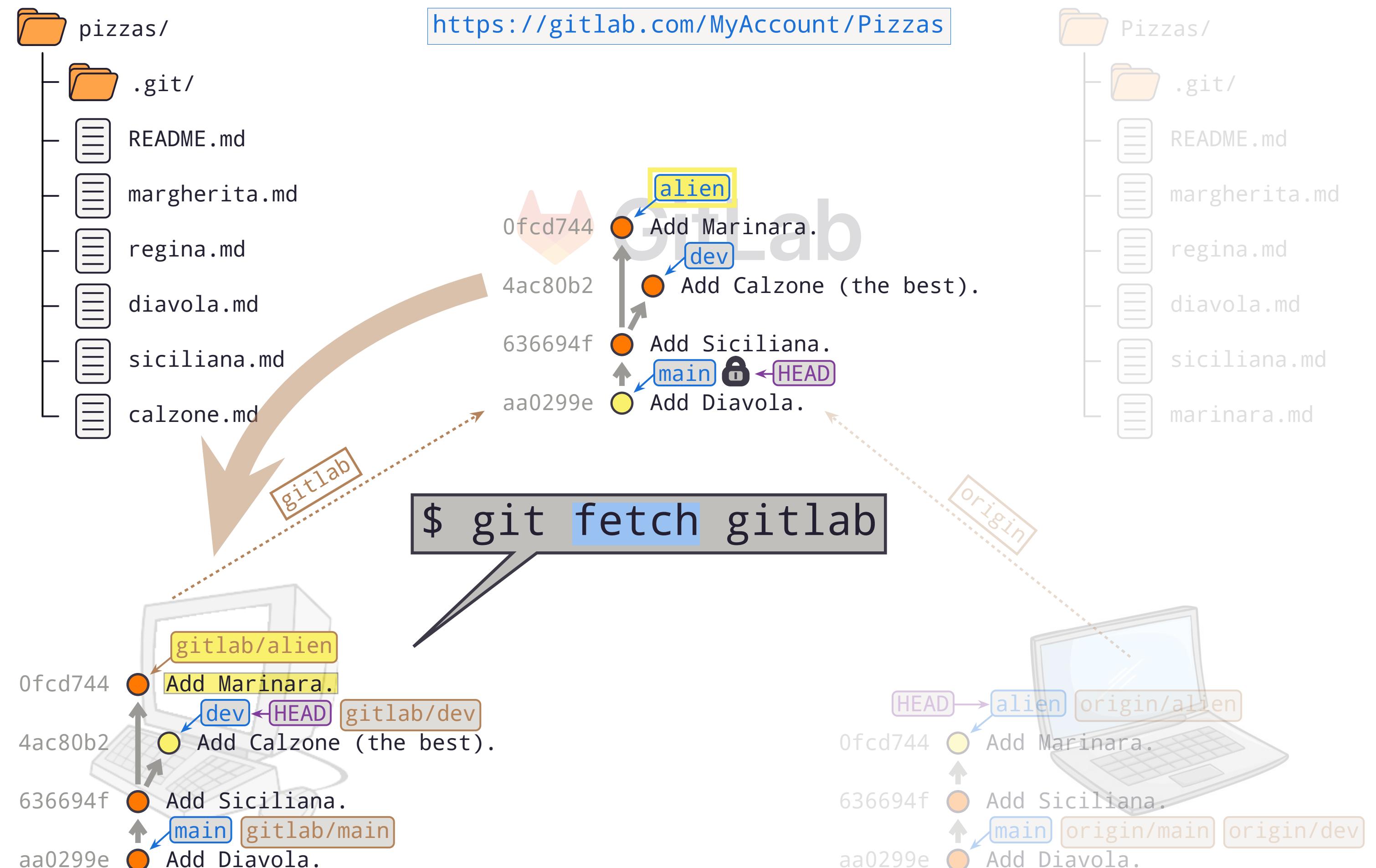
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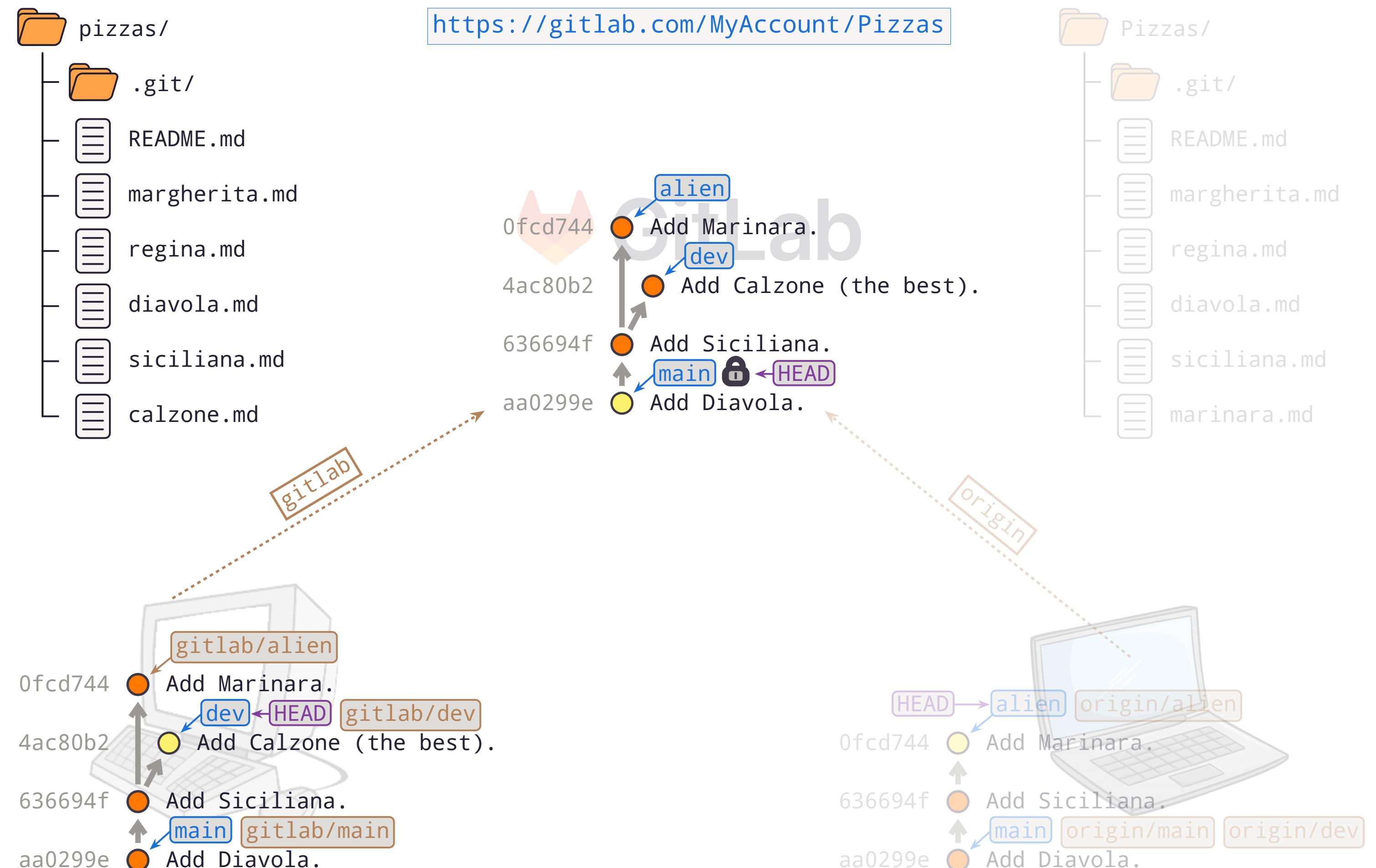
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When you Diverge



# Collaborate

When you Diverge



# Collaborate

When you Diverge



pizzas/



.git/



README.md



margherita.md



regina.md



diavola.md

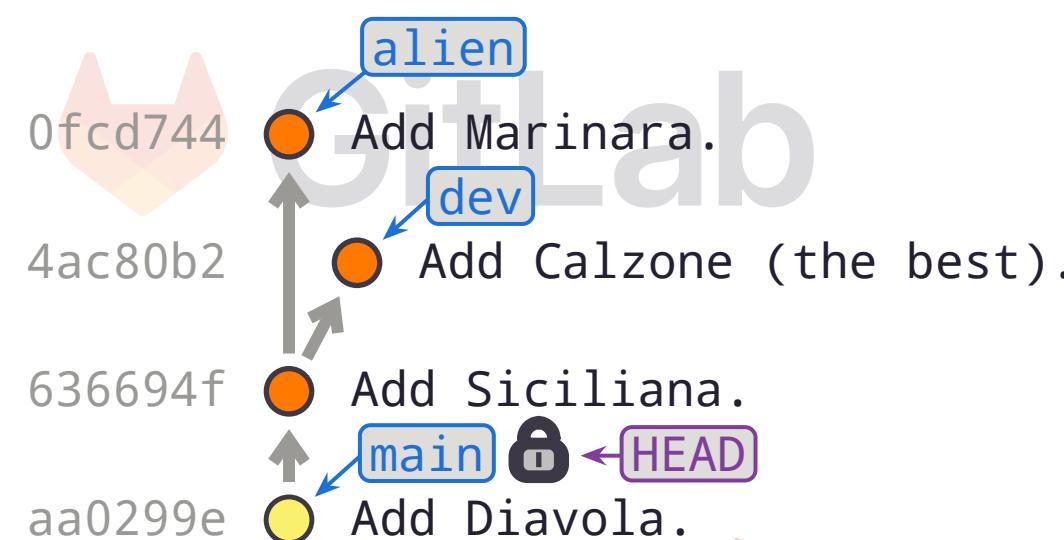


siciliana.md

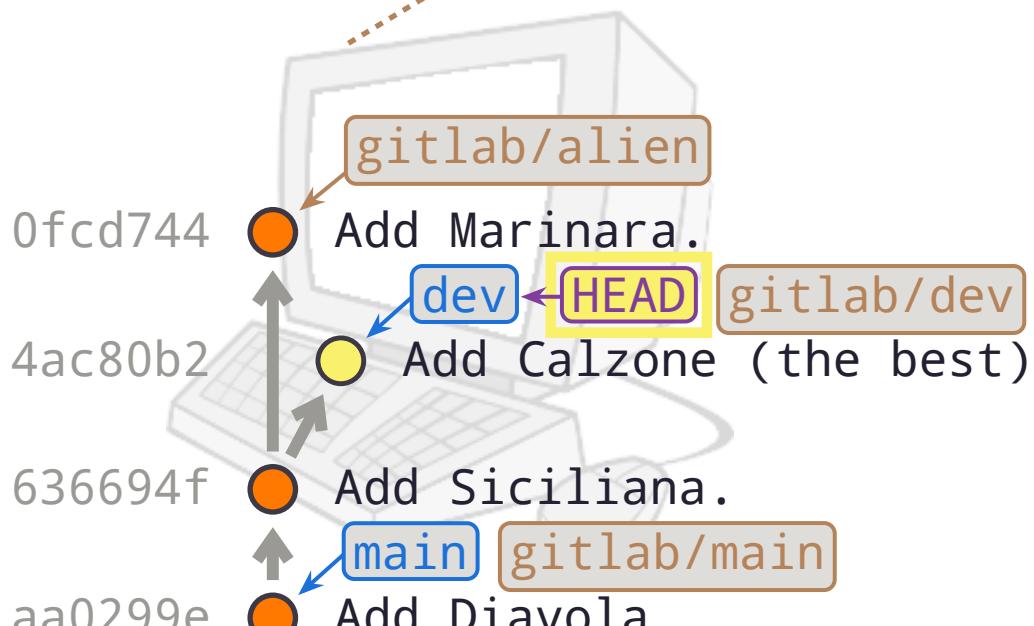


calzone.md

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



gitlab



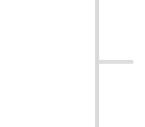
Pizzas/



.git/



README.md



margherita.md



regina.md



diavola.md



siciliana.md



marinara.md

origin



# Collaborate

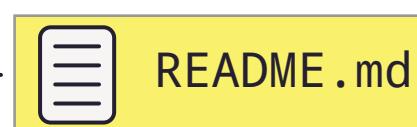
When you Diverge



pizzas/



.git/



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margherita.md



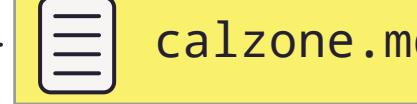
regina.md



diavola.md

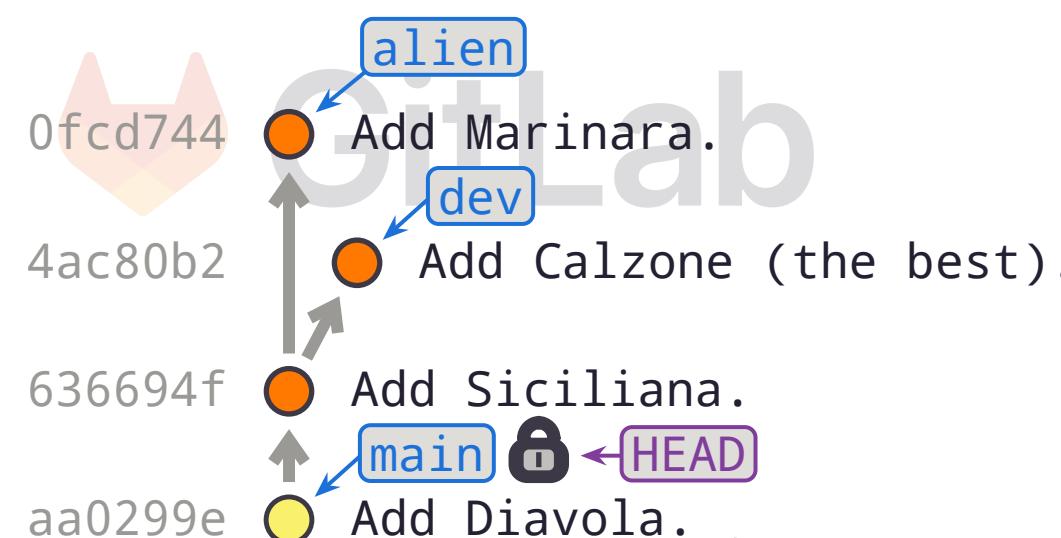


siciliana.md

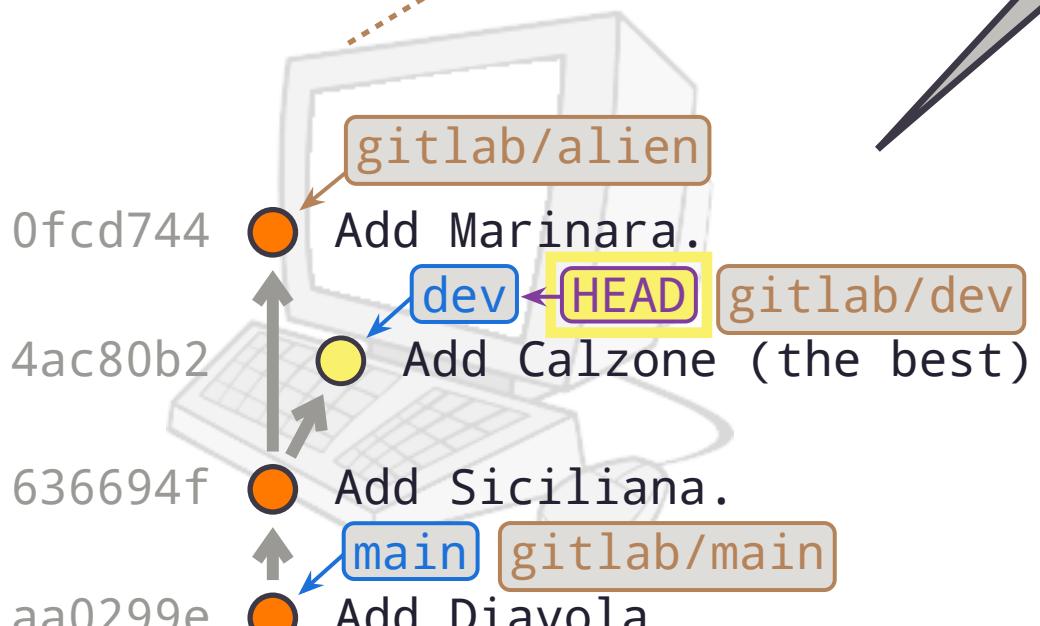


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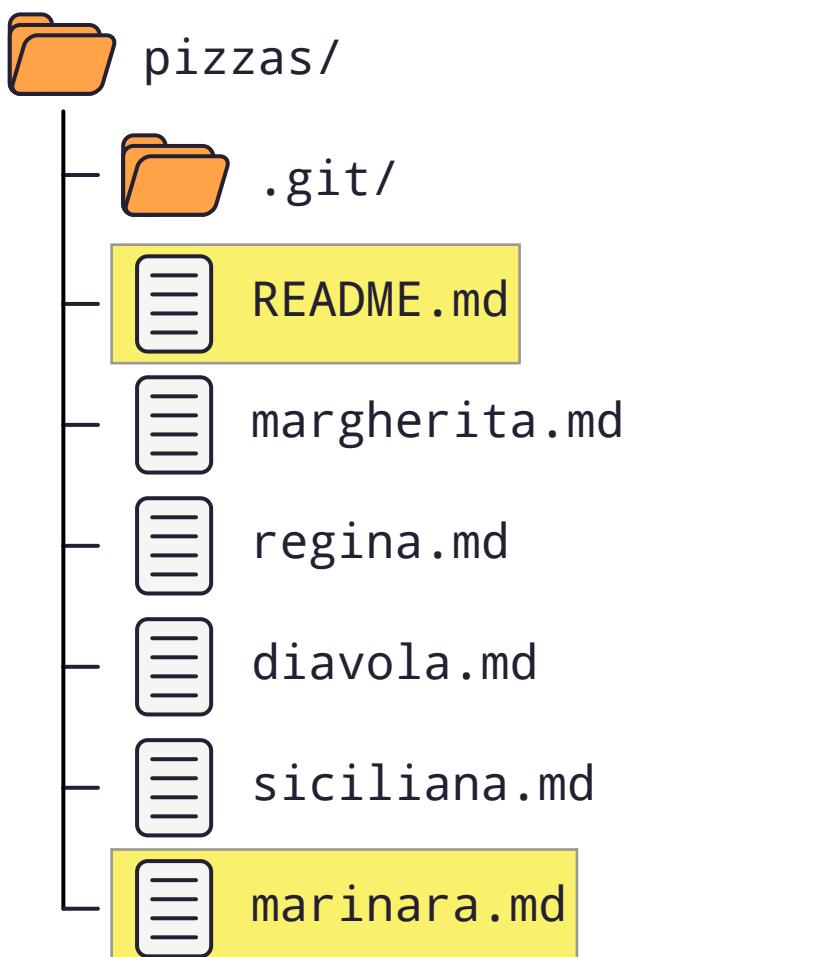


\$ git checkout gitlab/alien

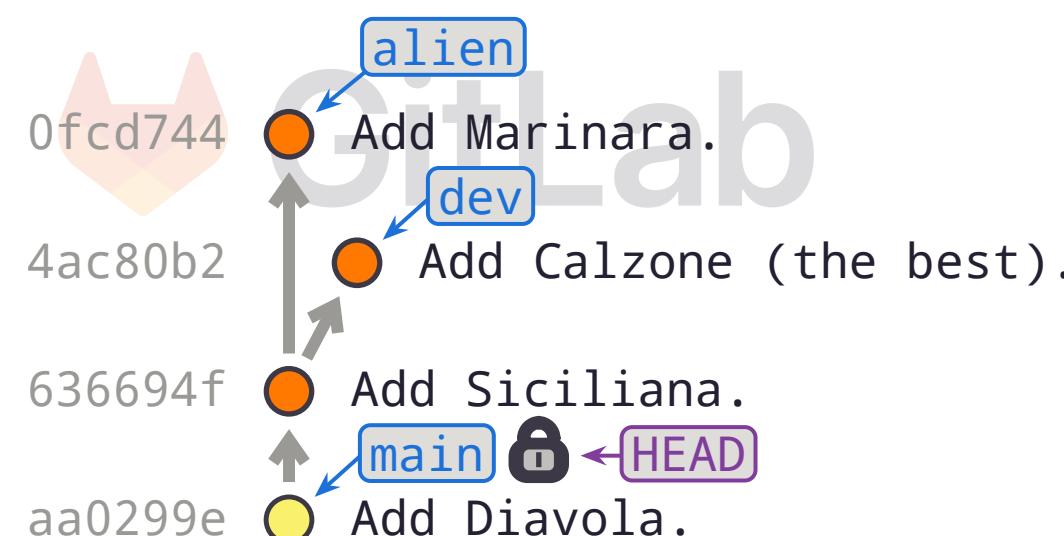


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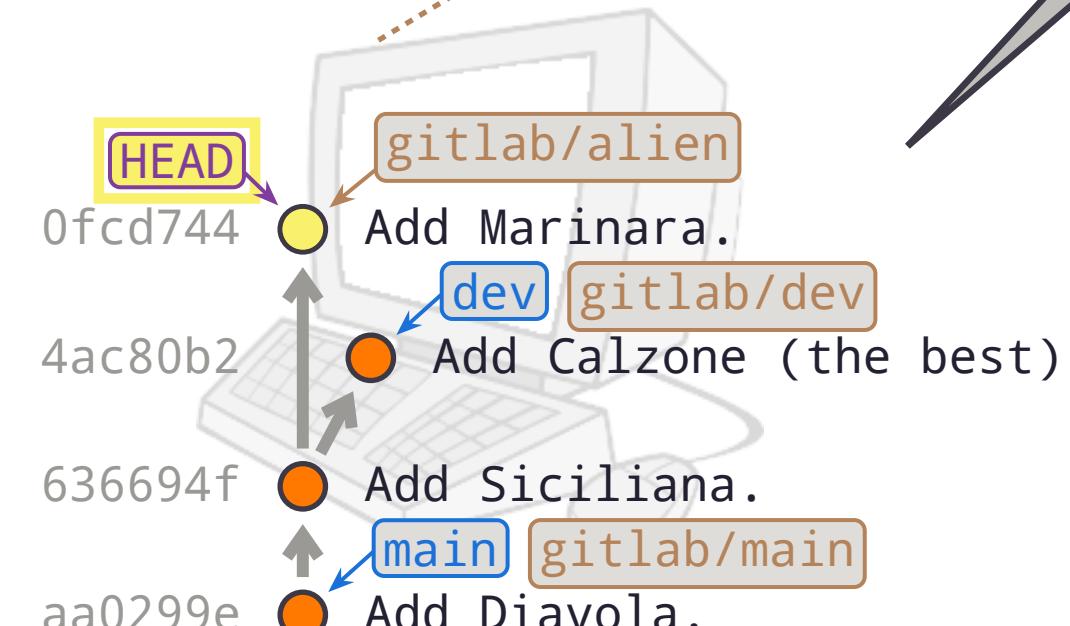
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pizzas/



.git/



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margherita.md



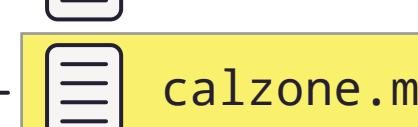
regina.md



diavola.md

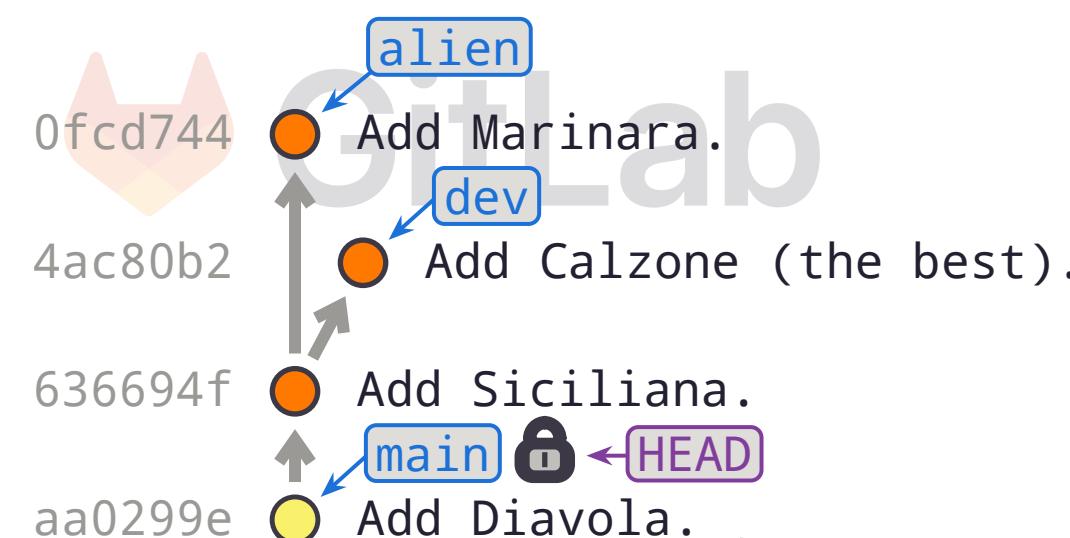


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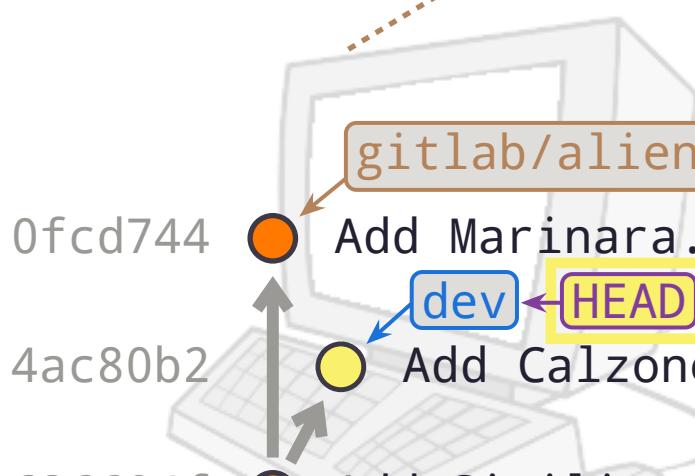
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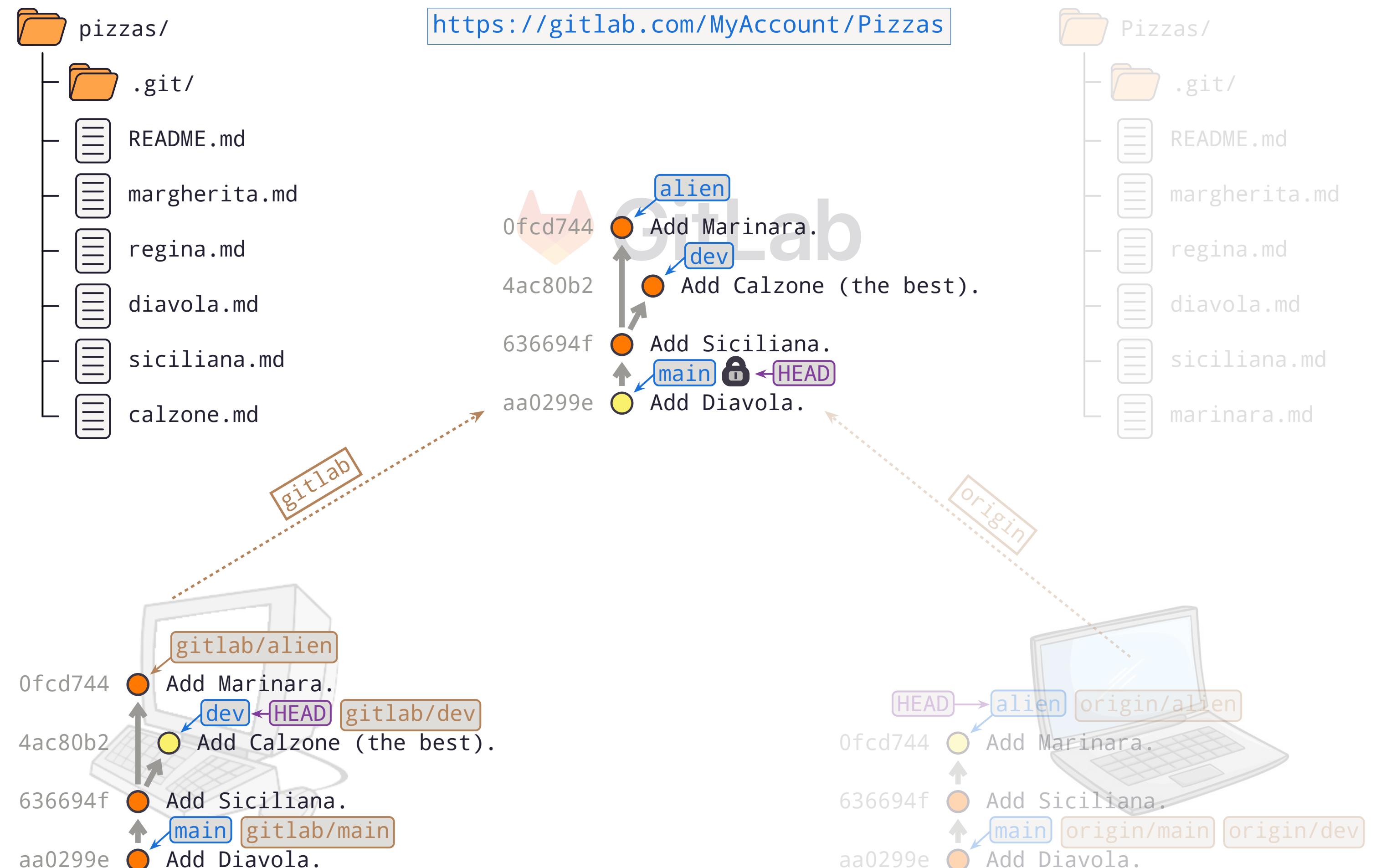
gitlab

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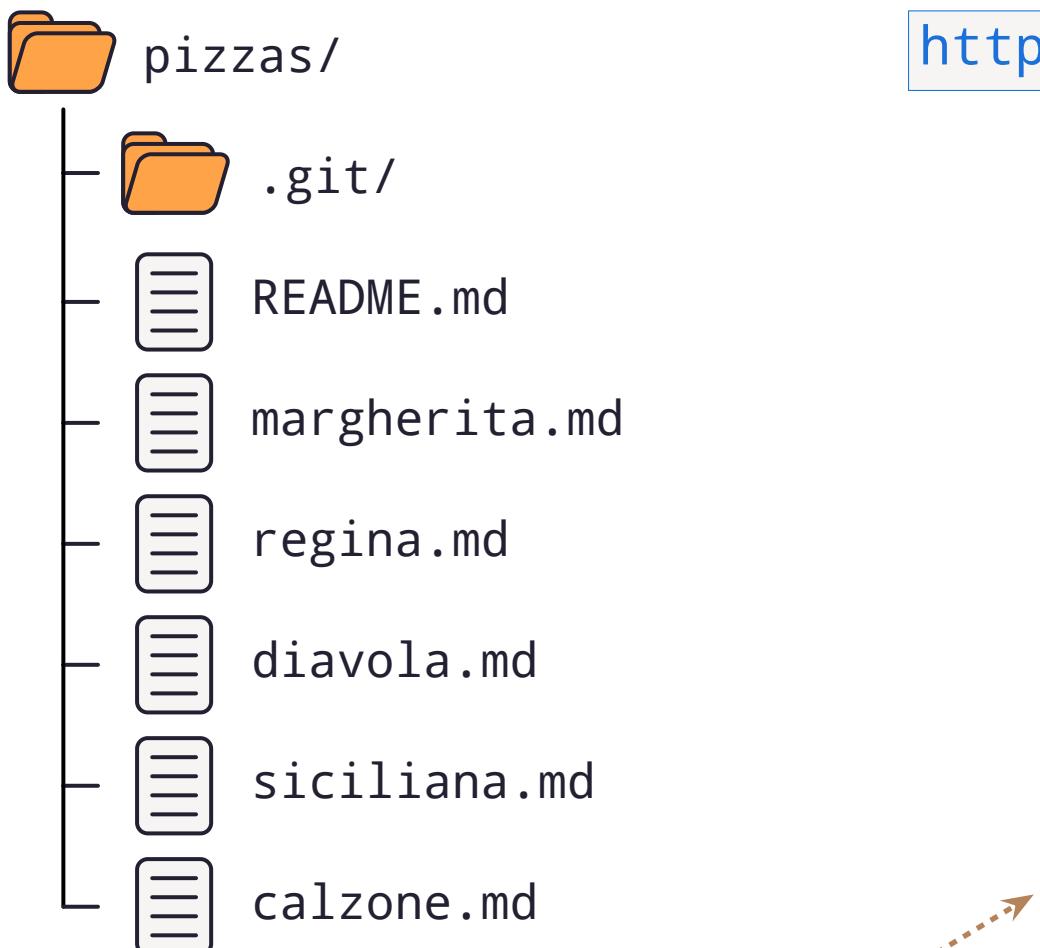
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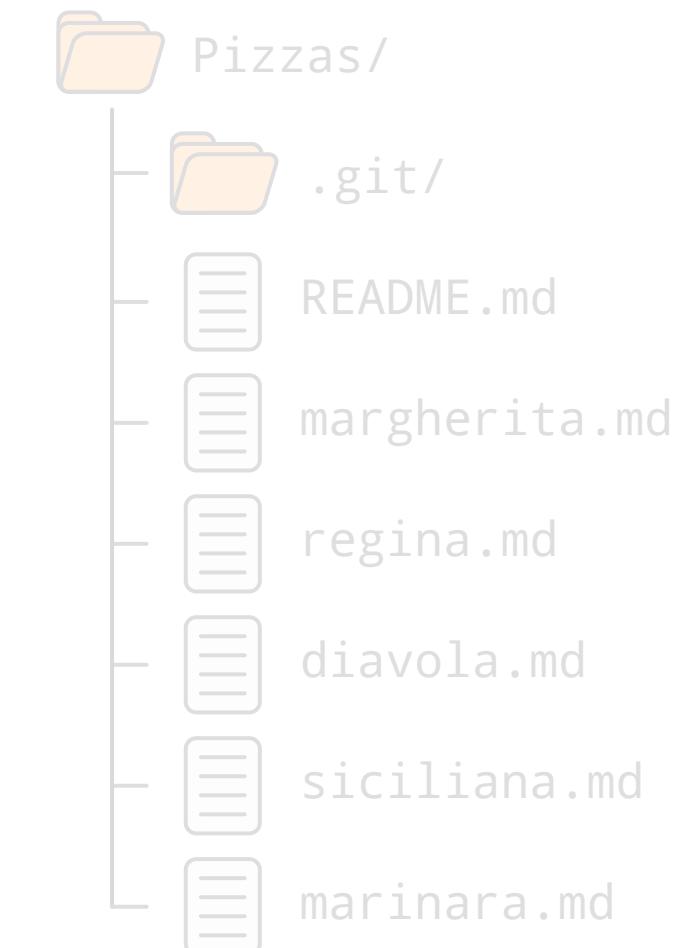
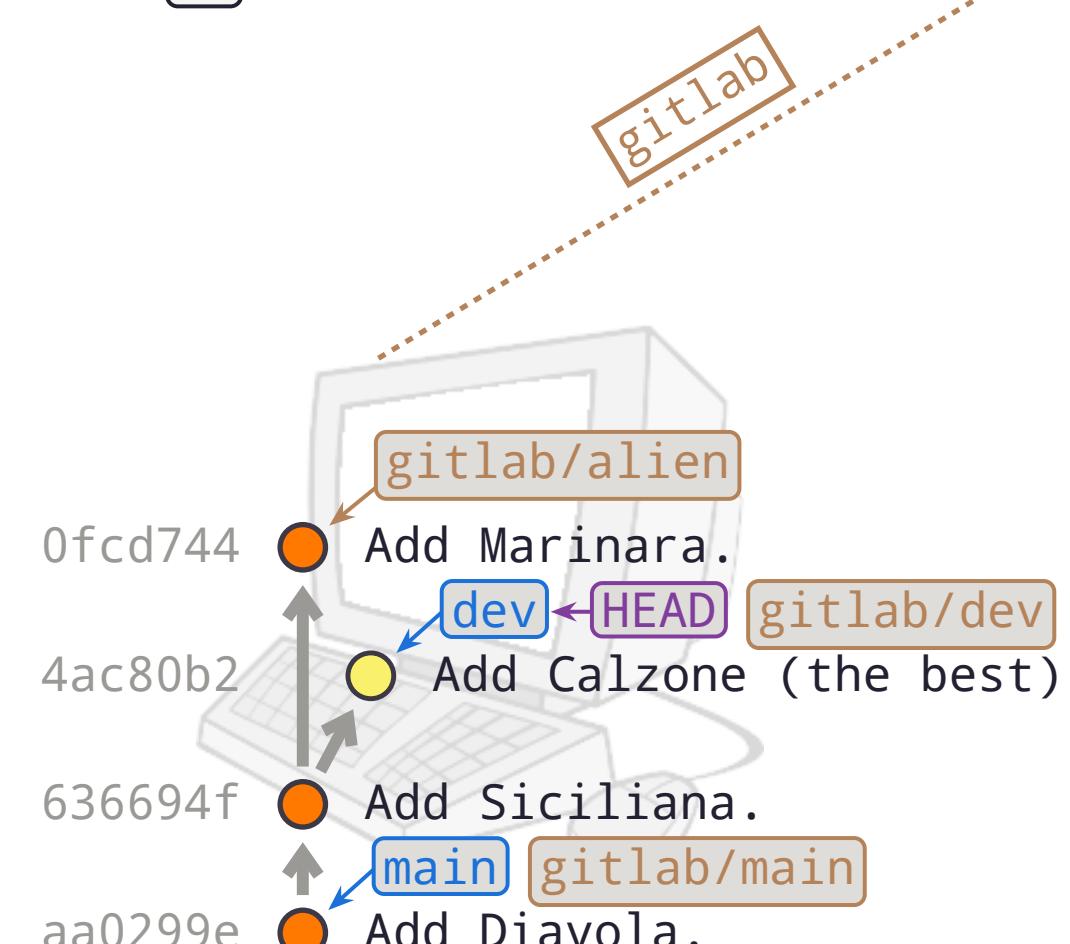
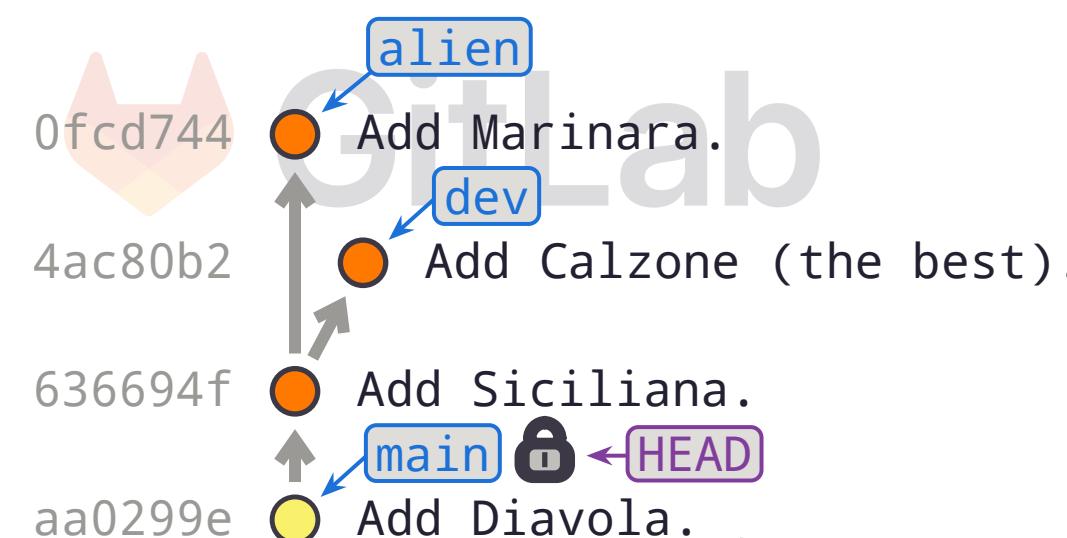


# Collaborate

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



# Conflicts



# Resolve Conflicts

What a “Conflict” Means

# Resolve Conflicts

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change on one side

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change on both sides

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disjoint lines

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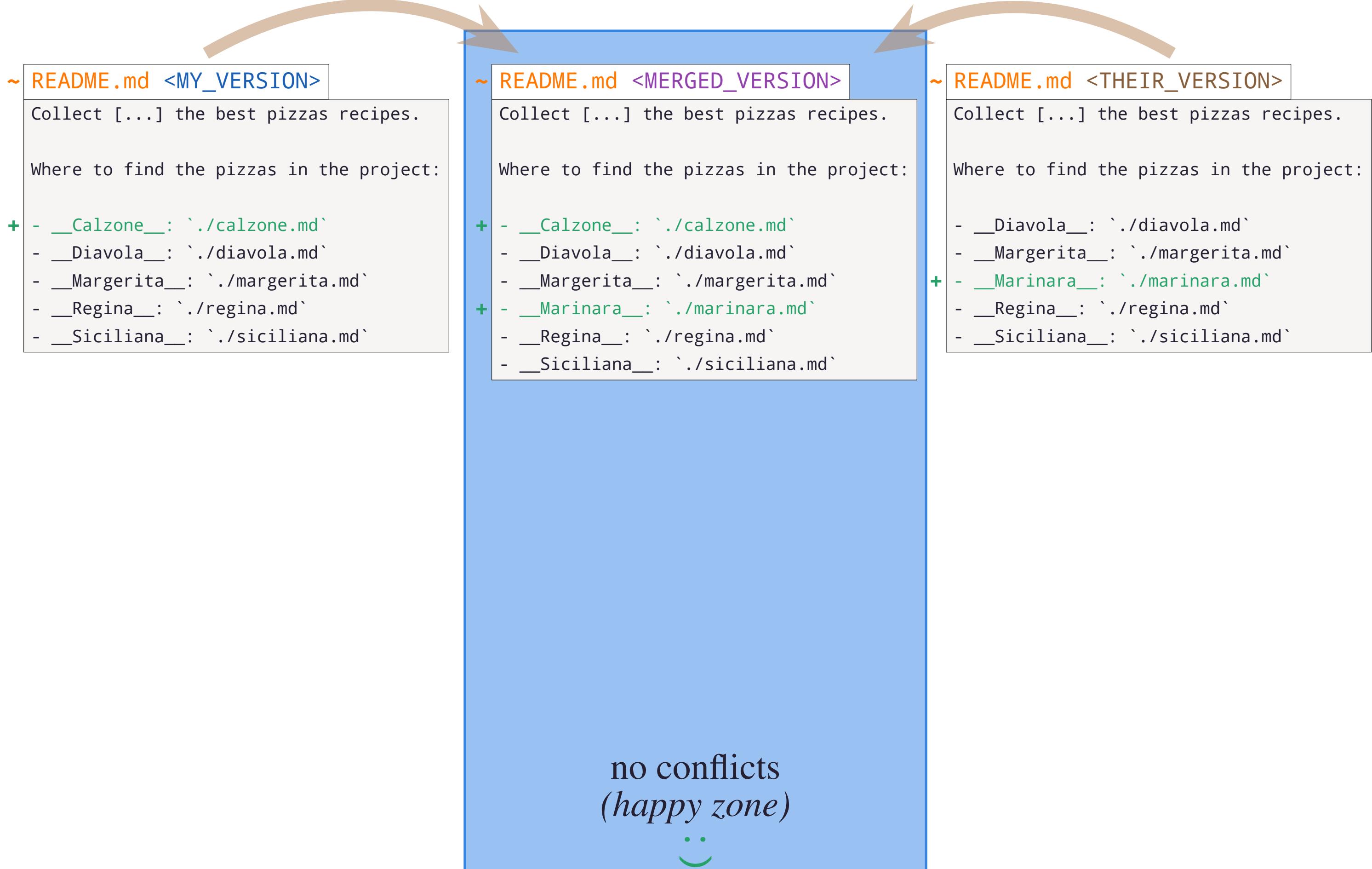
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## What a “Conflict” Means



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no conflicts  
(*happy zone*)  
:-)

# Resolve Conflicts

## What a “Conflict” Means

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inline changes?

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# Resolve Conflicts

## What a “Conflict” Means

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```

### ~ README.md <THEIR\_VERSION>

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Collect [...] the best pizzas recipes.
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inline changes?

# Resolve Conflicts

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### ~ README.md <THEIR\_VERSION>

```
Collect [...] the best pizzas recipes.
```

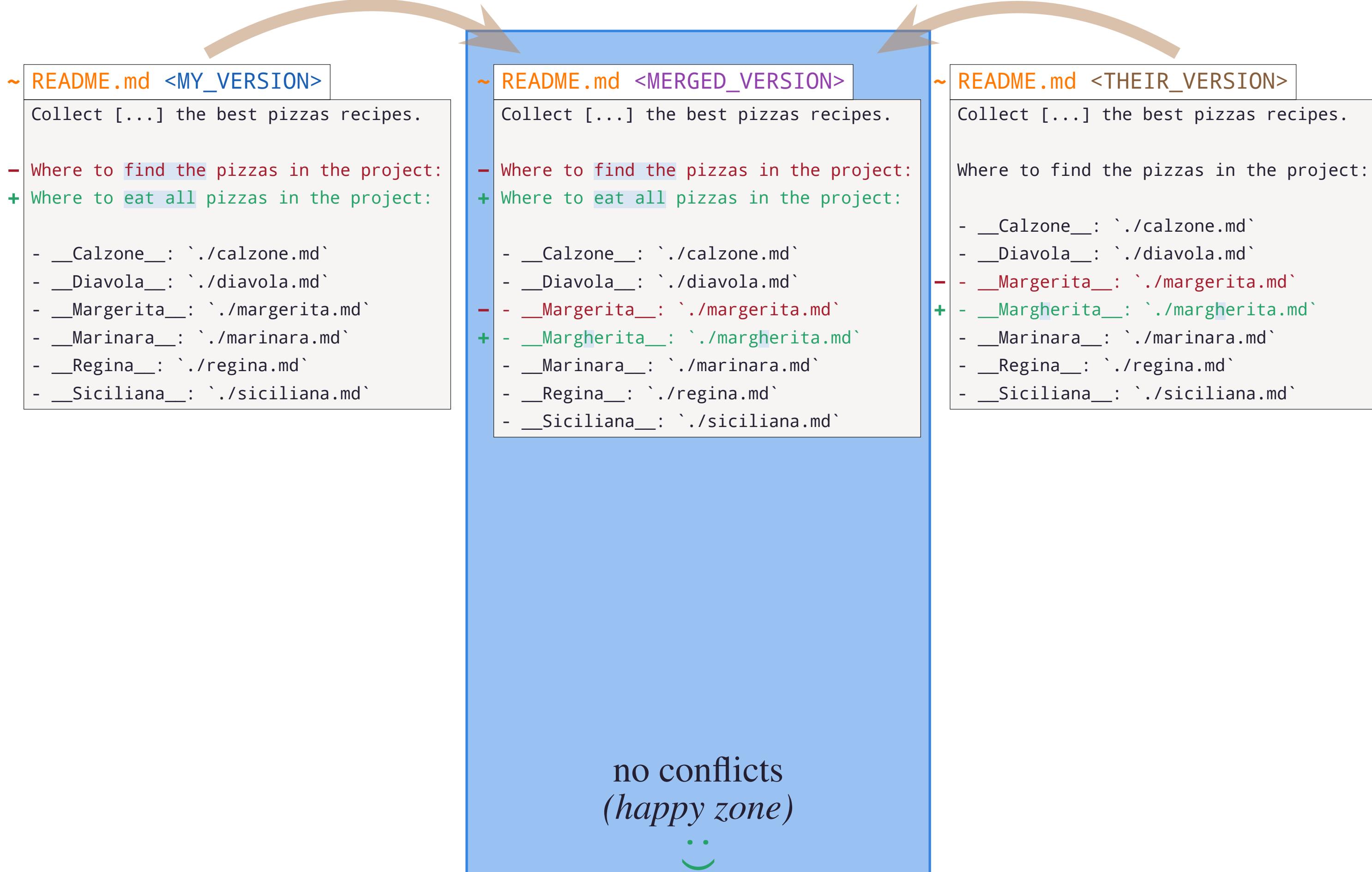
Where to find the pizzas in the project:

```
- __Calzone__: `./calzone.md`  
- __Diavola__: `./diavola.md`  
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- __Marinara__: `./marinara.md`  
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```

disjoint lines

# Resolve Conflicts

## What a “Conflict” Means



# Resolve Conflicts

## What a “Conflict” Means

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no conflicts  
(*happy zone*)  
😊

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no conflicts  
(*happy zone*)  
:-)

# Resolve Conflicts

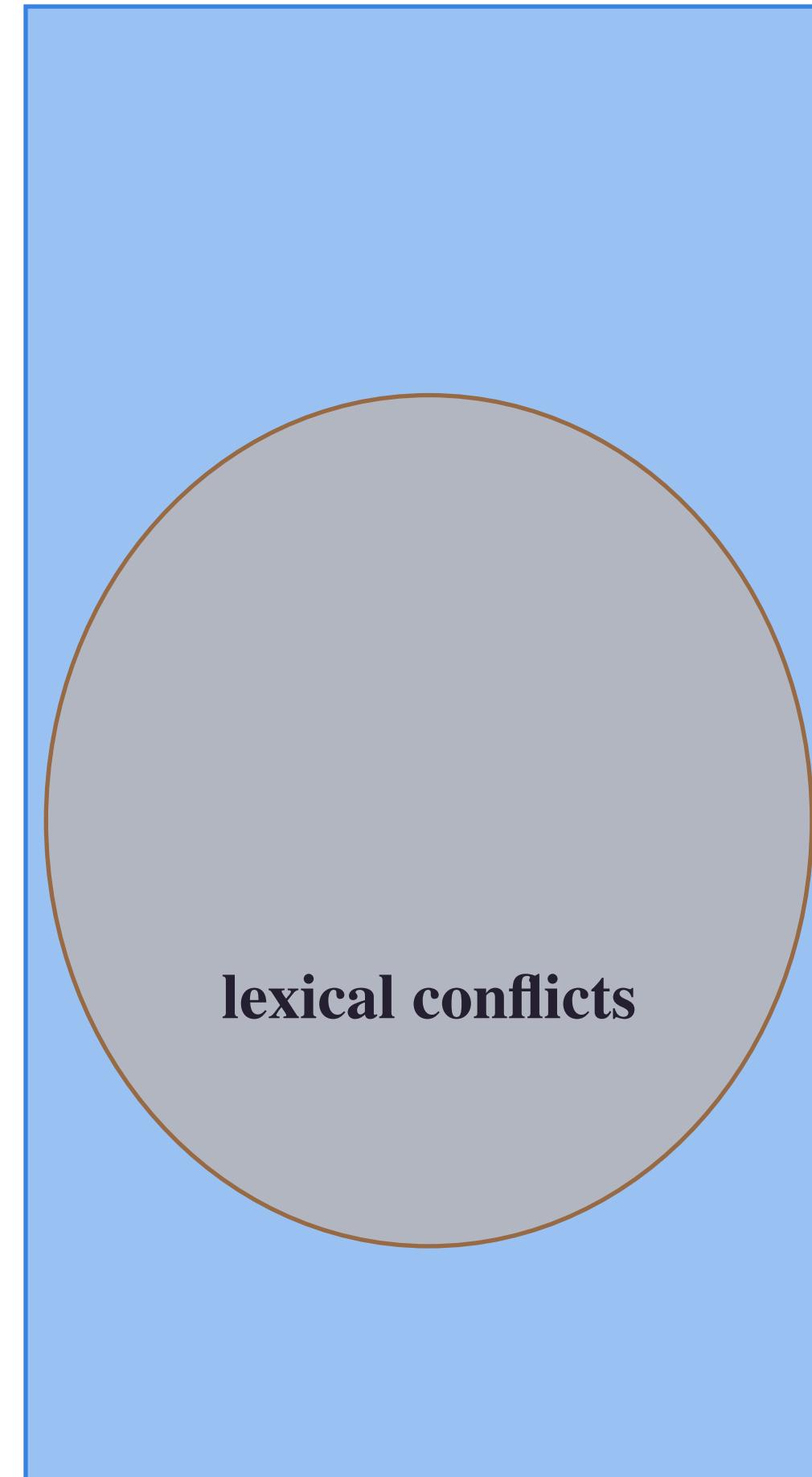
What a “Conflict” Means

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

What a “Conflict” Means

suprise.md <MY\_VERSION>

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__Base:__ sour cream
```

```
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```

- Garlic
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suprise.md <THEIR\_VERSION>

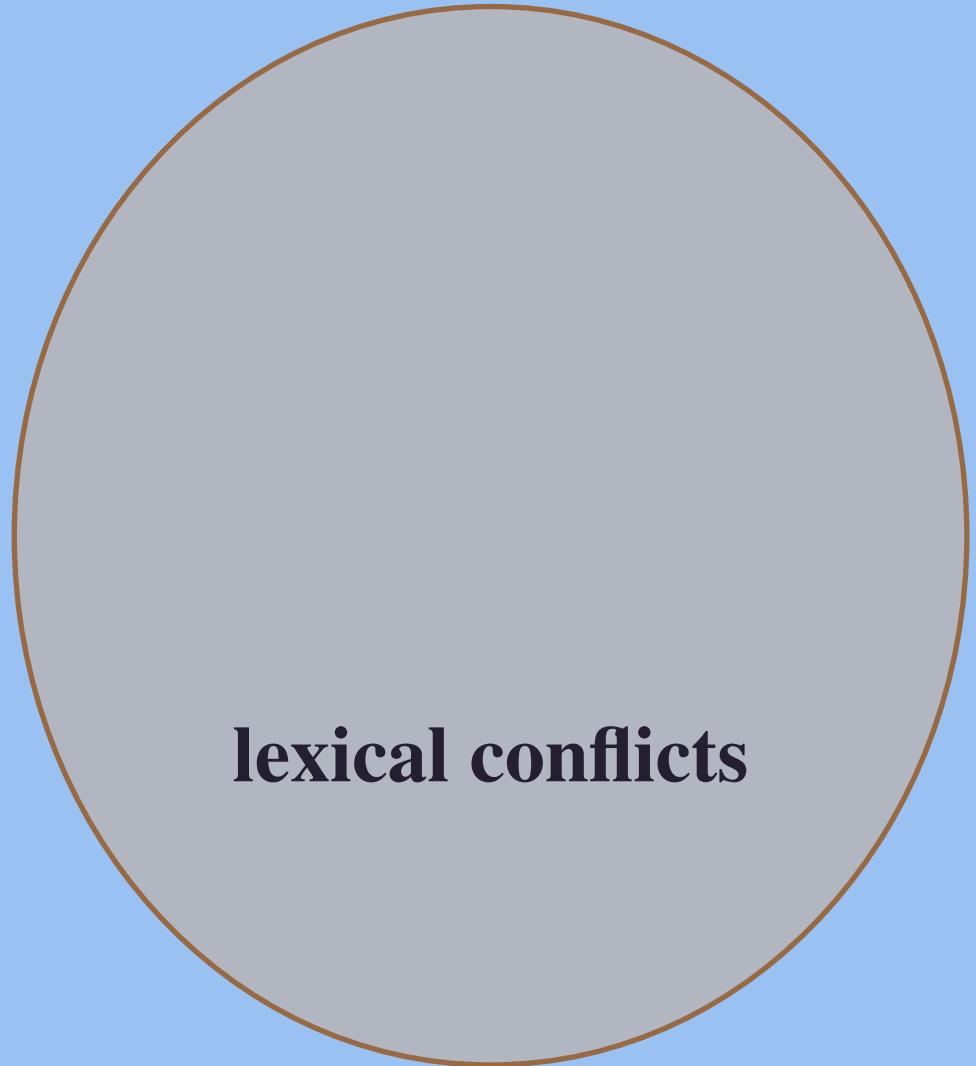
```
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__Base:__ sour cream
```

```
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- Garlic
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lexical conflicts

# Resolve Conflicts

What a “Conflict” Means

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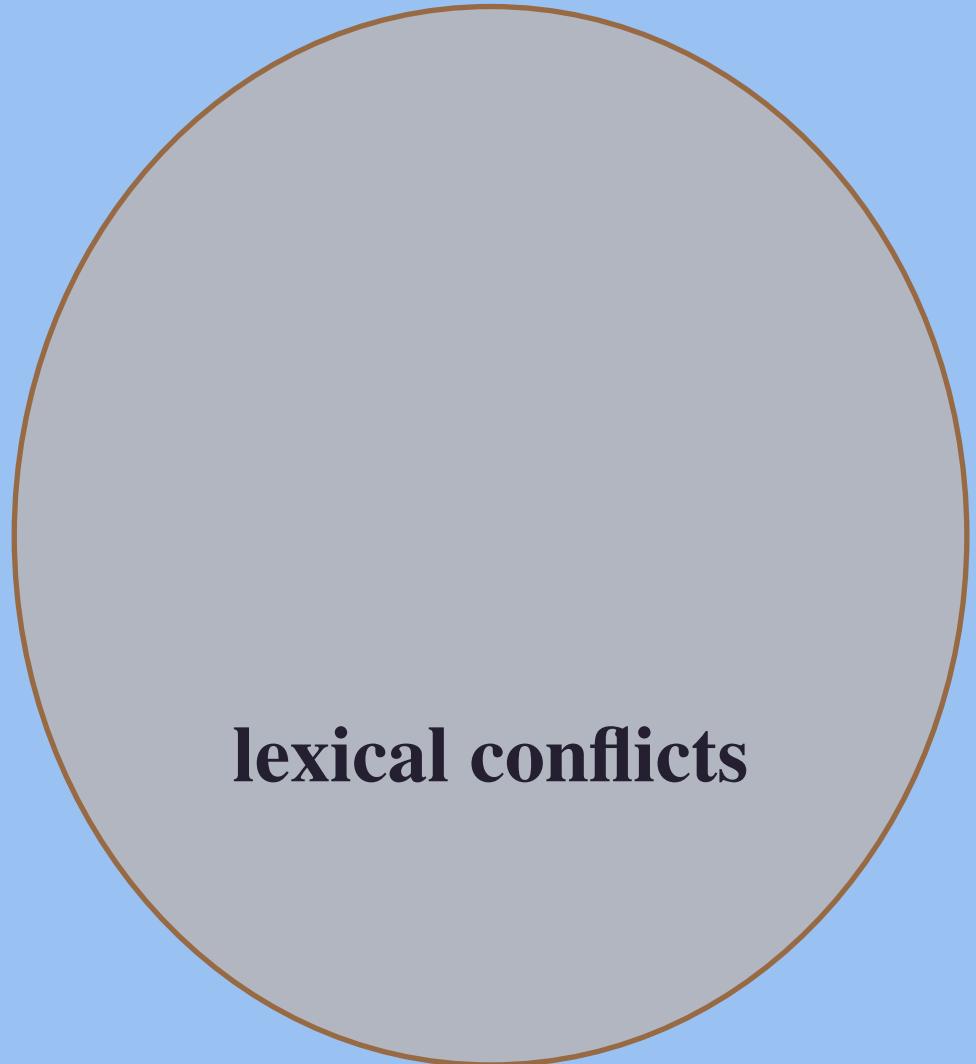
__Base:__ sour cream
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- Garlic
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**lexical conflicts**

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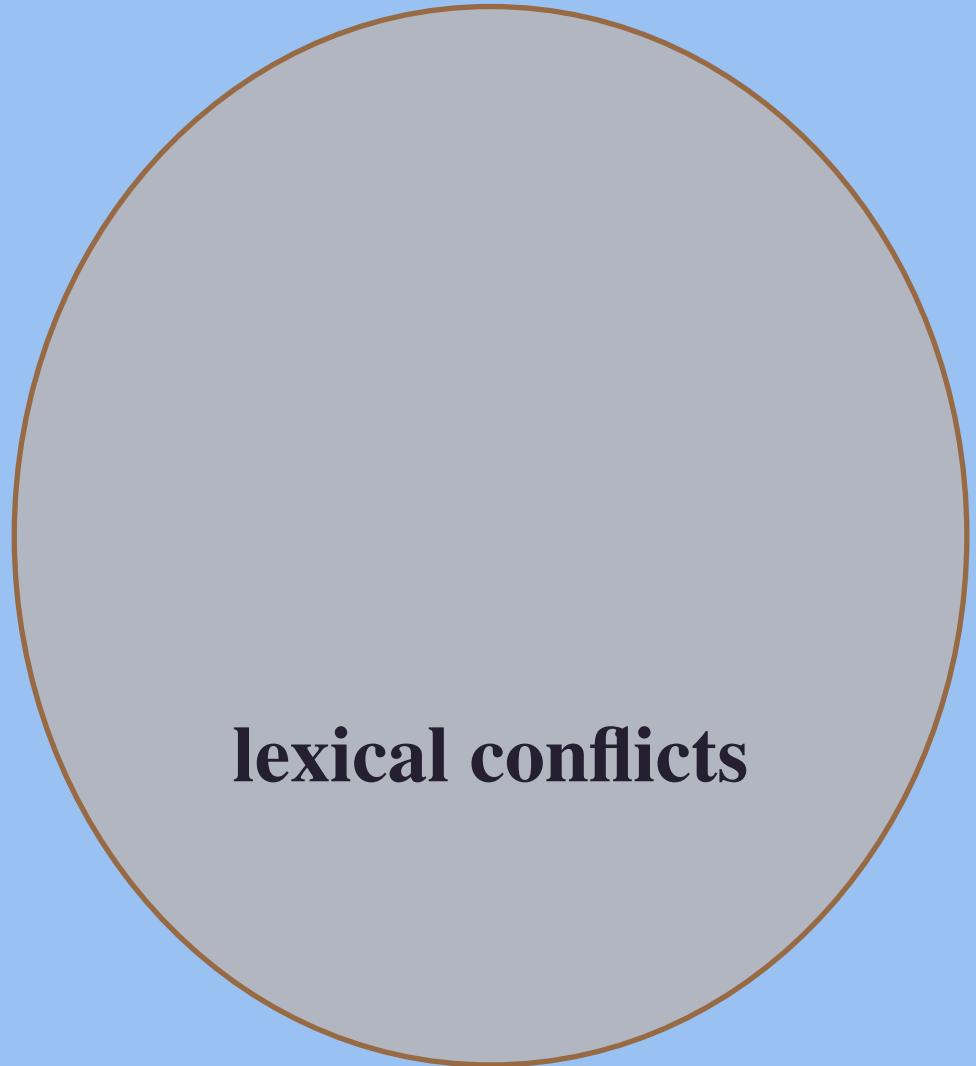
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**lexical conflicts**

# Resolve Conflicts

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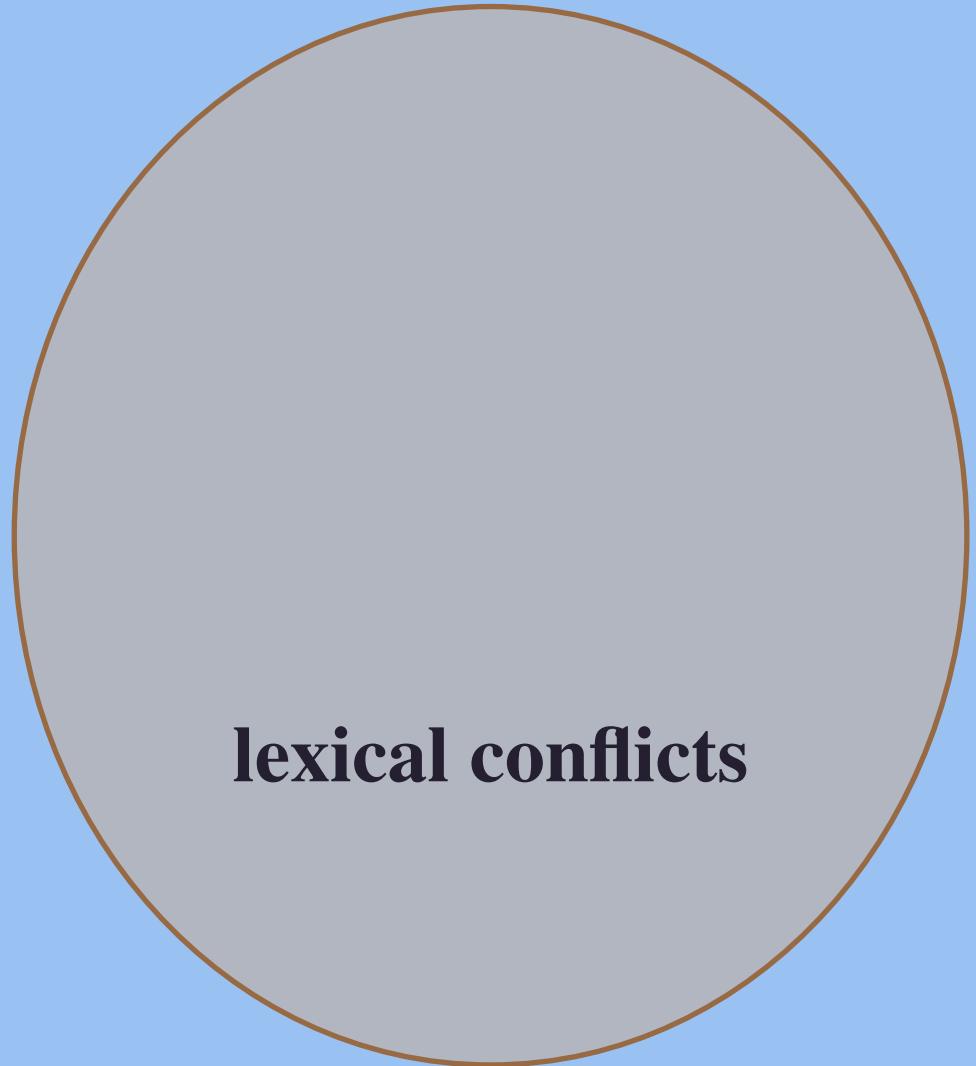
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**lexical conflicts**

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! same lines !

**lexical conflicts**

# Resolve Conflicts

## What a “Conflict” Means

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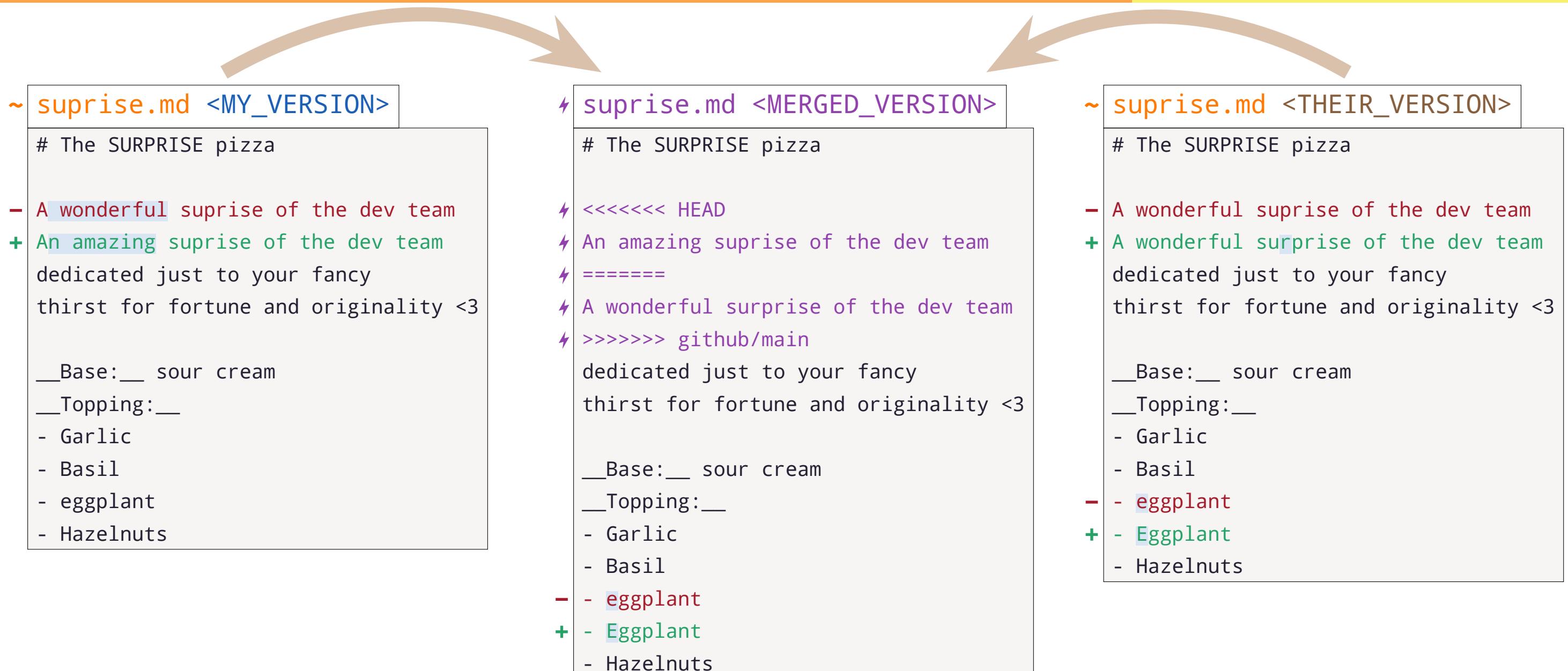
__Base:__ sour cream
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```



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

# Resolve Conflicts

## What a “Conflict” Means



# Resolve Conflicts

## What a “Conflict” Means

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⚡ suprise.md <MERGED\_VERSION>

```
# The SURPRISE pizza

⚡ <<<<< HEAD
⚡ An amazing suprise of the dev team
⚡ ======
⚡ A wonderful surprise of the dev team
⚡ >>>>> github/main
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Human, you are in charge now.

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Think, think, think.

Human, you are in charge now.

# Resolve Conflicts

## What a “Conflict” Means

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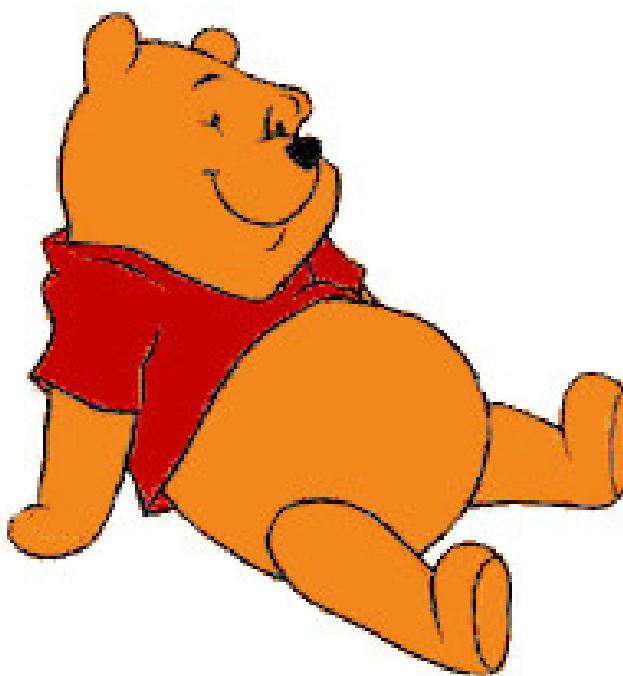
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# Resolve Conflicts

## What a “Conflict” Means

suprise.md <MY\_VERSION>

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suprise.md <THEIR\_VERSION>

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What a “Conflict” Means

suprise.md <MY\_VERSION>

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```
__Base:__ sour cream
```

```
__Topping:__
```

- Garlic
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- Eggplant
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**semantic conflicts**

suprise.md <THEIR\_VERSION>

```
# The SURPRISE pizza
```

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thirst for fortune and originality <3

```
__Base:__ sour cream
```

```
__Topping:__
```

- Garlic
- Basil
- Eggplant
- Hazelnuts

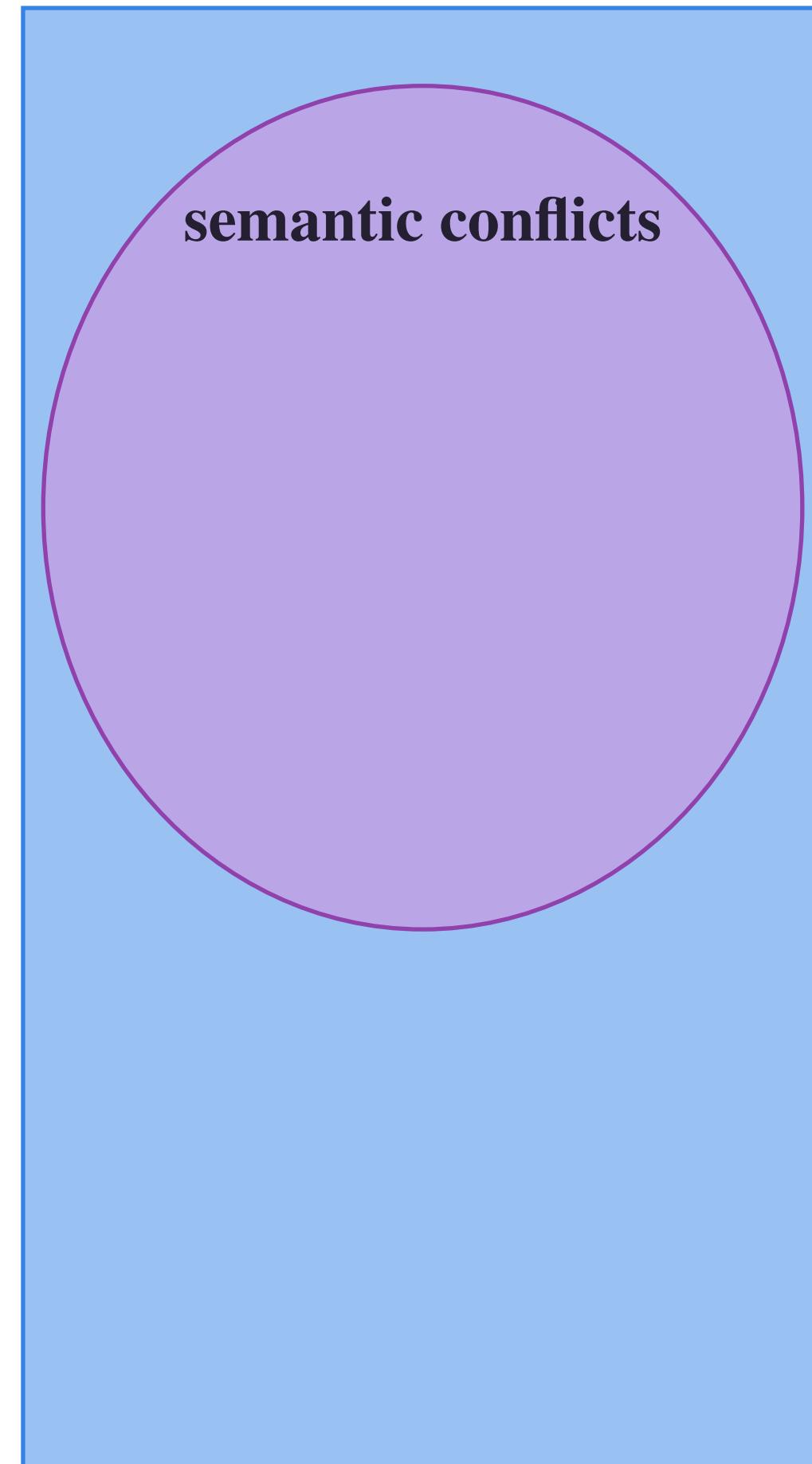
# Resolve Conflicts

## What a “Conflict” Means

```
~ surprise.md <MY_VERSION>
- # The SURPRISE pizza
+ # The SURPRISE vegetarian pizza

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

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



```
~ surprise.md <THEIR_VERSION>
# The SURPRISE pizza

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\_\_Base:\_\_ sour cream

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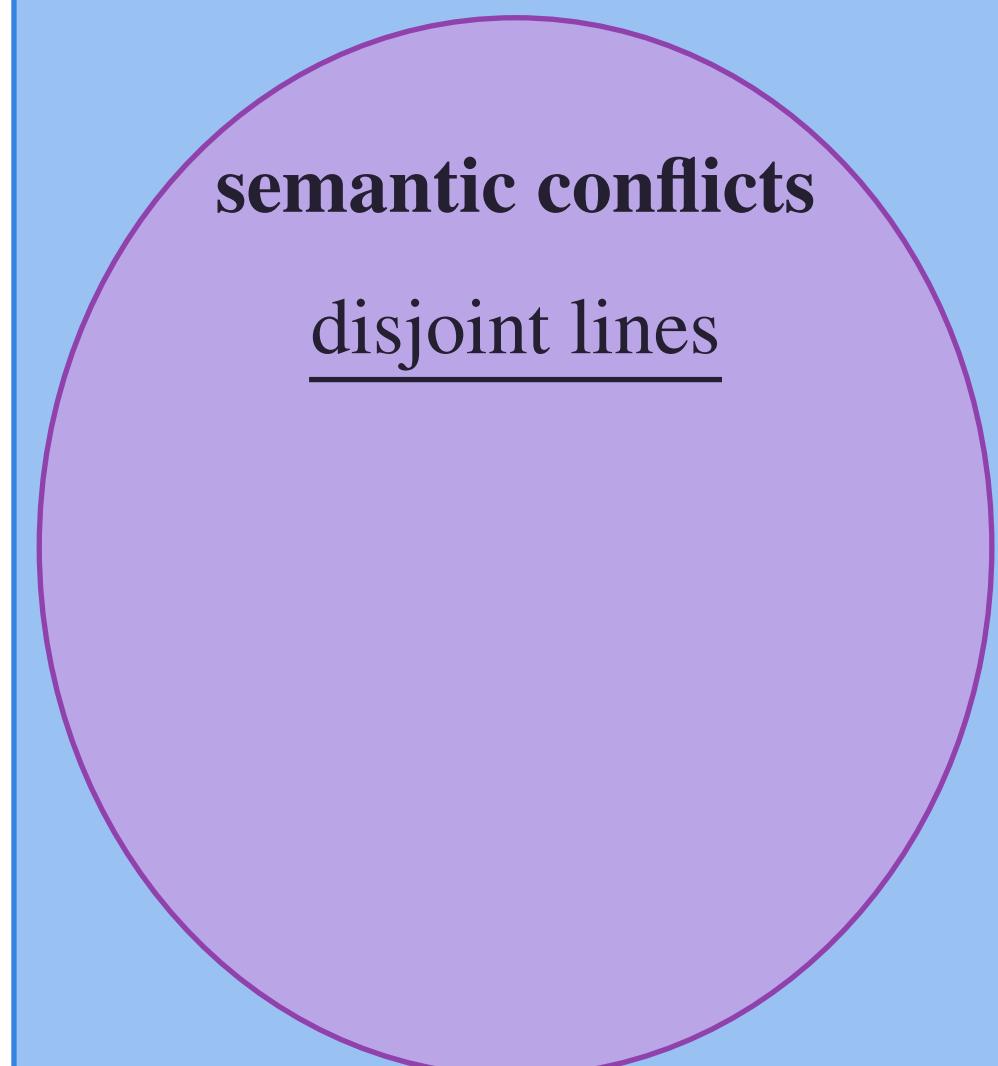
- Garlic

- Basil

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```
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```

- Hazelnuts



semantic conflicts  
disjoint lines

# Resolve Conflicts

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**semantic conflicts**

disjoint lines

**lexical conflicts**

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```

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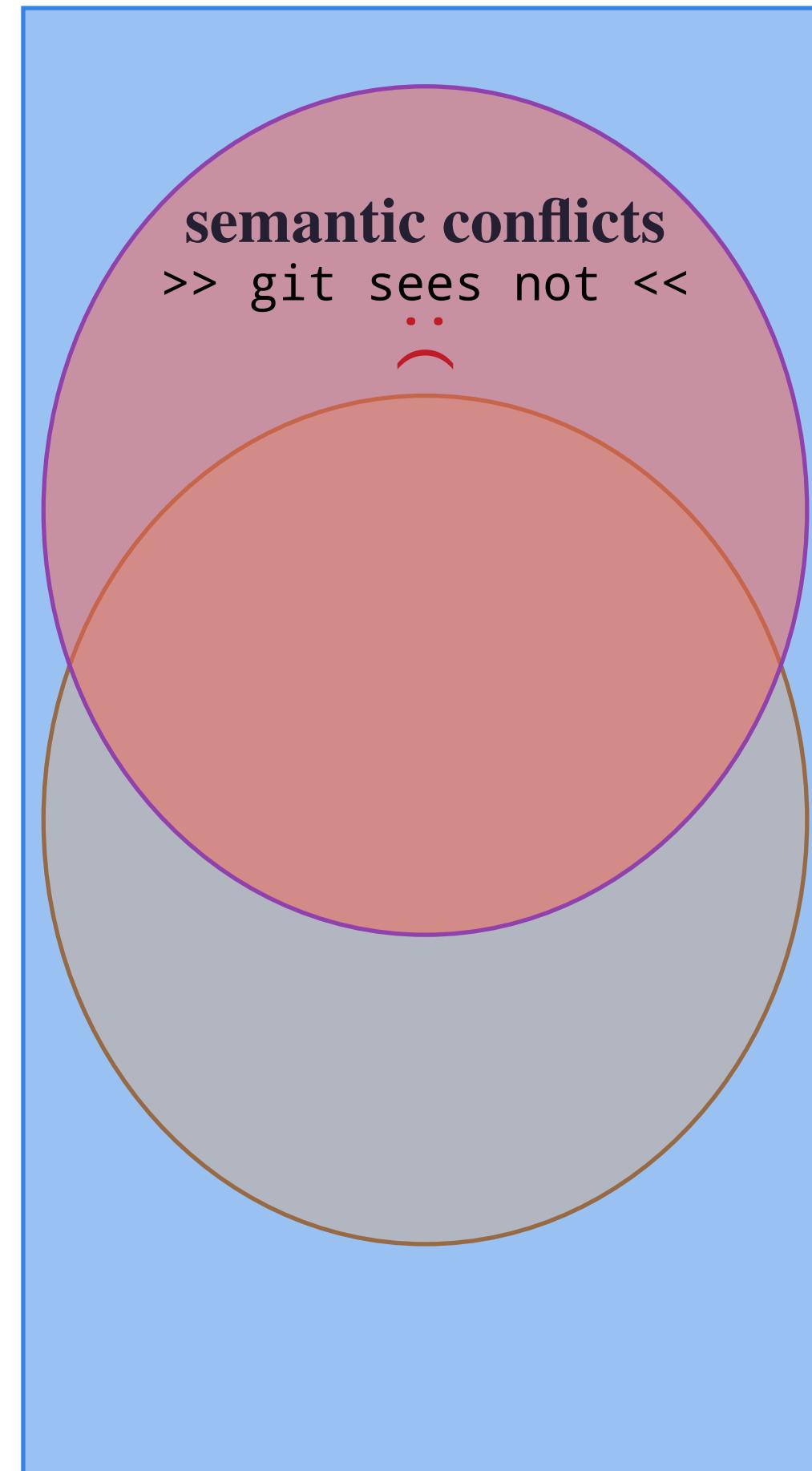
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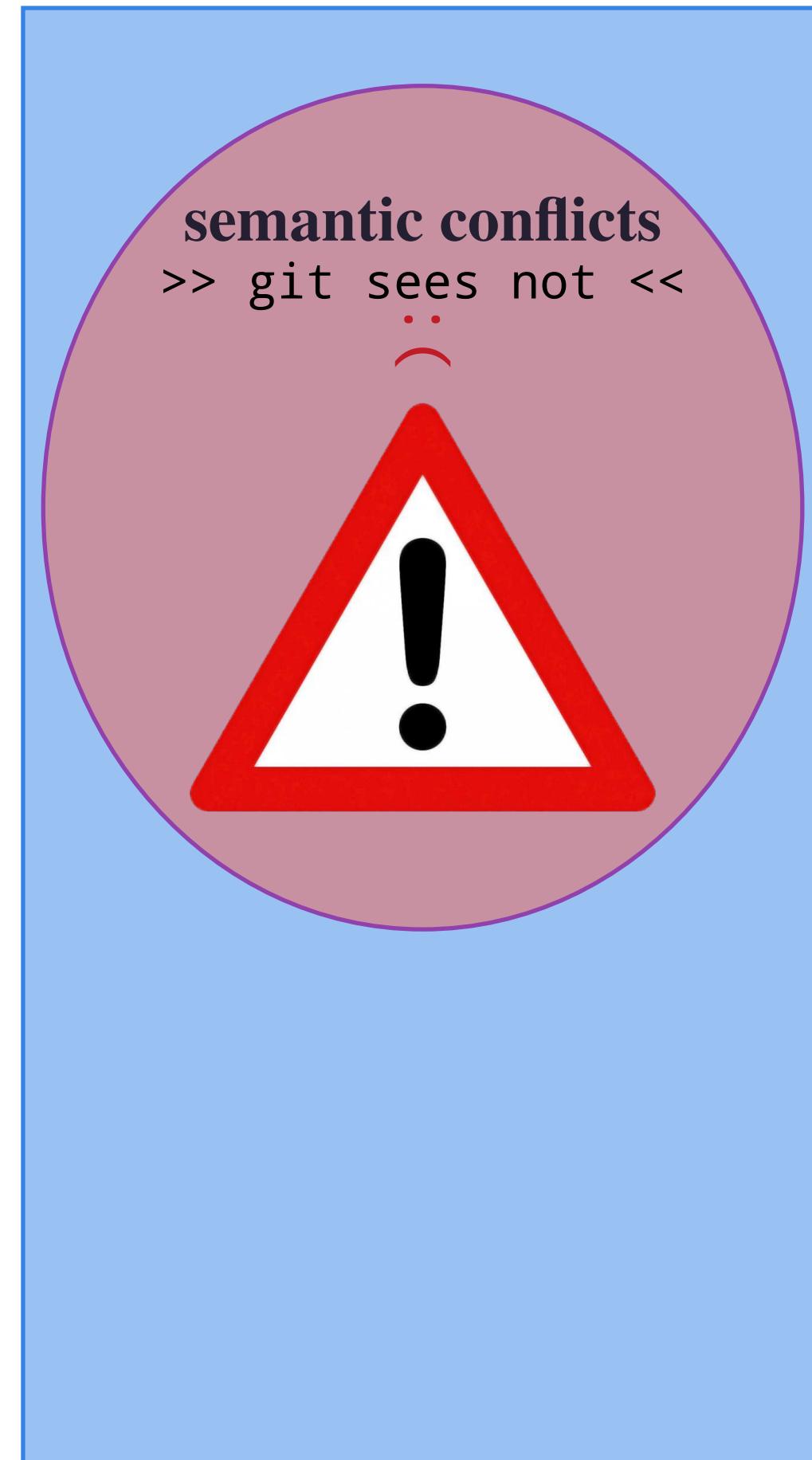
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surprise.md <MERGED\_VERSION>

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So keep this in mind:

# Resolve Conflicts

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no conflicts  
*(happy zone)*  
:-)

# Resolve Conflicts

What a “Conflict” Means

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# Resolve Conflicts

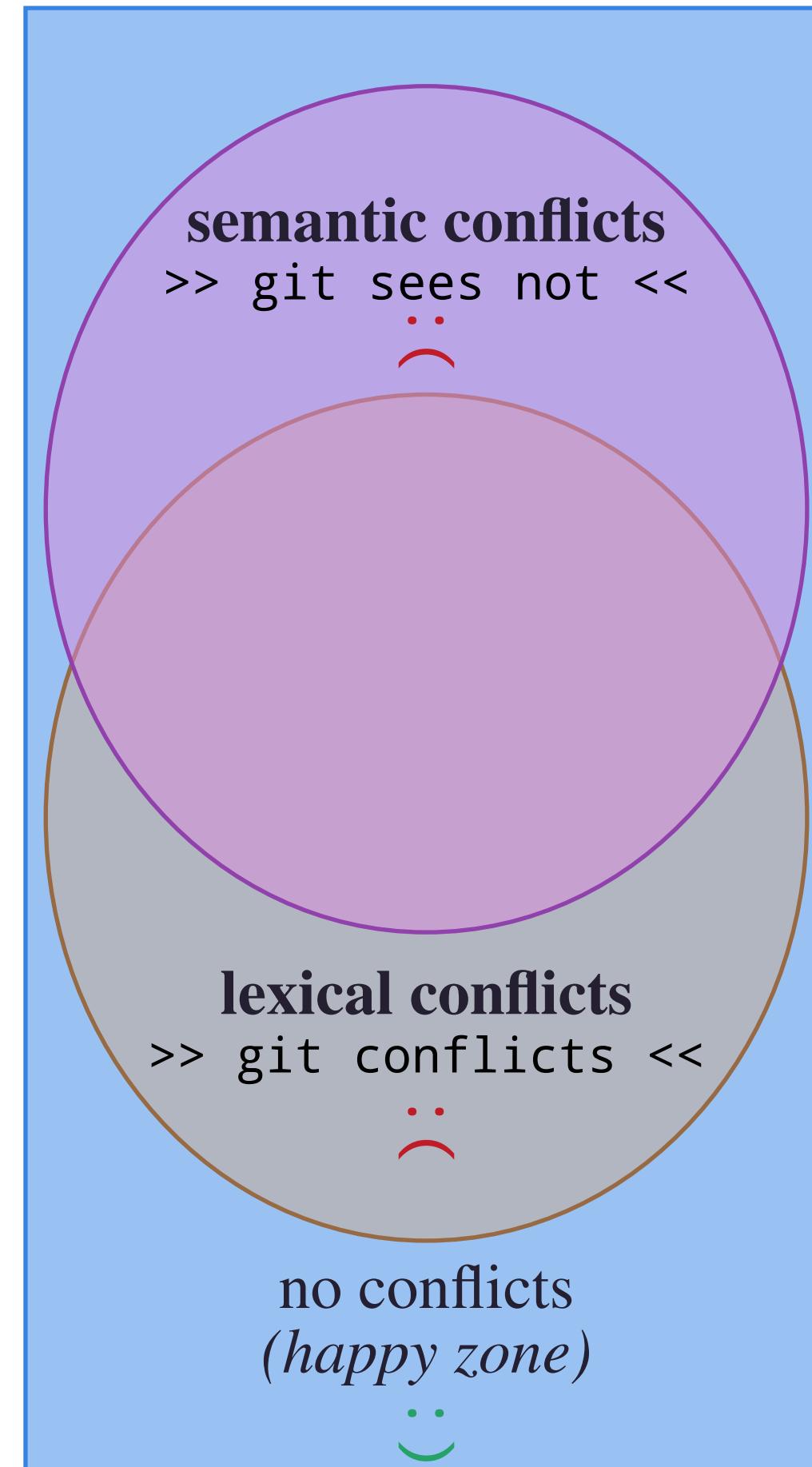
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surprise.md <MY\_VERSION>

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surprise.md <THEIR\_VERSION>

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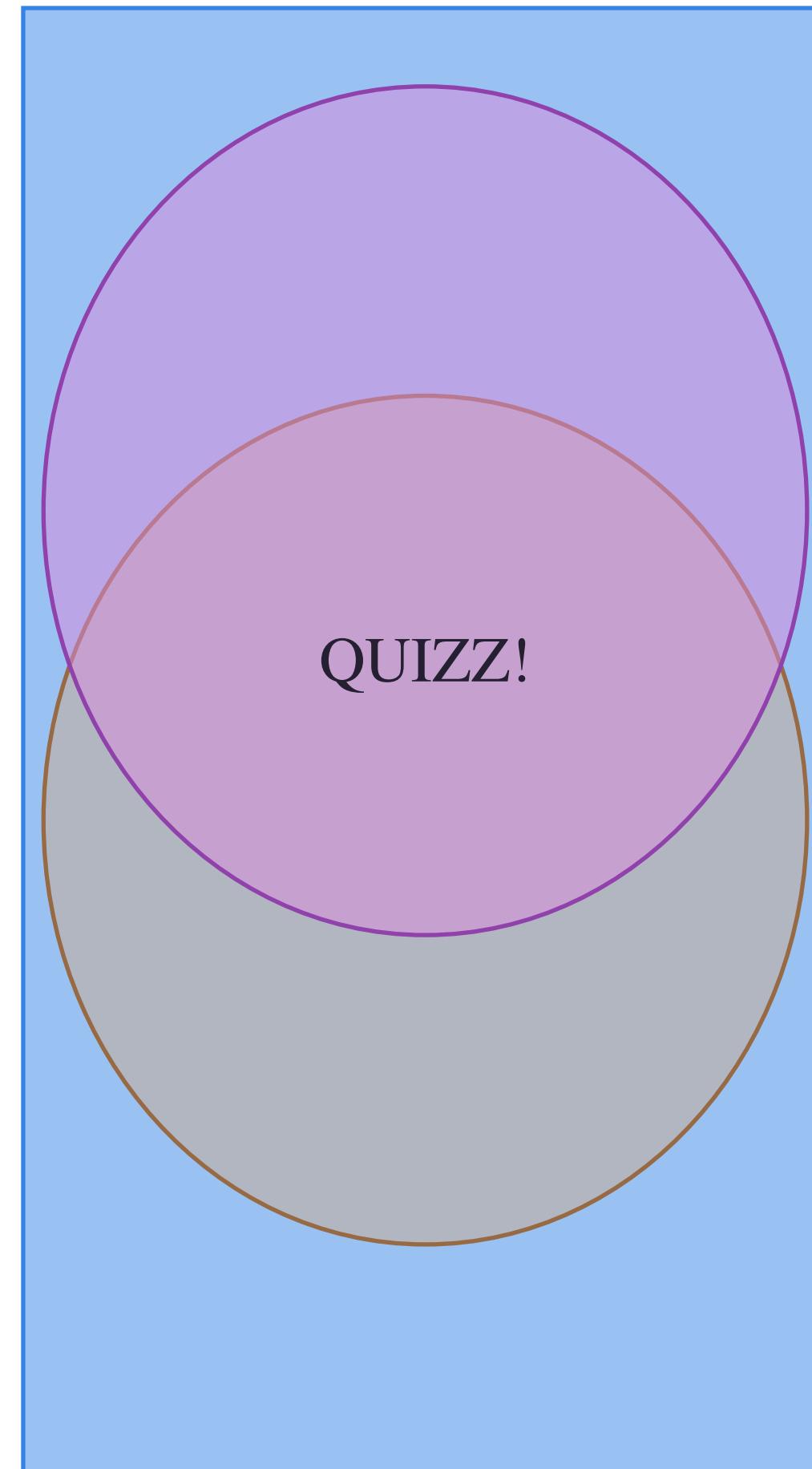
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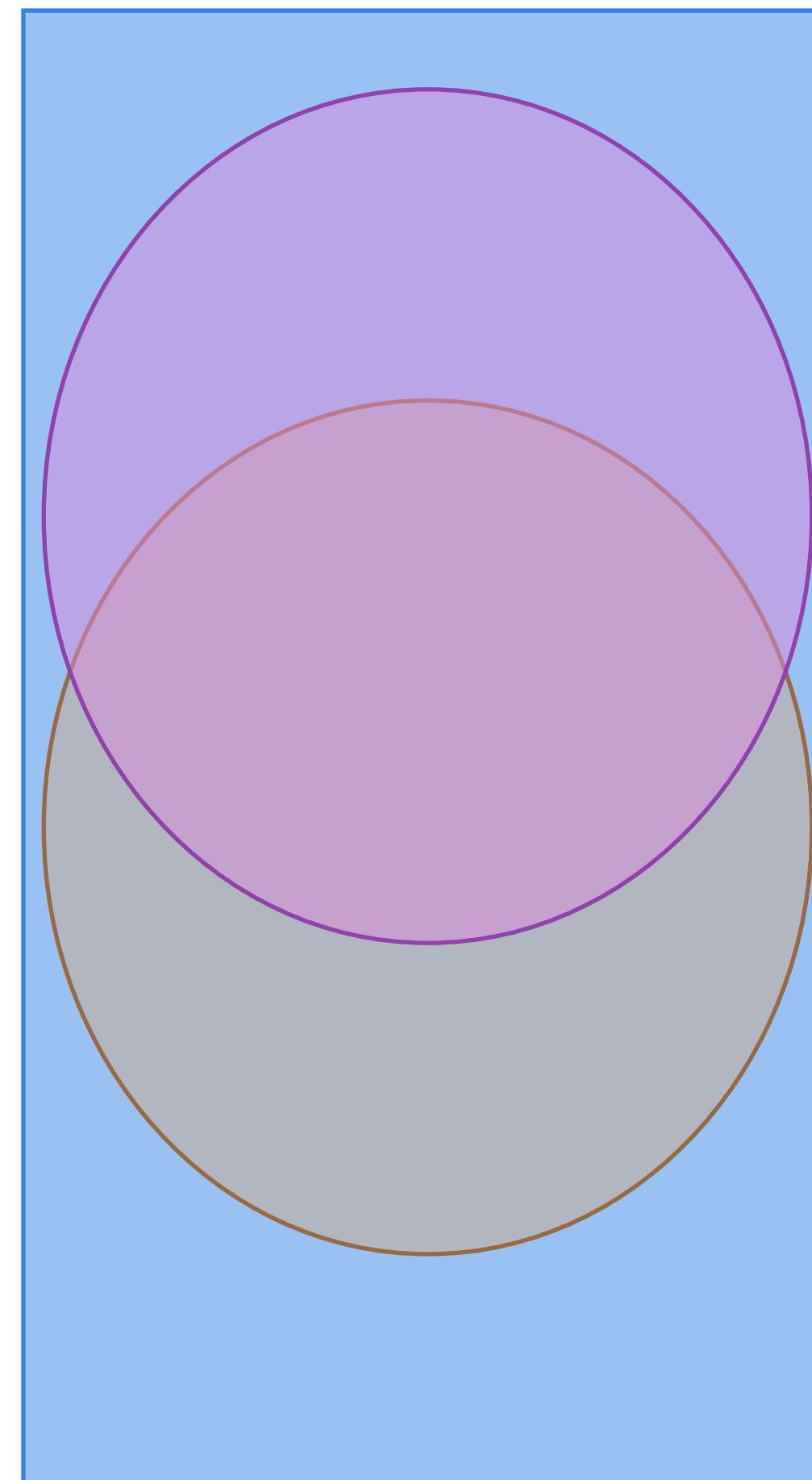
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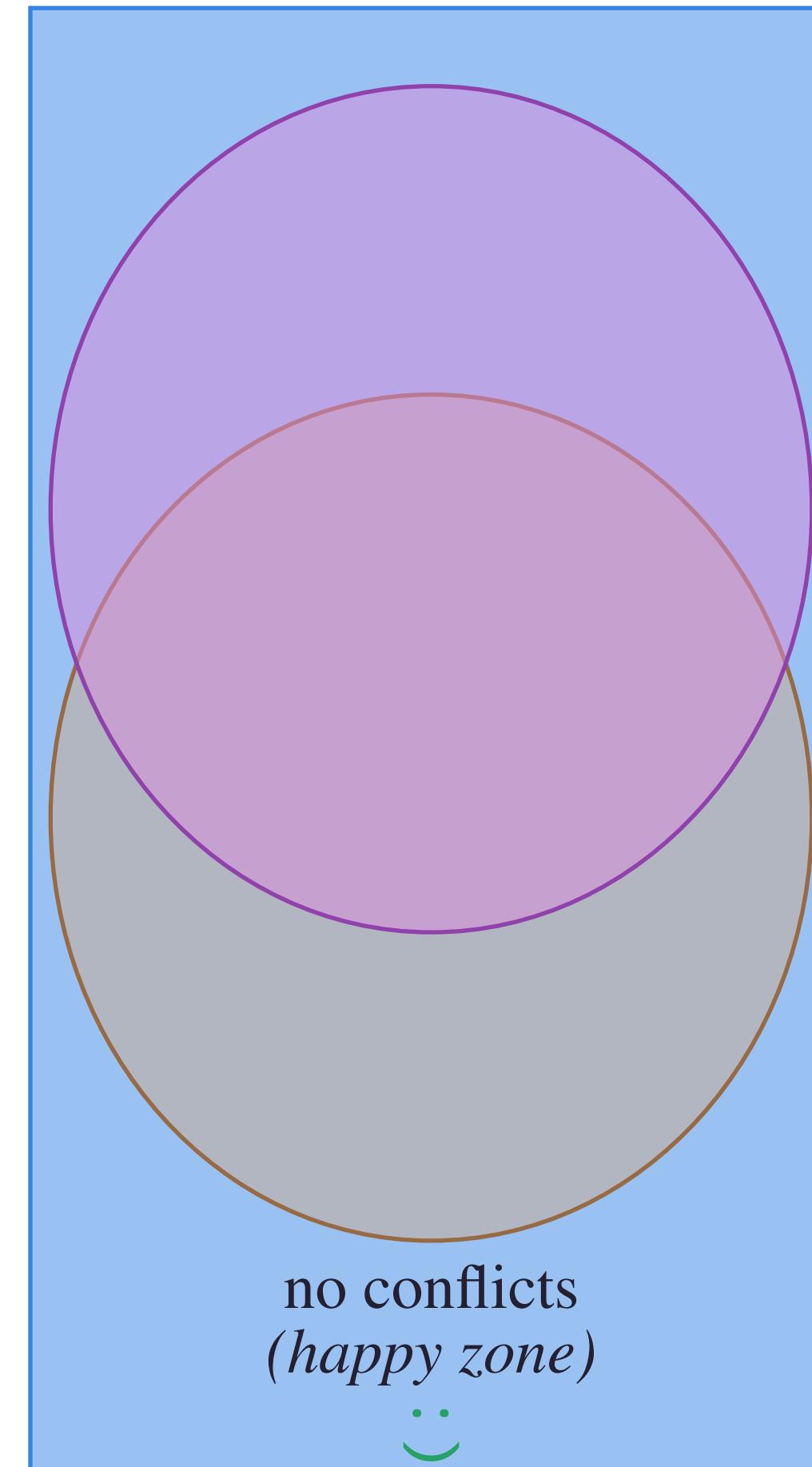
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no conflicts  
(*happy zone*)



# Resolve Conflicts

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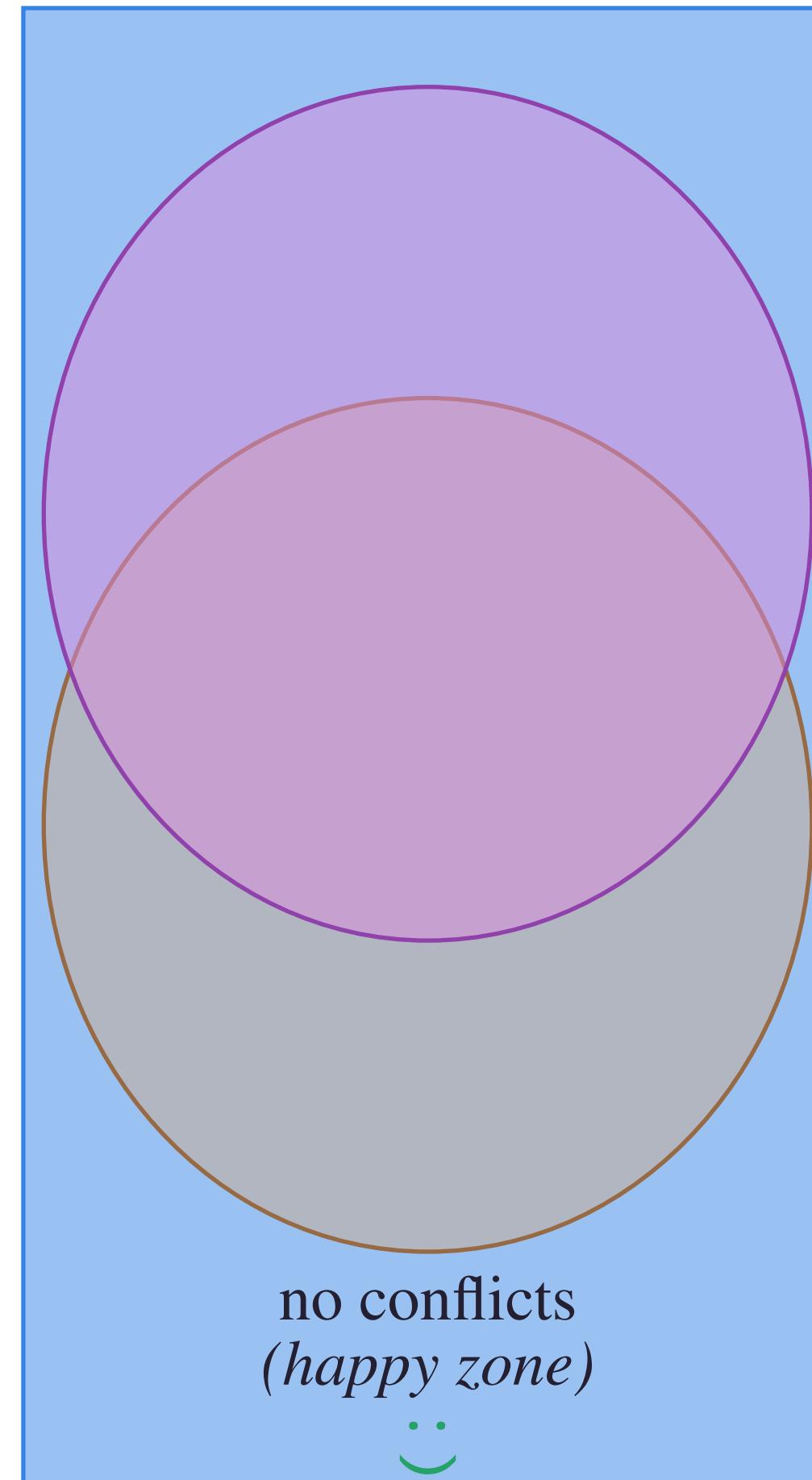
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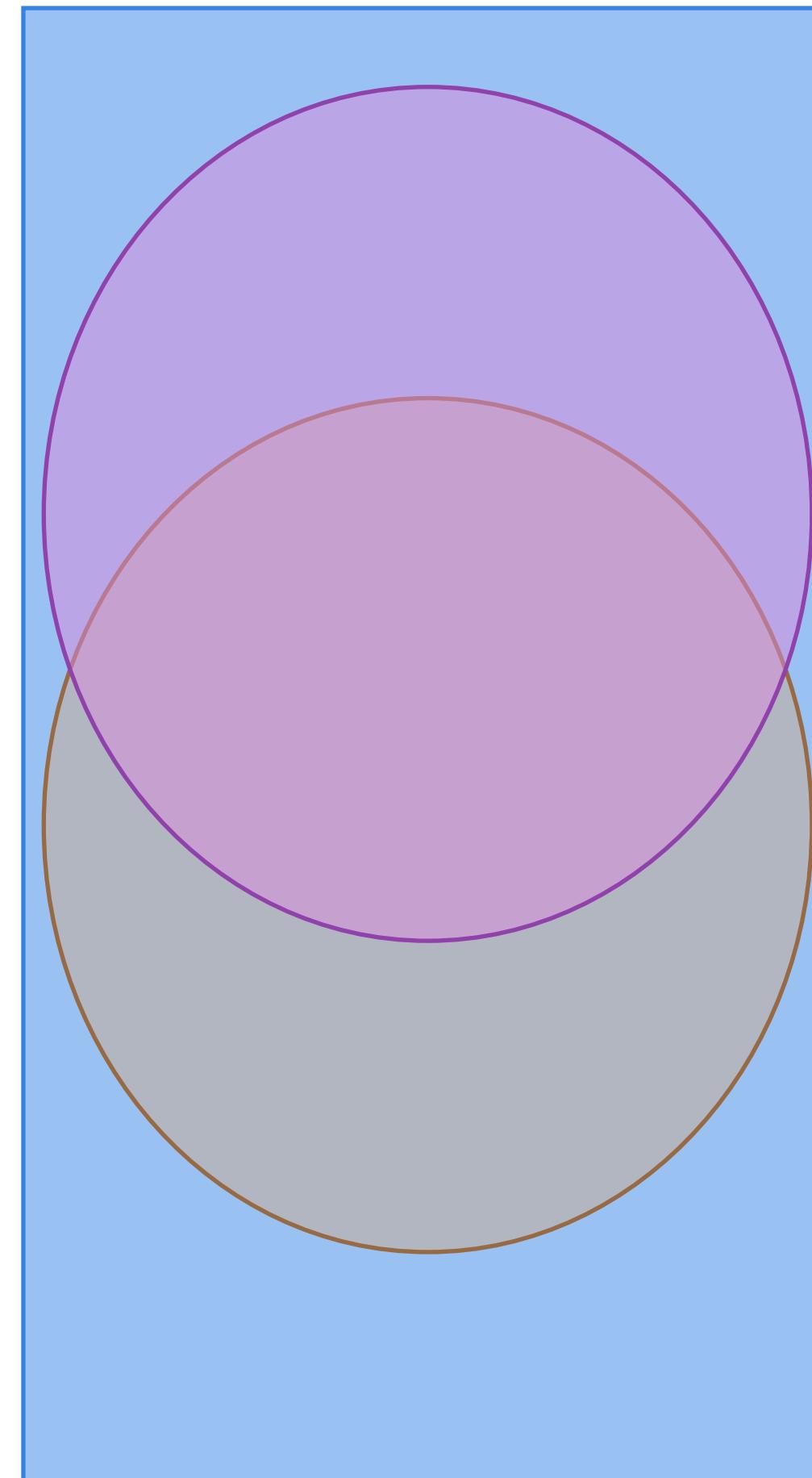
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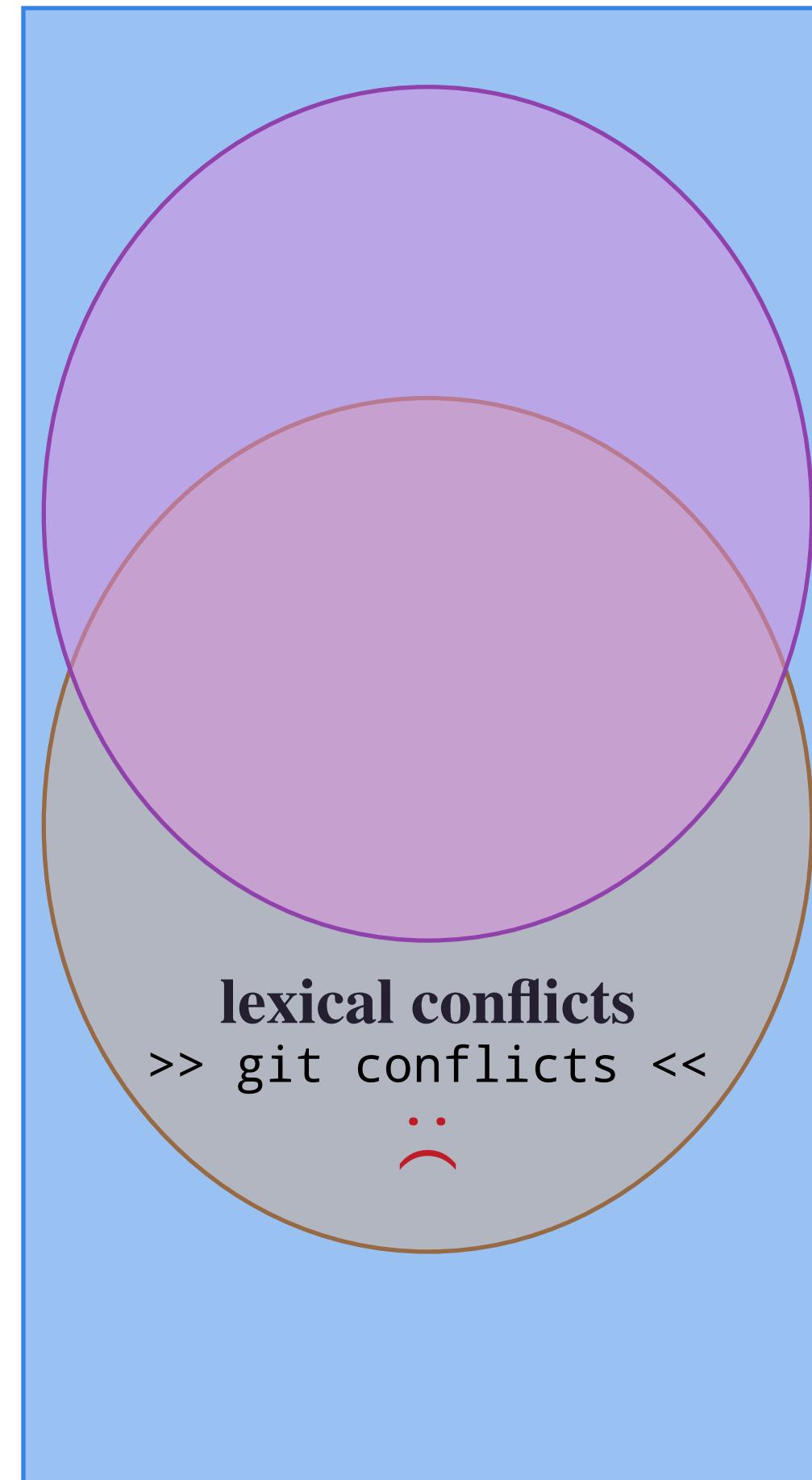
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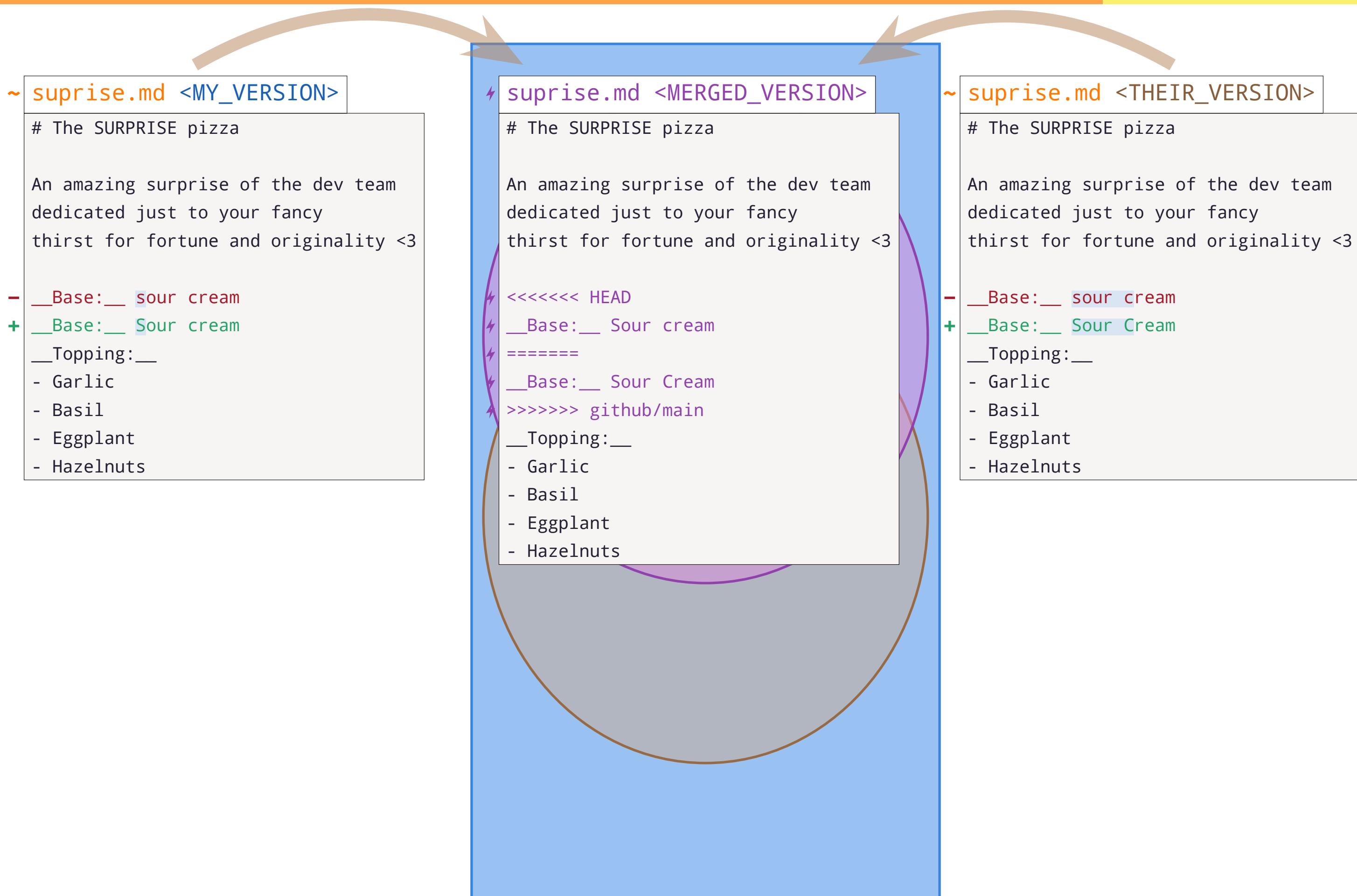
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## What a “Conflict” Means



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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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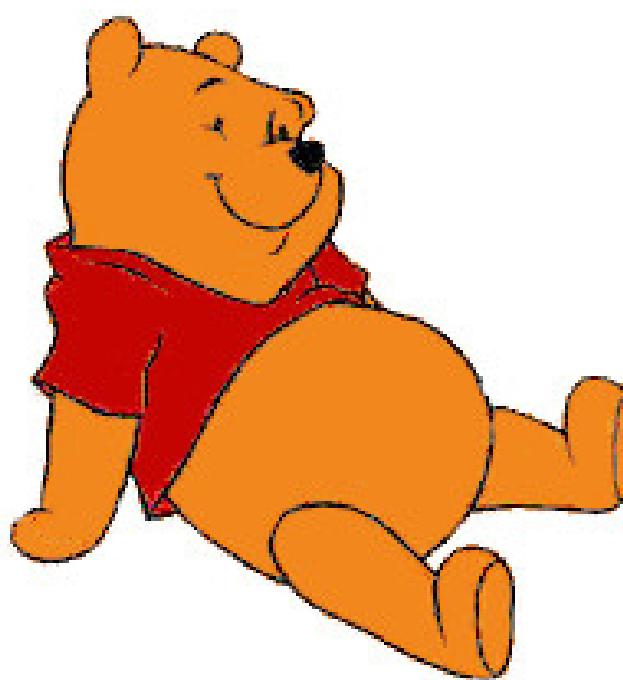
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suprise.md <THEIR\_VERSION>

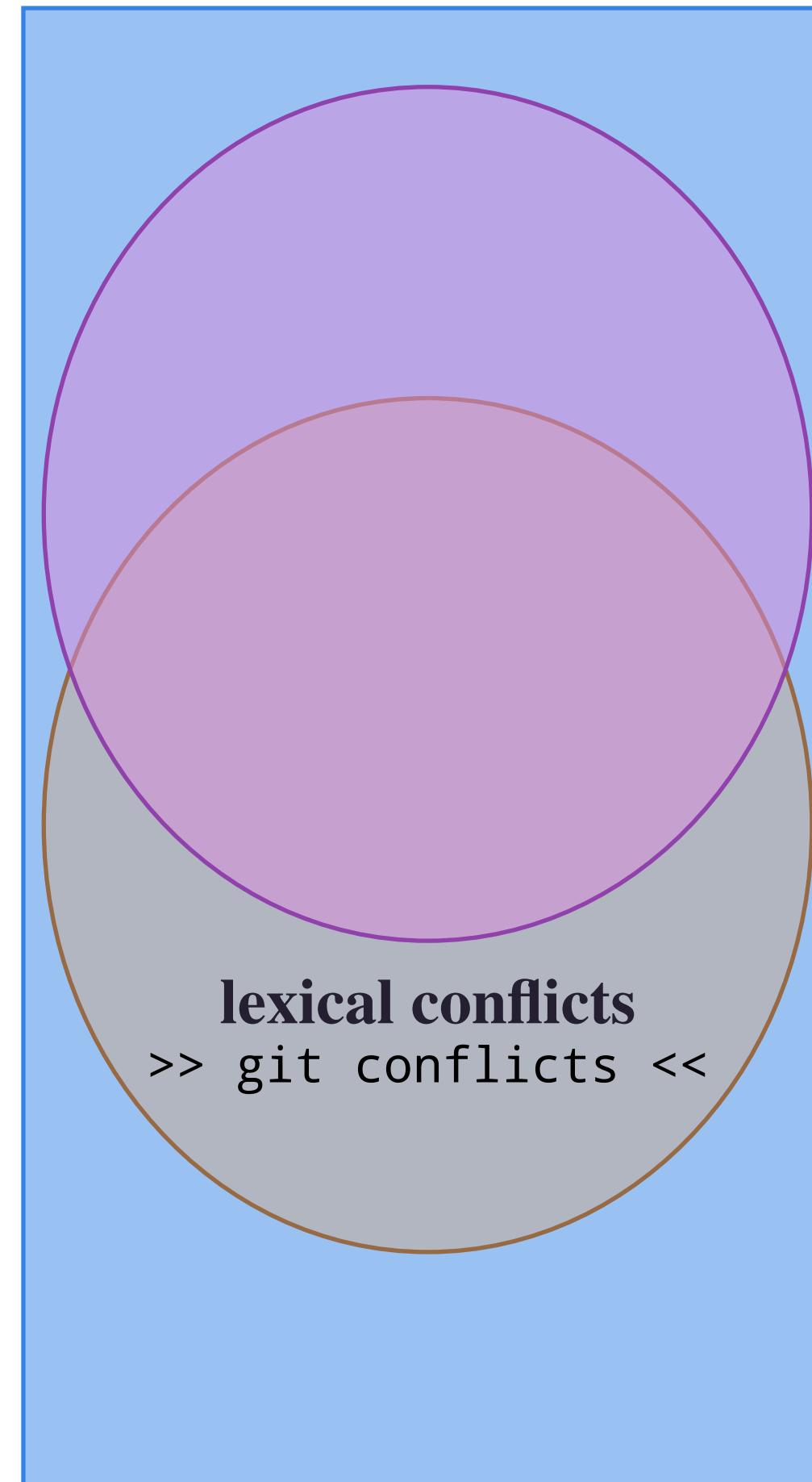
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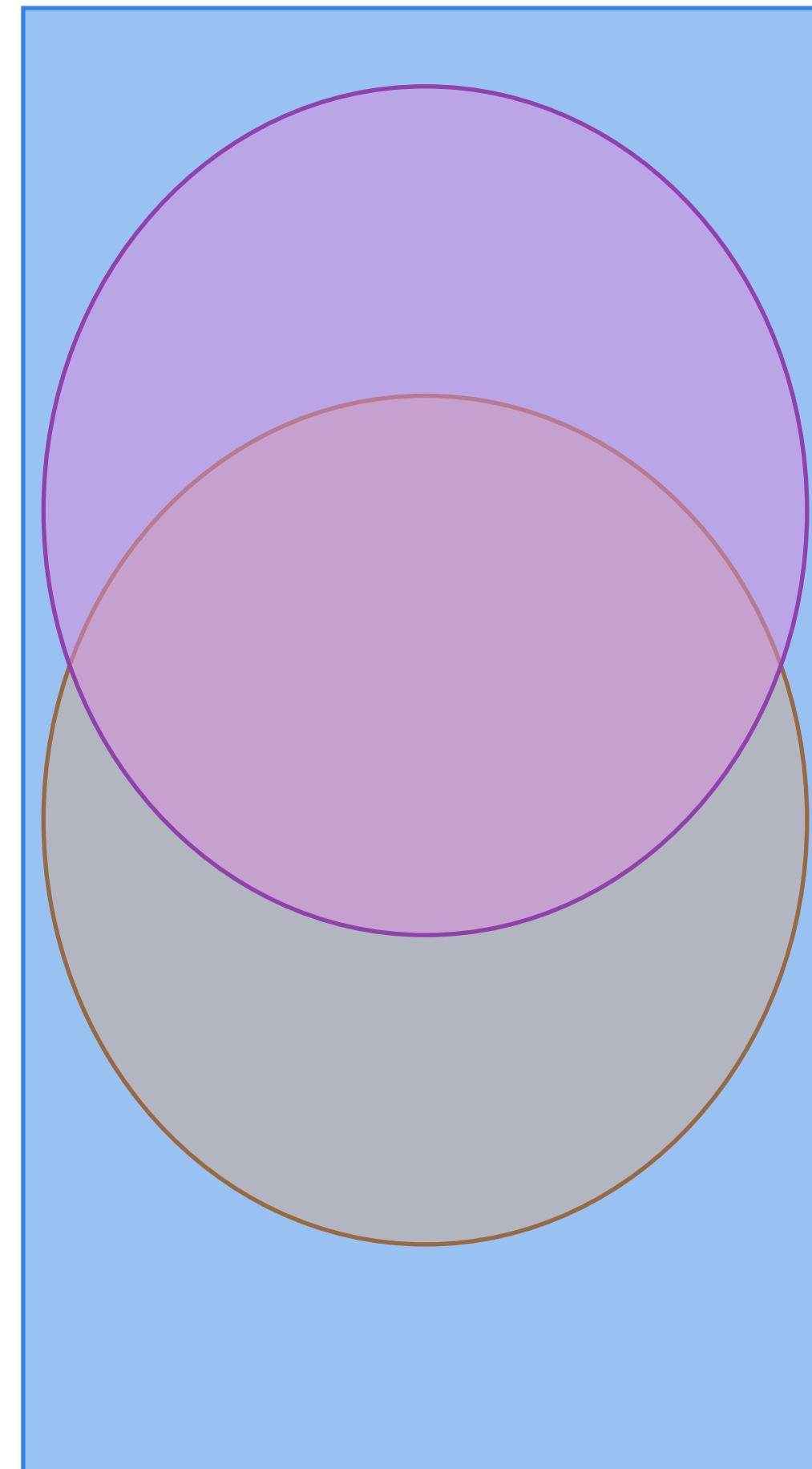
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~ suprise.md <THEIR\_VERSION>

```
# 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:__
- Garlic
- Basil
- Eggplant
- Hazelnuts
```



# Resolve Conflicts

## What a “Conflict” Means

suprise.md <MY\_VERSION>

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

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~ suprise.md <MERGED\_VERSION>

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suprise.md <MERGED\_VERSION>

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suprise.md <THEIR\_VERSION>

```
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- Eggplant
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```



# Resolve Conflicts

## What a “Conflict” Means

suprise.md <MY\_VERSION>

```
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An amazing surprise of the dev team,
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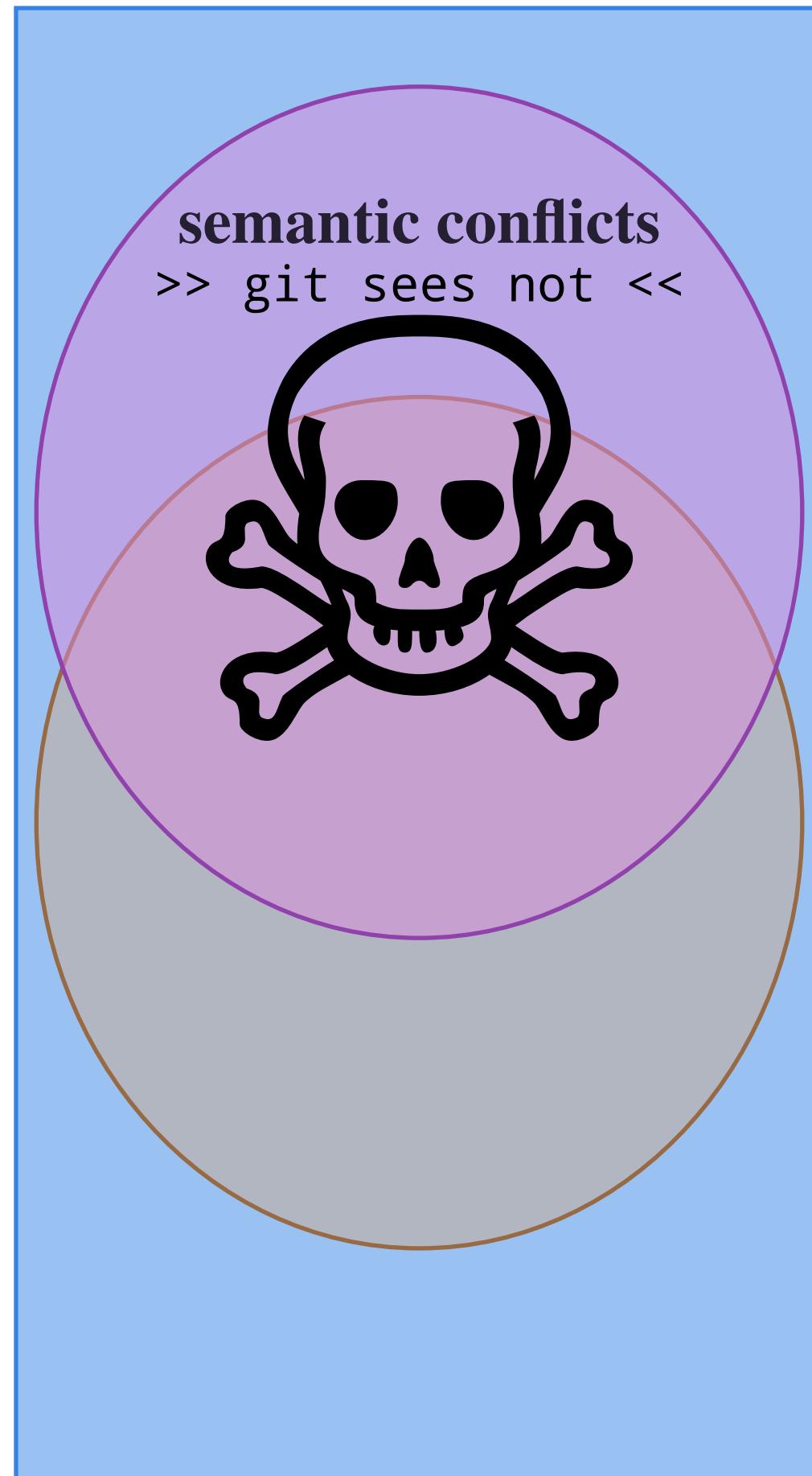
__Base:__ sour cream
__Topping:__
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- Basil
- Eggplant
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```

suprise.md <THEIR\_VERSION>

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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:\_\_

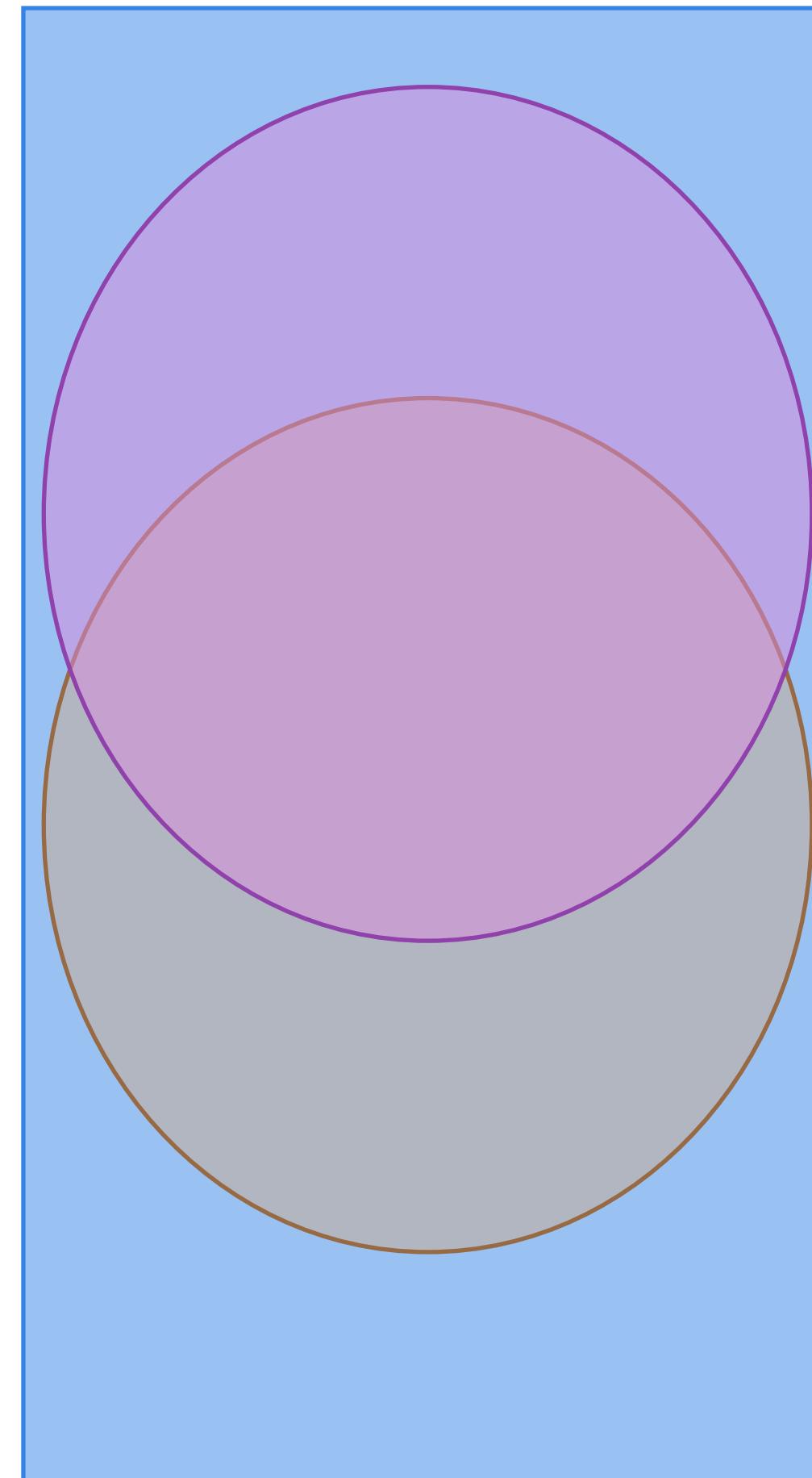
- Garlic

+ Garlic, pepper or anything spicy

- Basil

- Eggplant

- Hazelnuts



# Resolve Conflicts

## What a “Conflict” Means

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

```
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```

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```
__Base:__ sour cream
```

```
__Topping:__
```

- Garlic

+ Sweet garlic

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- Hazelnuts

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

```
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```

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```
__Base:__ sour cream
```

```
__Topping:__
```

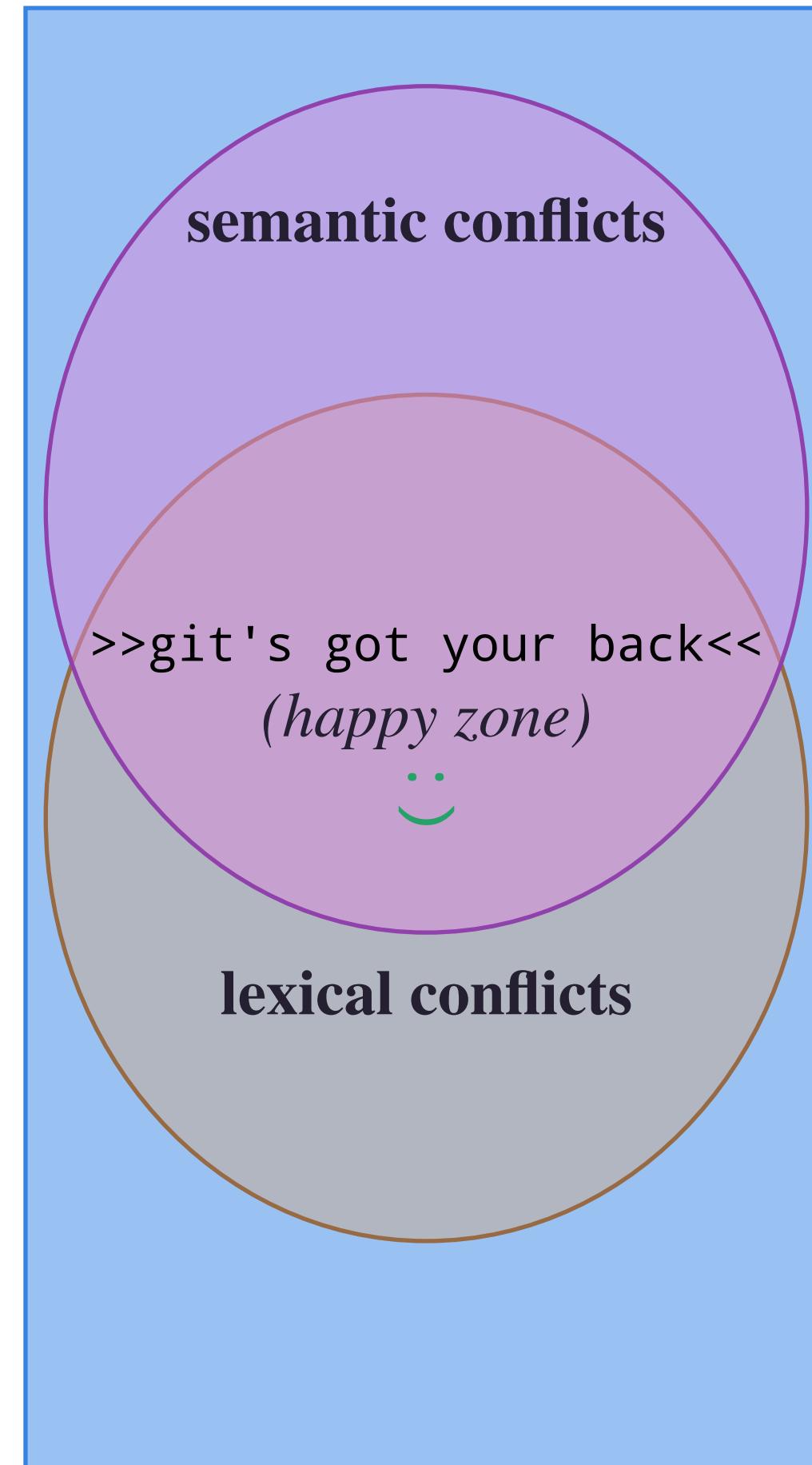
- Garlic

+ Garlic, pepper or anything spicy

- Basil

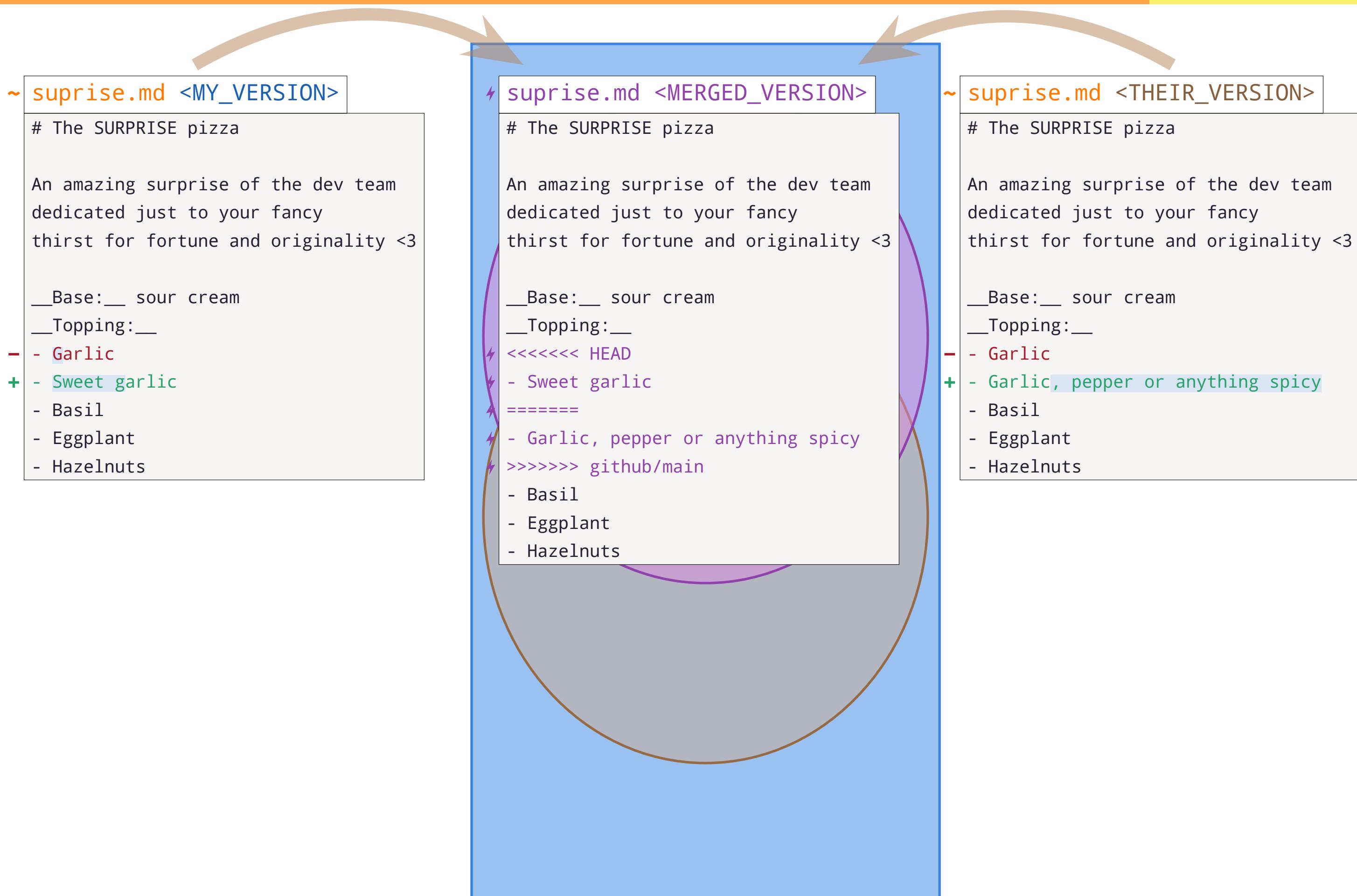
- Eggplant

- Hazelnuts



# Resolve Conflicts

## What a “Conflict” Means



# Resolve Conflicts

## What a “Conflict” Means

~ surprise.md <MY\_VERSION>

```
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```

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__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  
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```
__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  
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```
__Base:__ sour cream
```

```
__Topping:__
```

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# Resolve Conflicts

What a “Conflict” Means

~ suprise.md <MY\_VERSION>

# The SURPRISE pizza

An amazing surprise of the dev team  
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\_\_Base:\_\_ sour cream

\_\_Topping:\_\_



- Garlic

+ Sweet garlic

- Basil

- Eggplant

- Hazelnuts

~ suprise.md <MERGED\_VERSION>

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An amazing surprise of the dev team  
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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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\_\_Base:\_\_ sour cream

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Think, think, think.

# Resolve Conflicts

## What a “Conflict” Means

~ surprise.md <MY\_VERSION>

```
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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  
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```
_Base:_ sour cream
```

```
_Topping:_
```

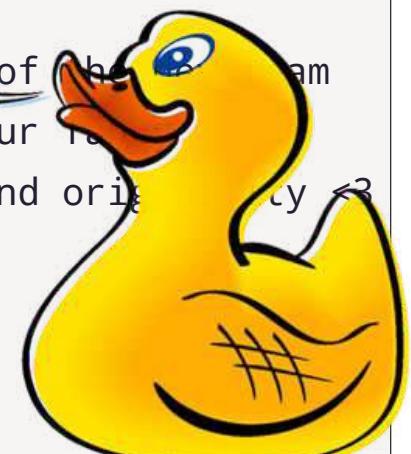
- Garlic

+ Garlic, pepper or anything spicy

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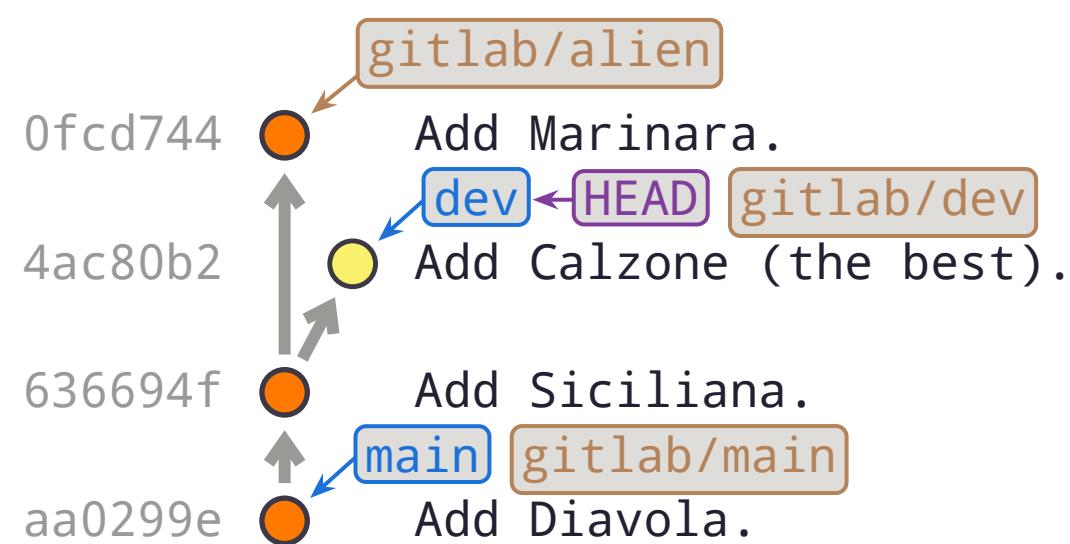


# Integrate Diverging Works

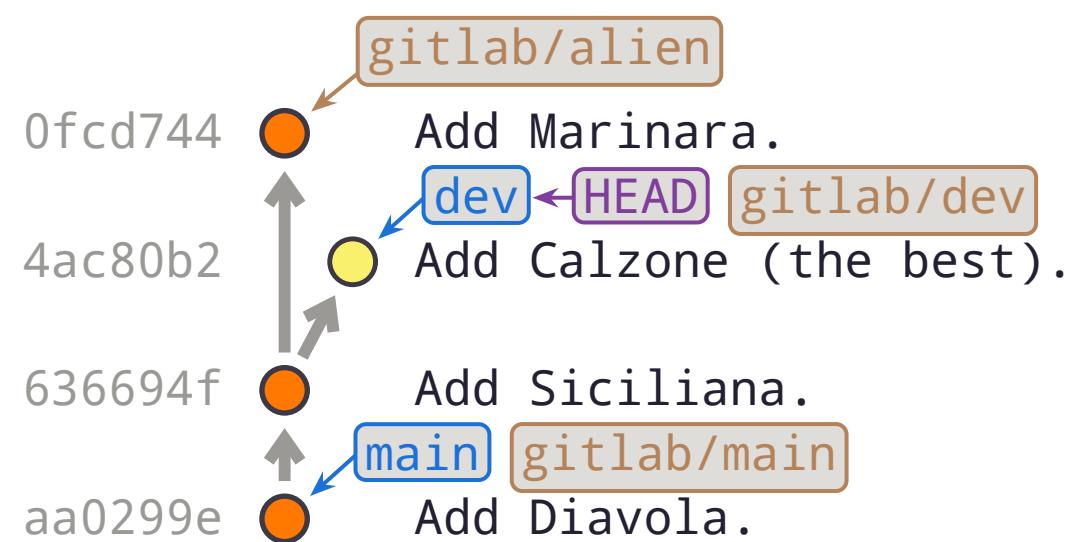
---

# Merge and Rebase

## Two Git Philosophies



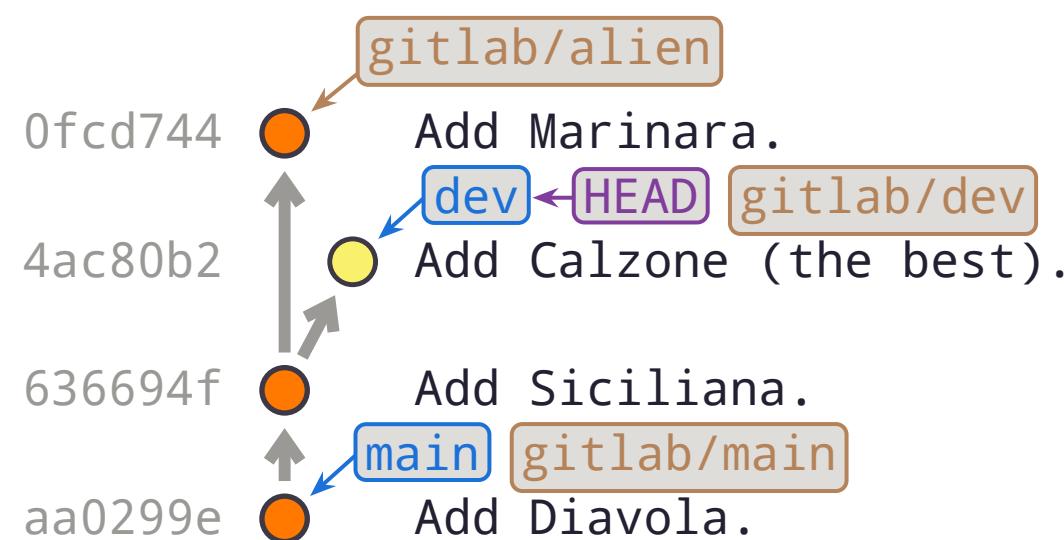
### Merge strategy



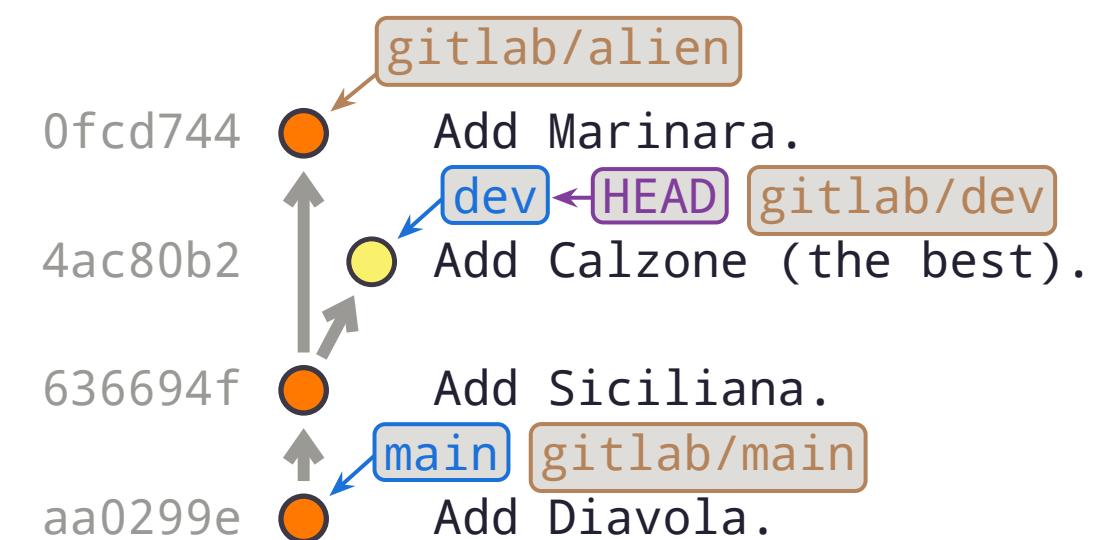
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



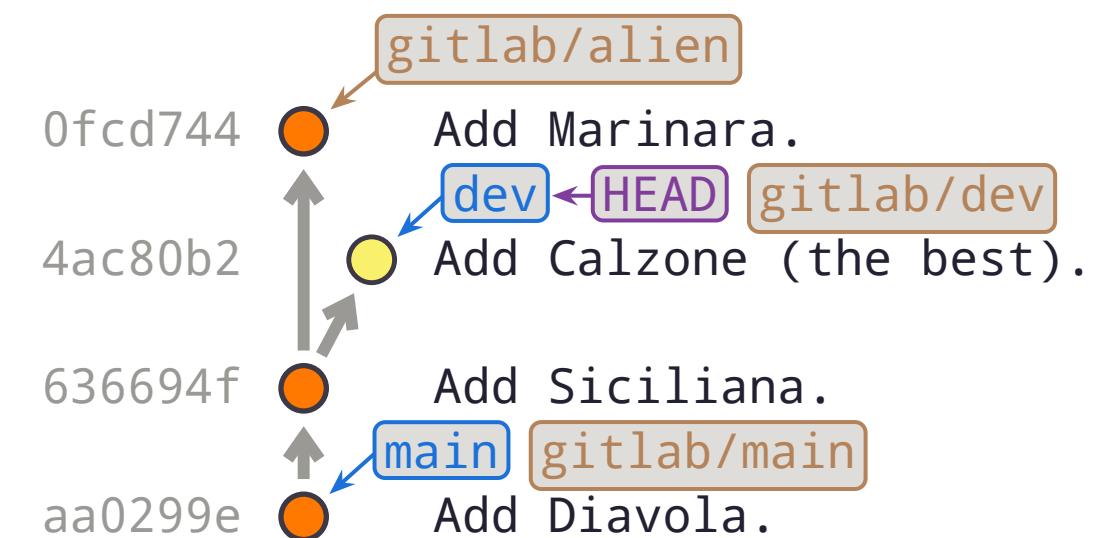
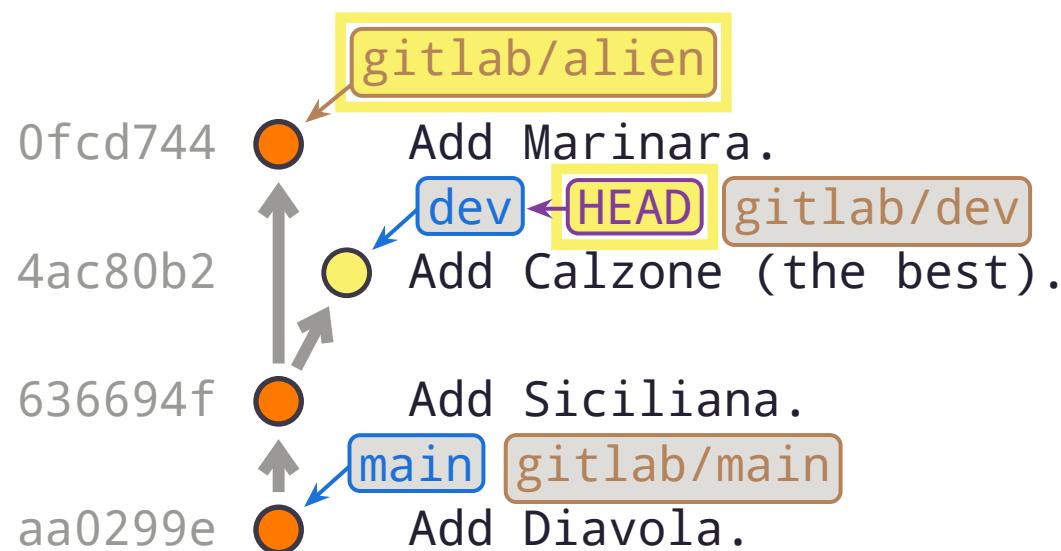
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

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



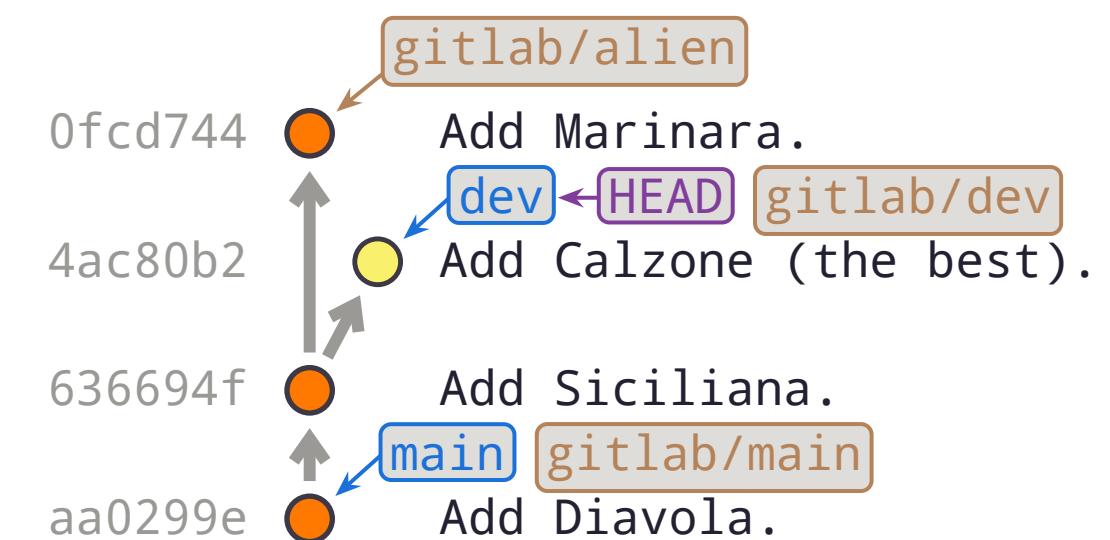
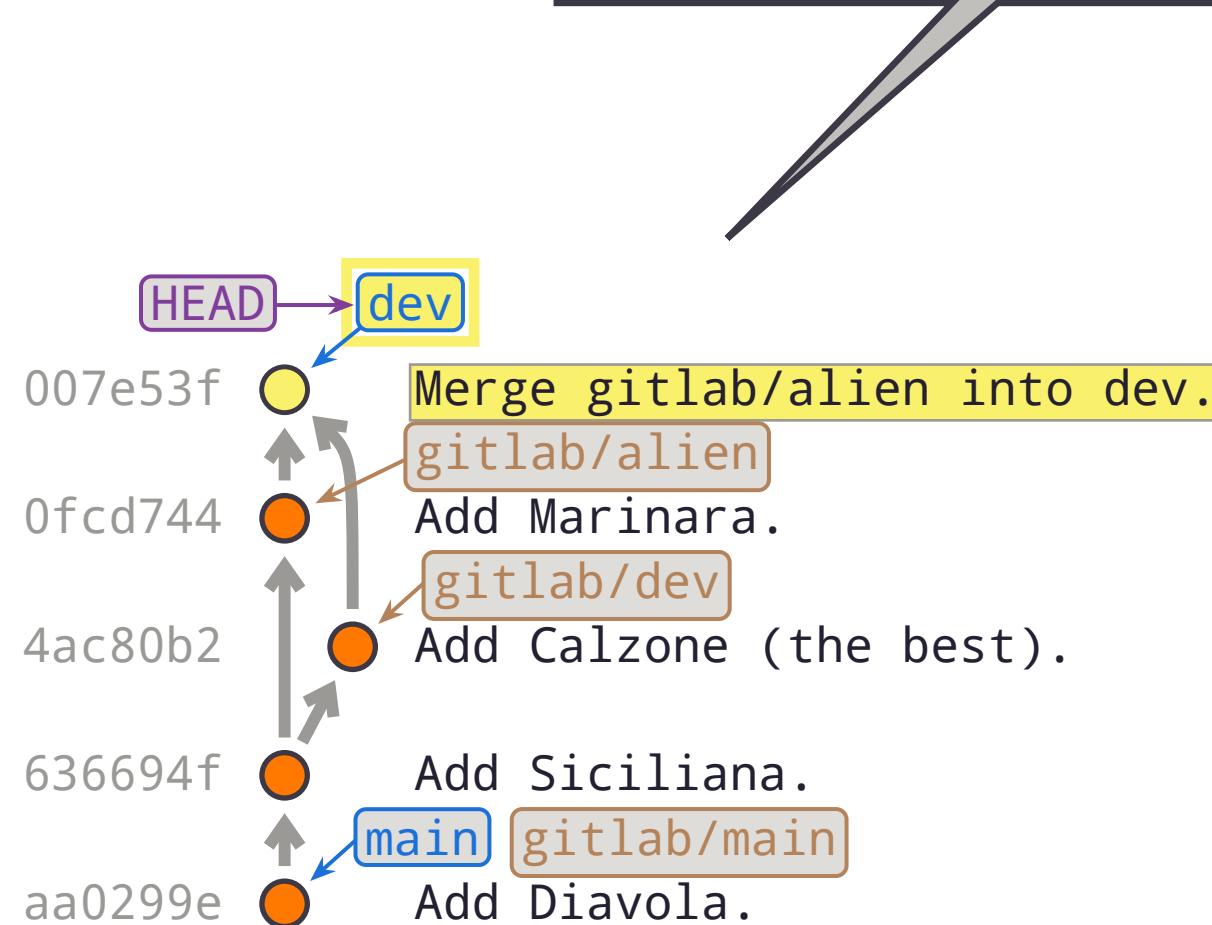
# Merge and Rebase

Two Git Philosophies

## Merge strategy

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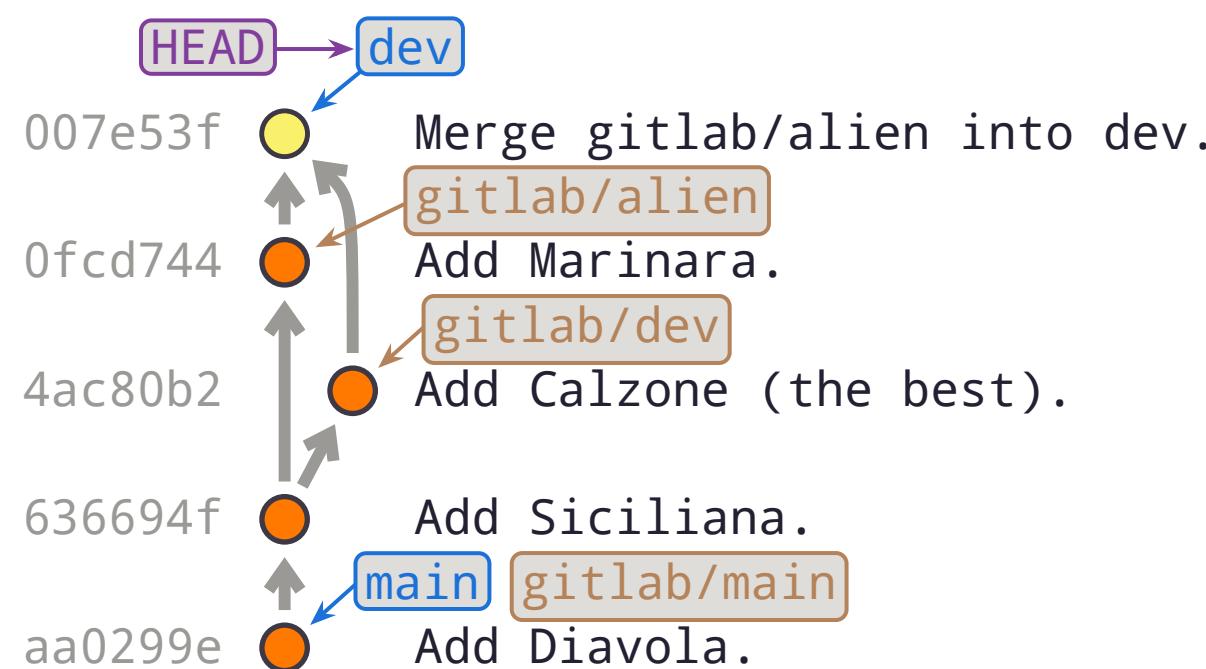
```
$ git merge gitlab/alien
```



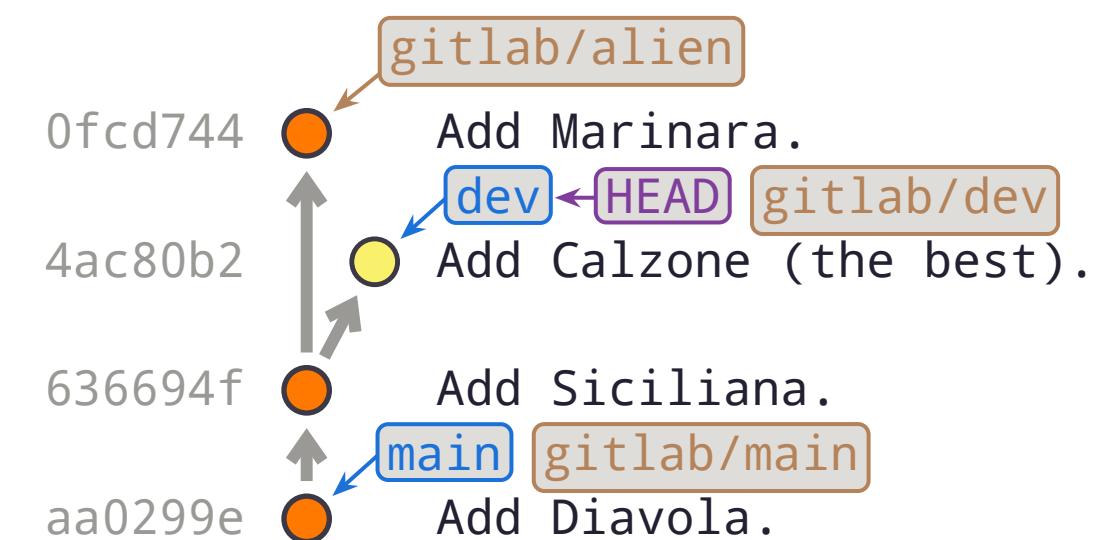
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy

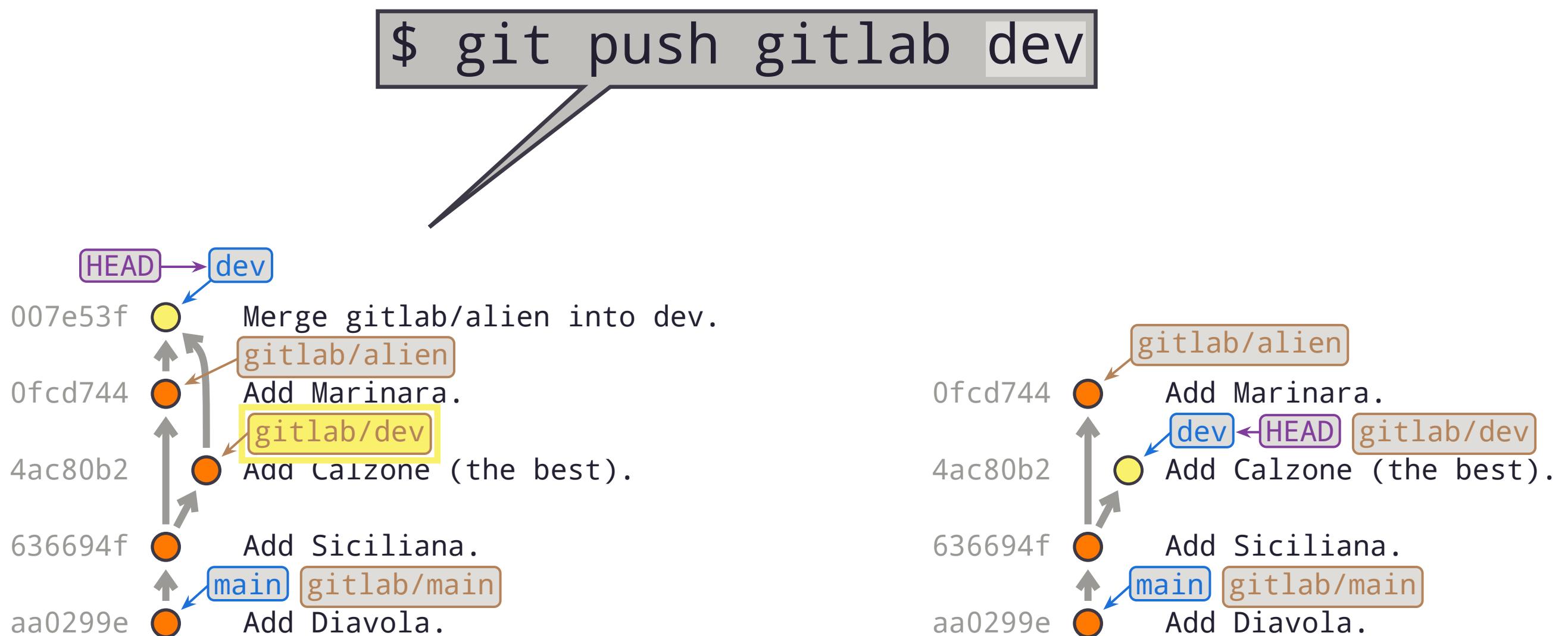


# Merge and Rebase

Two Git Philosophies

## Merge strategy

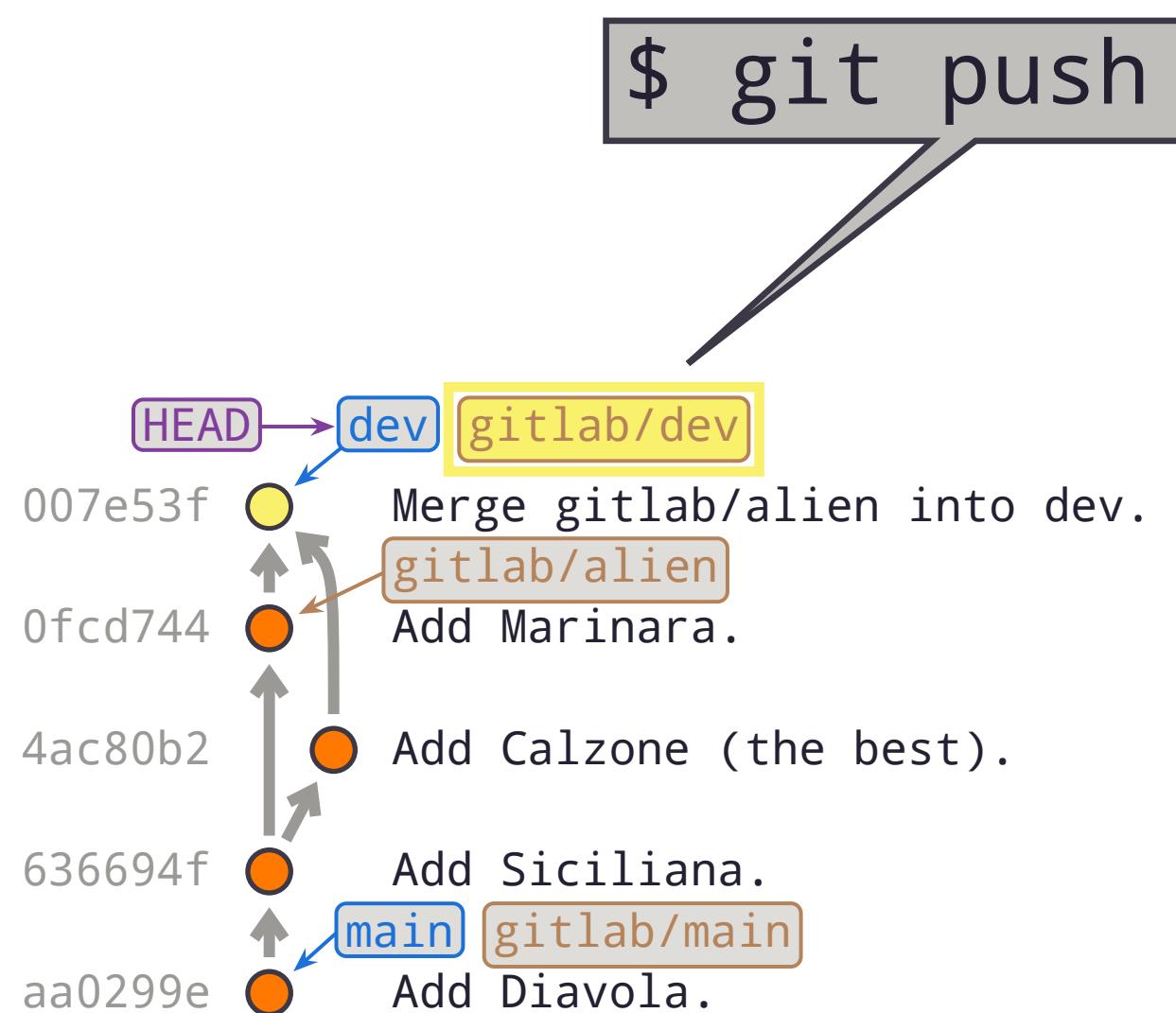
## Rebase strategy



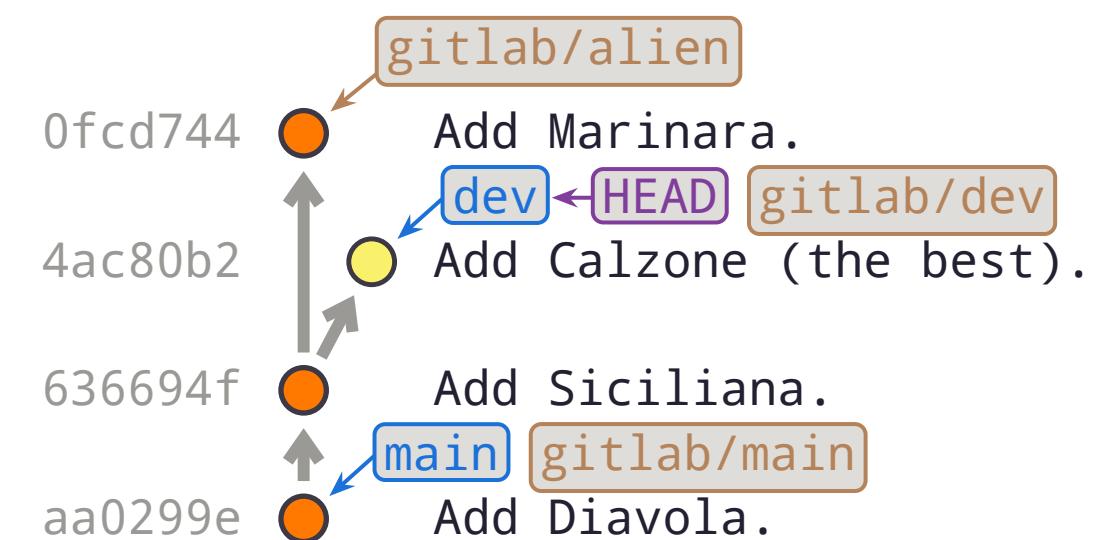
# Merge and Rebase

## Two Git Philosophies

### Merge strategy



### Rebase strategy

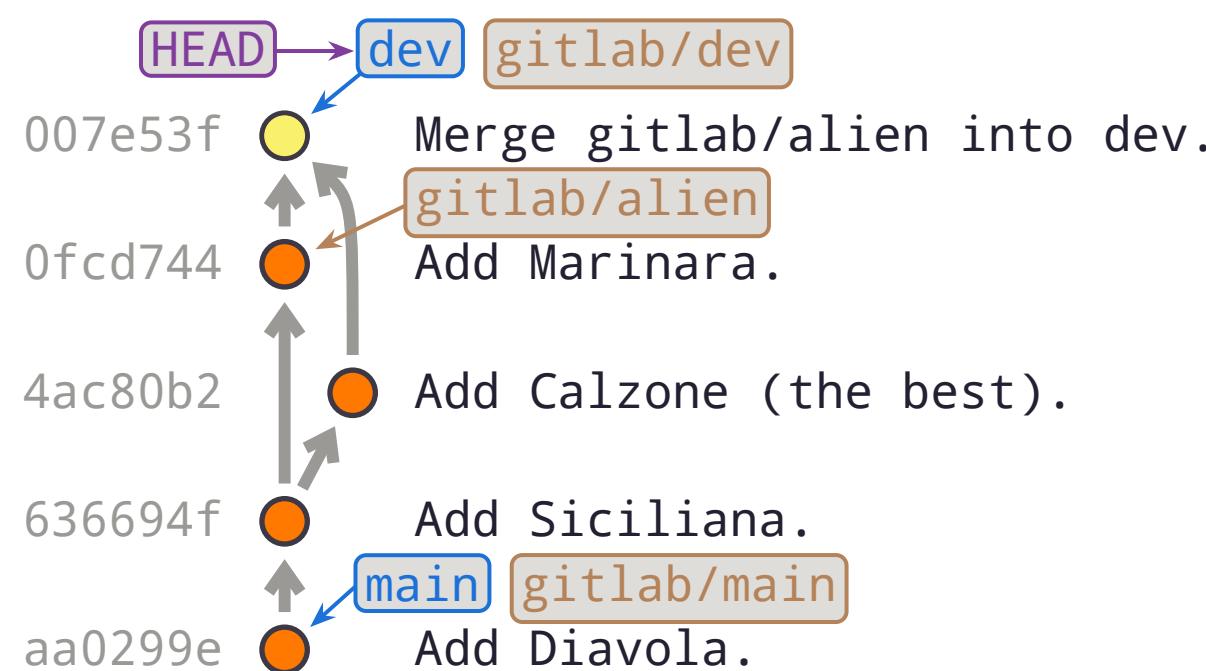


```
$ git push gitlab dev
```

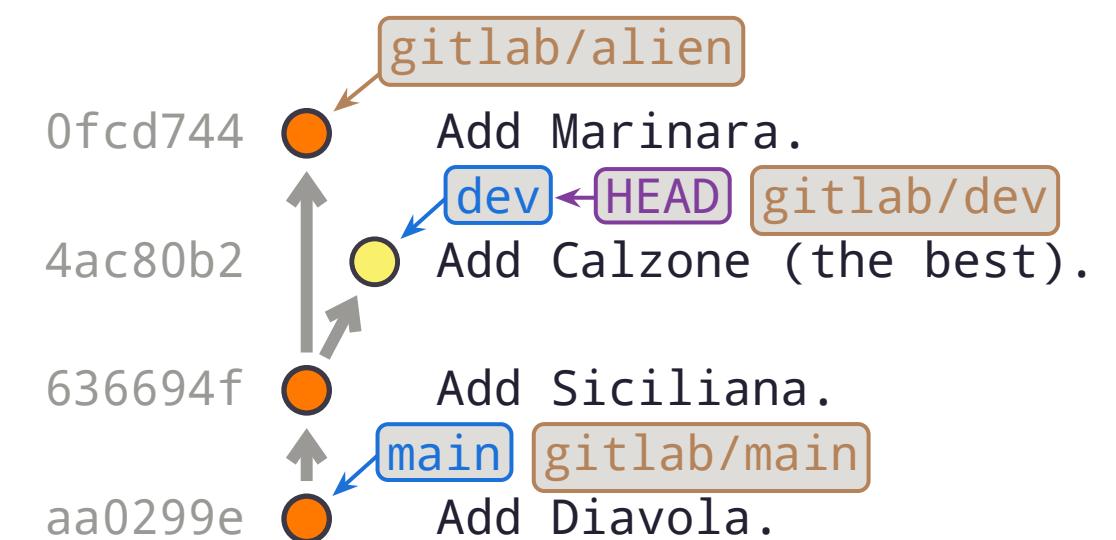
# Merge and Rebase

Two Git Philosophies

## Merge strategy



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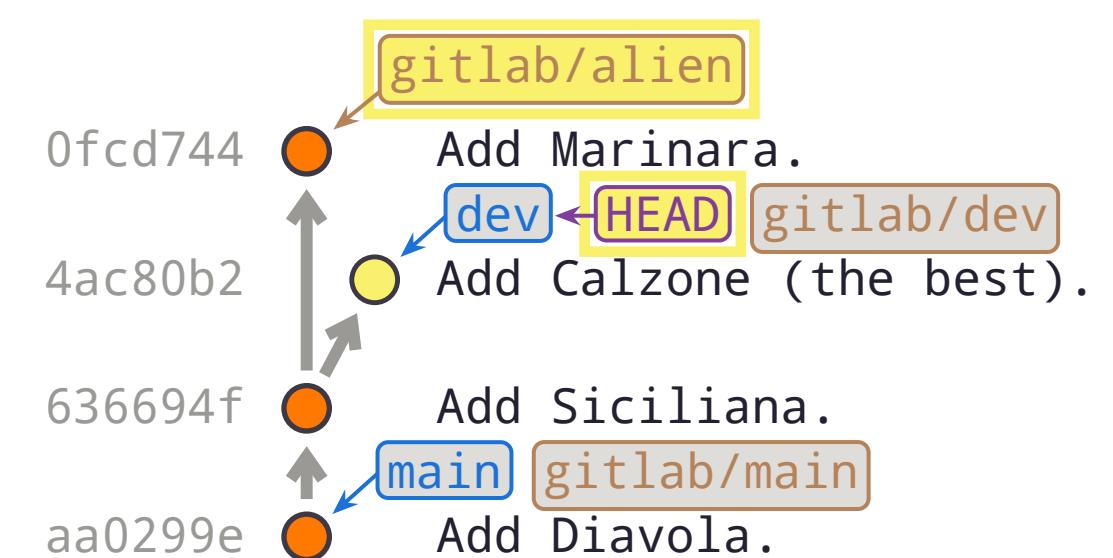
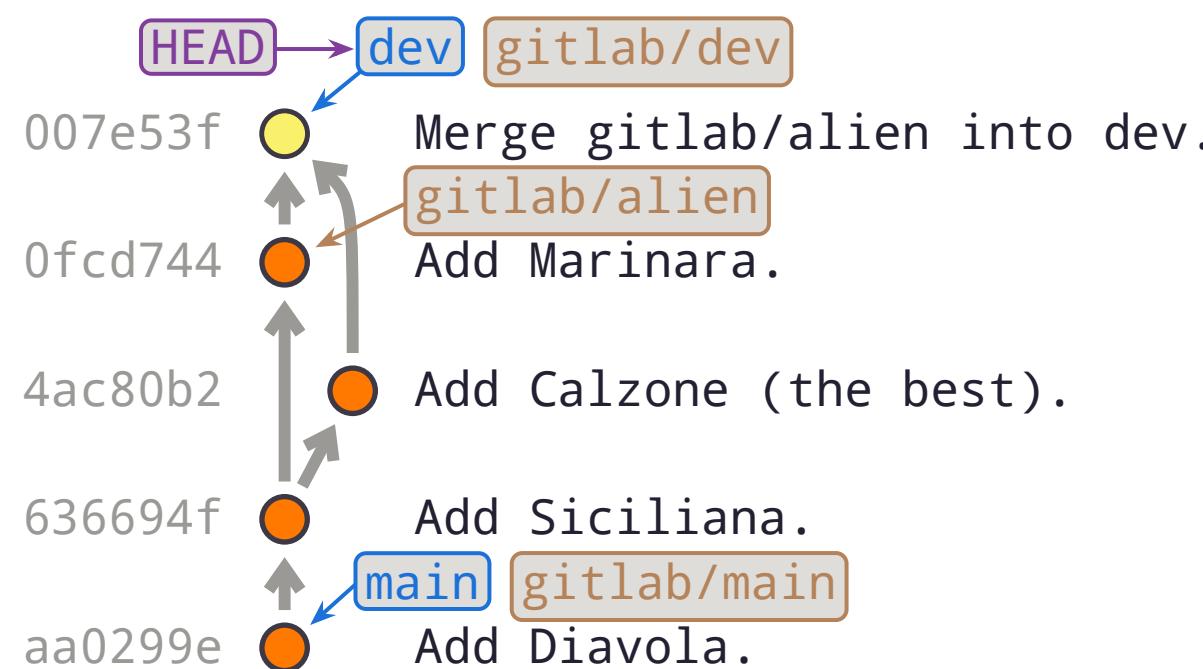
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

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



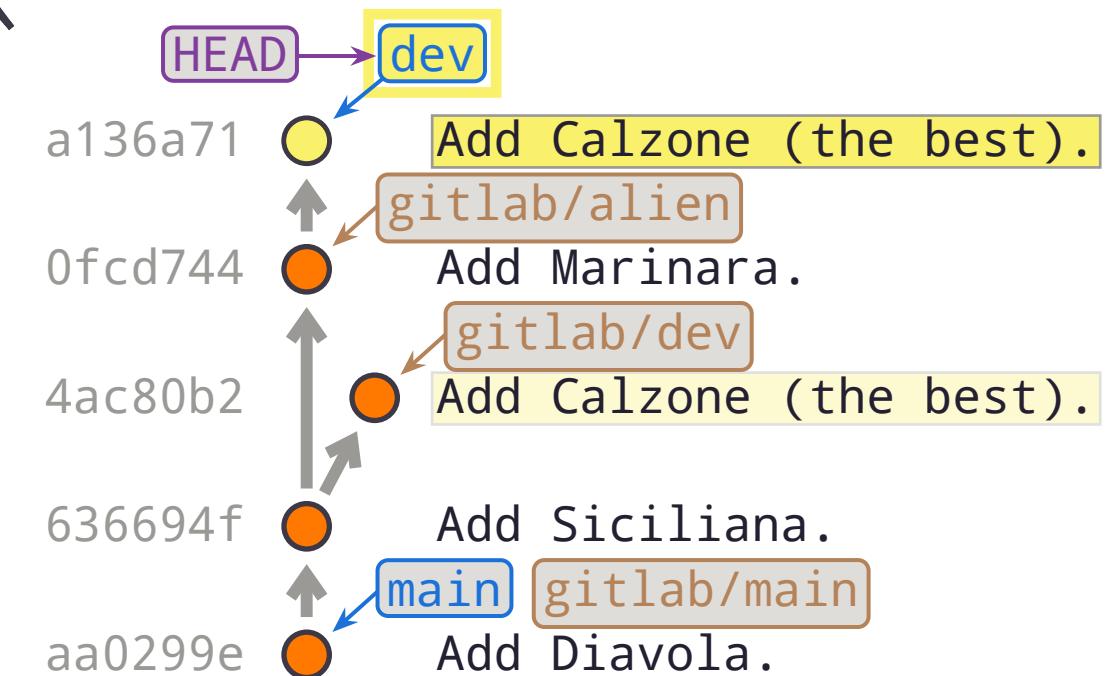
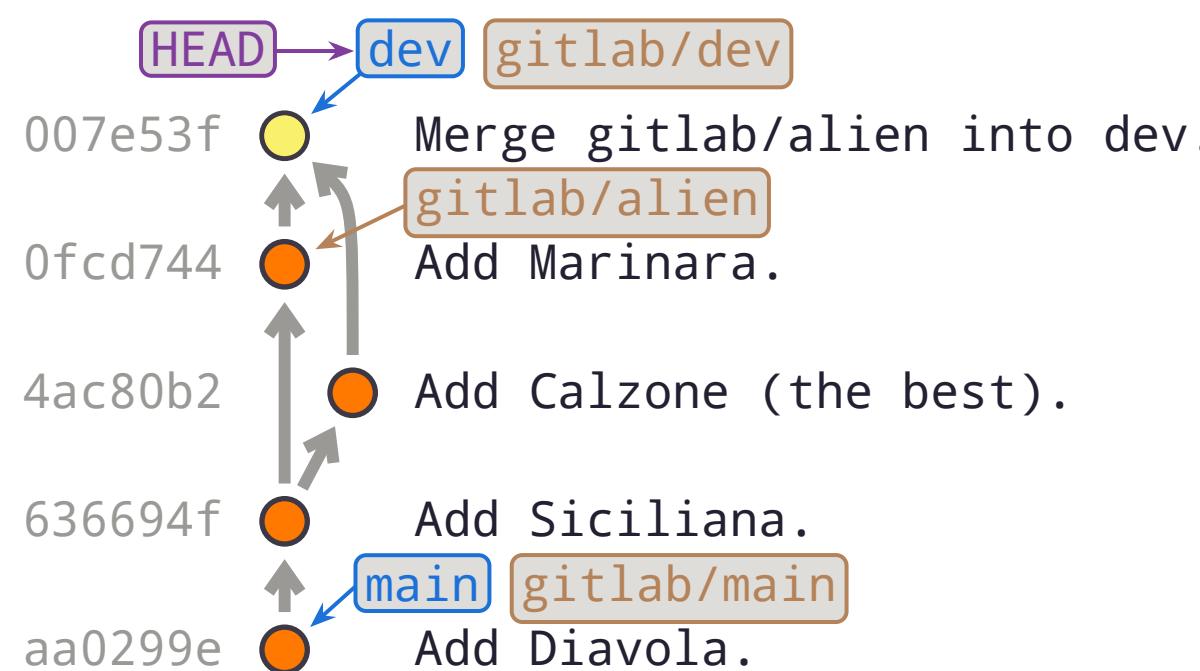
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Two Git Philosophies

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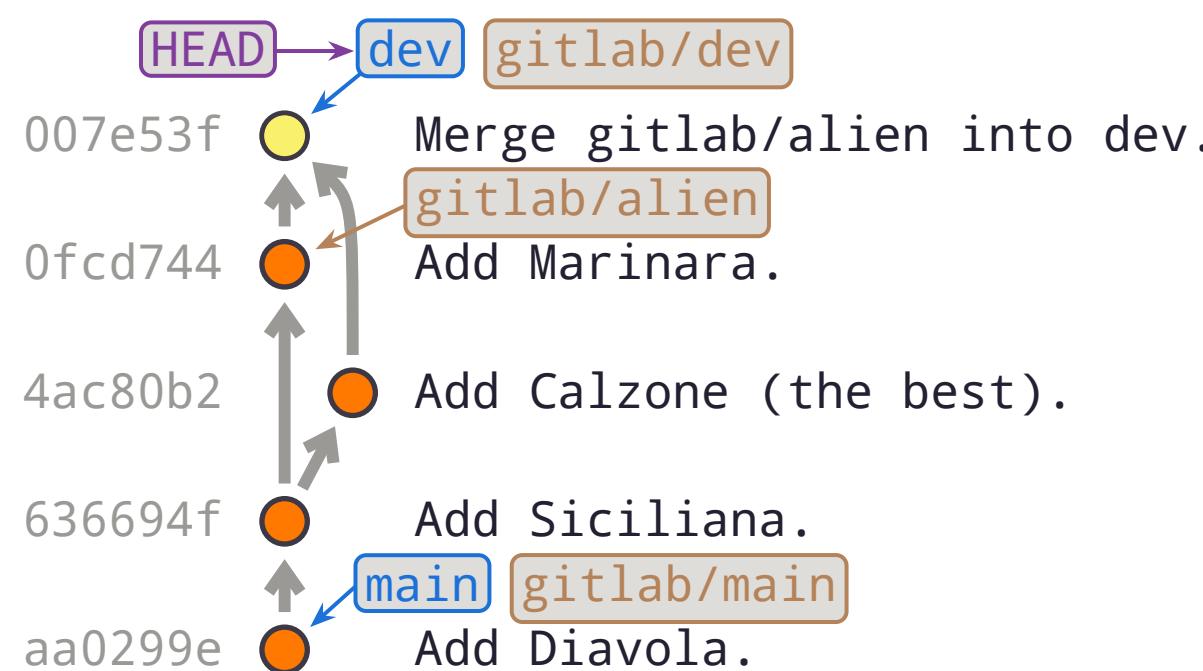
```
$ git rebase gitlab/alien
```



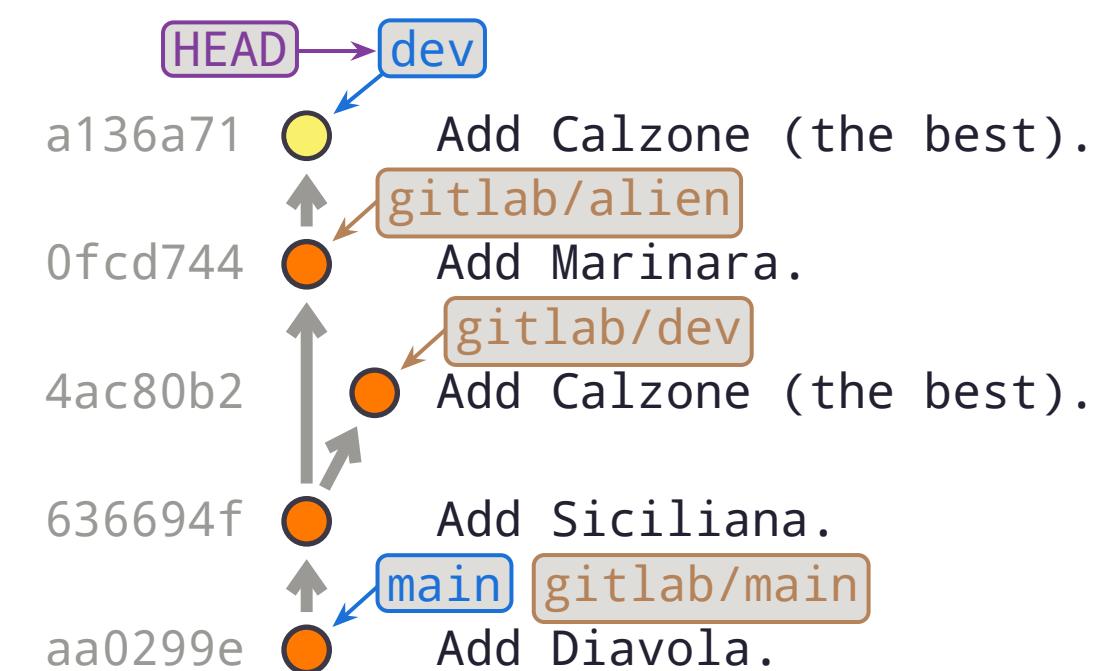
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



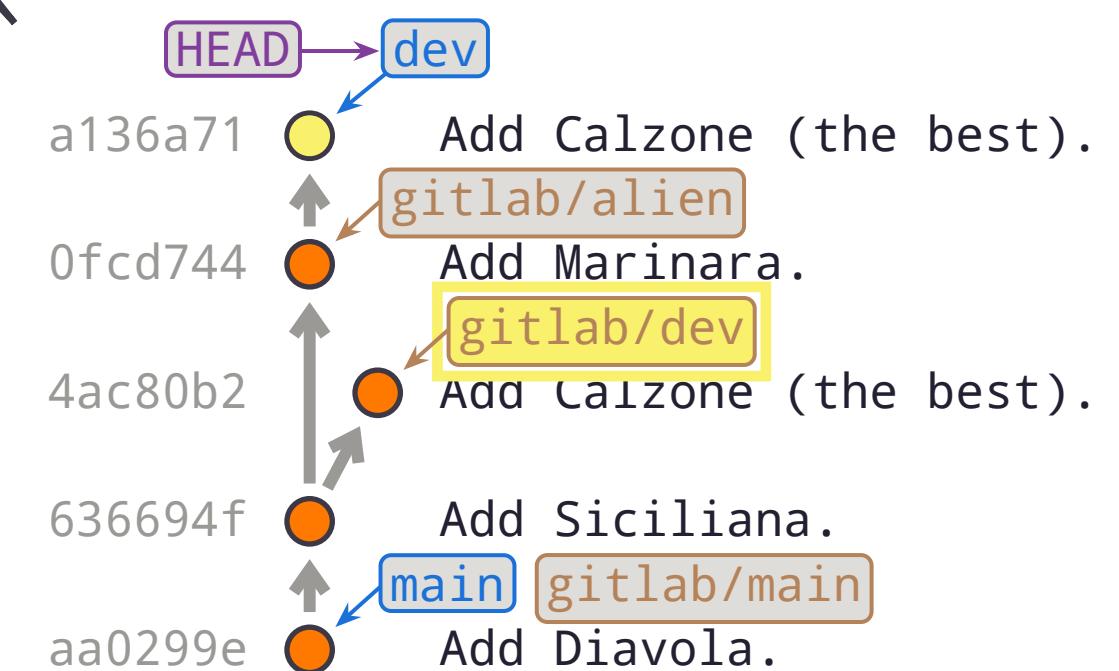
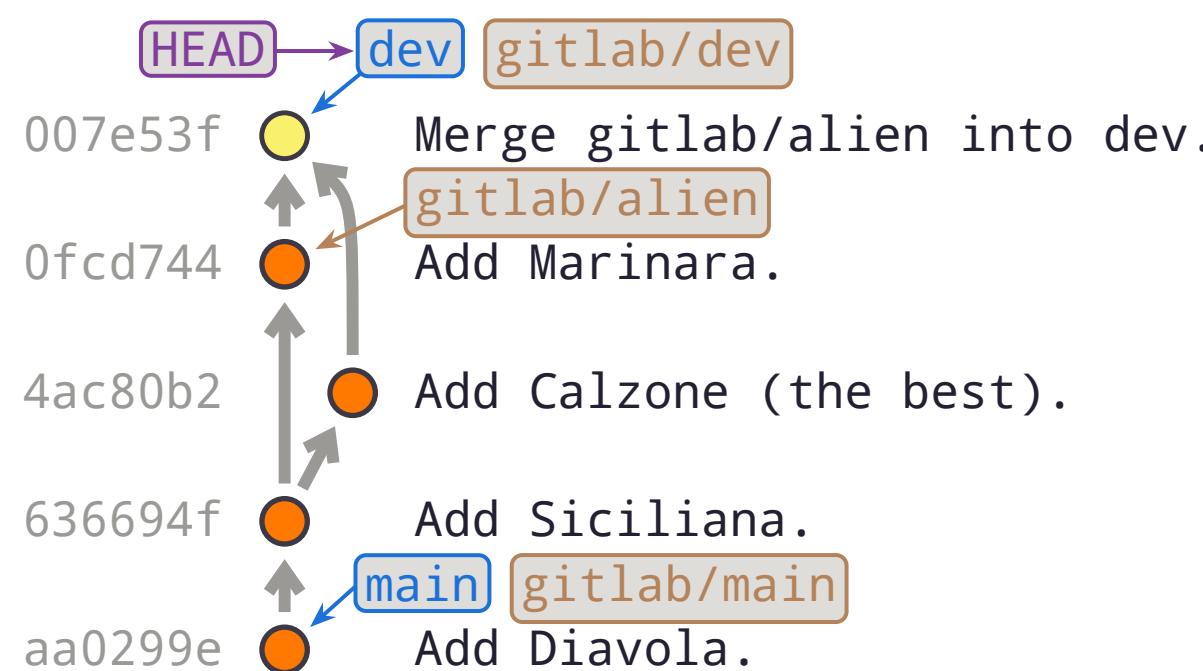
# Merge and Rebase

## Two Git Philosophies

### Merge strategy

### Rebase strategy

```
$ git push gitlab dev
```



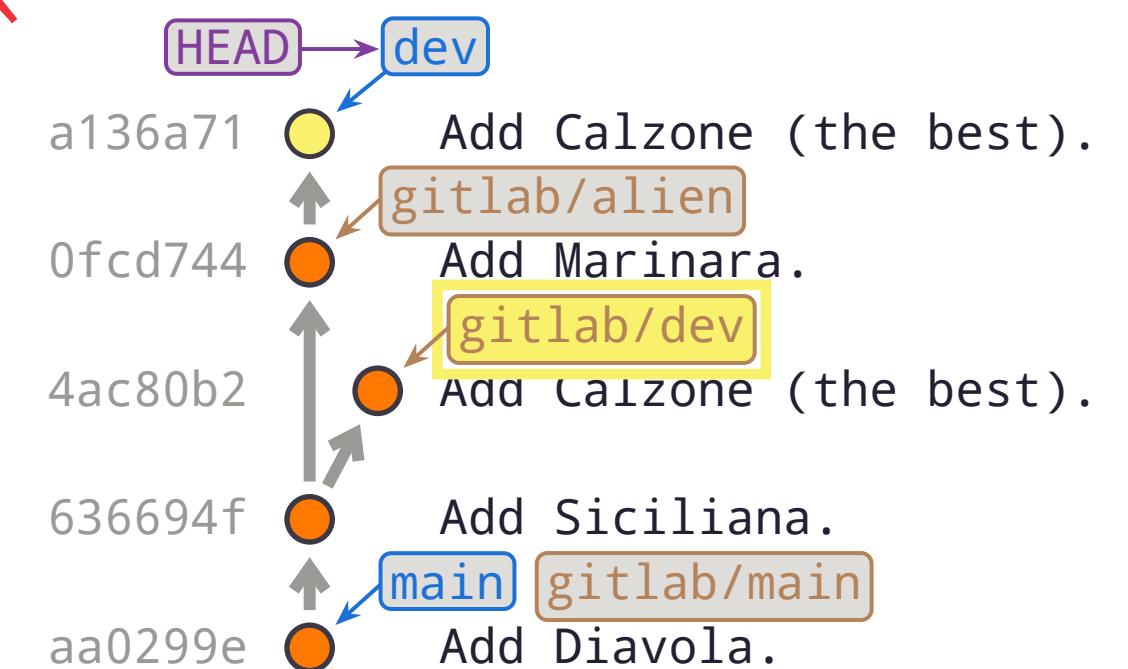
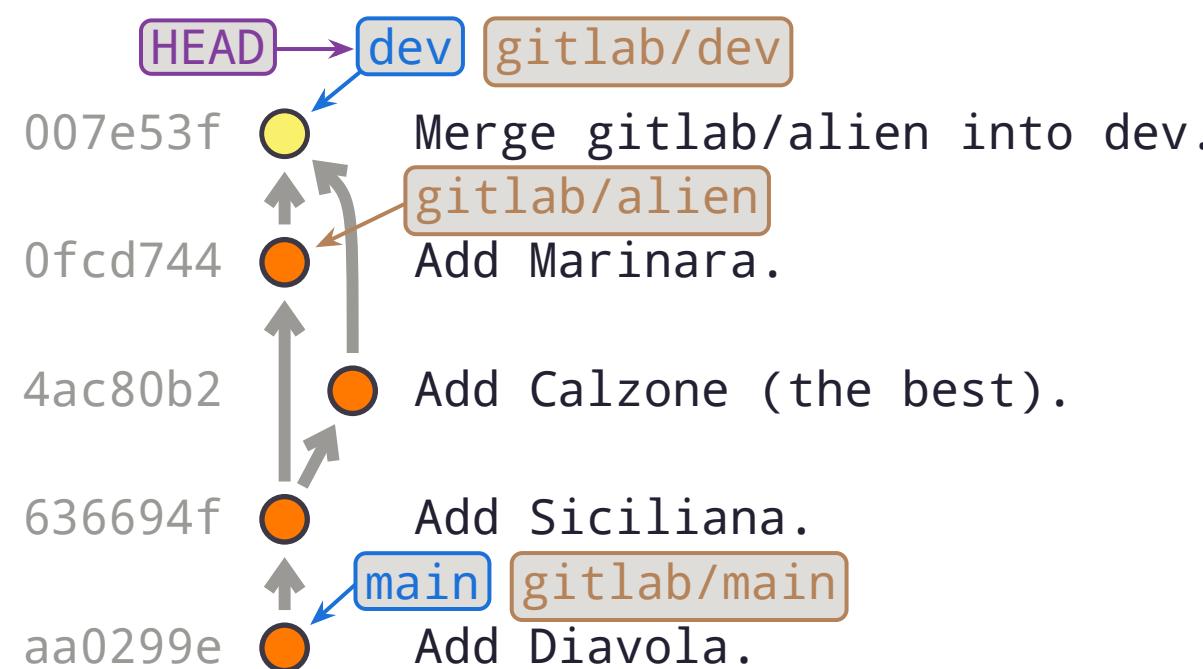
# Merge and Rebase

## Two Git Philosophies

### Merge strategy

### Rebase strategy

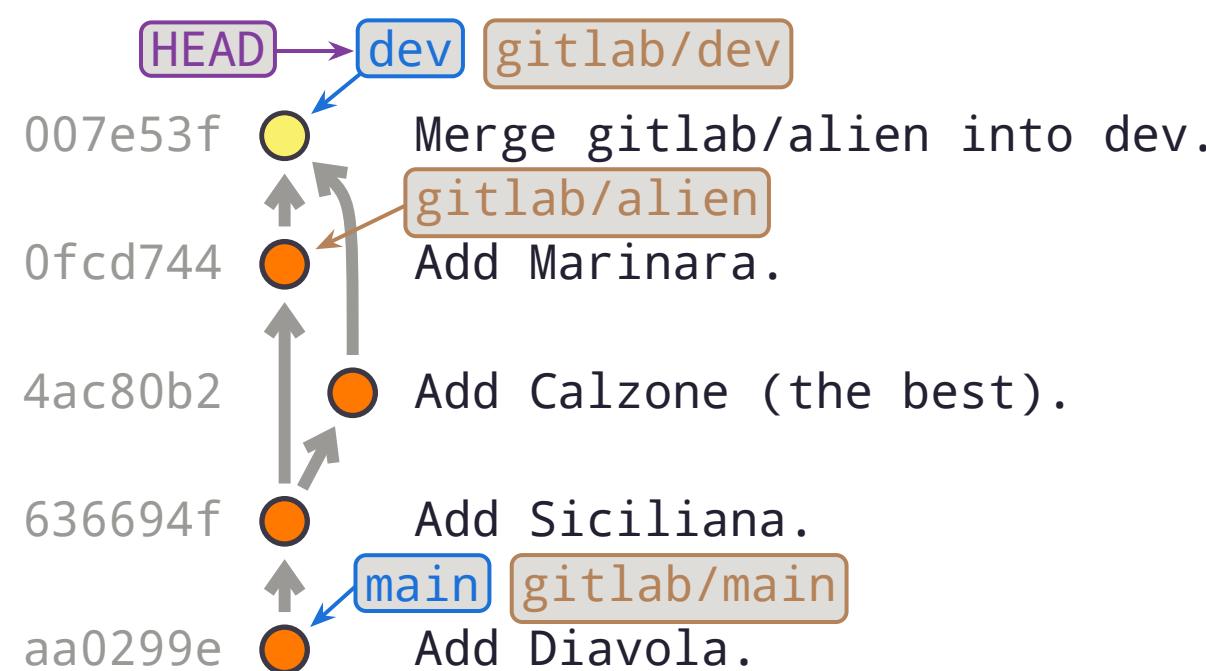
```
$ git push gitlab dev
```



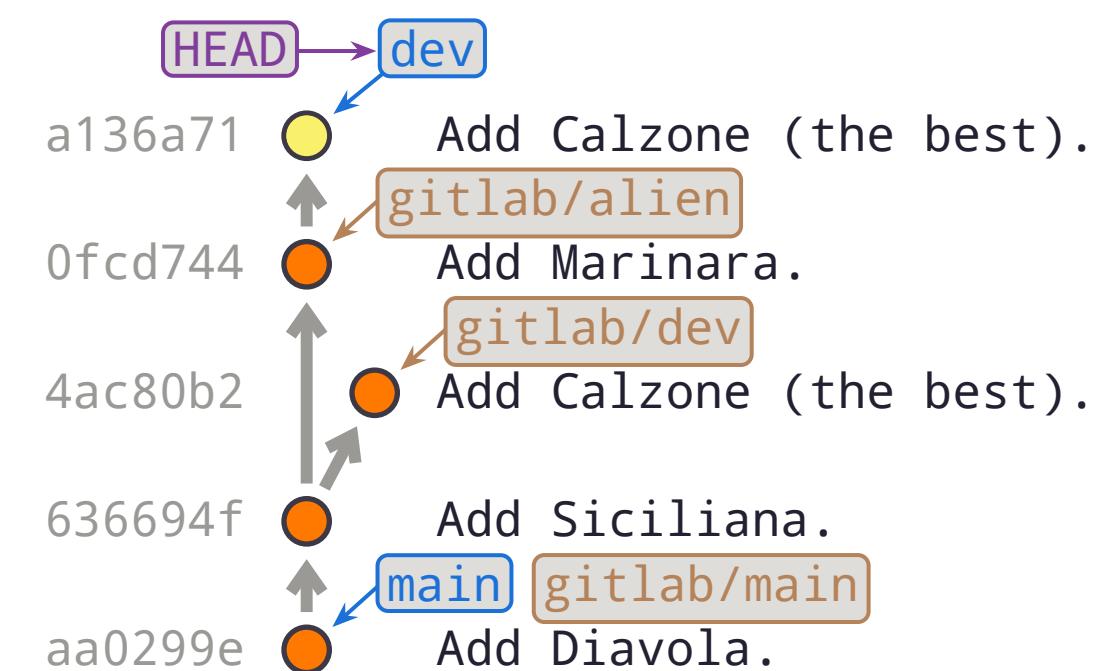
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



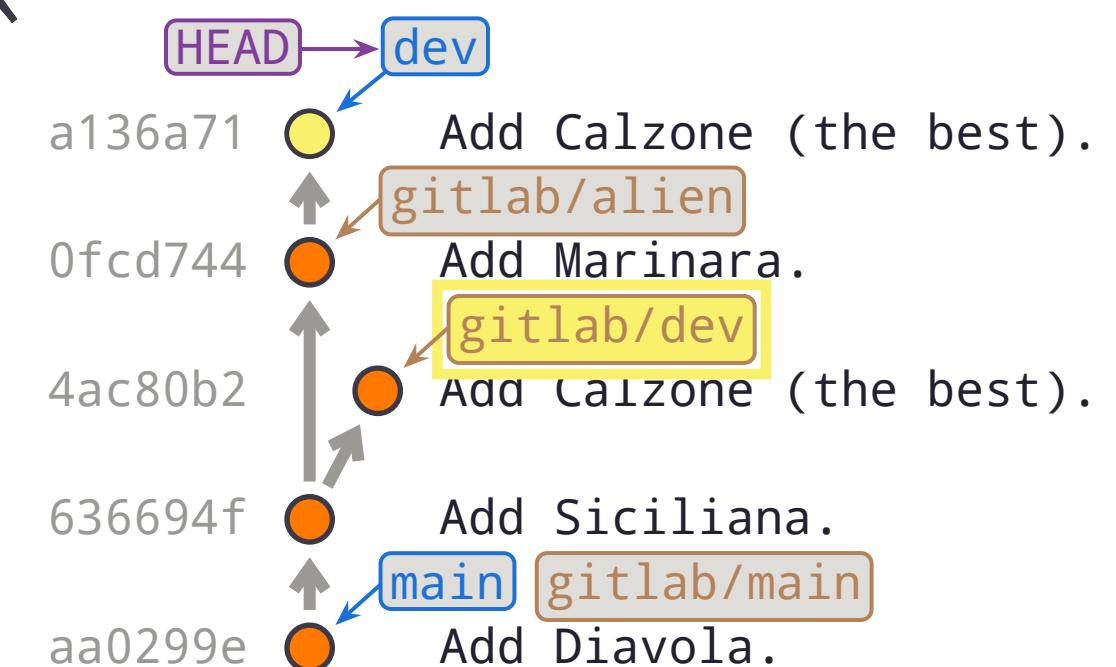
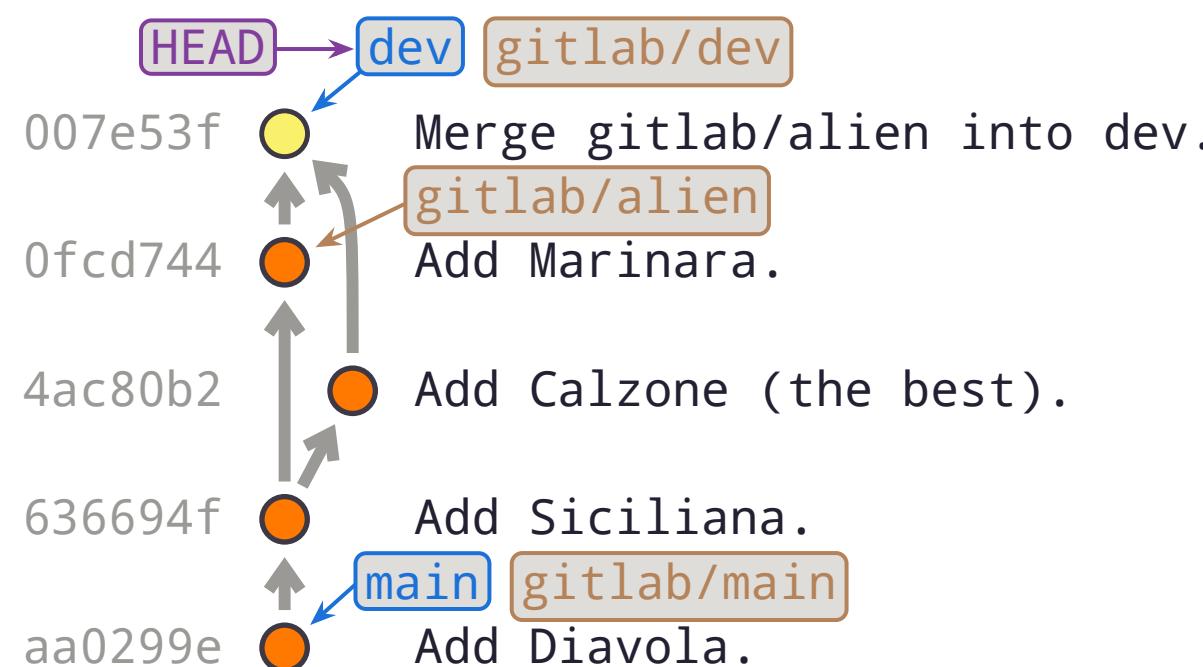
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

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



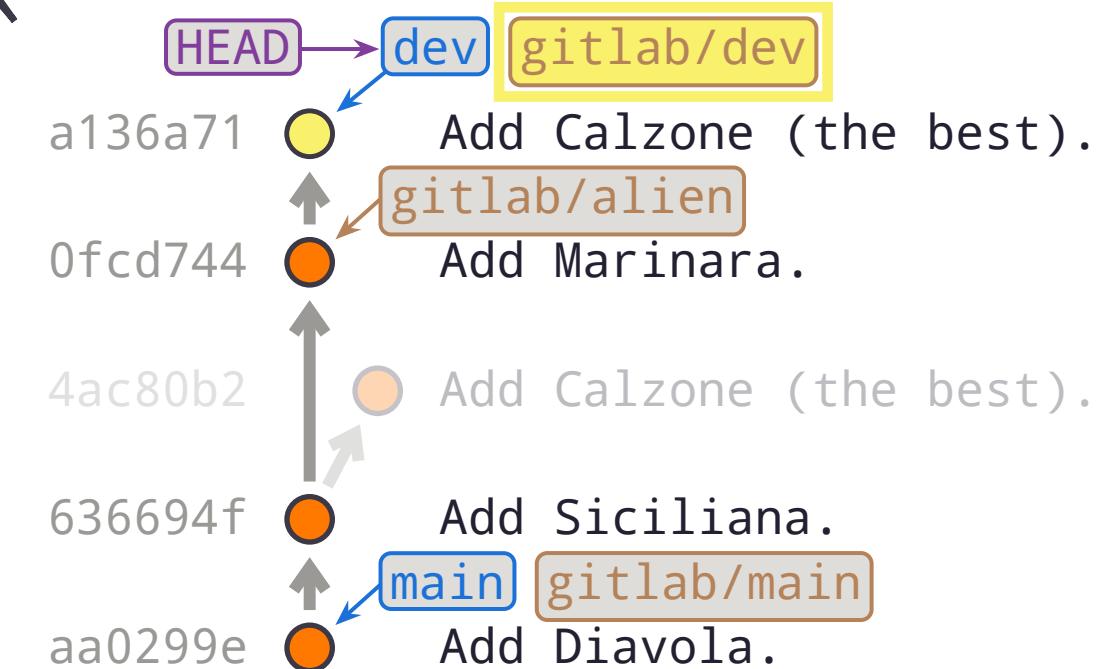
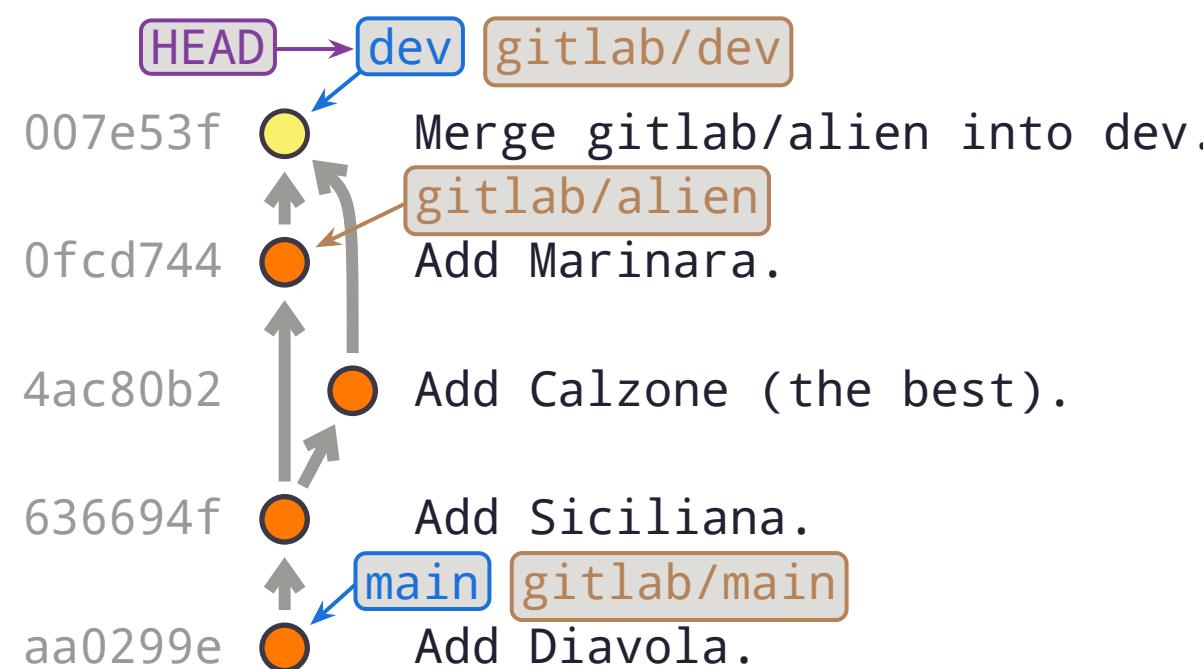
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

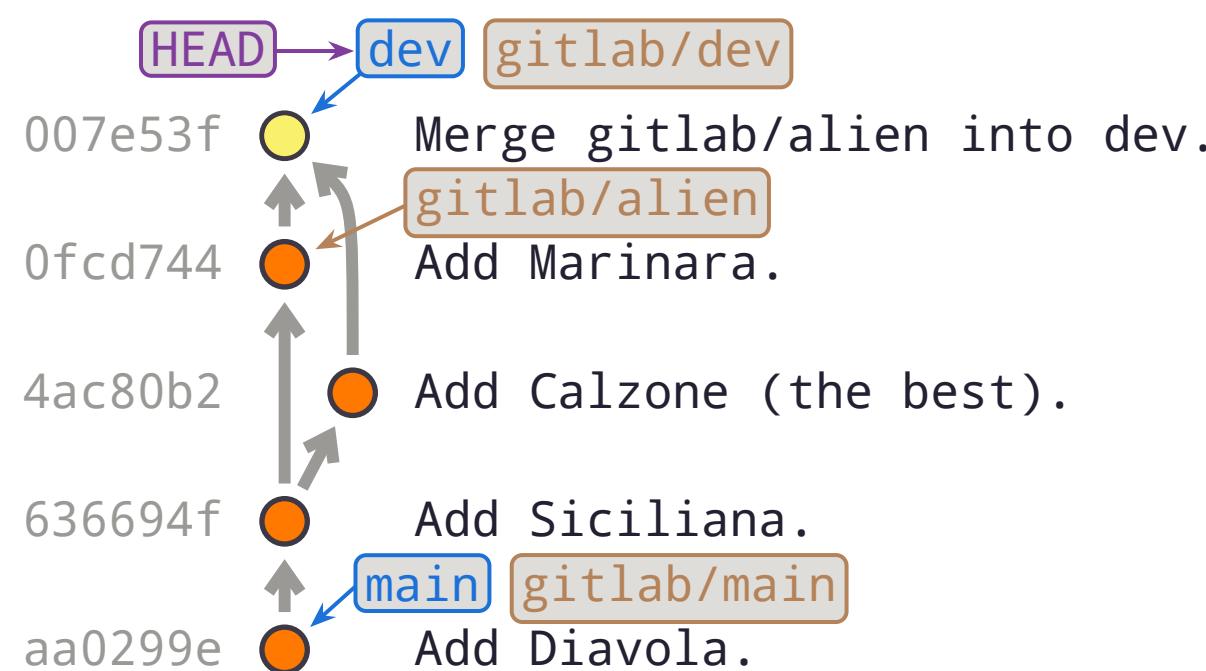
```
$ git push --force gitlab dev
```



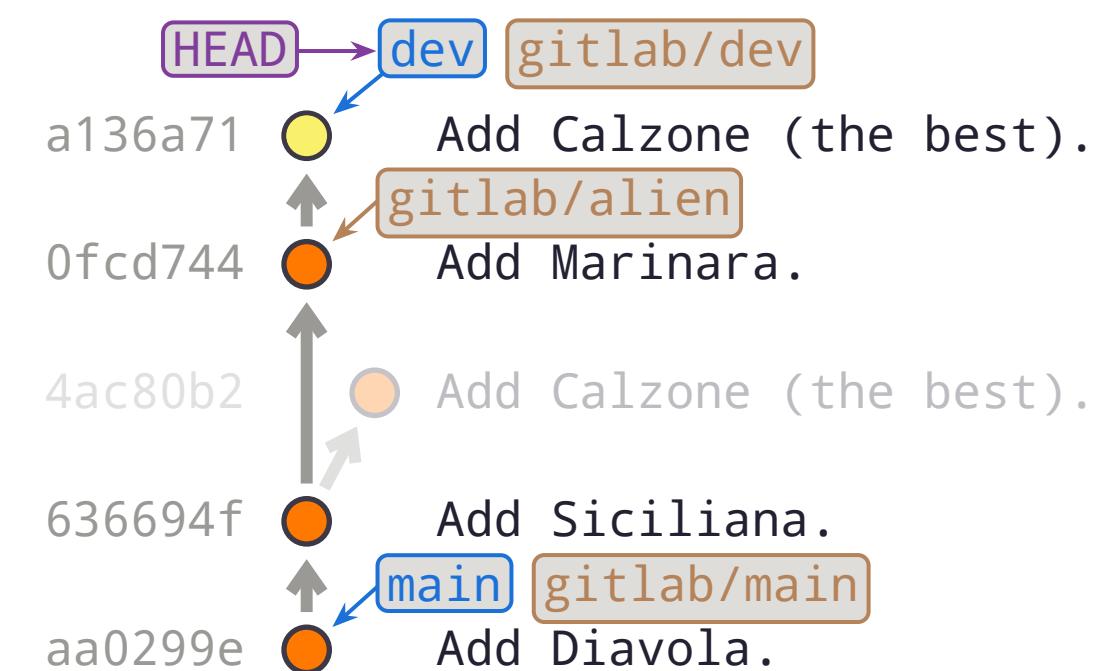
# Merge and Rebase

Two Git Philosophies

## Merge strategy



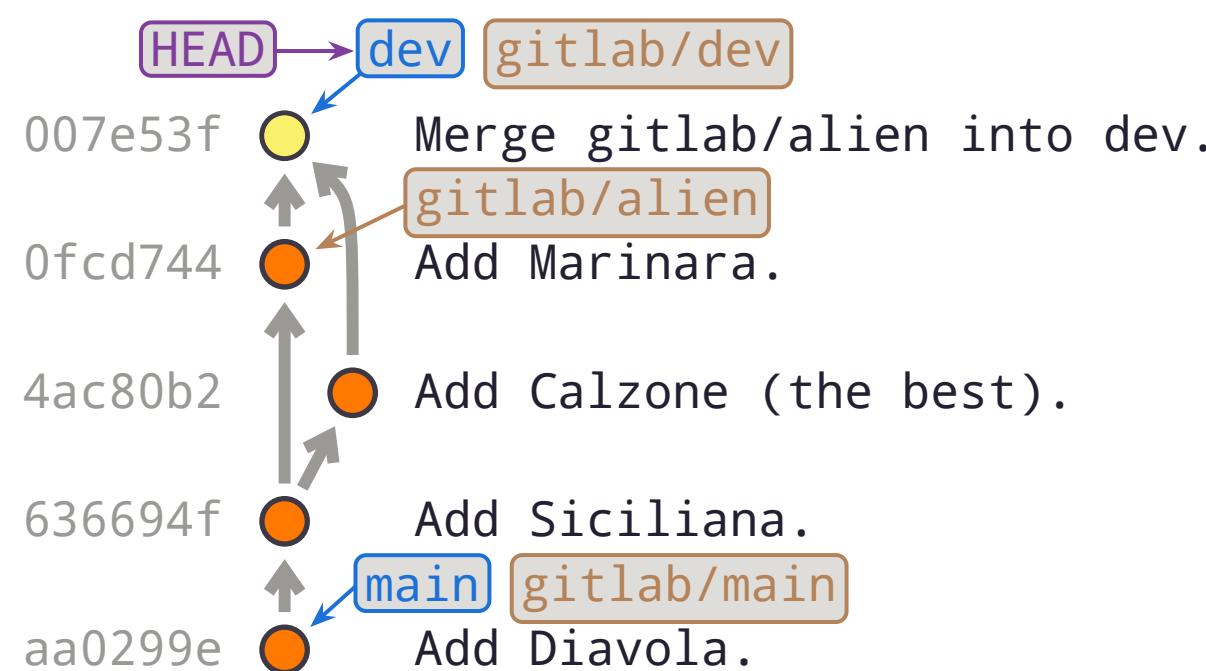
## Rebase strategy



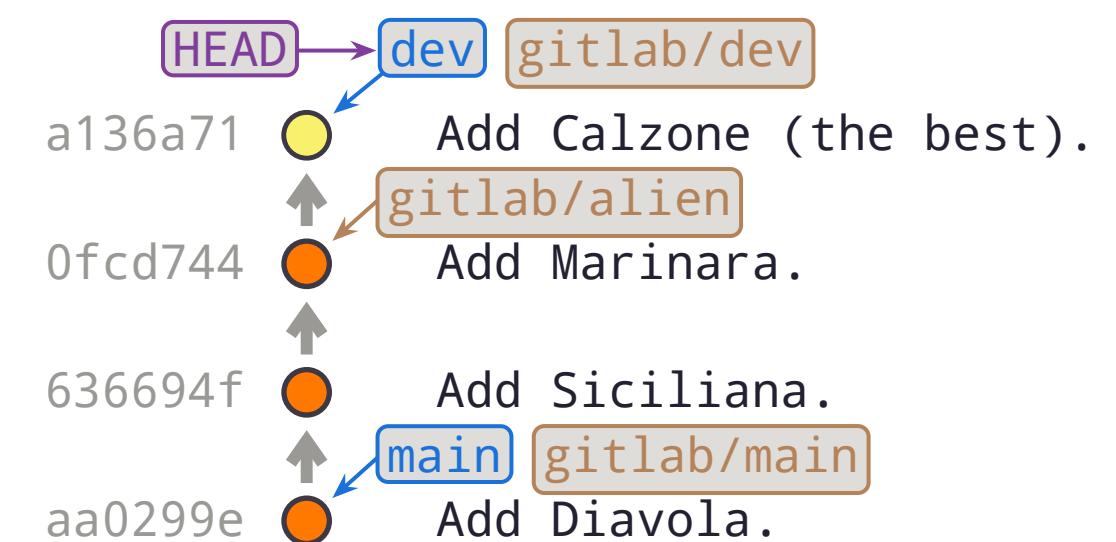
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



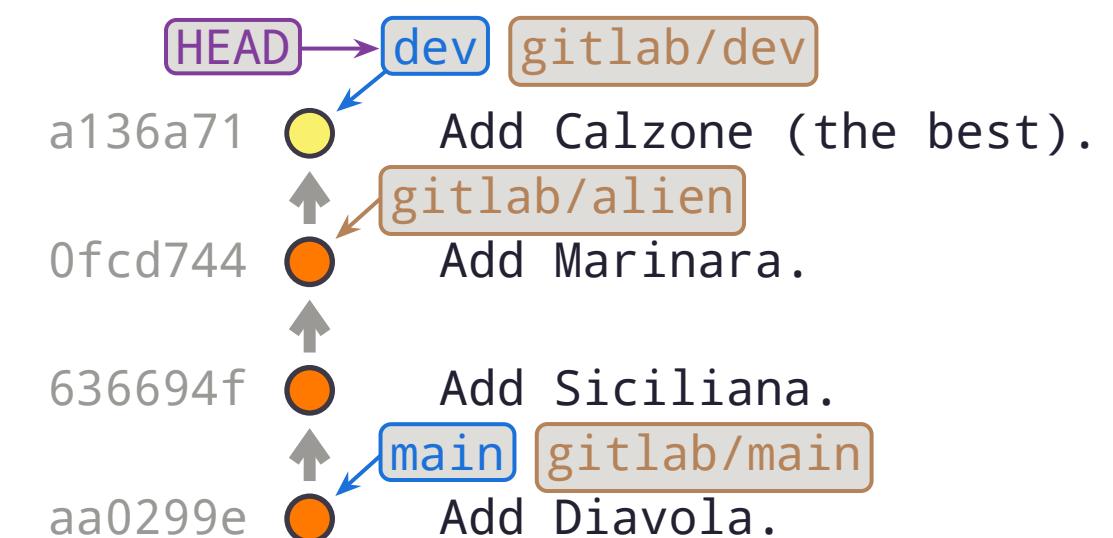
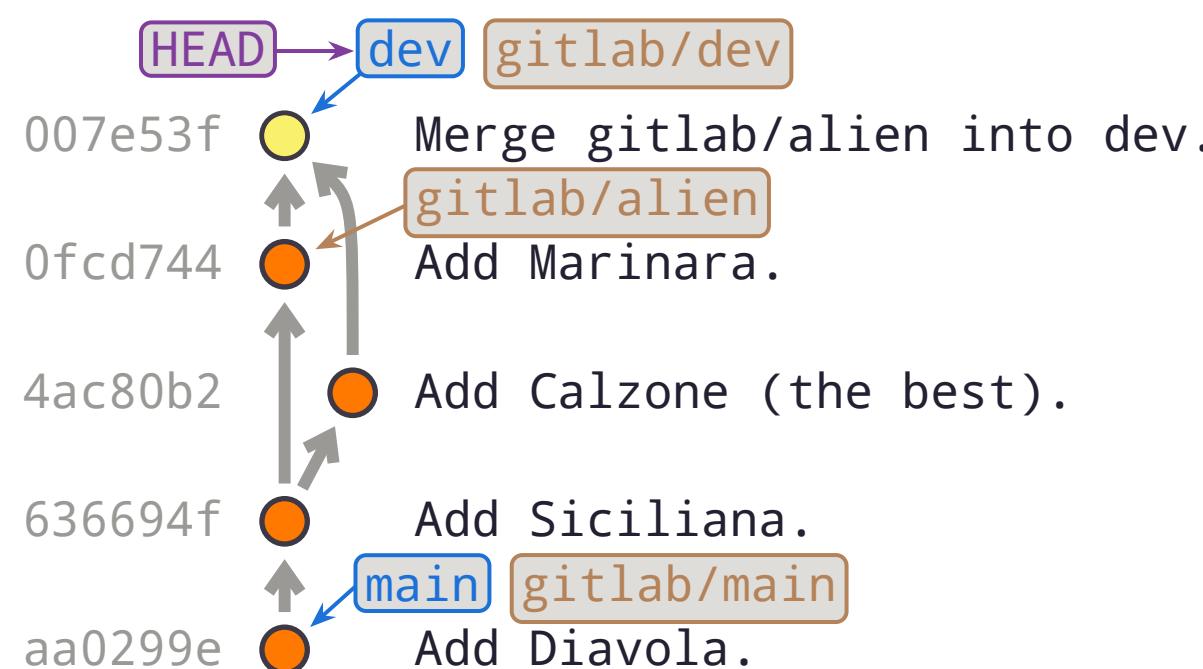
# Merge and Rebase

Two Git Philosophies

## Merge strategy

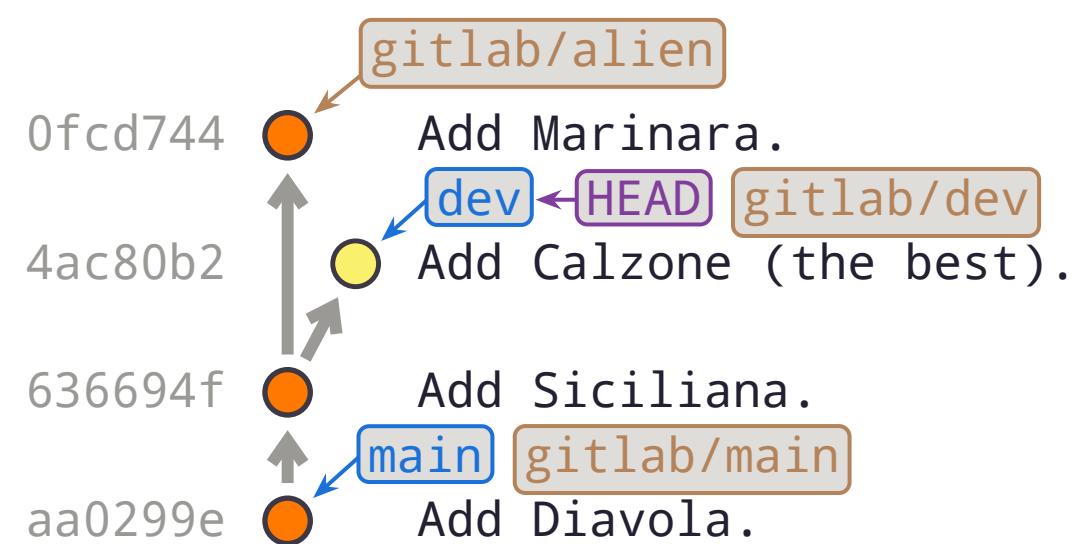
## Rebase strategy

Wait, do this again.



# Merge and Rebase

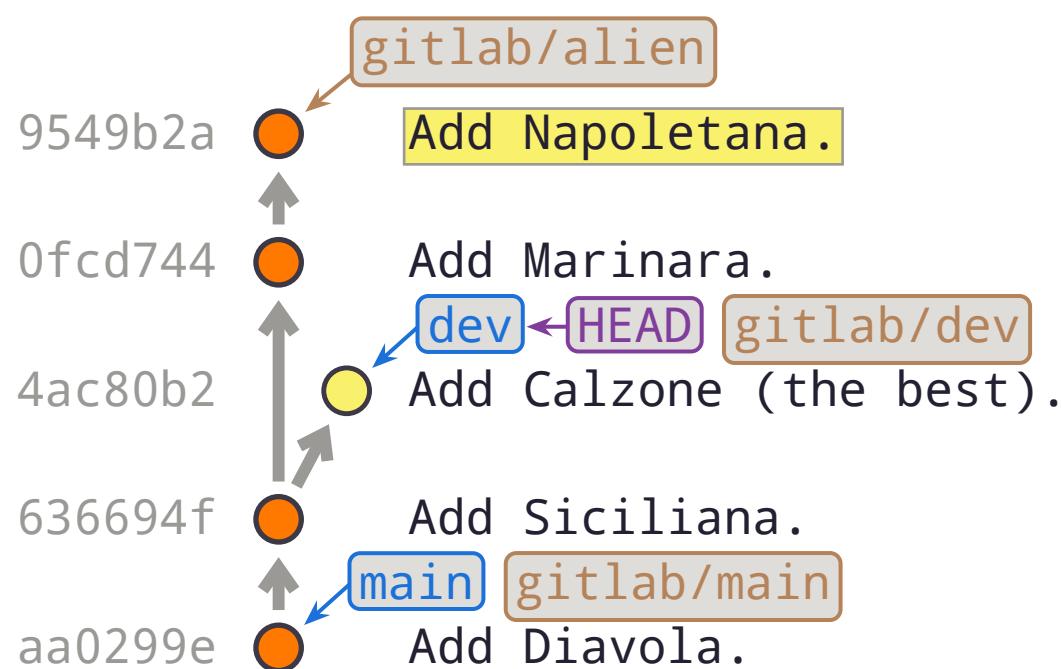
## Two Git Philosophies



# Merge and Rebase

## Two Git Philosophies

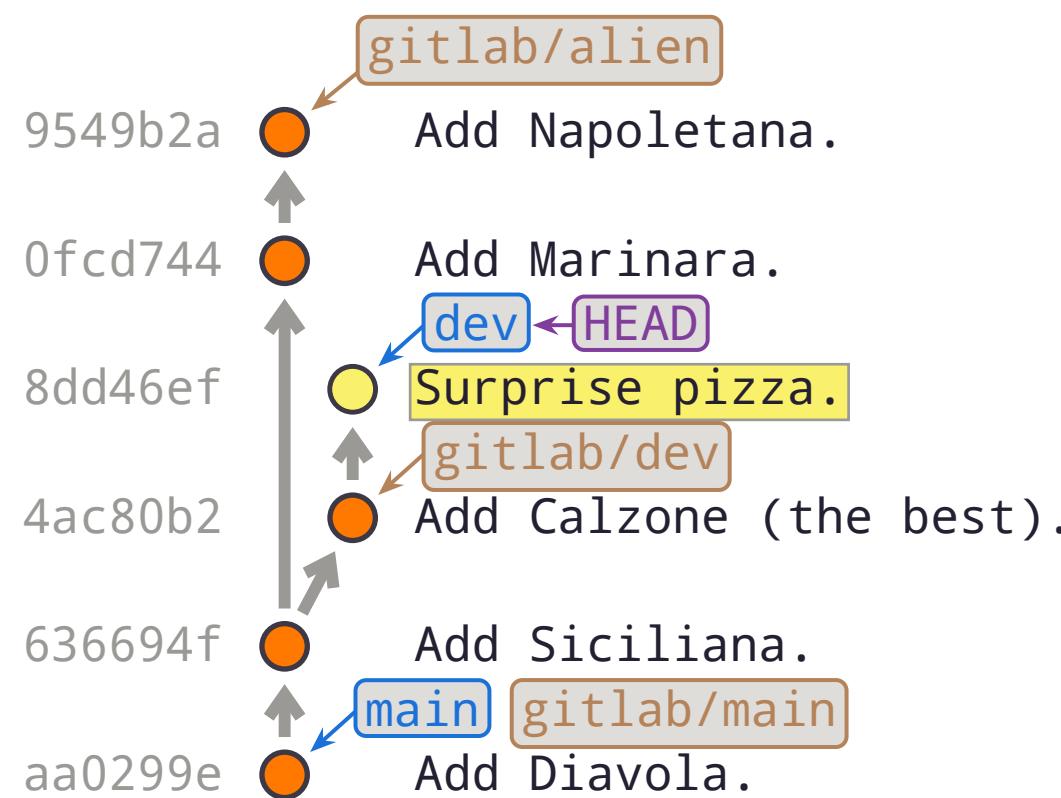
```
$ git fetch
```



# Merge and Rebase

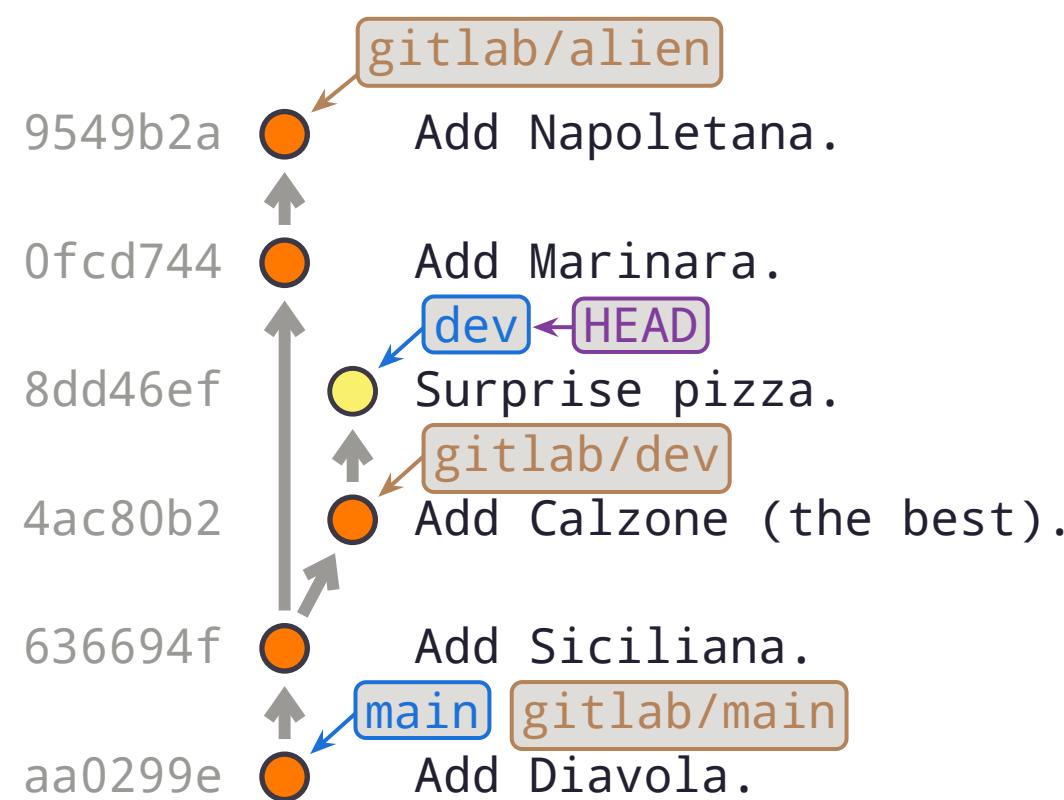
## Two Git Philosophies

```
$ git commit
```



# Merge and Rebase

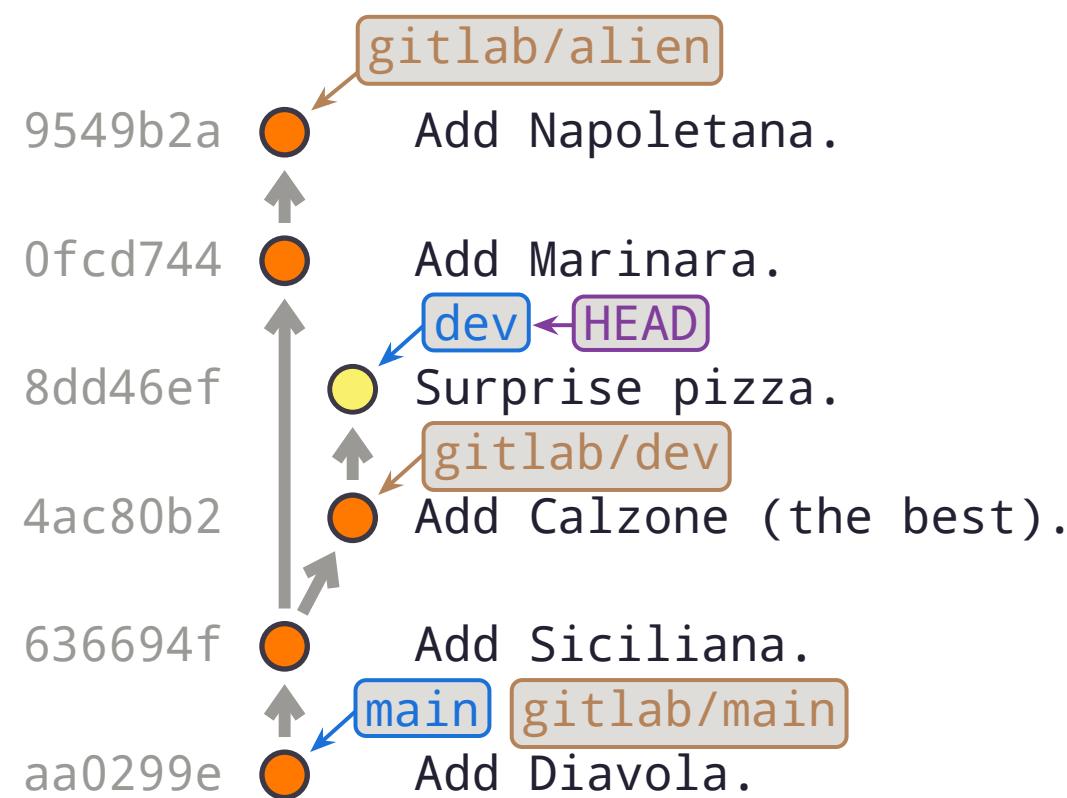
## Two Git Philosophies



# Merge and Rebase

Two Git Philosophies

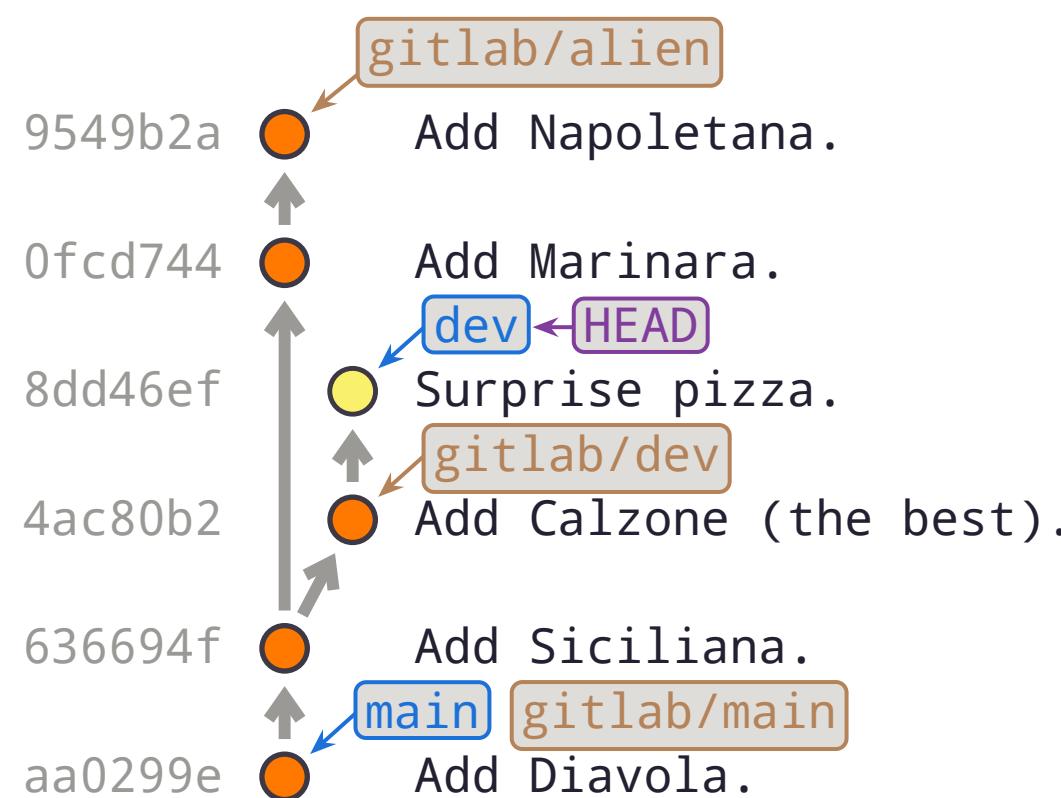
## Merge strategy



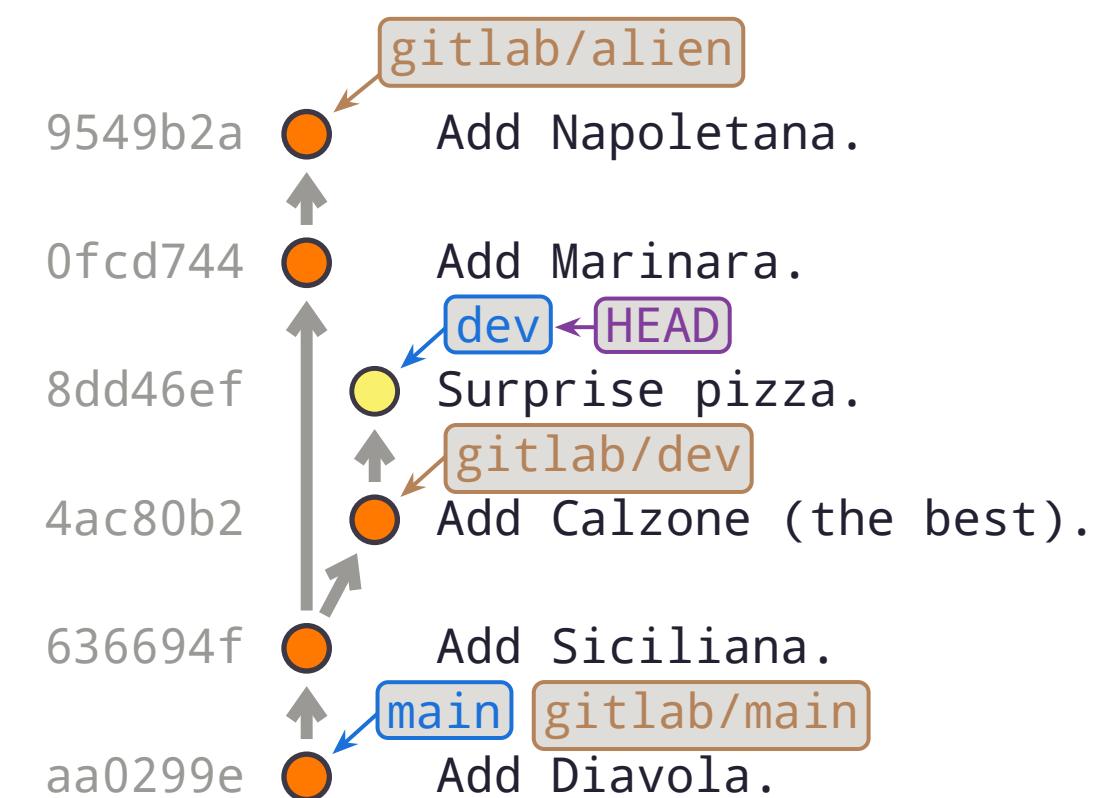
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



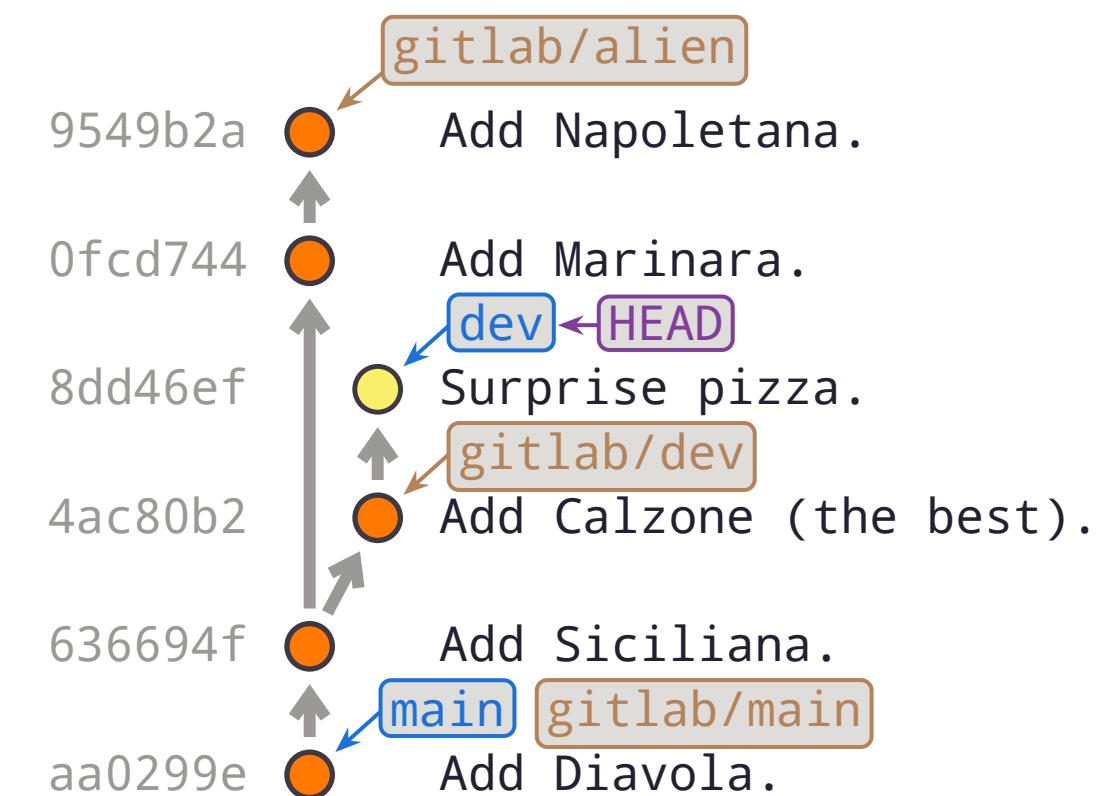
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

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

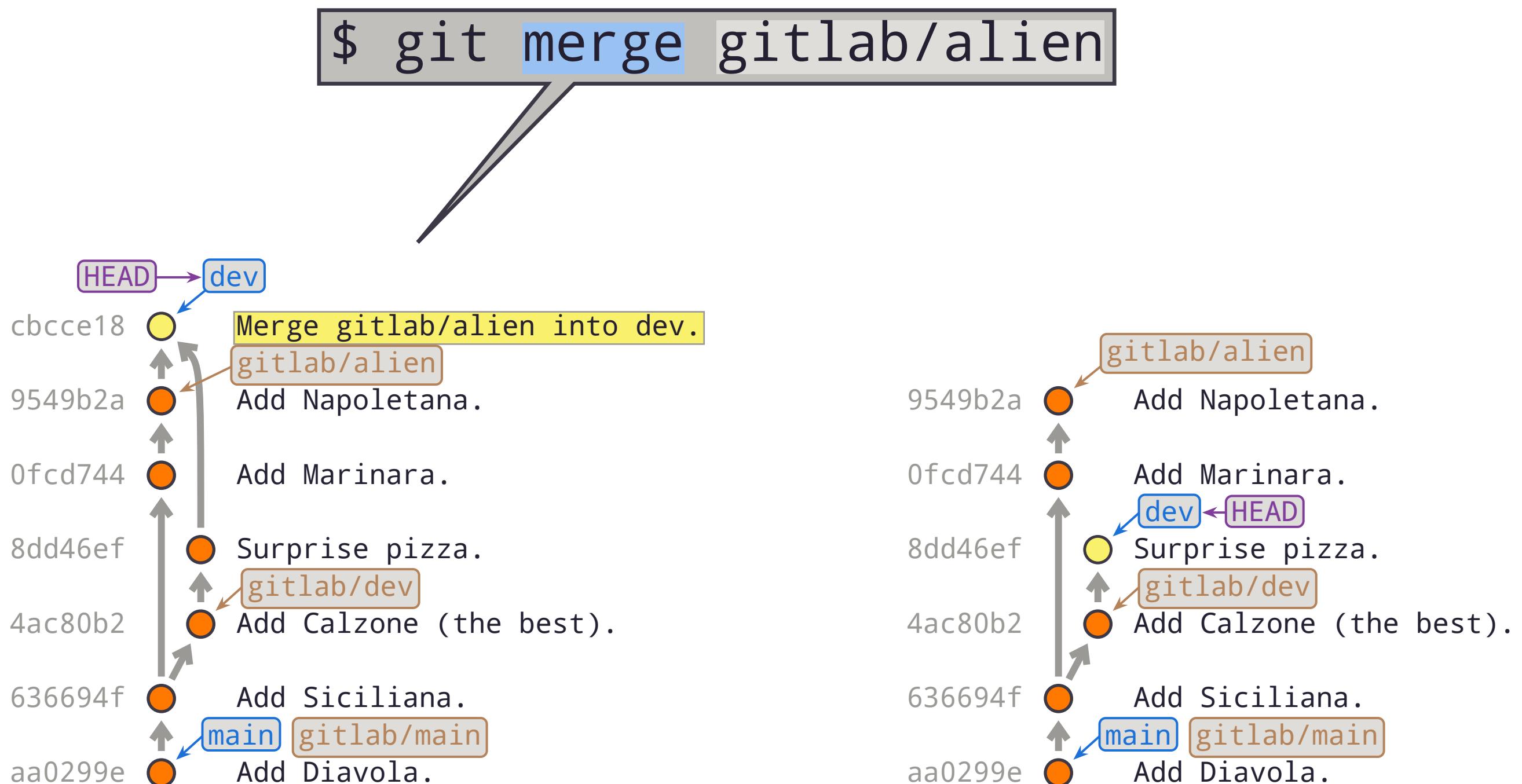


# Merge and Rebase

Two Git Philosophies

## Merge strategy

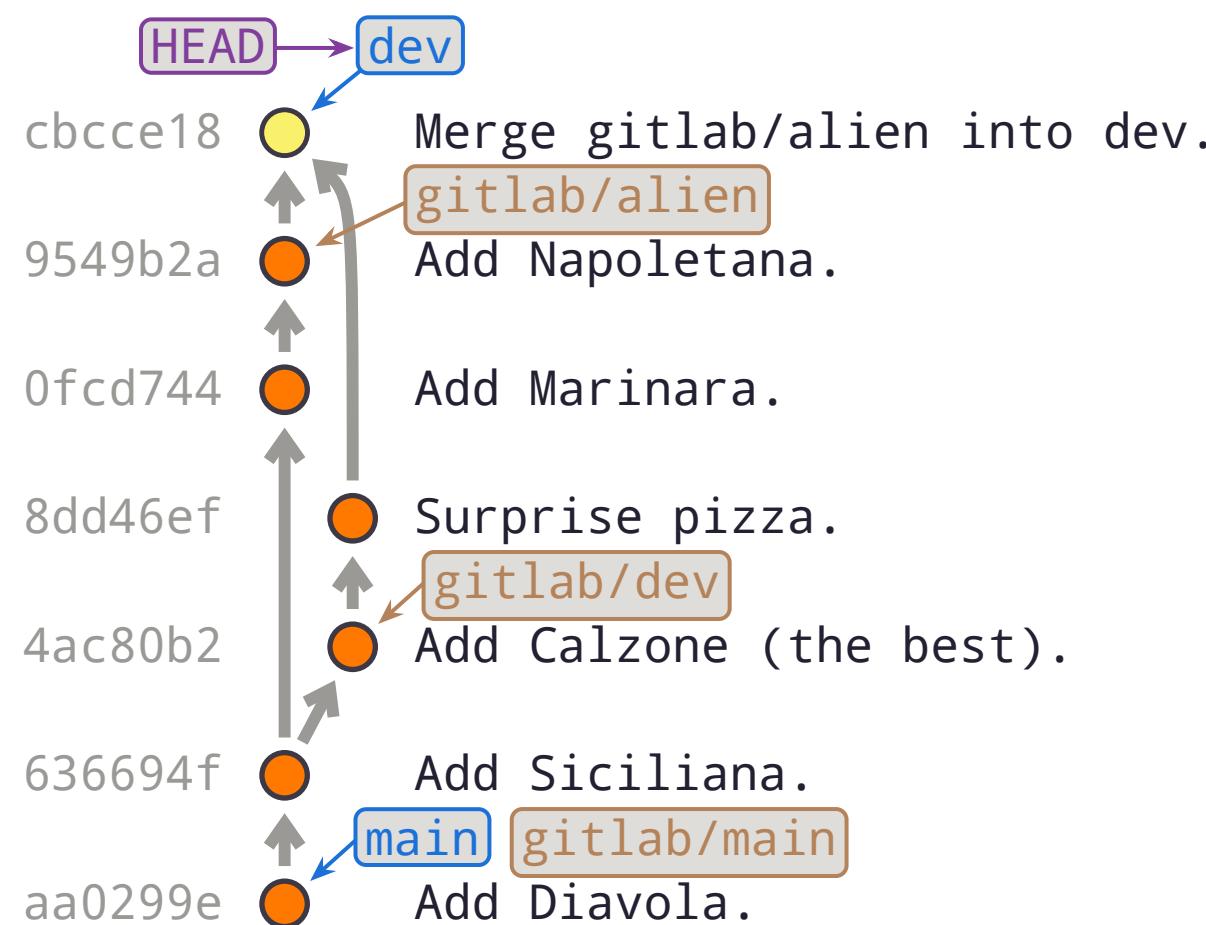
## Rebase strategy



# Merge and Rebase

## Two Git Philosophies

### Merge strategy



### Rebase strategy

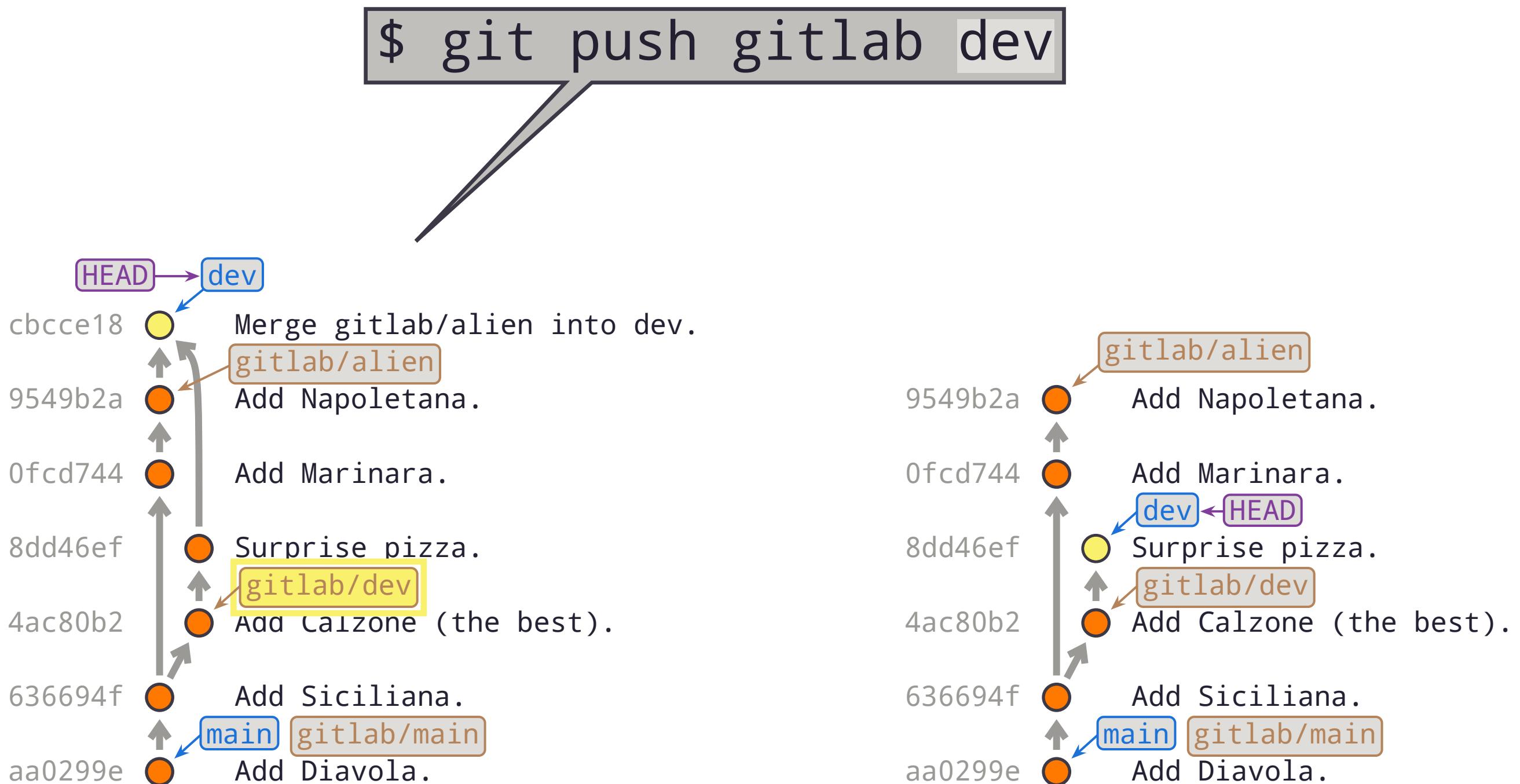


# Merge and Rebase

Two Git Philosophies

## Merge strategy

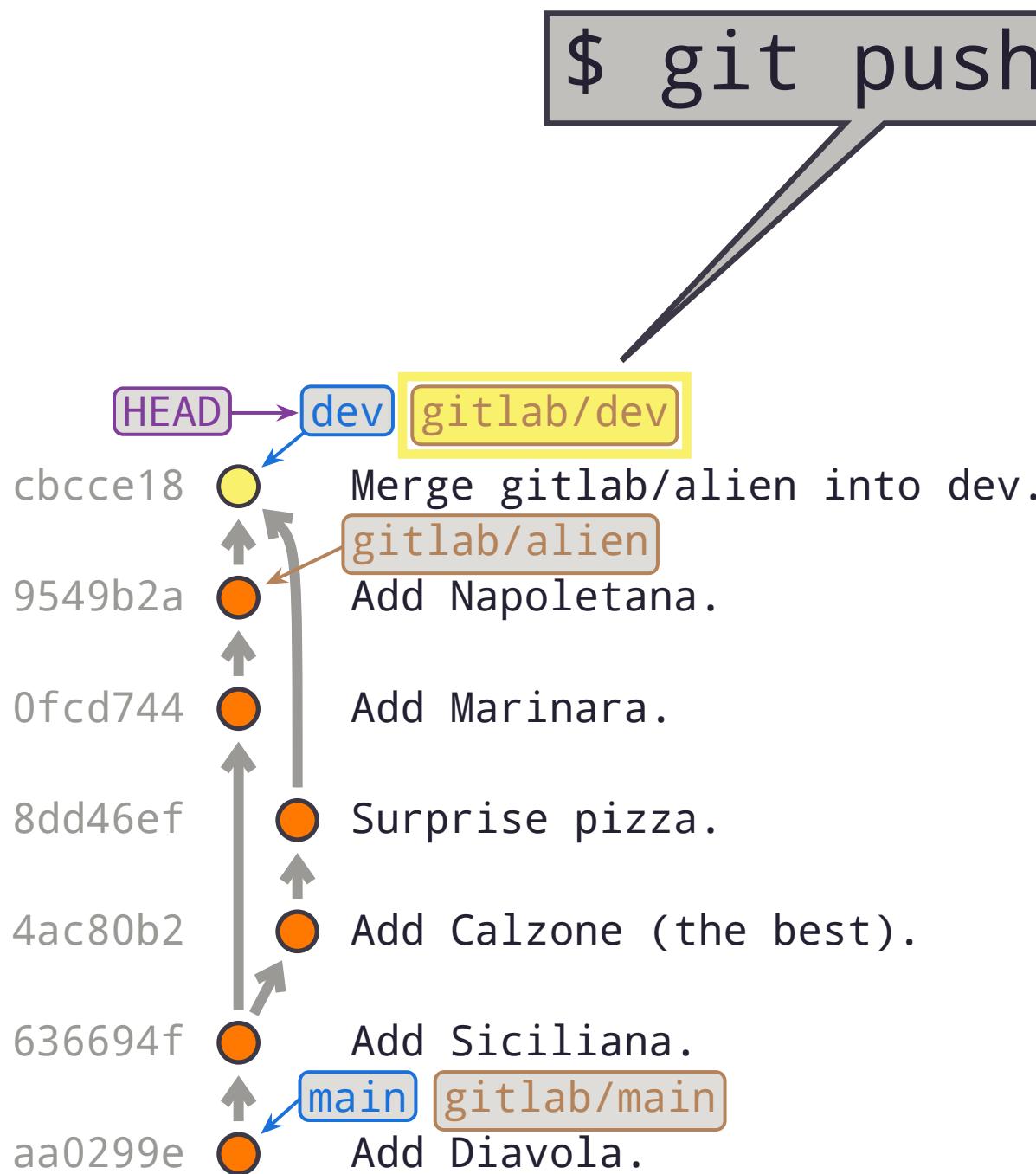
## Rebase strategy



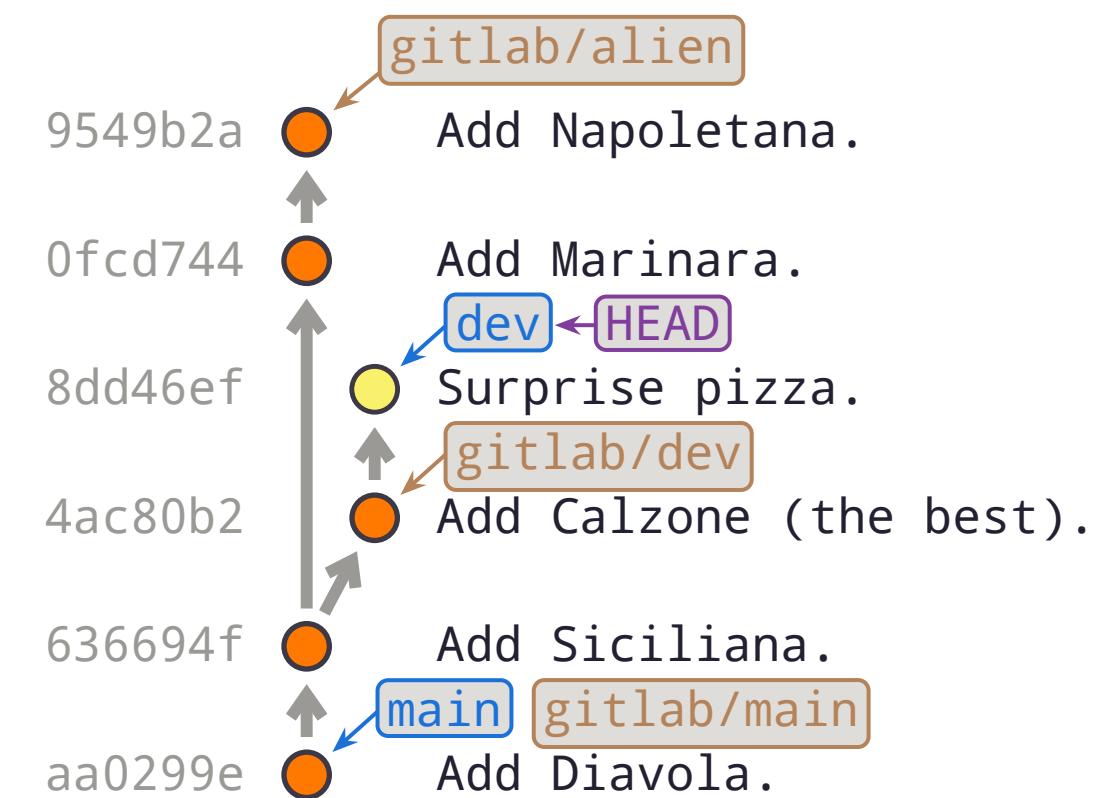
# Merge and Rebase

Two Git Philosophies

## Merge strategy



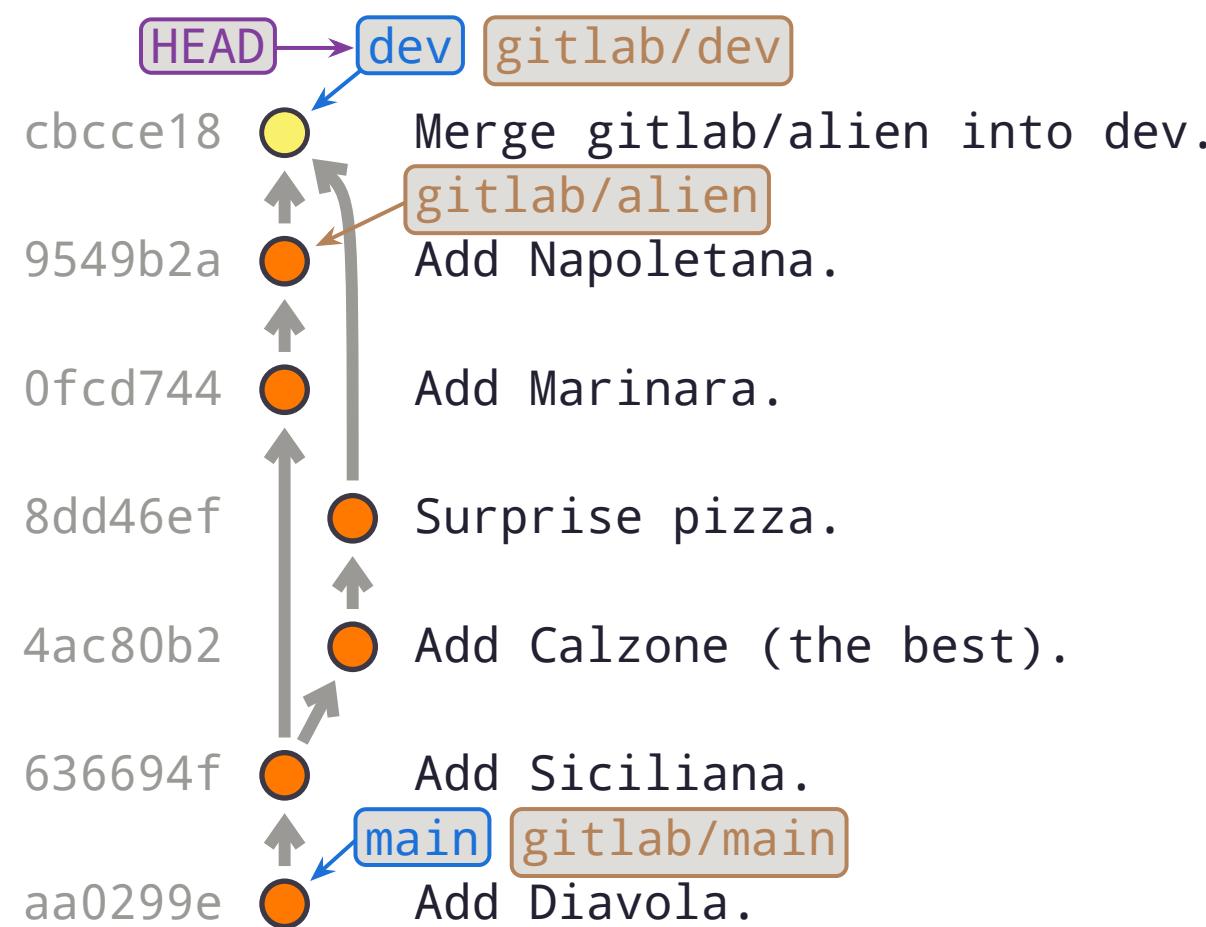
## Rebase strategy



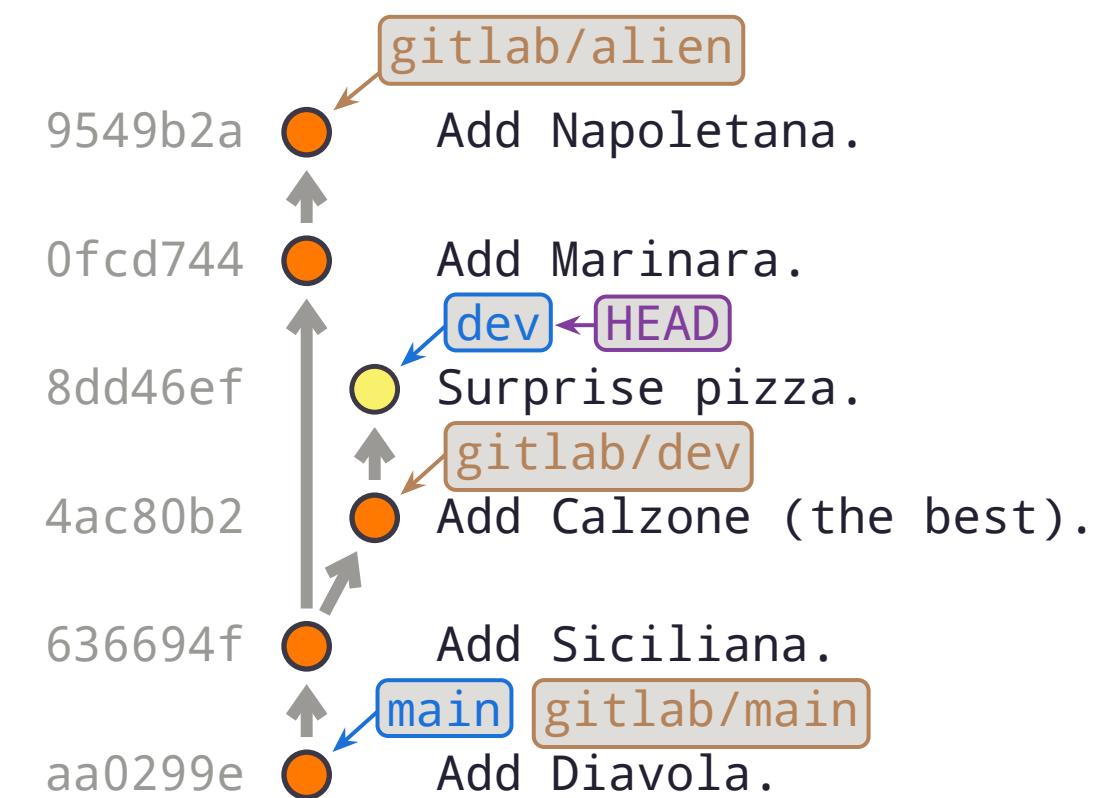
# Merge and Rebase

## Two Git Philosophies

### Merge strategy



### Rebase strategy



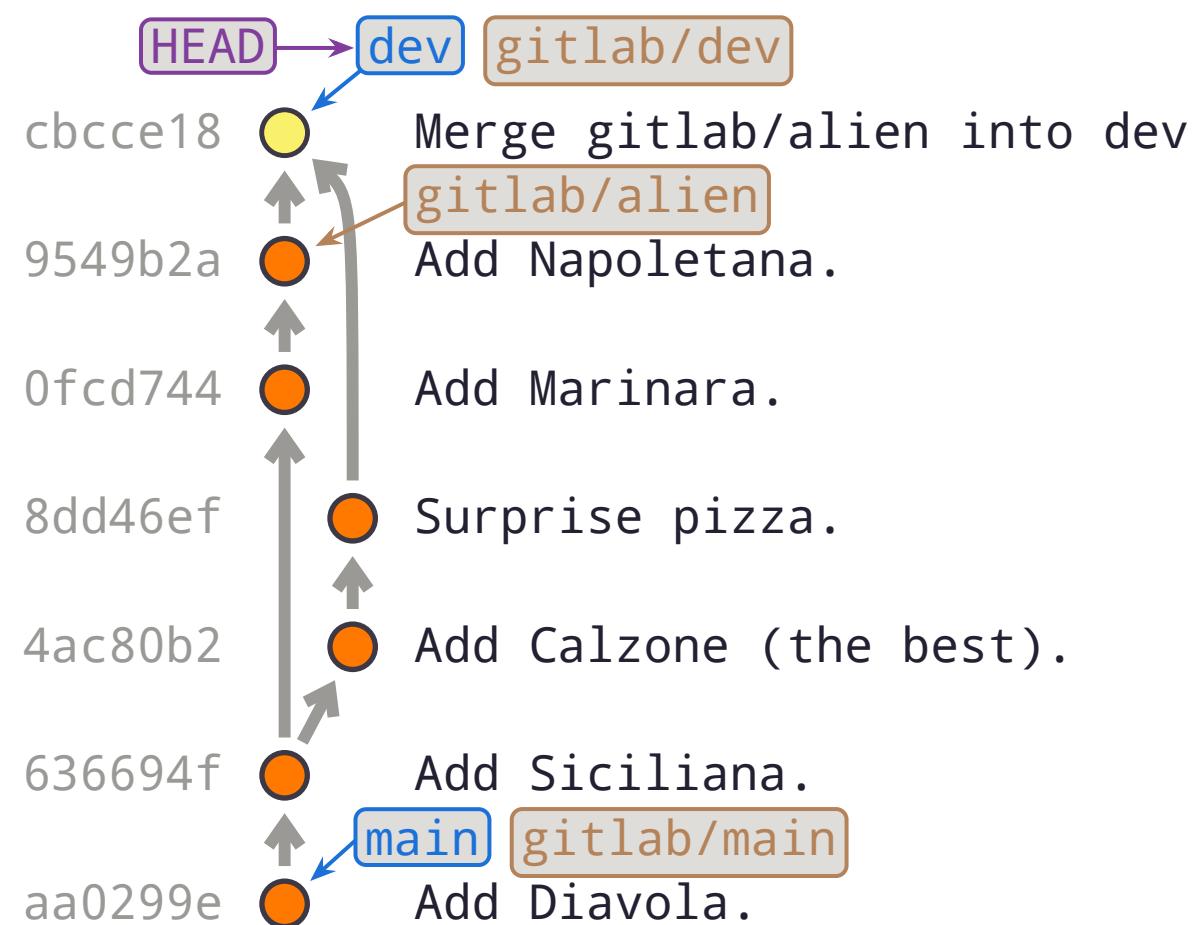
# Merge and Rebase

## Two Git Philosophies

### Merge strategy

### Rebase strategy

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



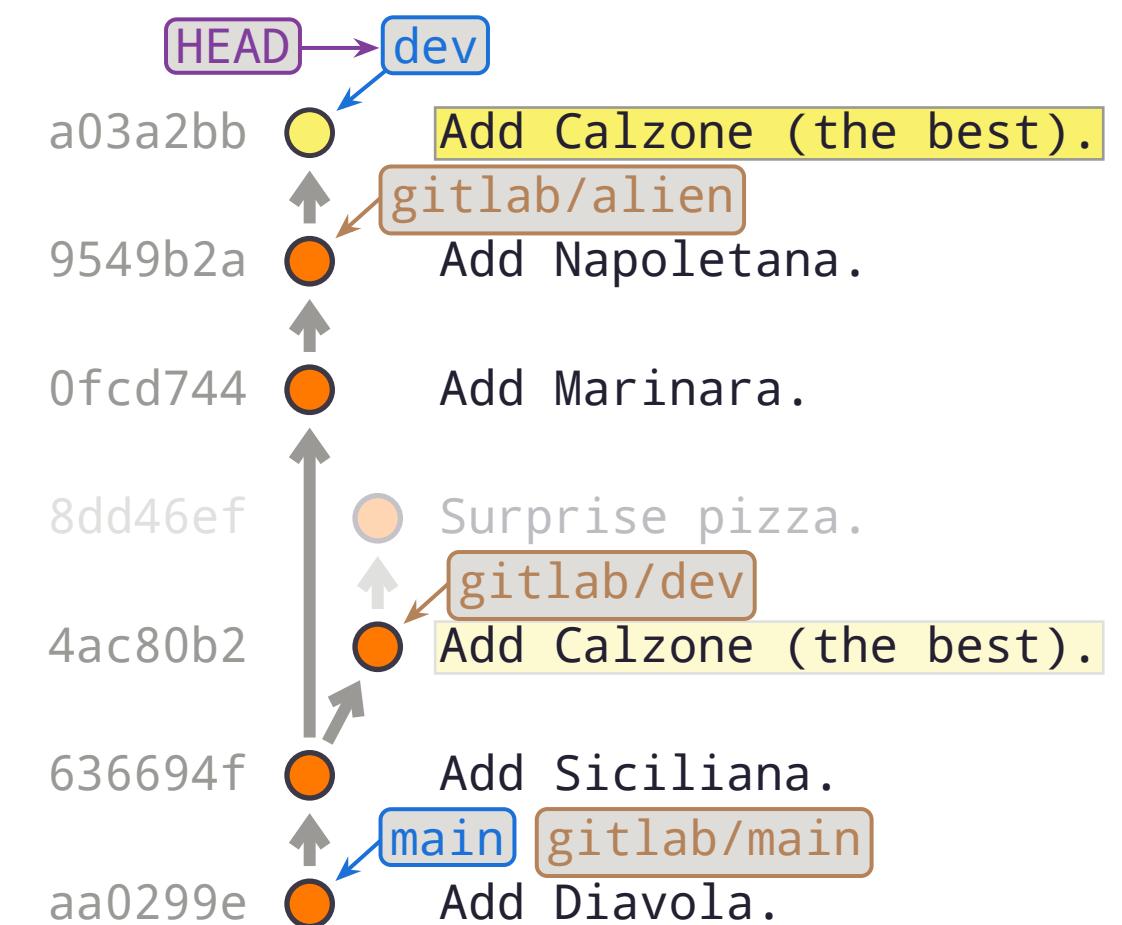
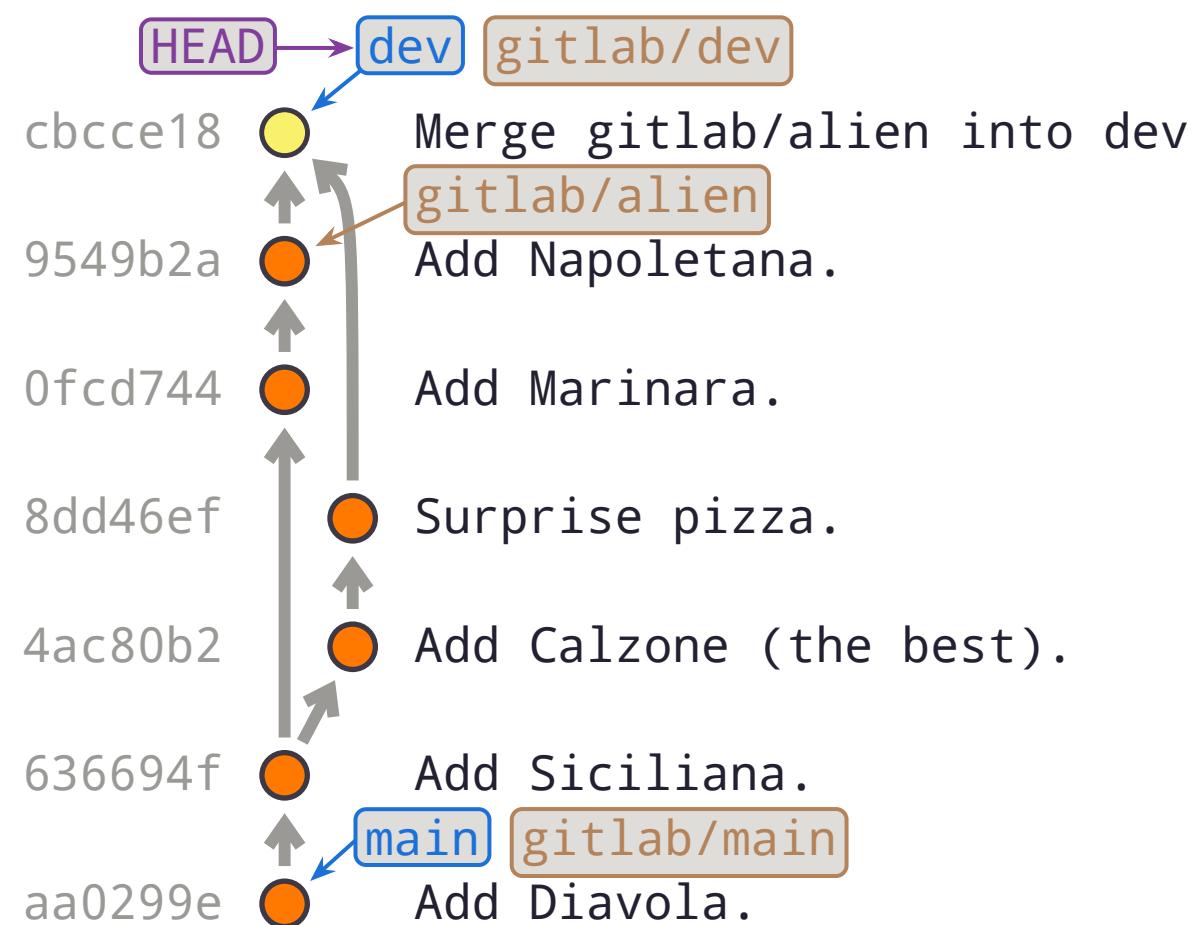
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

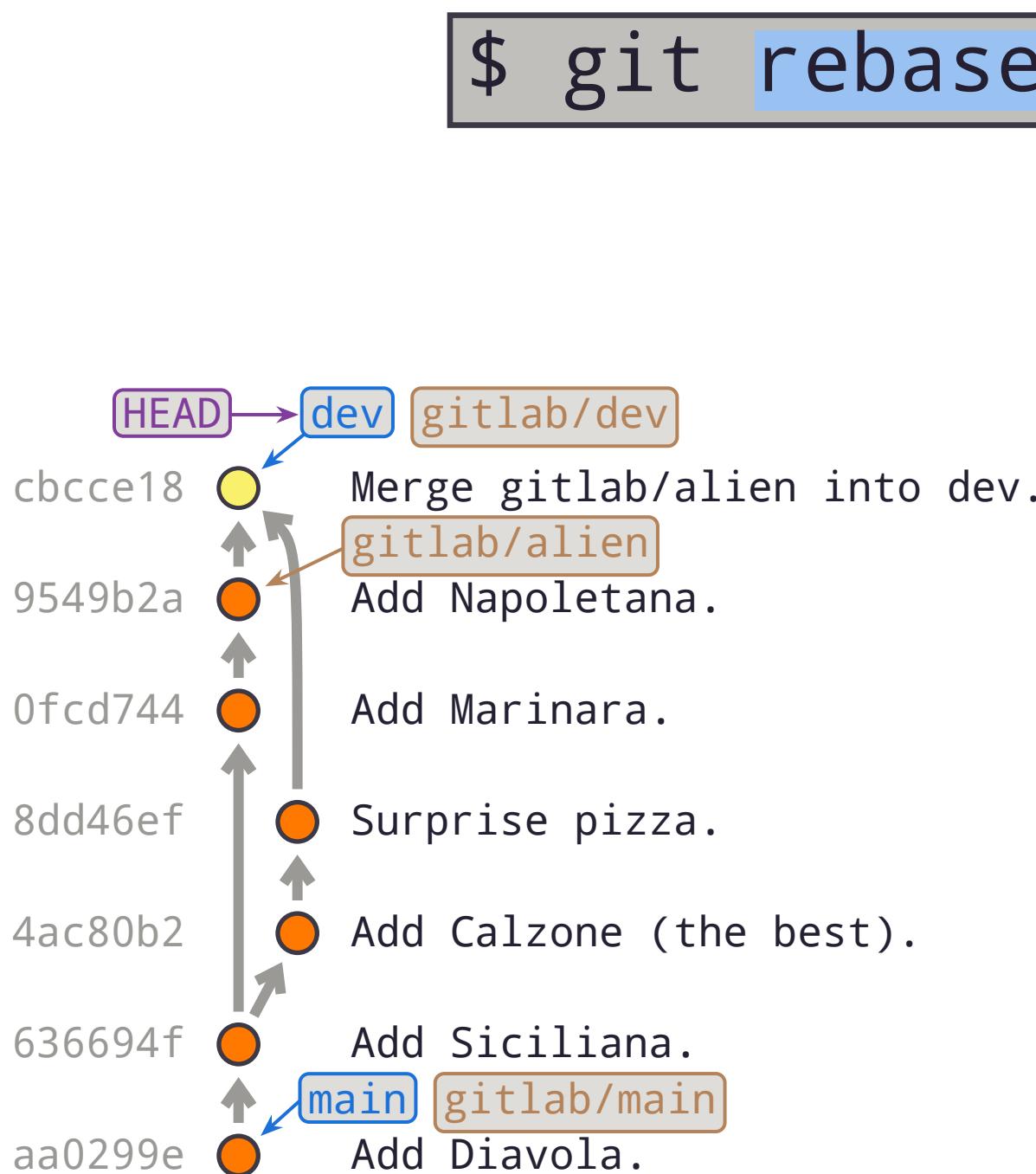
```
$ git rebase gitlab/alien
```



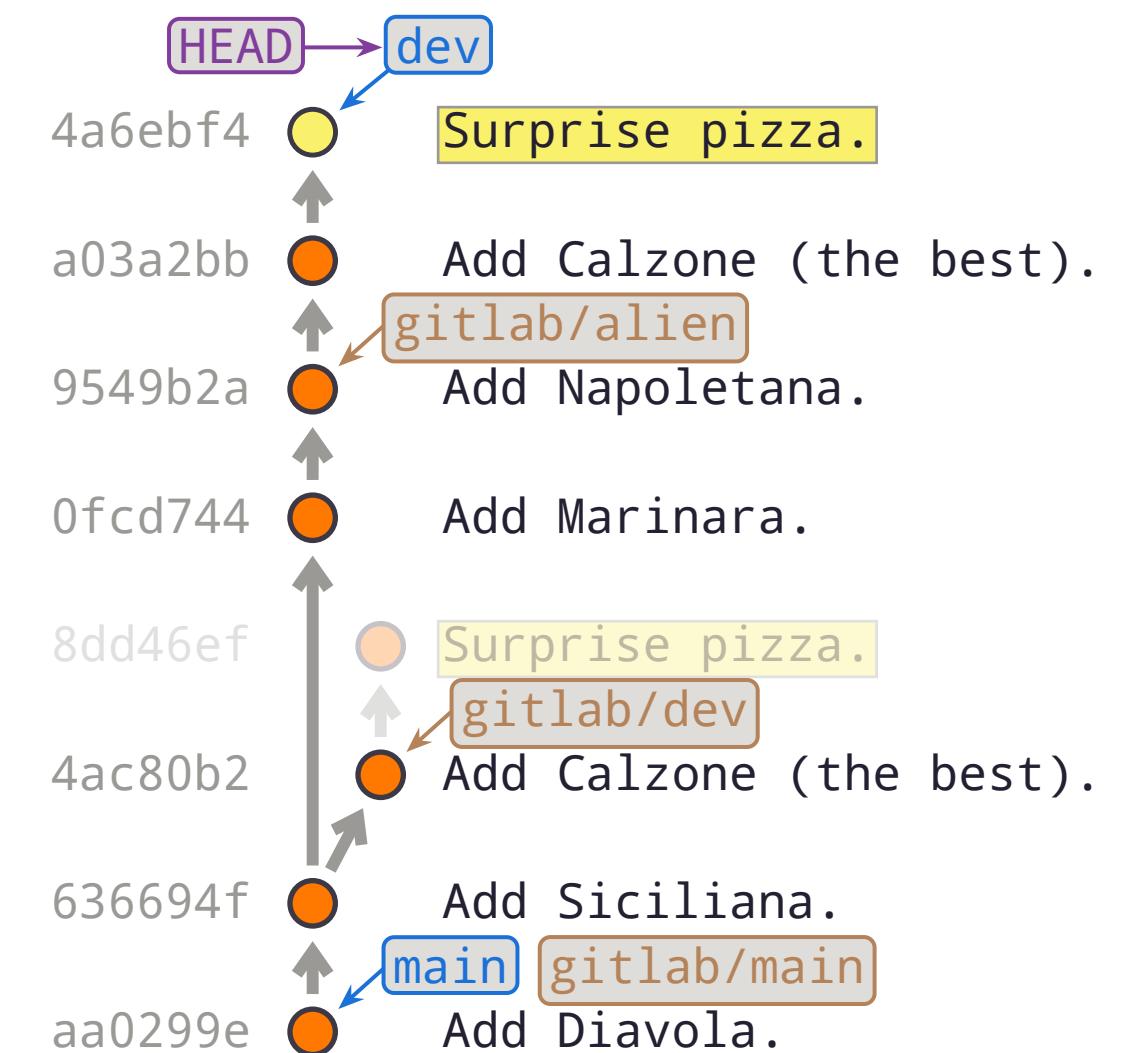
# Merge and Rebase

Two Git Philosophies

## Merge strategy



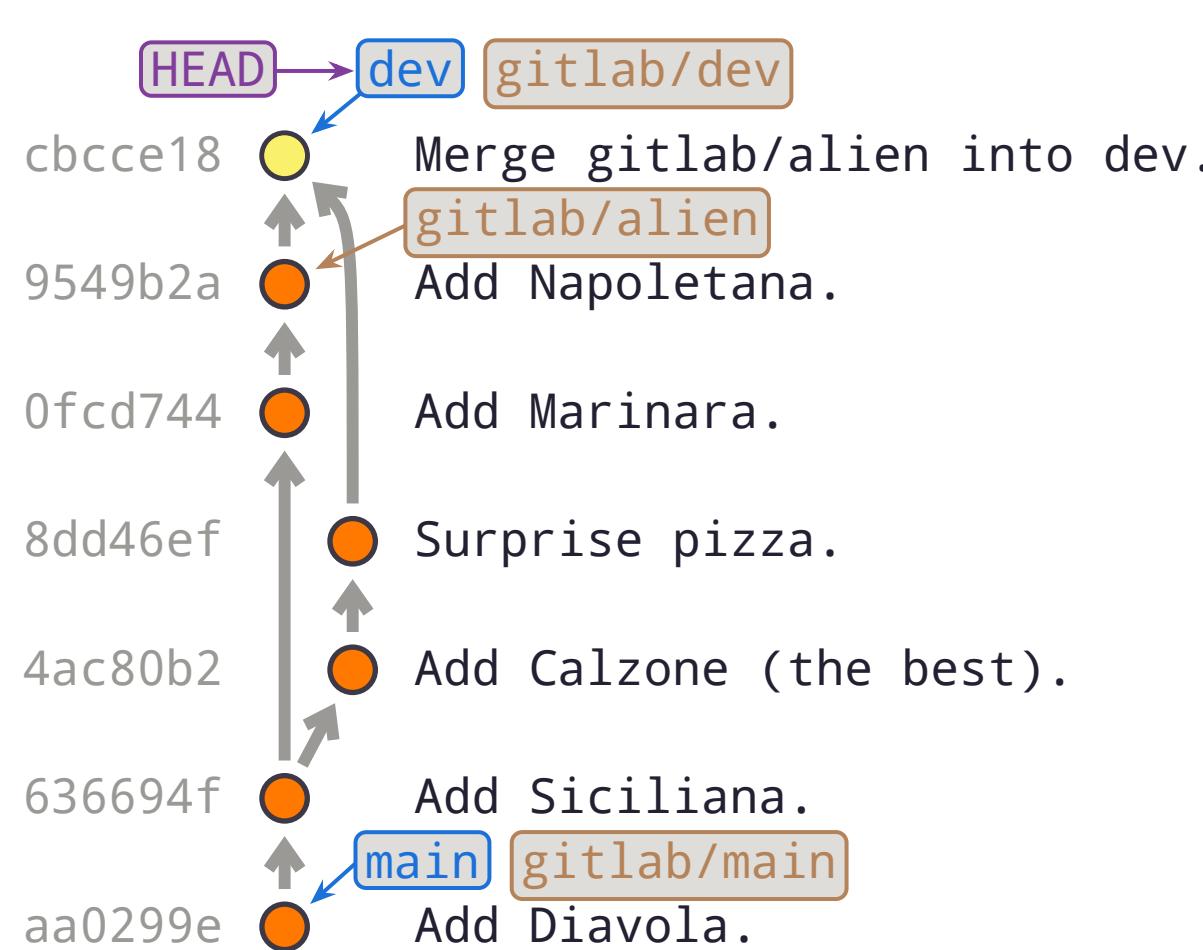
## Rebase strategy



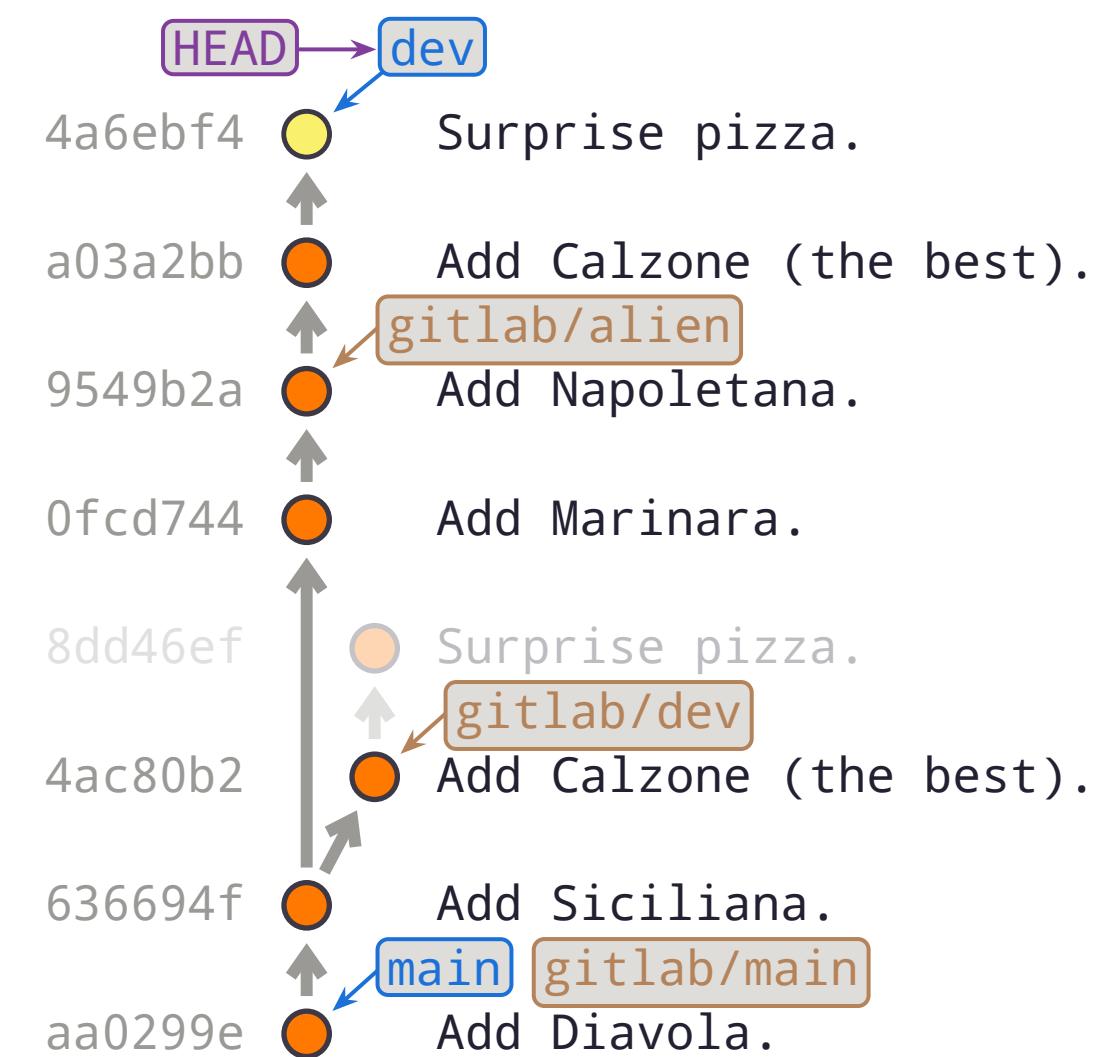
# Merge and Rebase

Two Git Philosophies

## Merge strategy



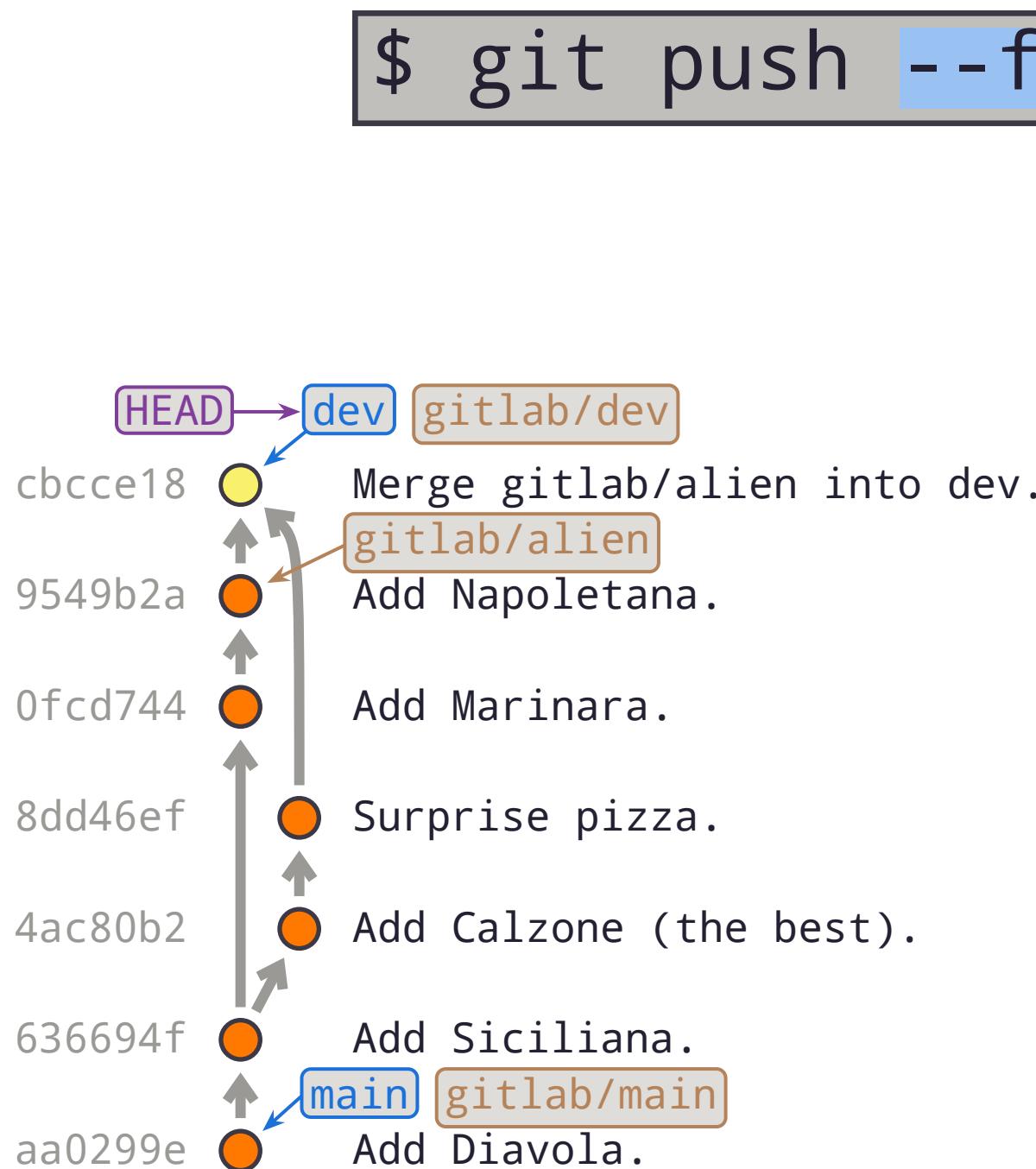
## Rebase strategy



# Merge and Rebase

Two Git Philosophies

## Merge strategy



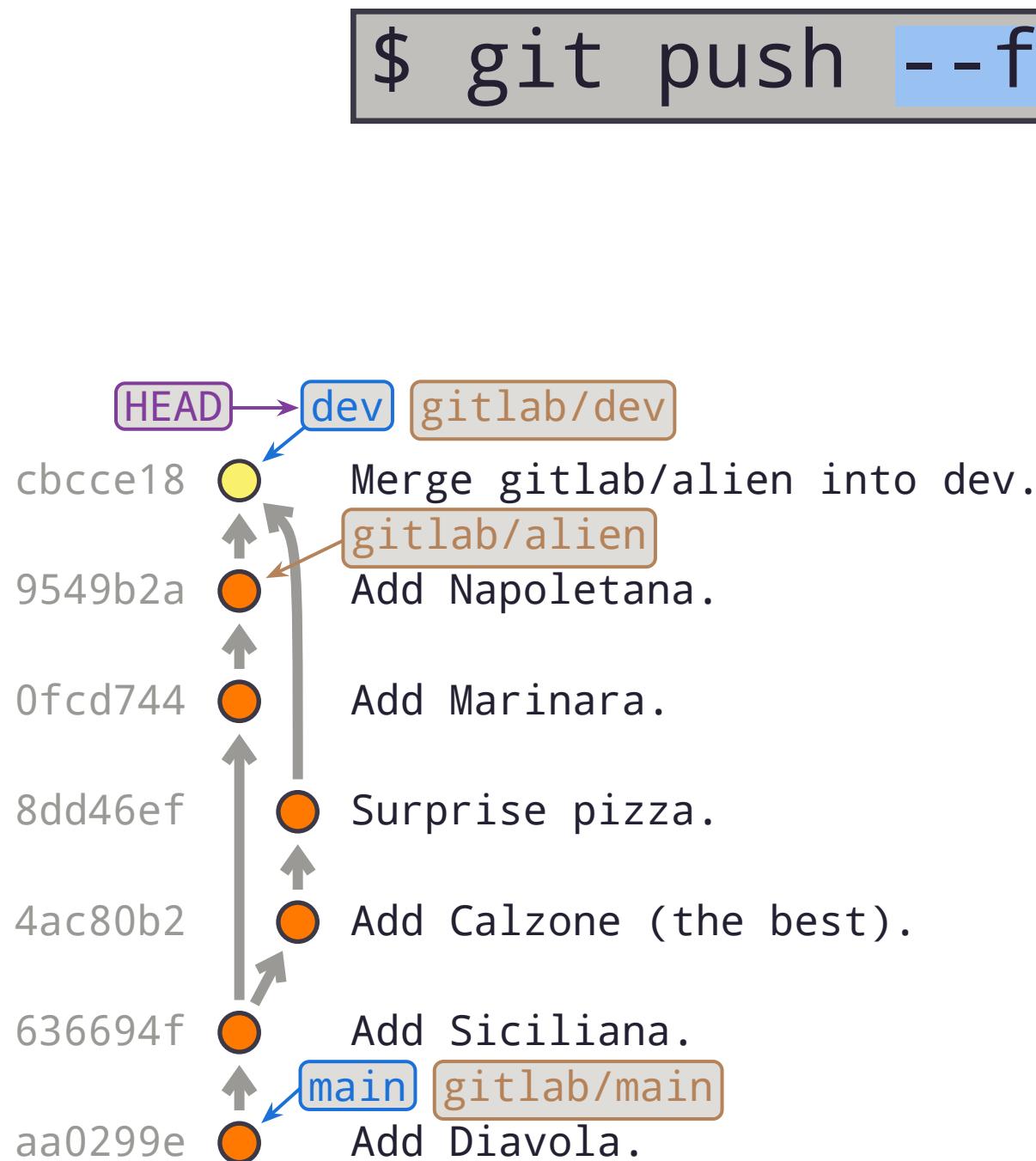
## Rebase strategy



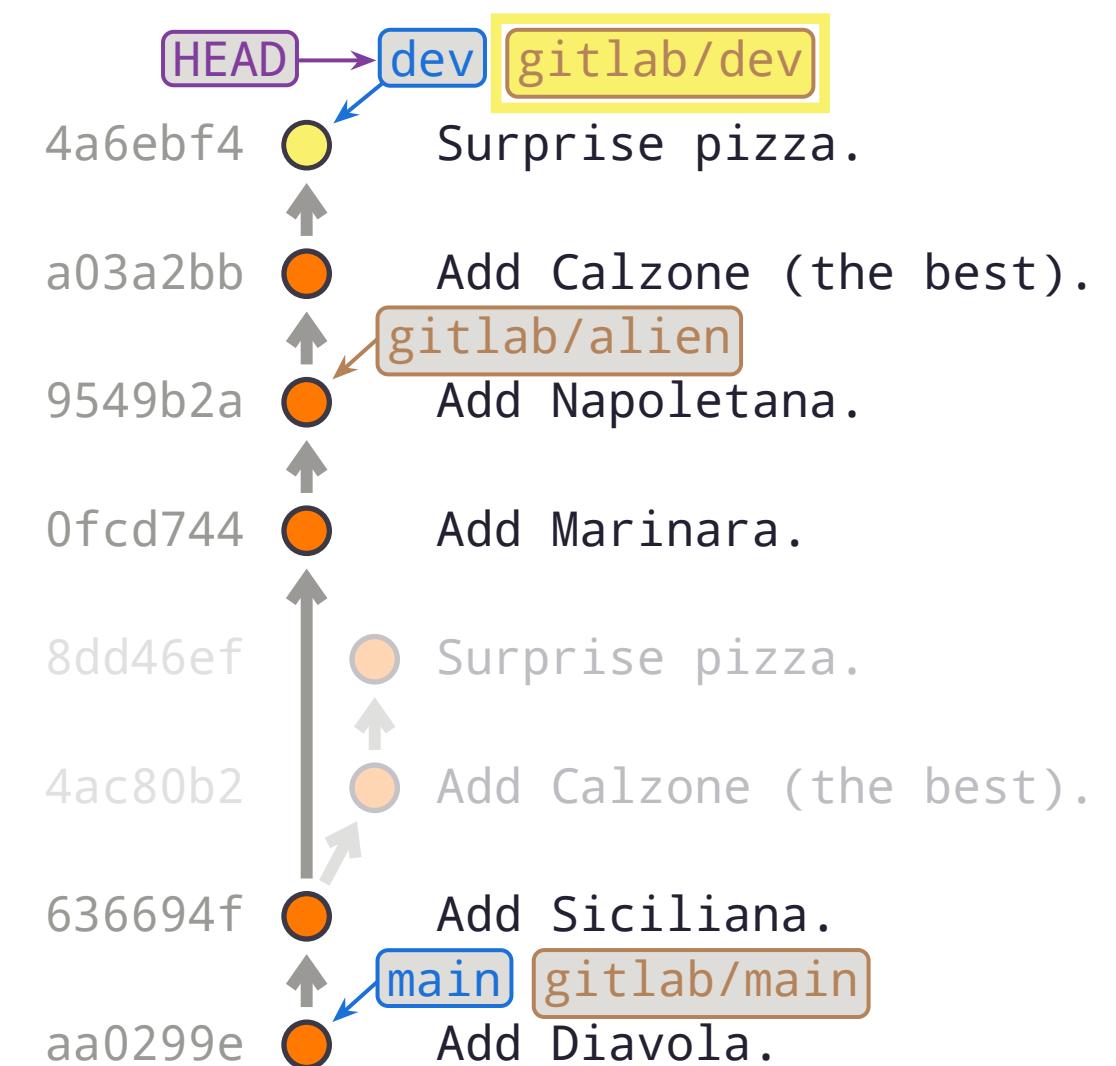
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



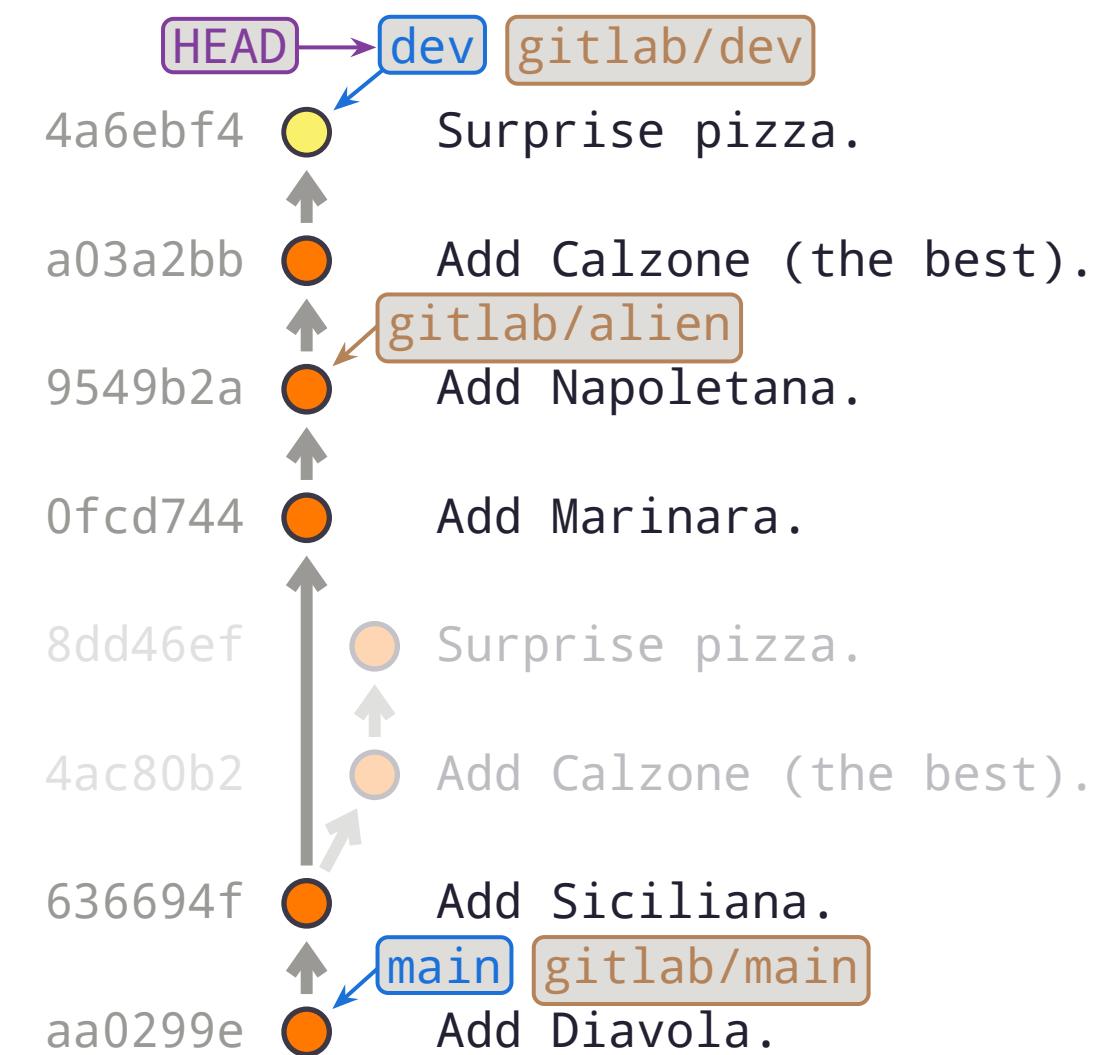
# Merge and Rebase

Two Git Philosophies

## Merge strategy



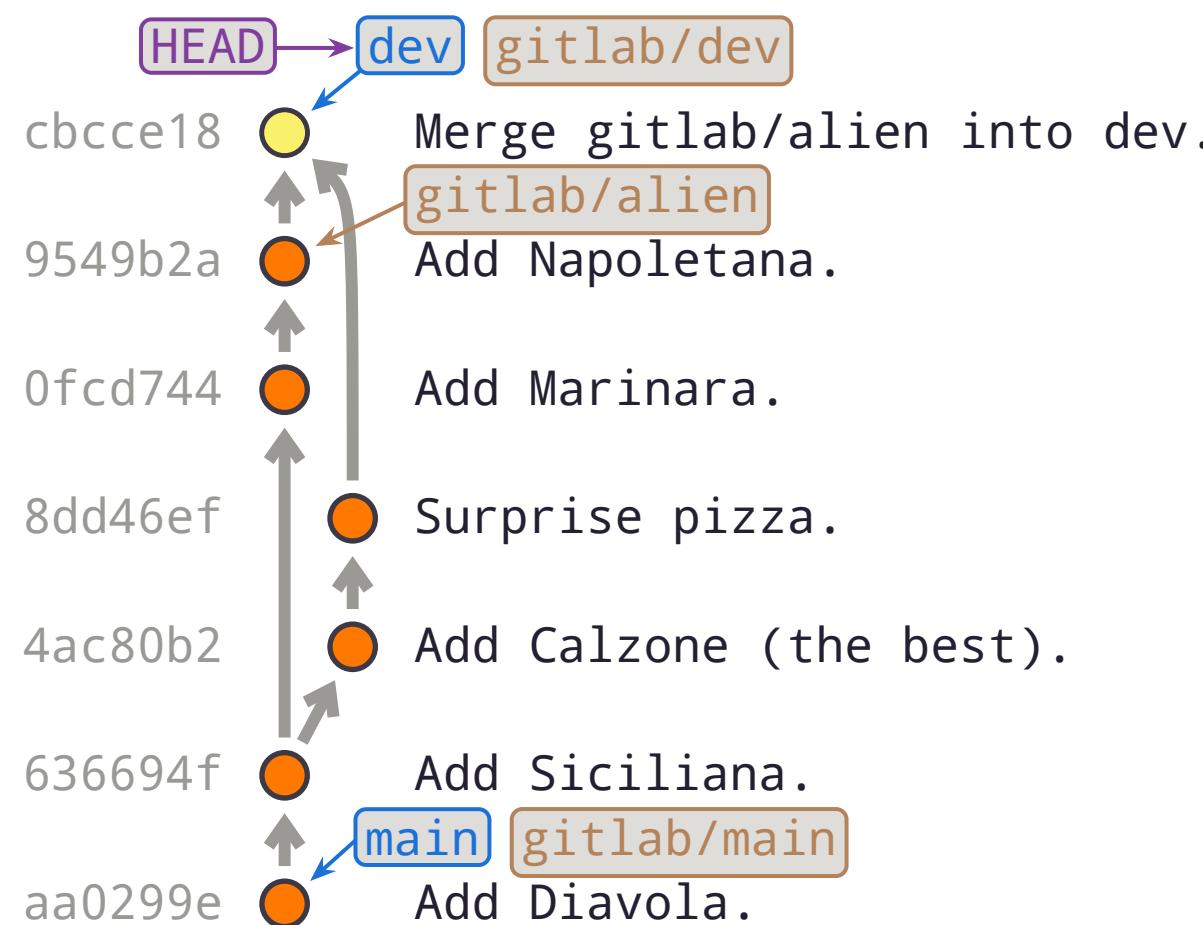
## Rebase strategy



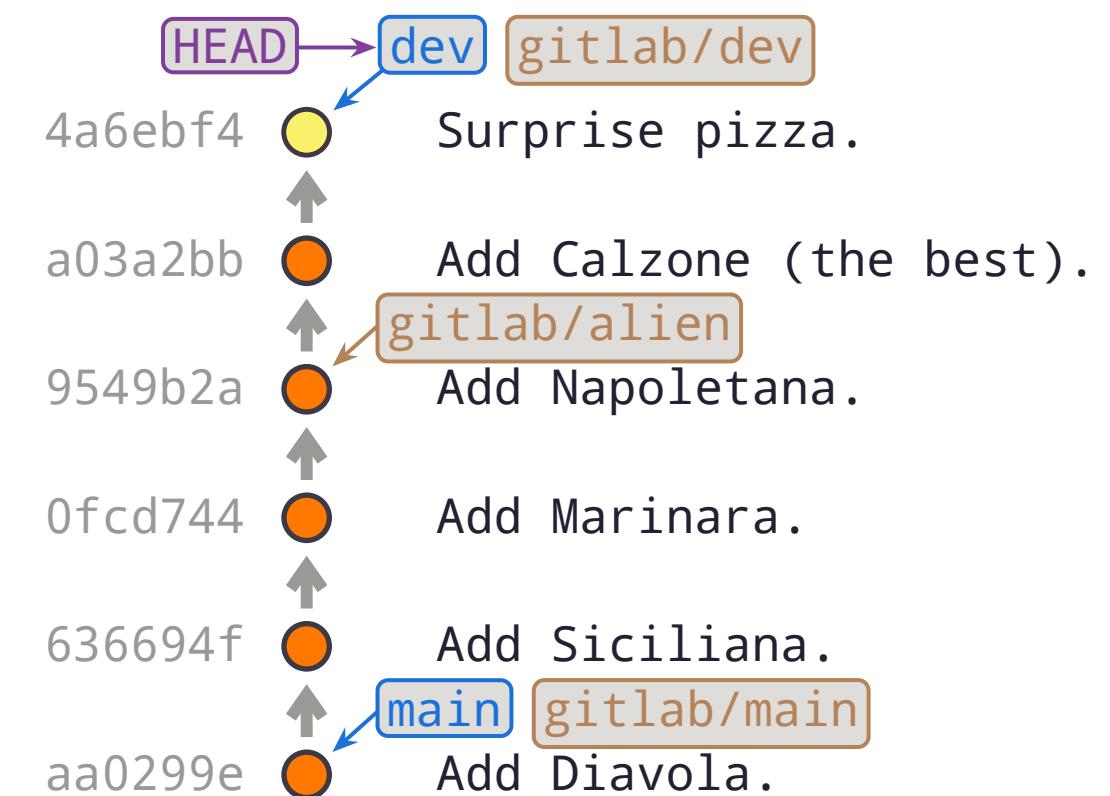
# Merge and Rebase

Two Git Philosophies

## Merge strategy



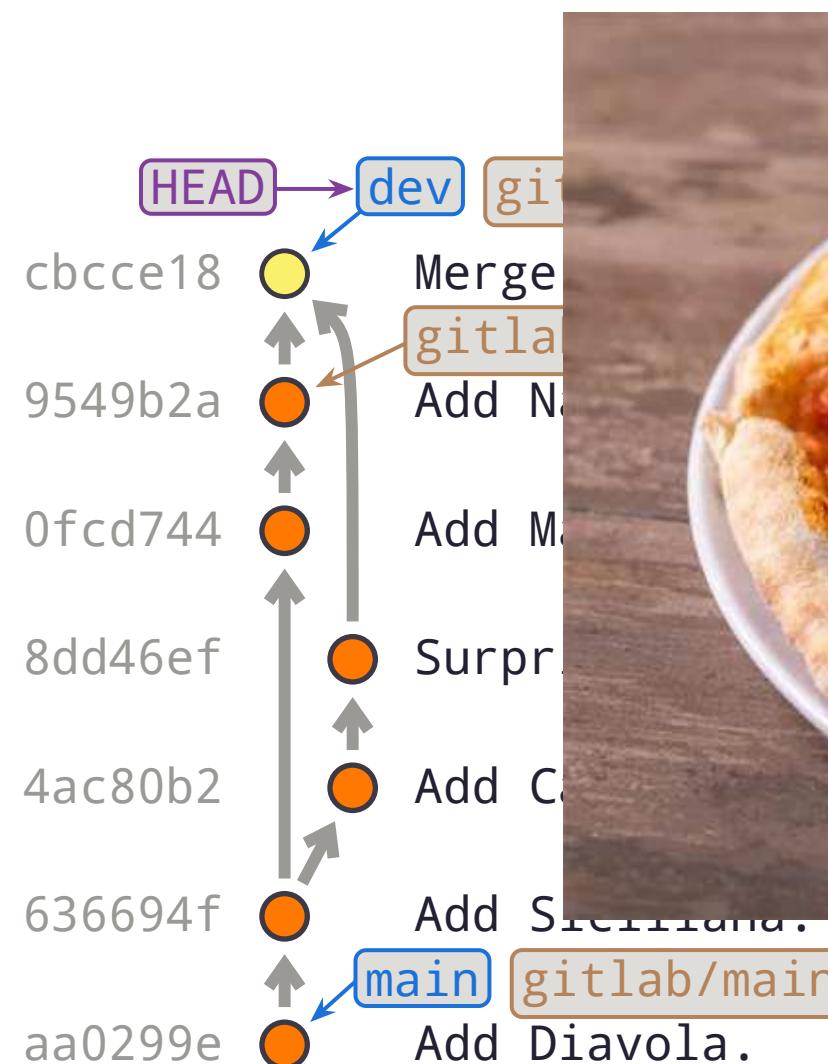
## Rebase strategy



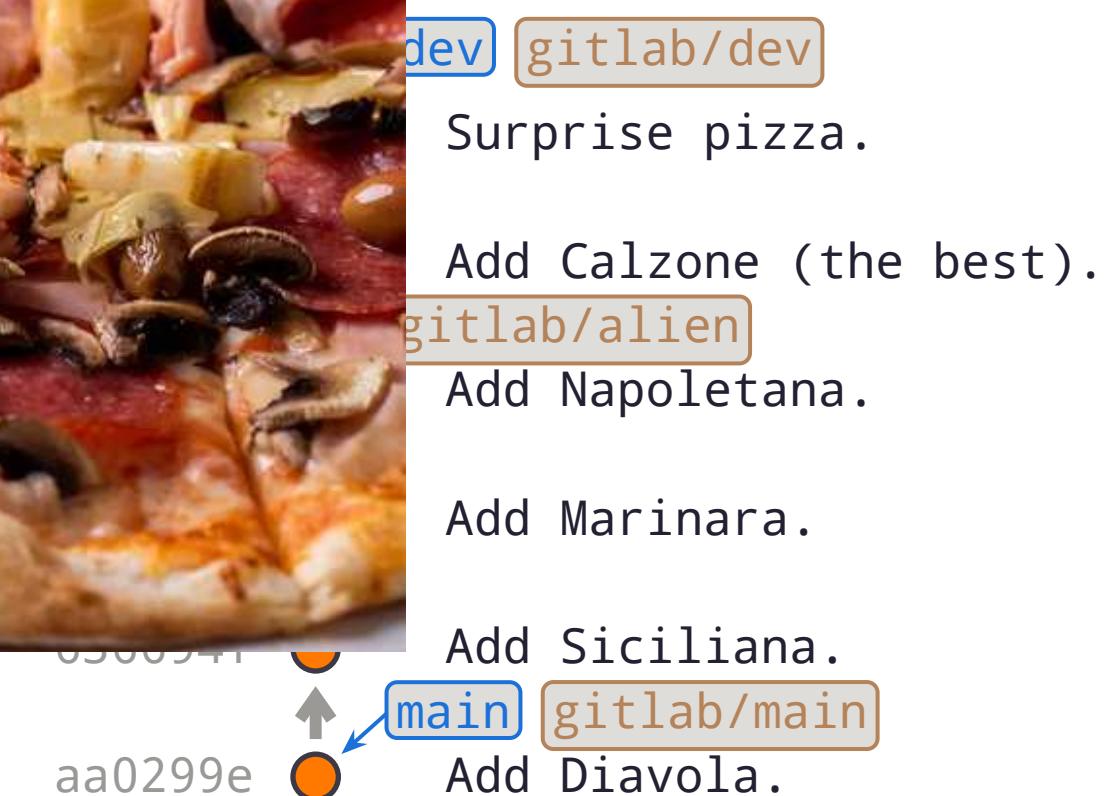
# Merge and Rebase

Two Git Philosophies

## Merge strategy



## Rebase strategy



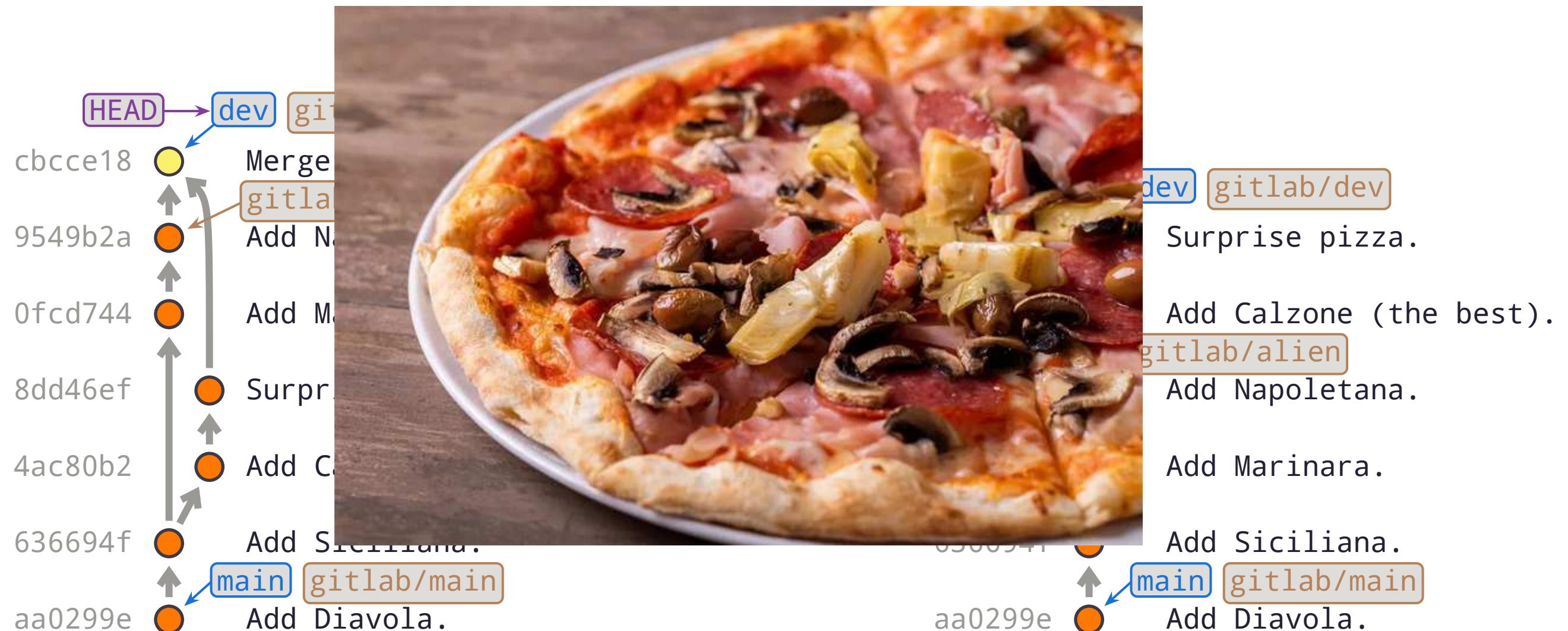
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

```
$ git commit
```



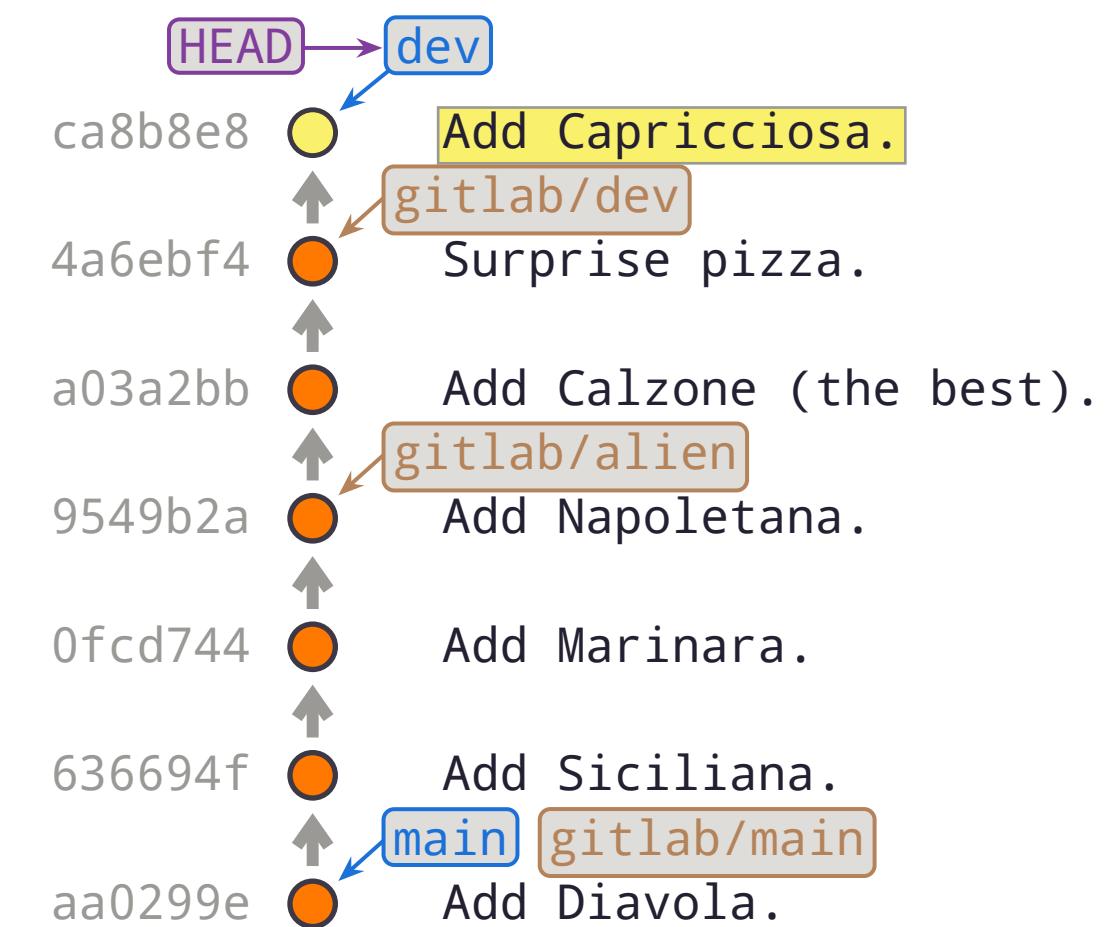
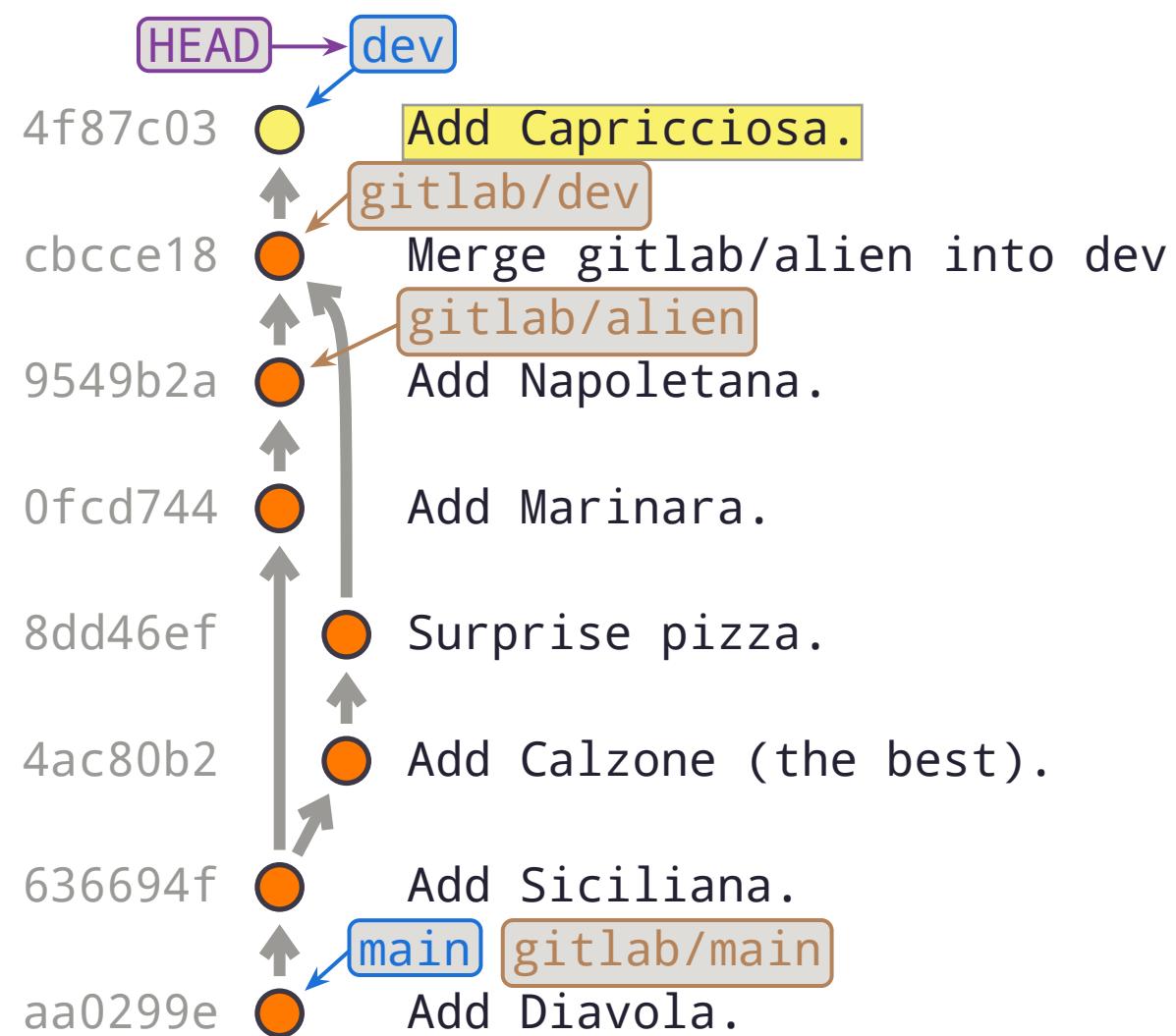
# Merge and Rebase

Two Git Philosophies

## Merge strategy

## Rebase strategy

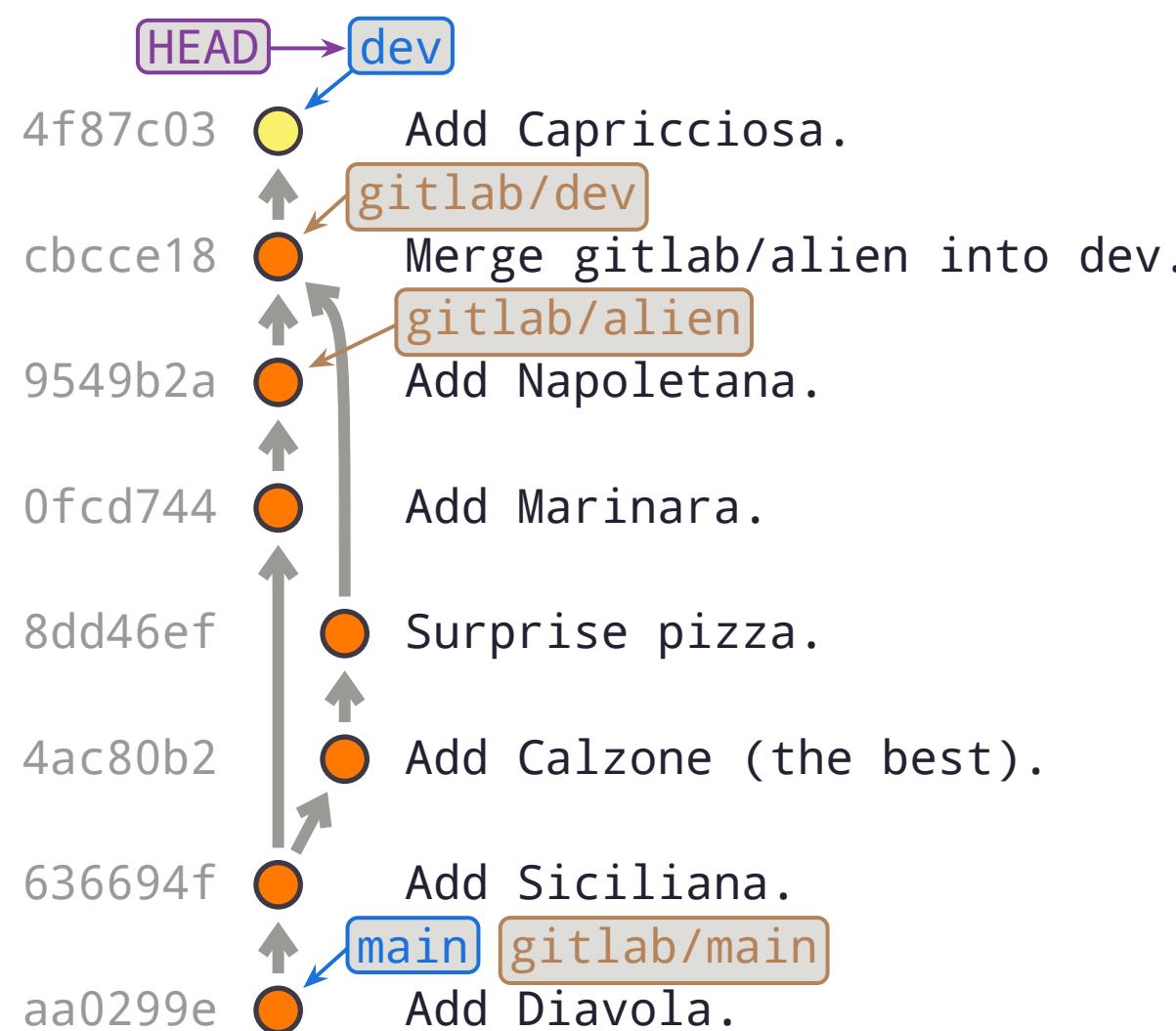
```
$ git commit
```



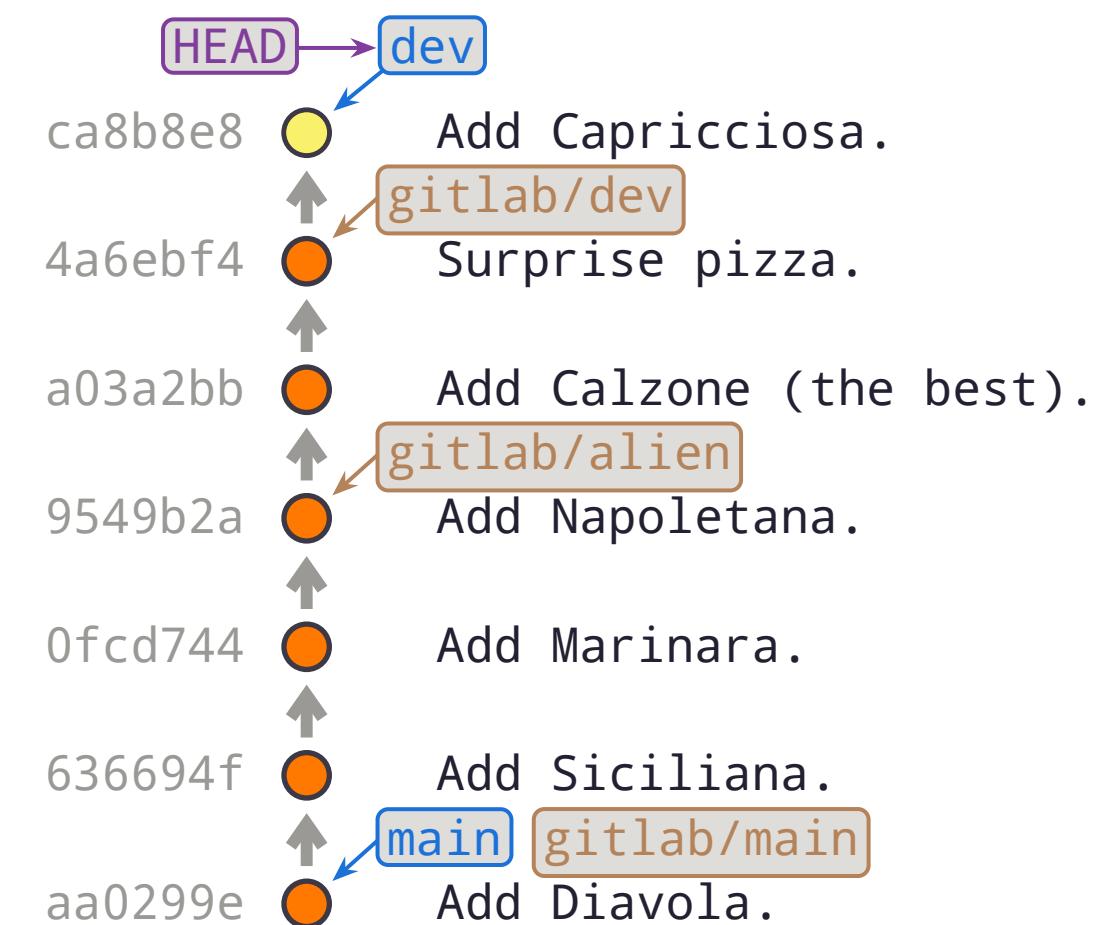
# Merge and Rebase

## Two Git Philosophies

### Merge strategy

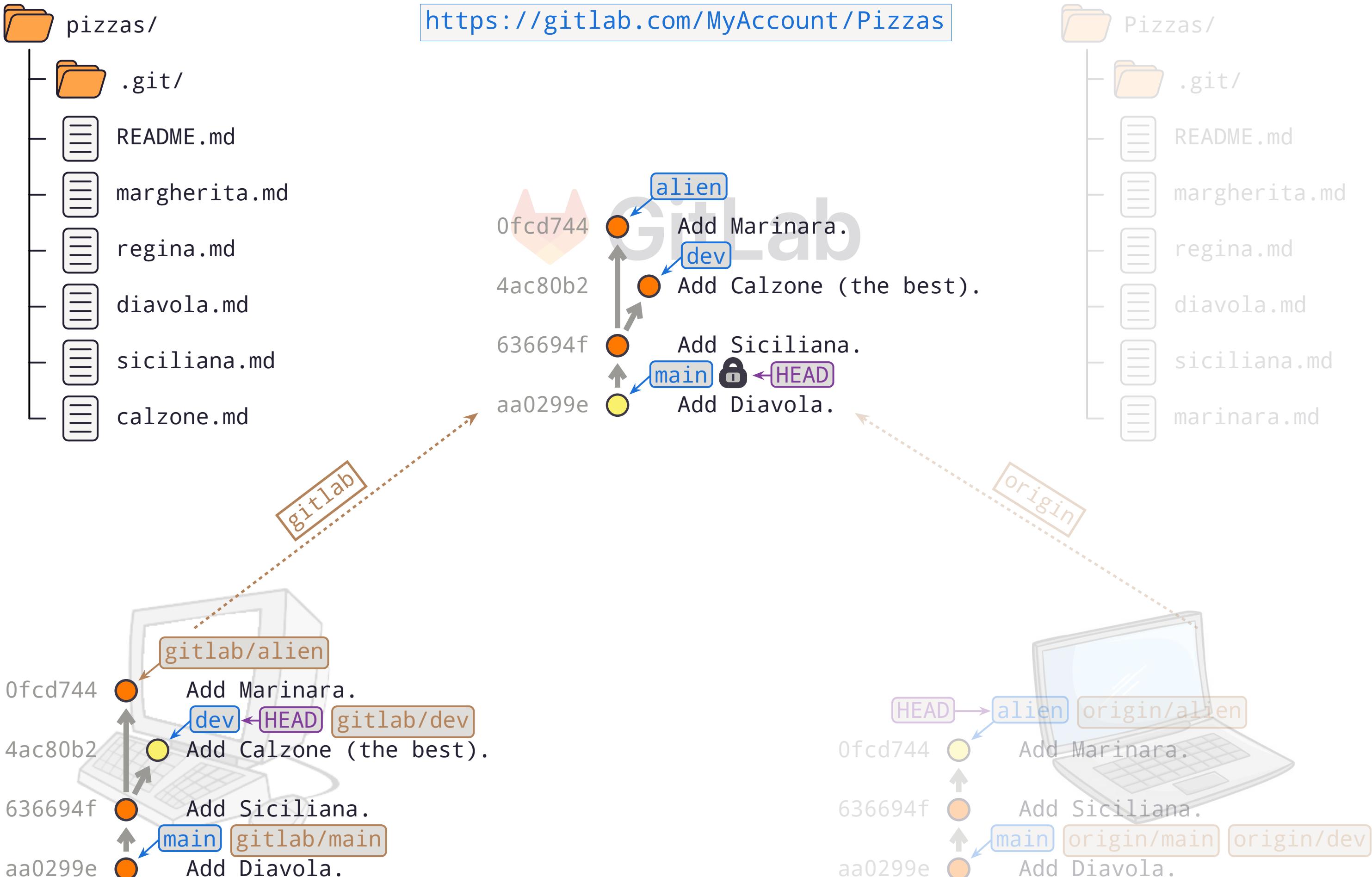


### Rebase strategy



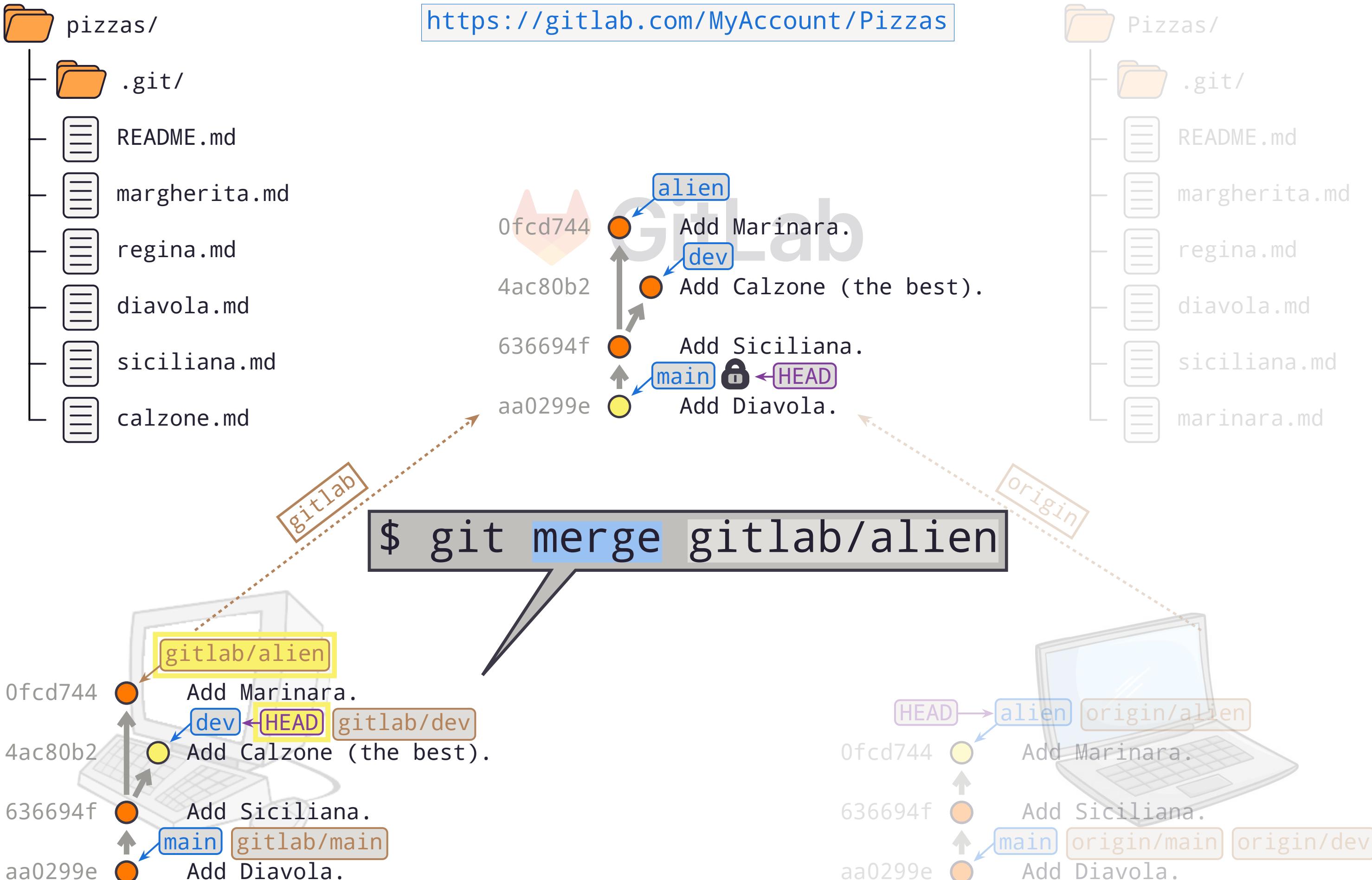
# Share integrated work

(Merge style)



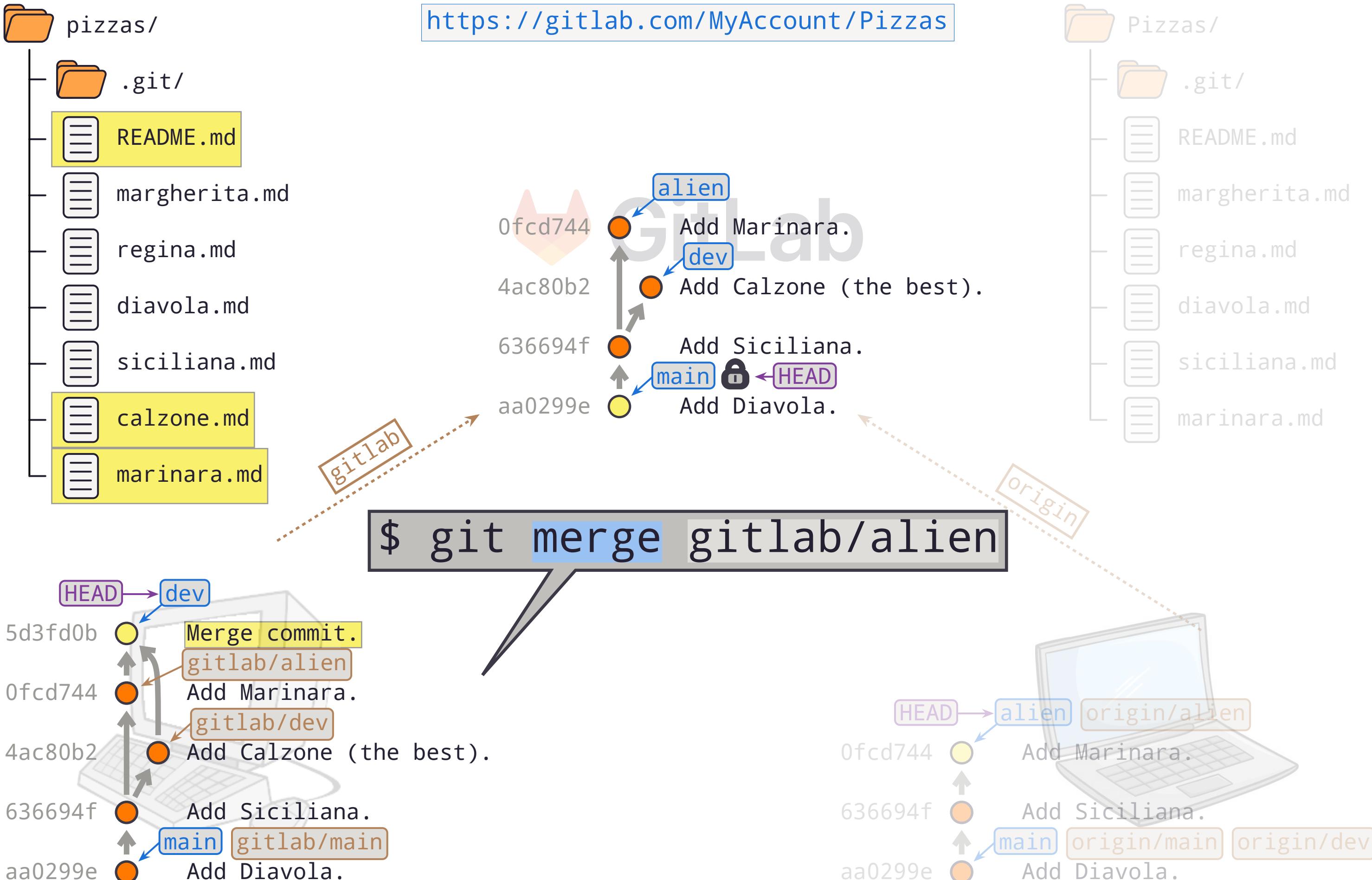
# Share integrated work

(Merge style)



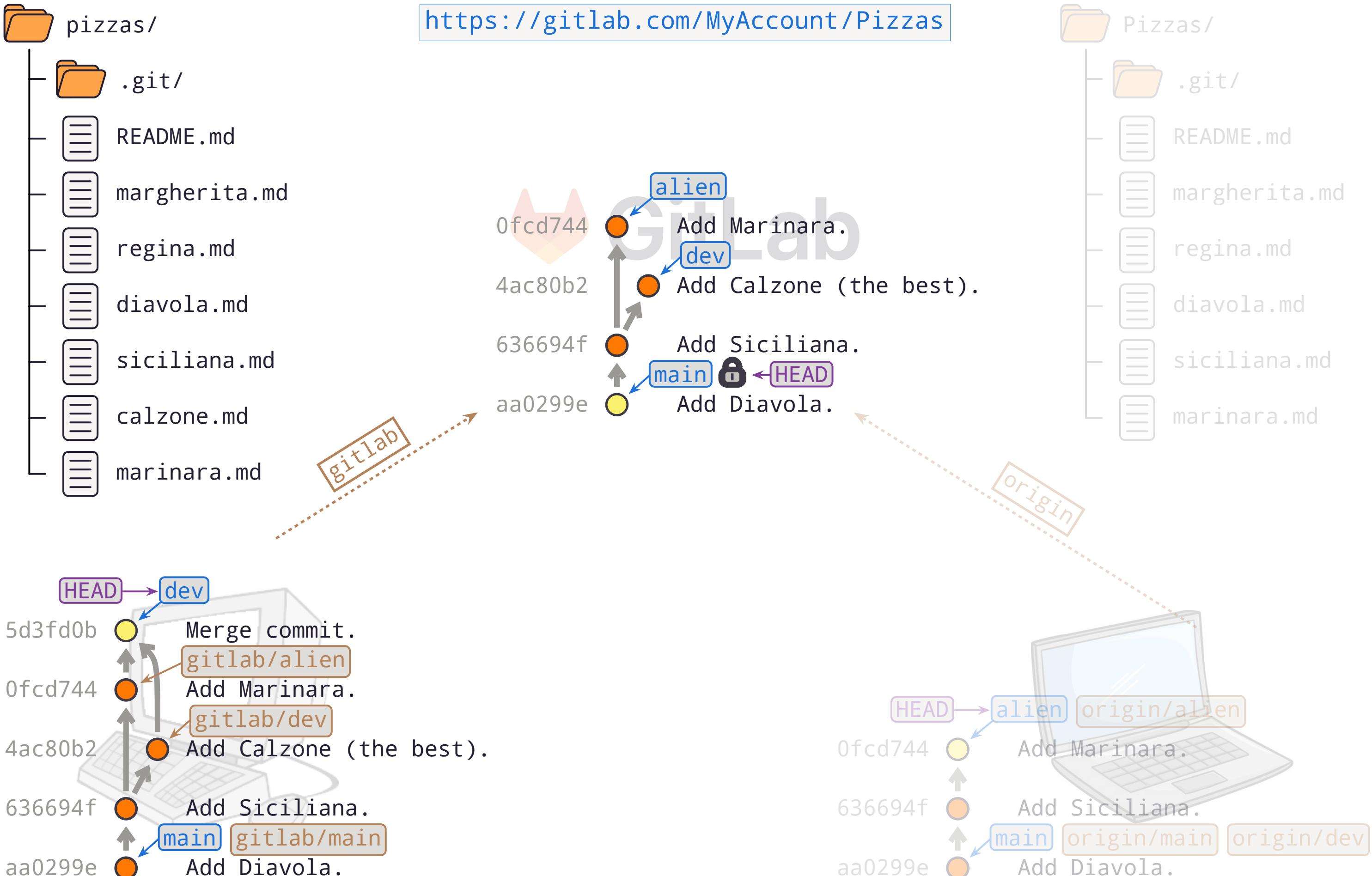
# Share integrated work

(Merge style)



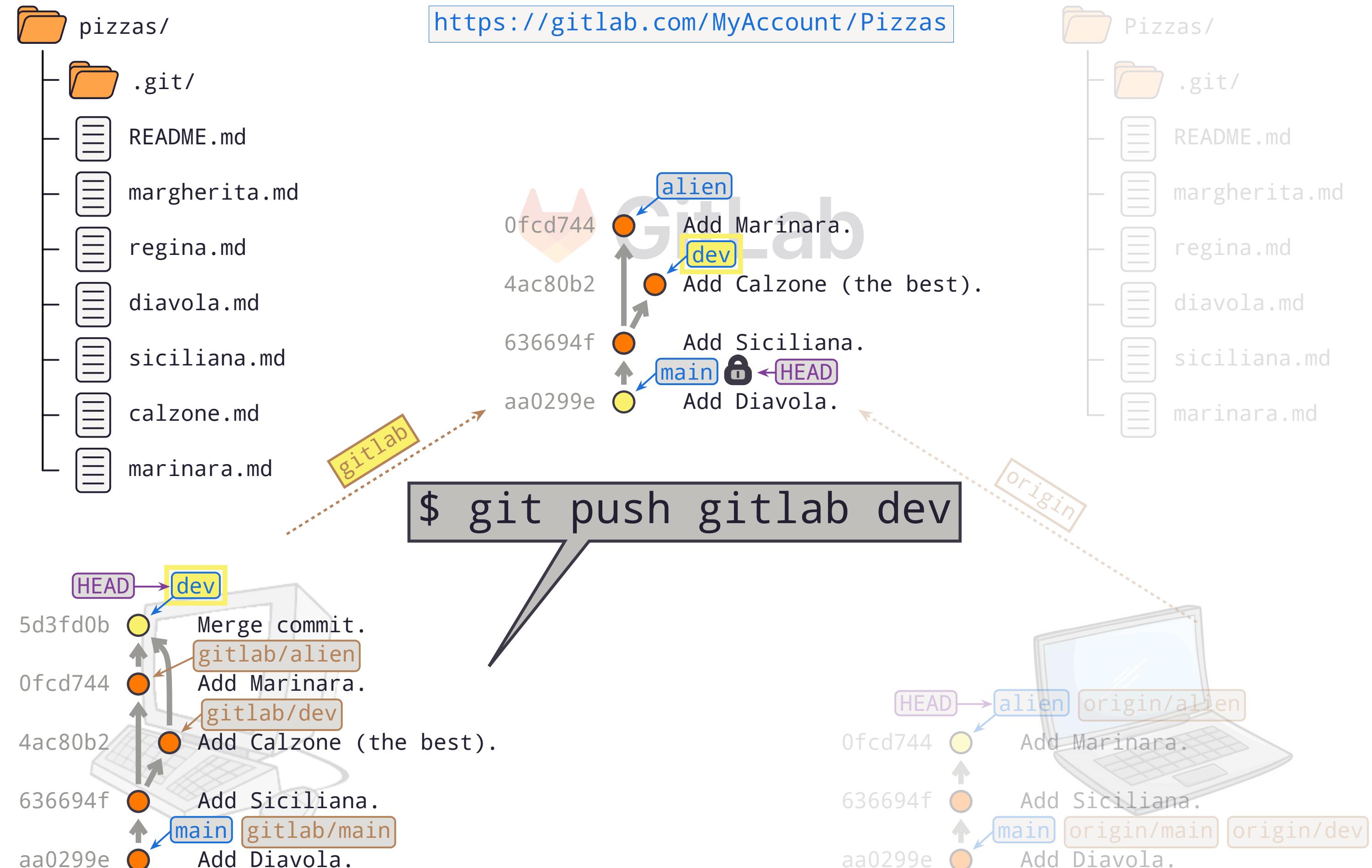
# Share integrated work

(Merge style)



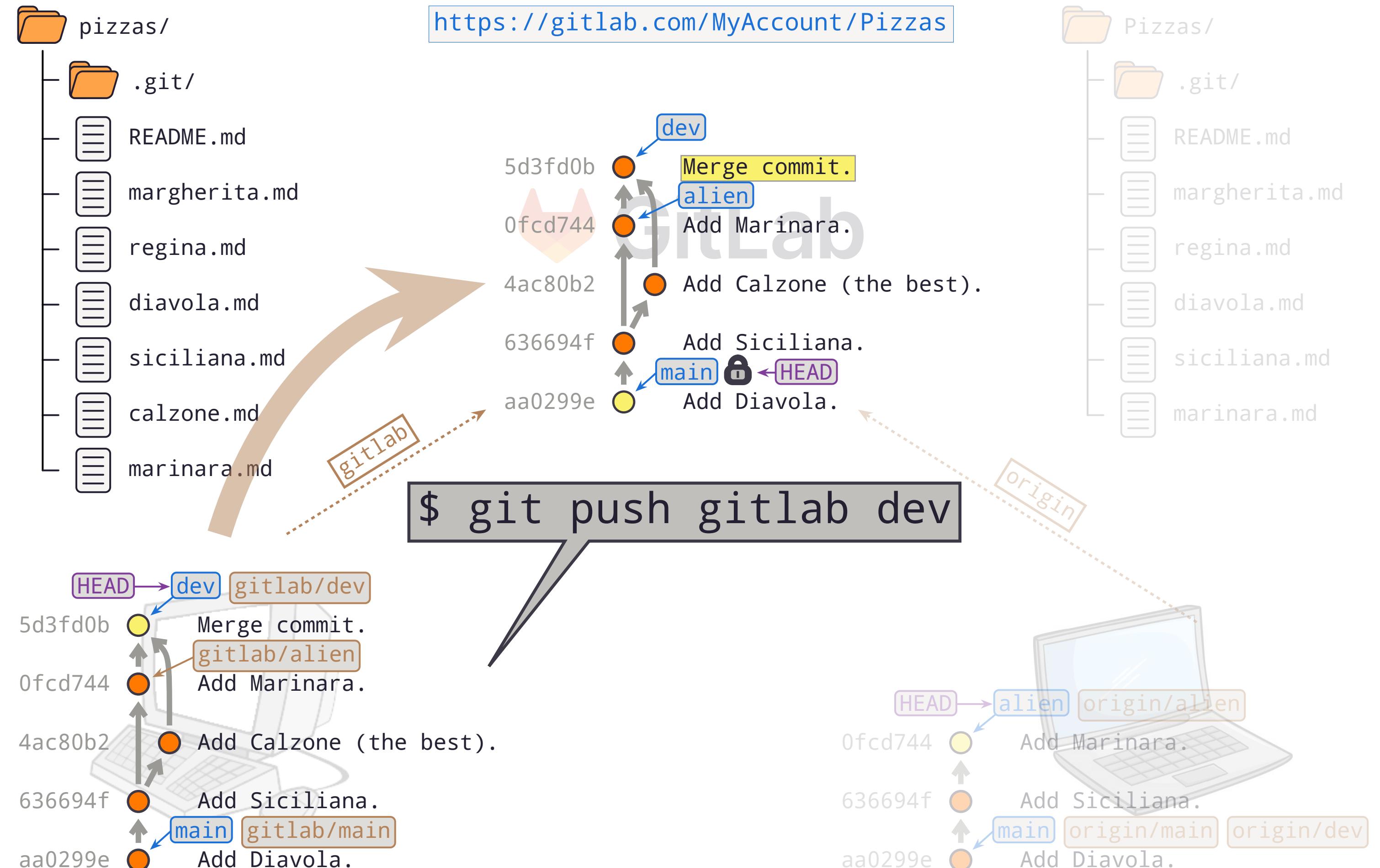
# Share integrated work

(Merge style)



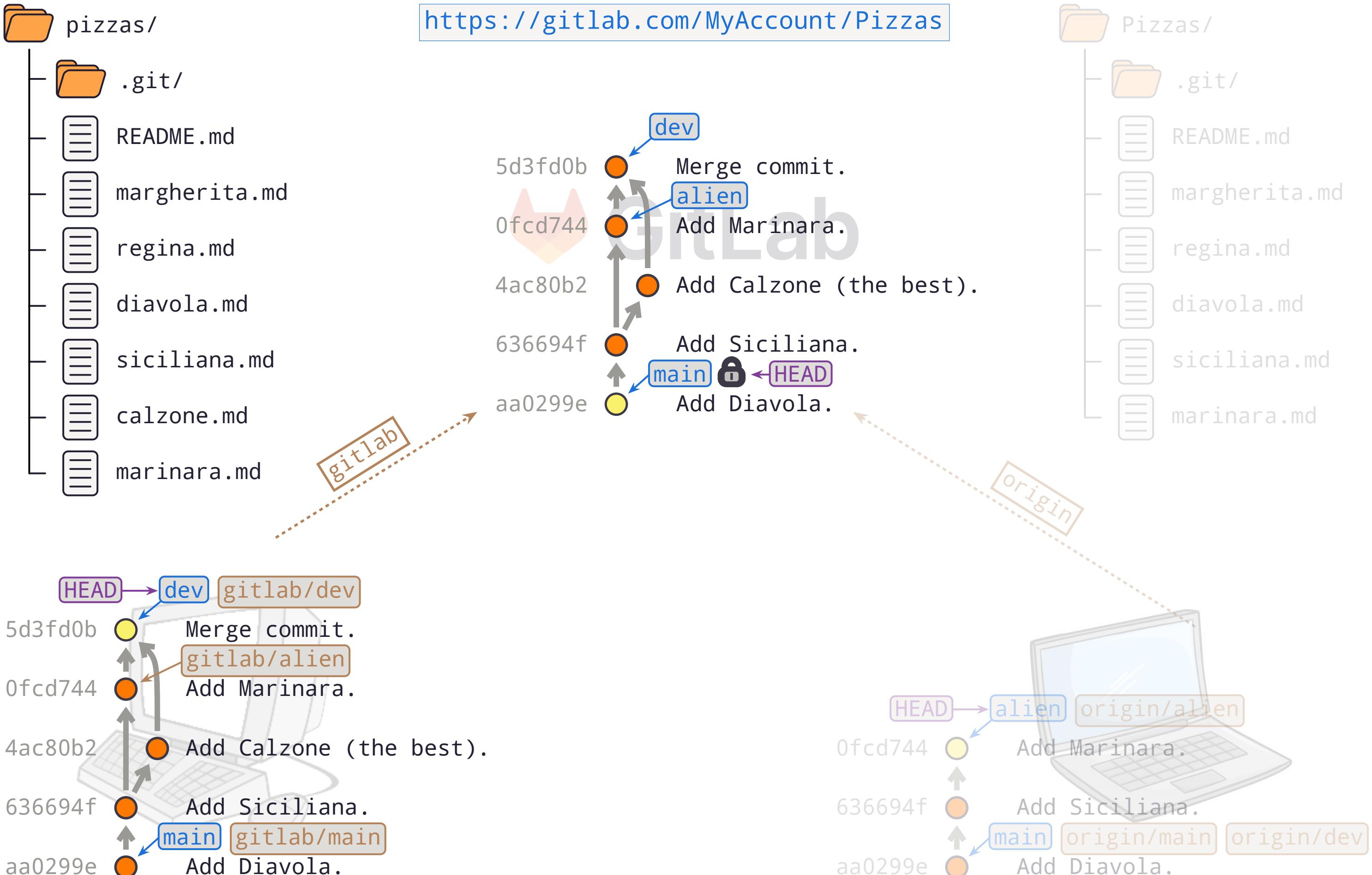
# Share integrated work

(Merge style)



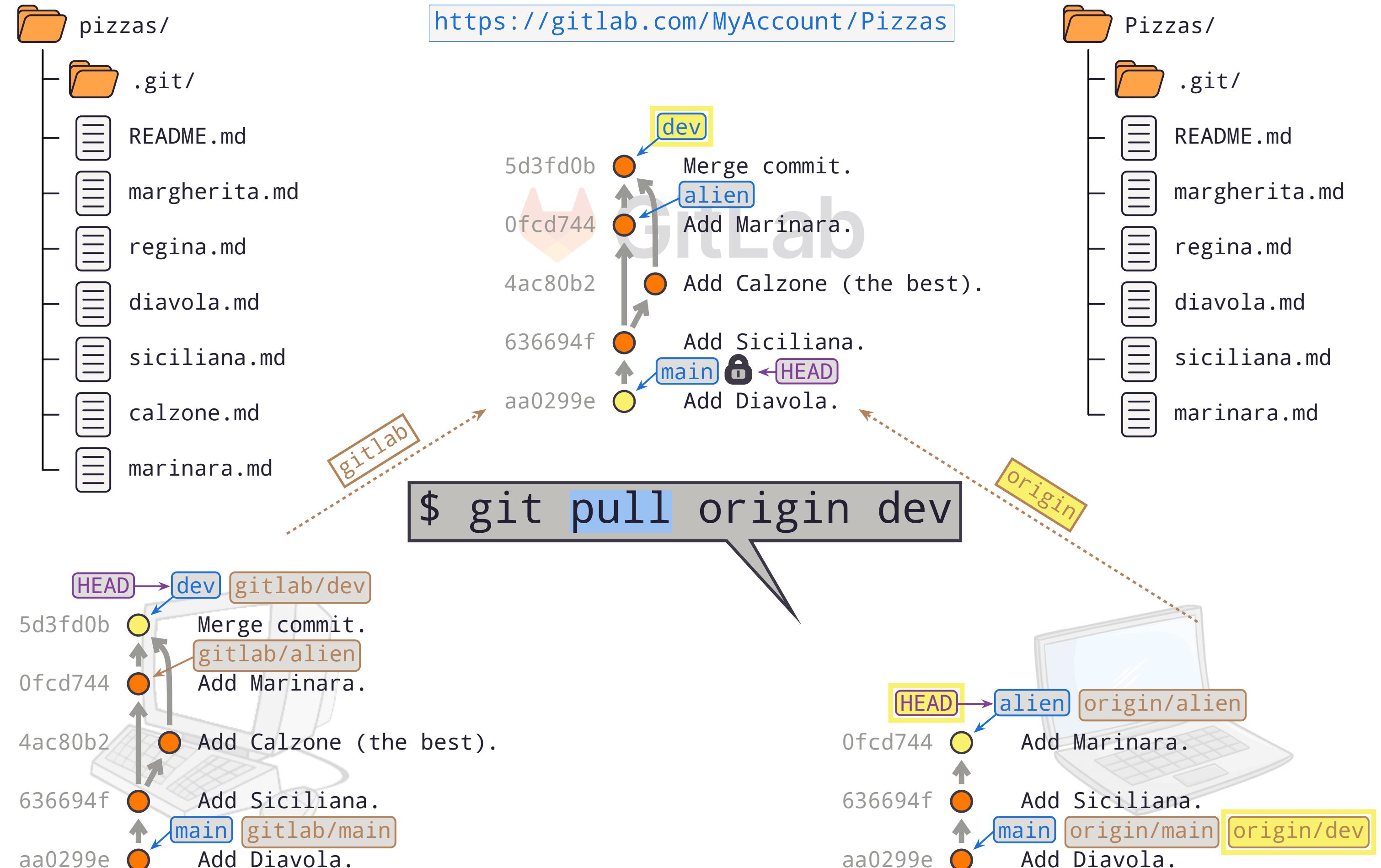
# Share integrated work

(Merge style)



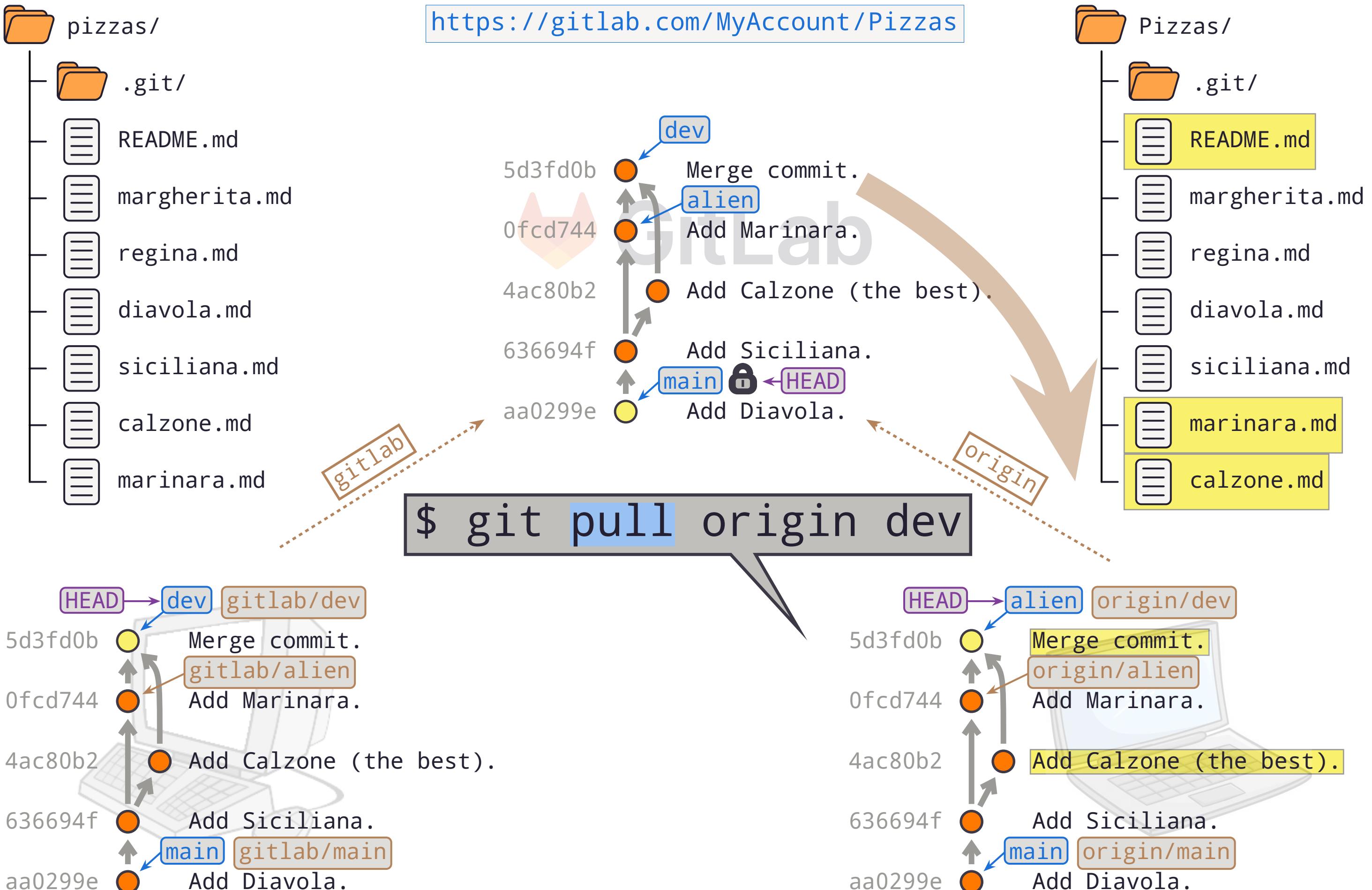
# Share integrated work

(Merge style)



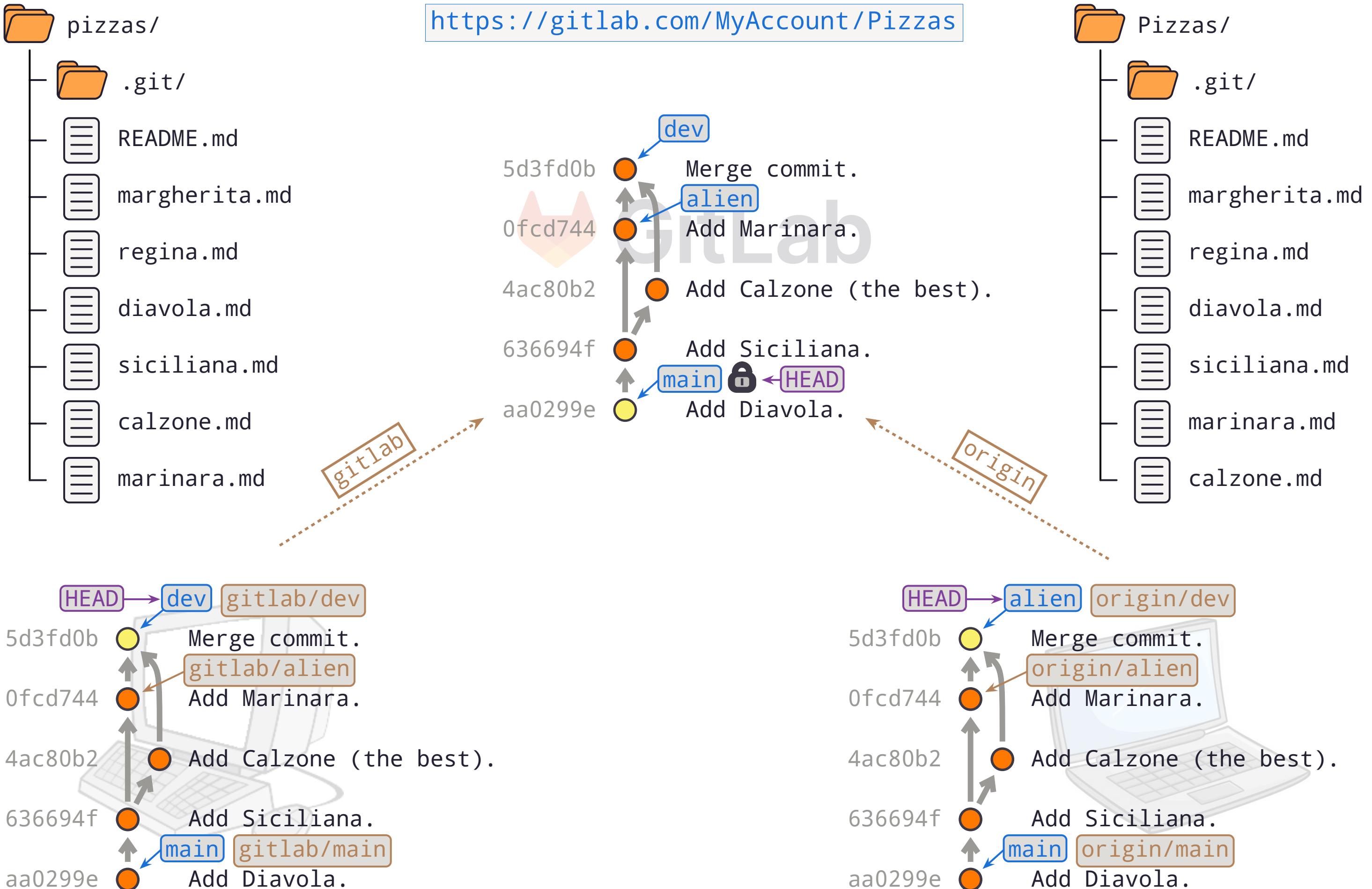
# Share integrated work

(Merge style)



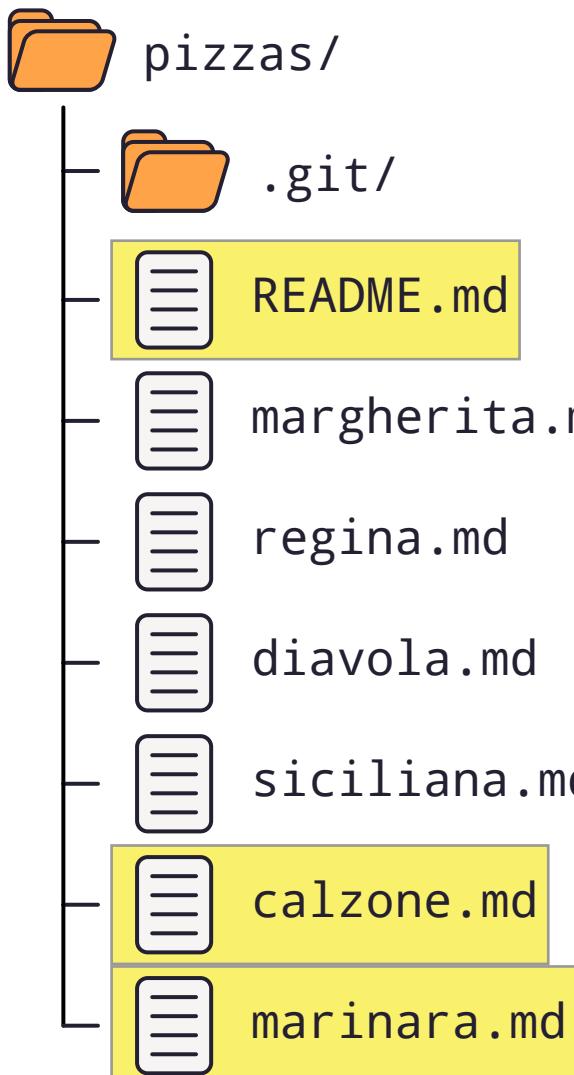
# Share integrated work

(Merge style)

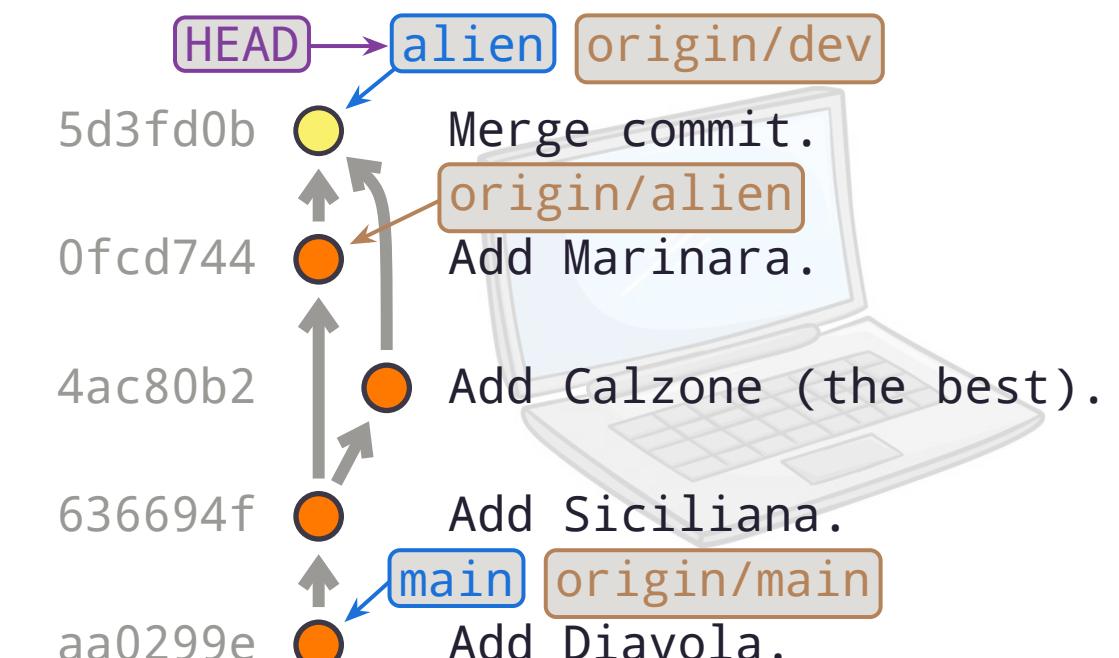
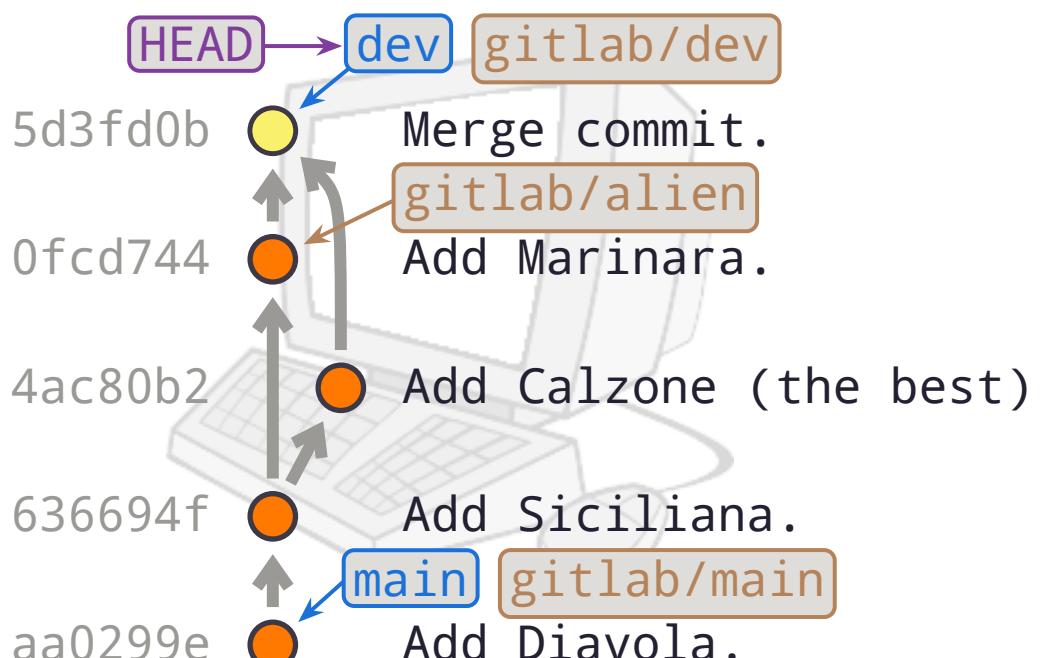
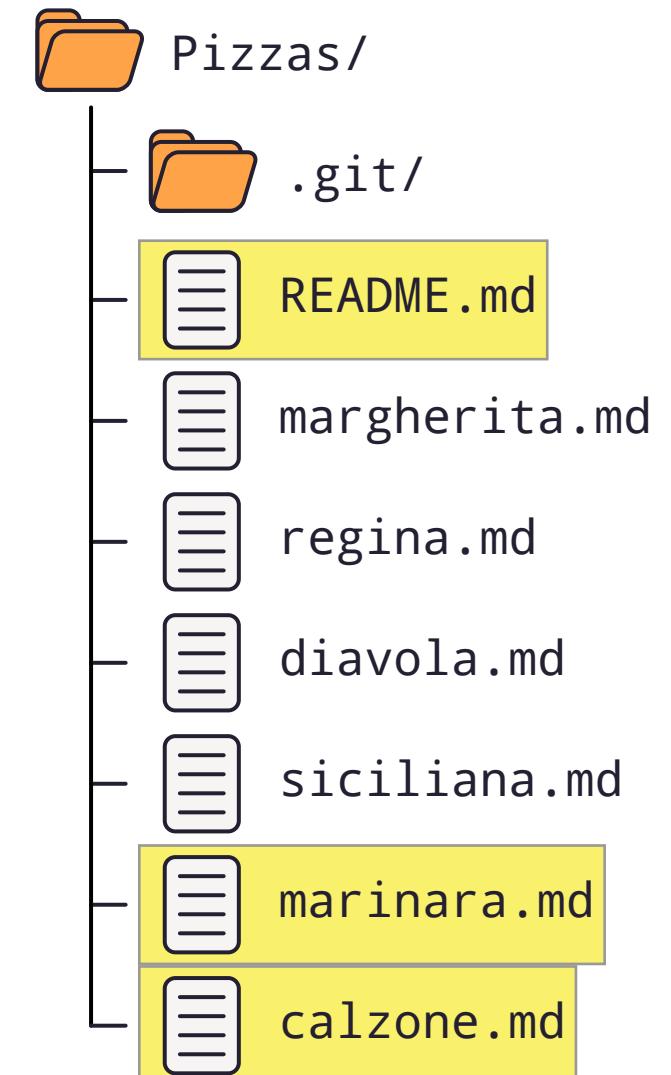
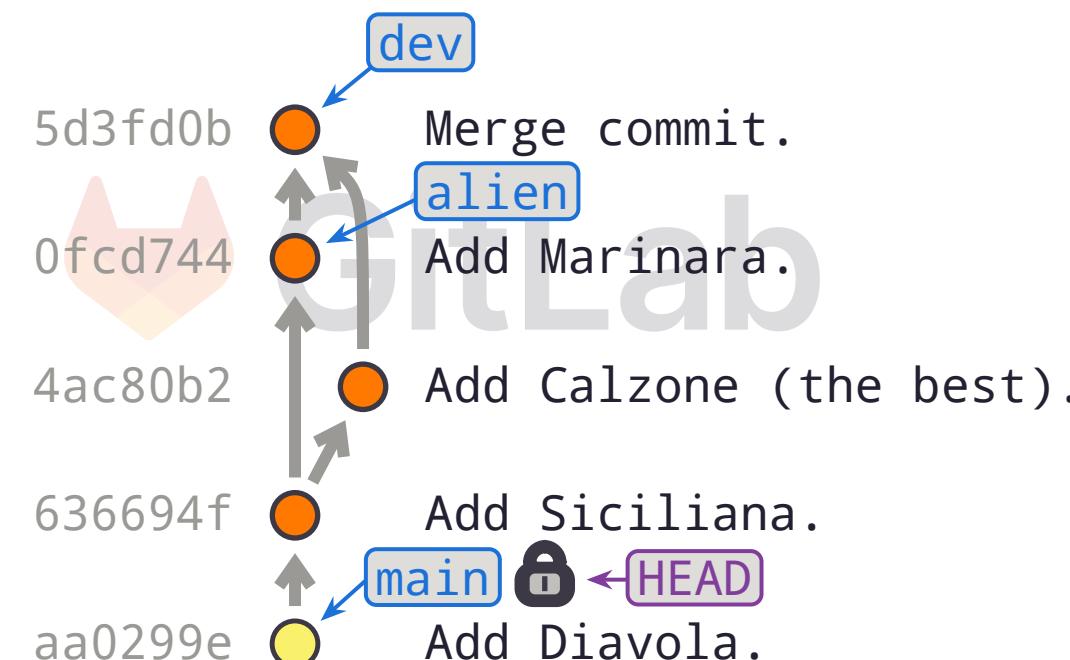


# Share integrated work

(Merge style)

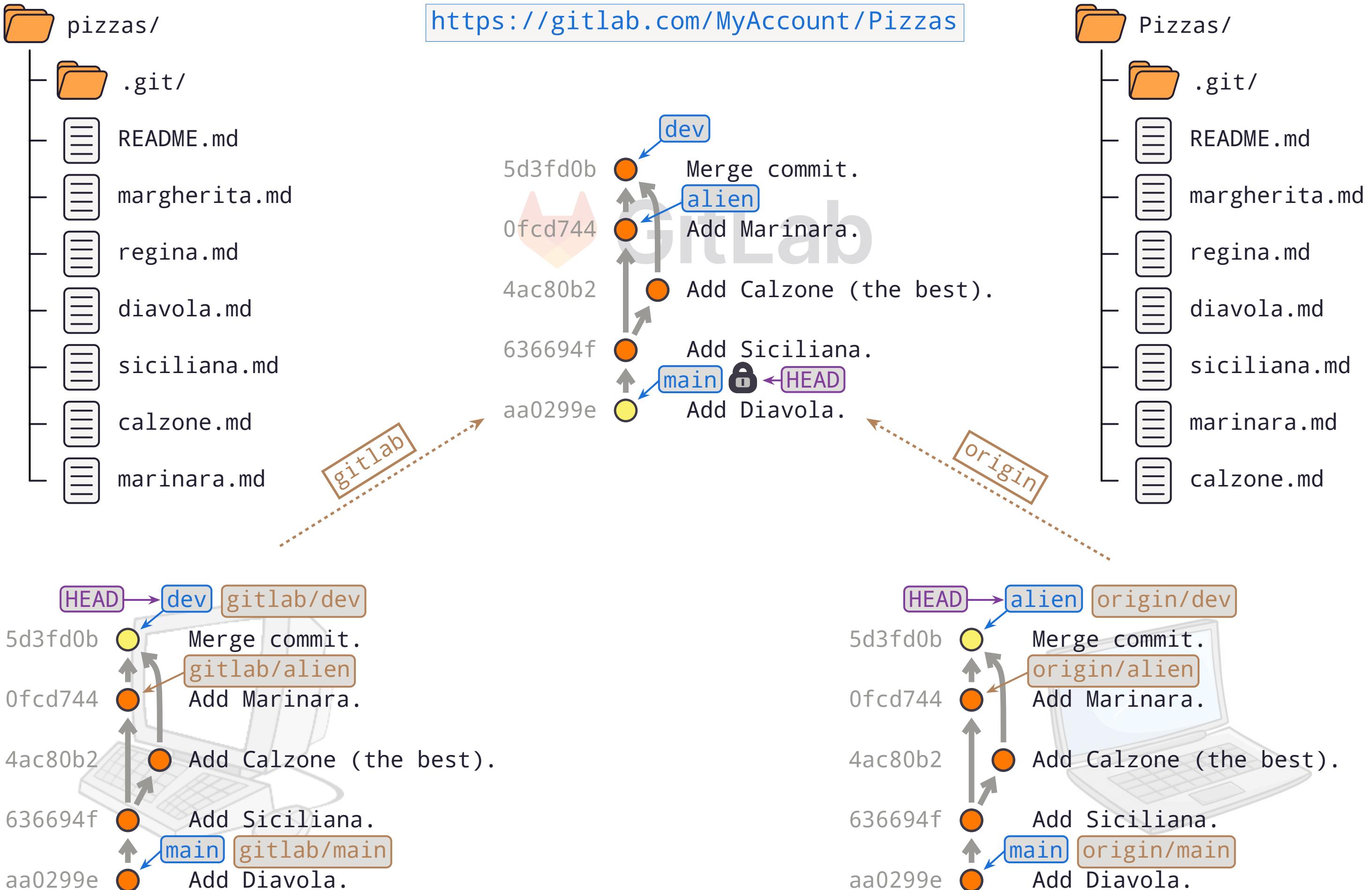


<https://gitlab.com/MyAccount/Pizzas>



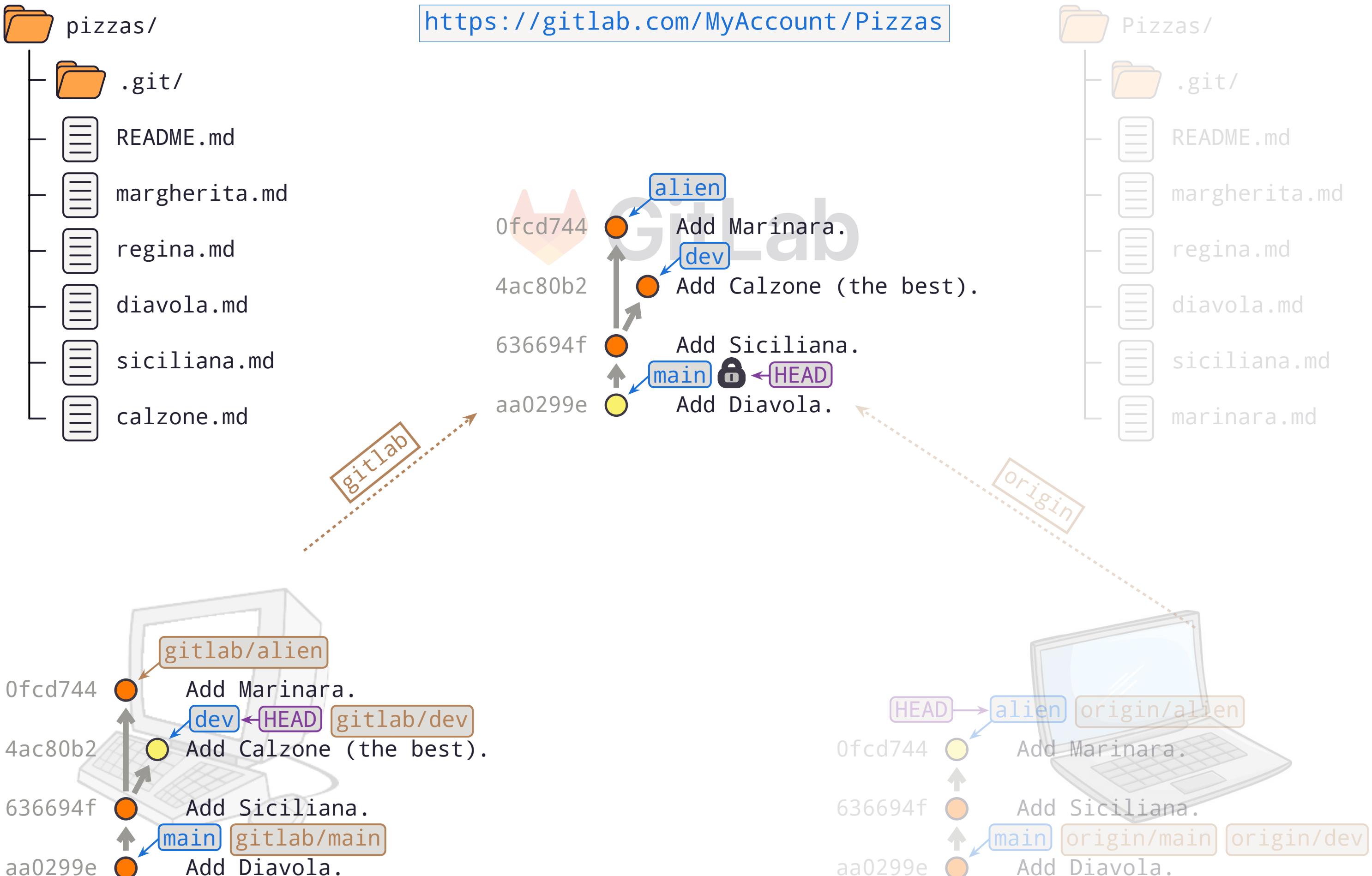
# Share integrated work

(Merge style)



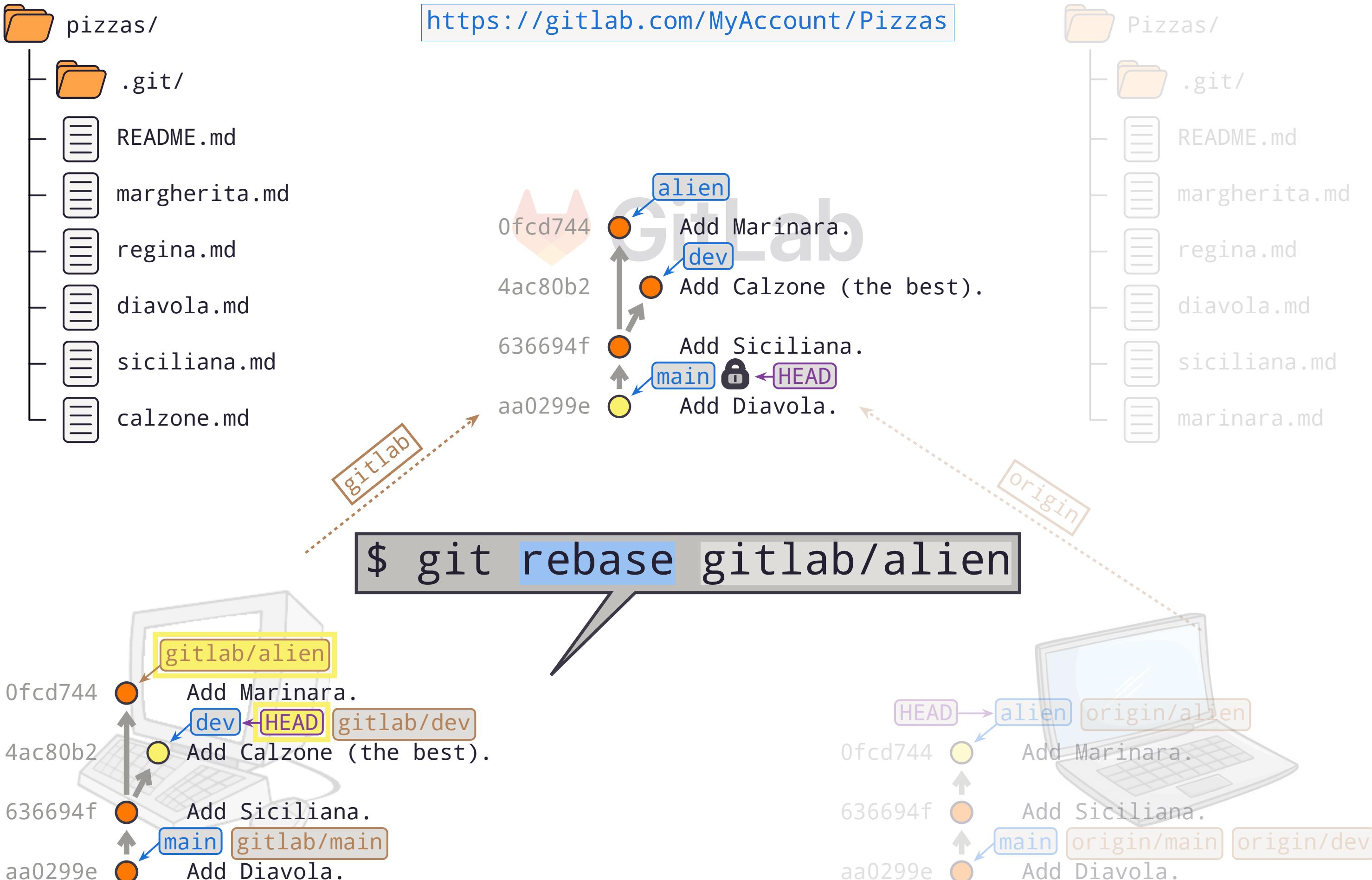
# Share integrated work

(Rebase style)



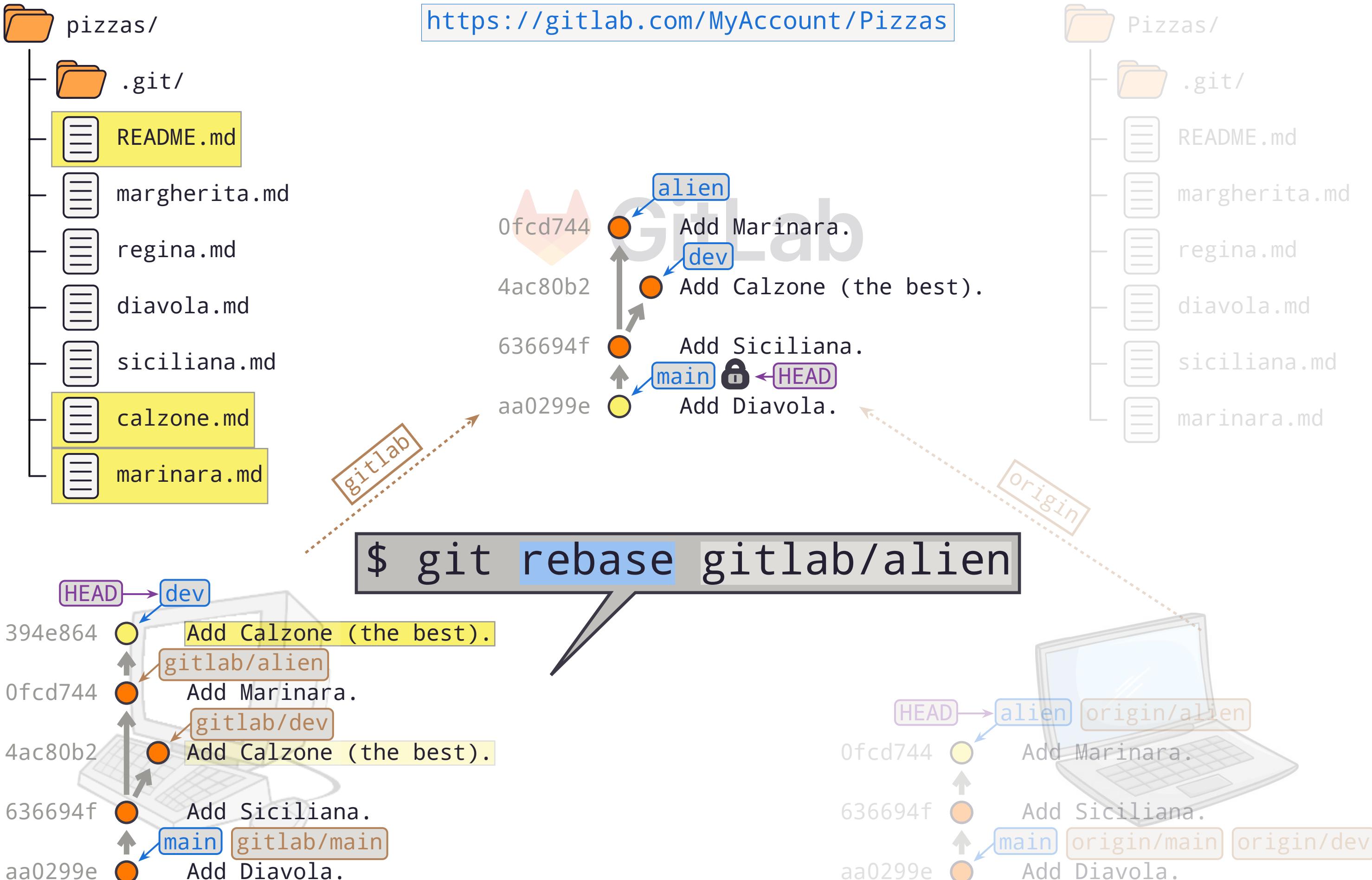
# Share integrated work

(Rebase style)



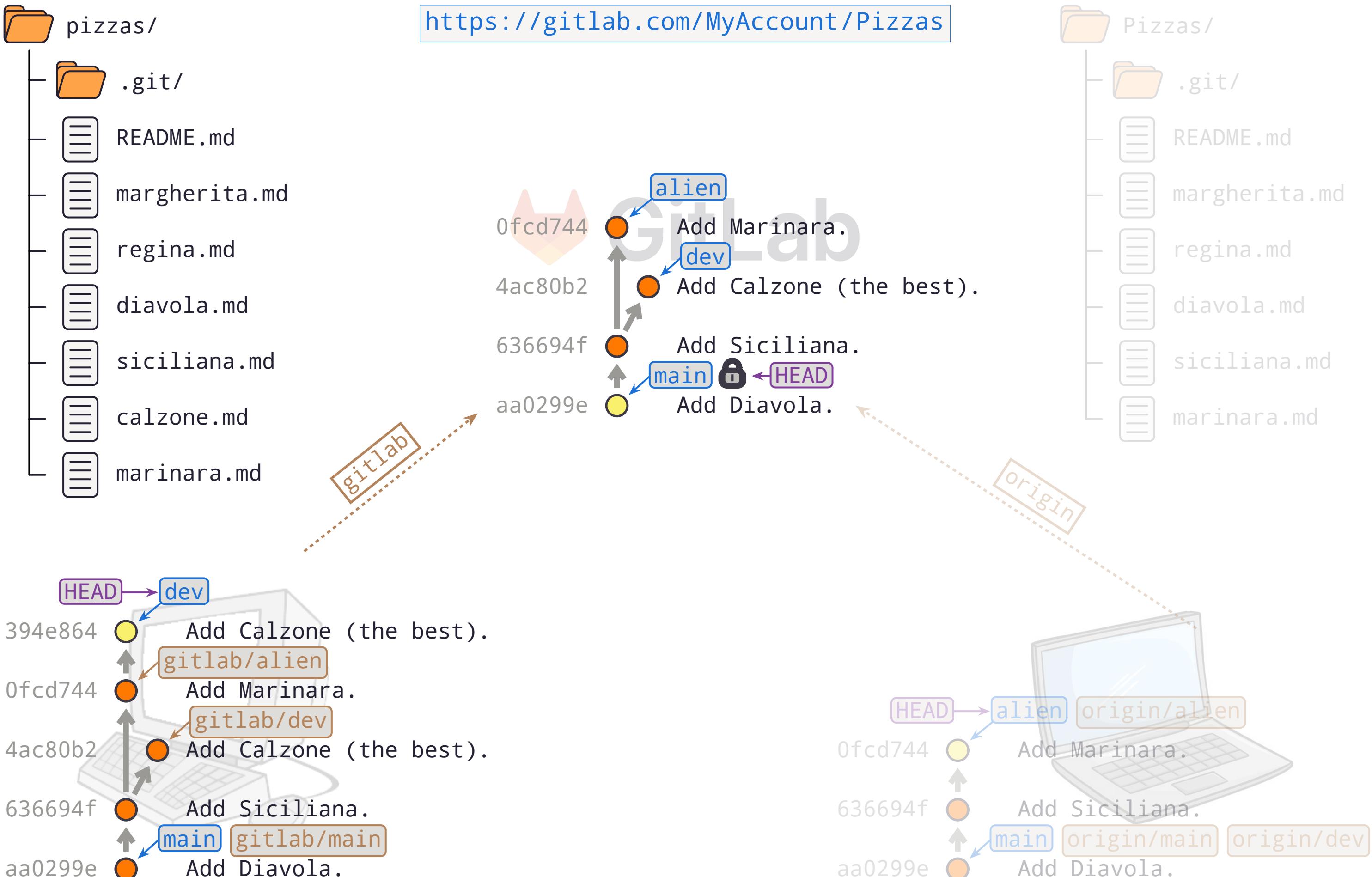
# Share integrated work

(Rebase style)



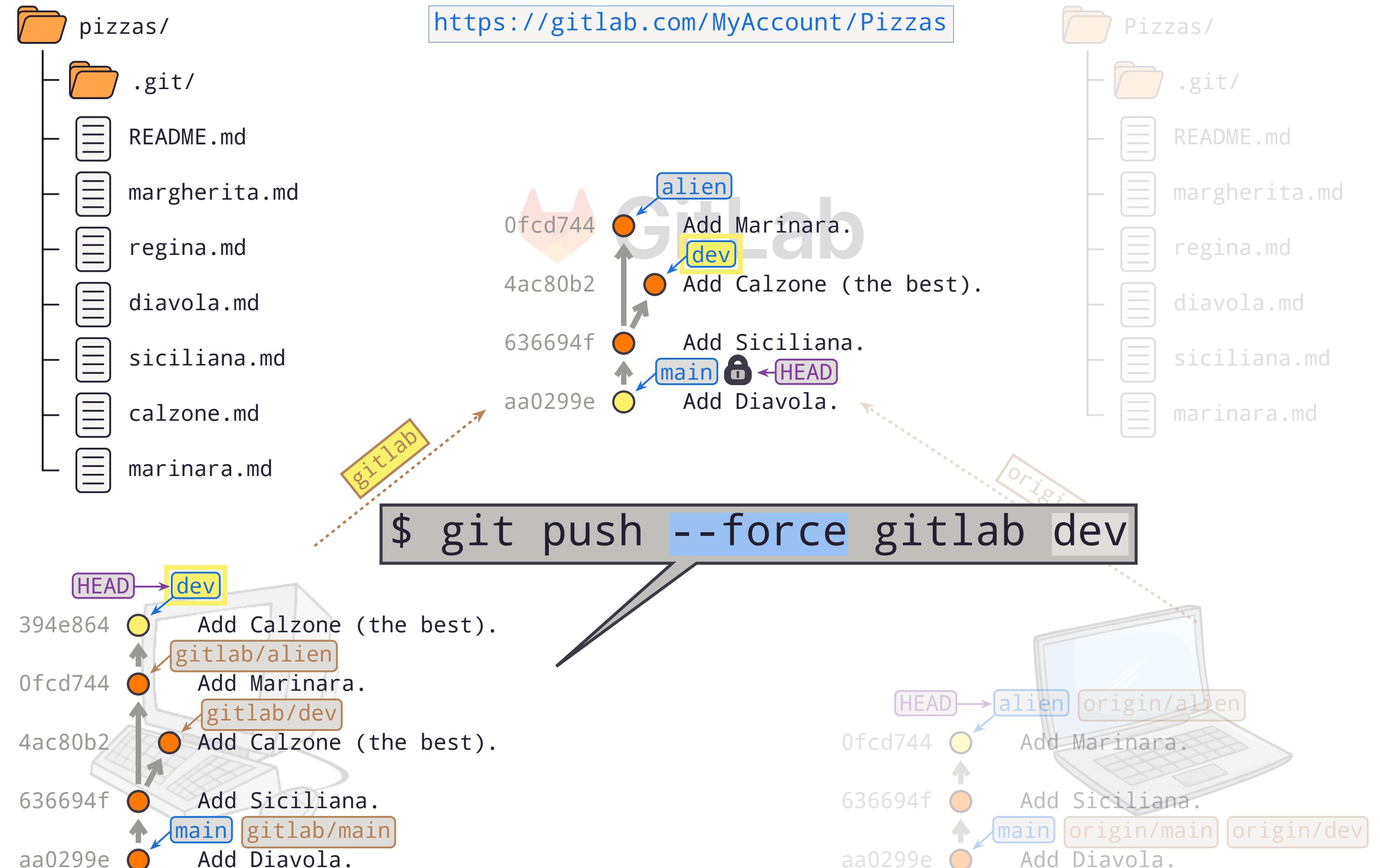
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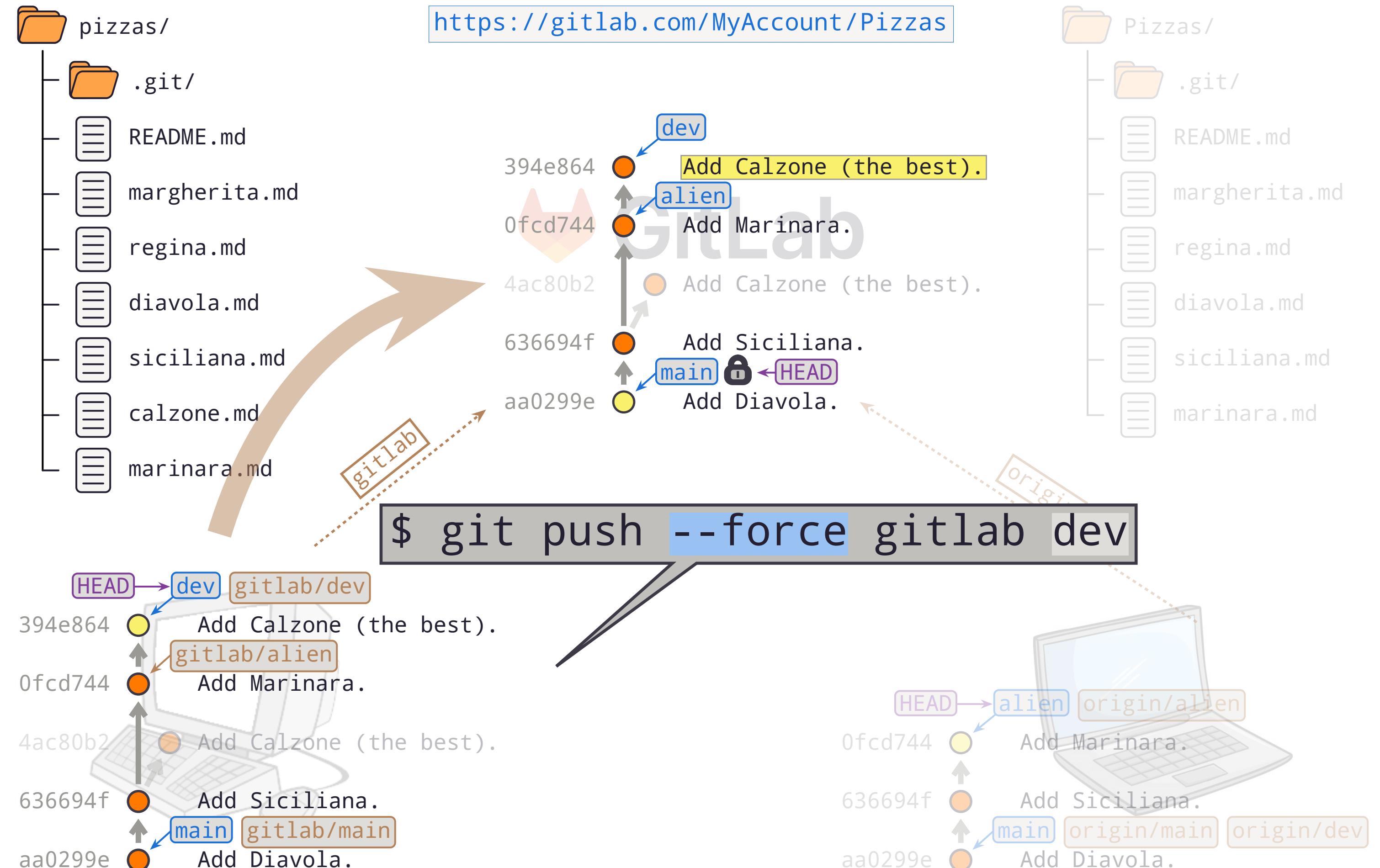
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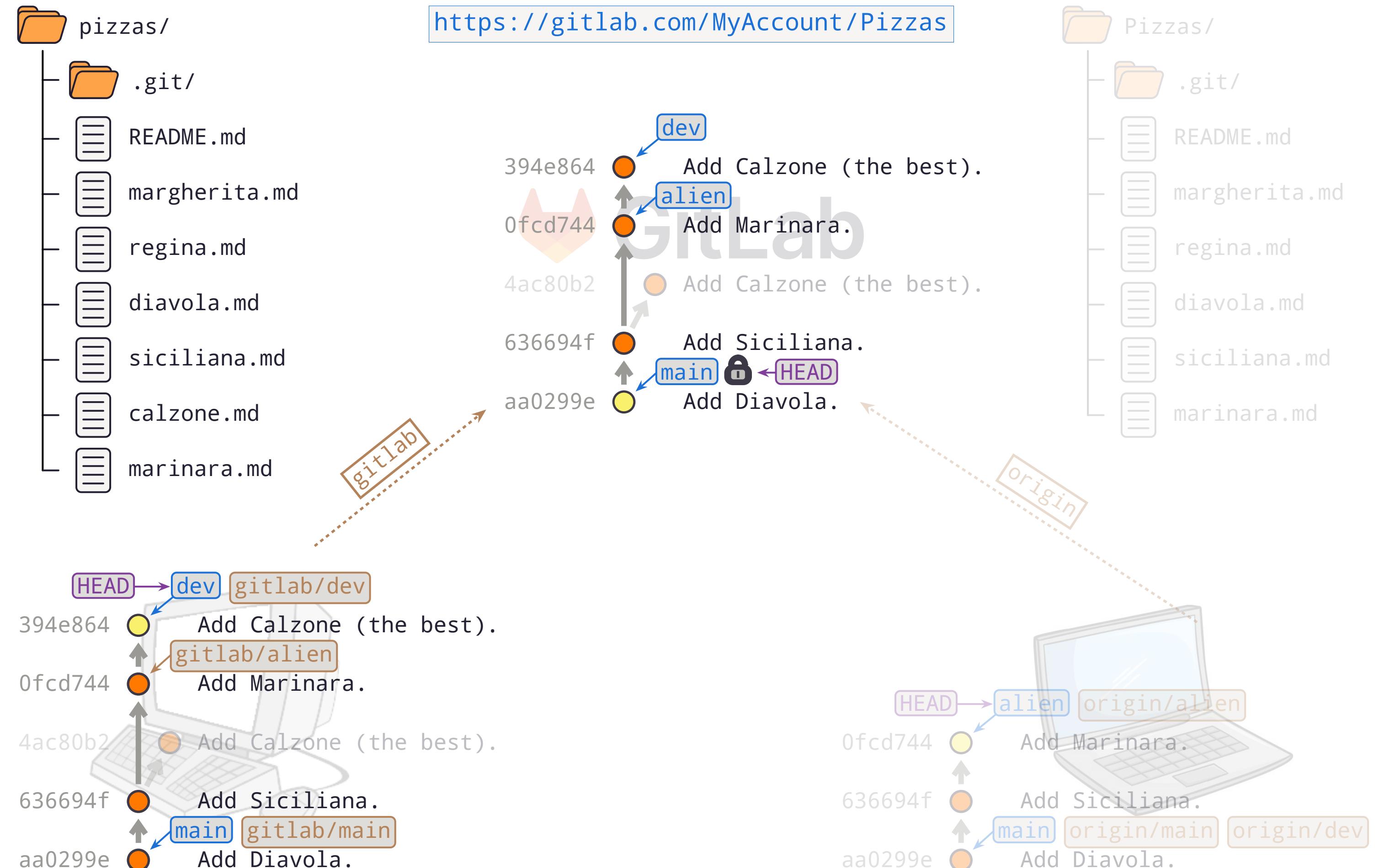
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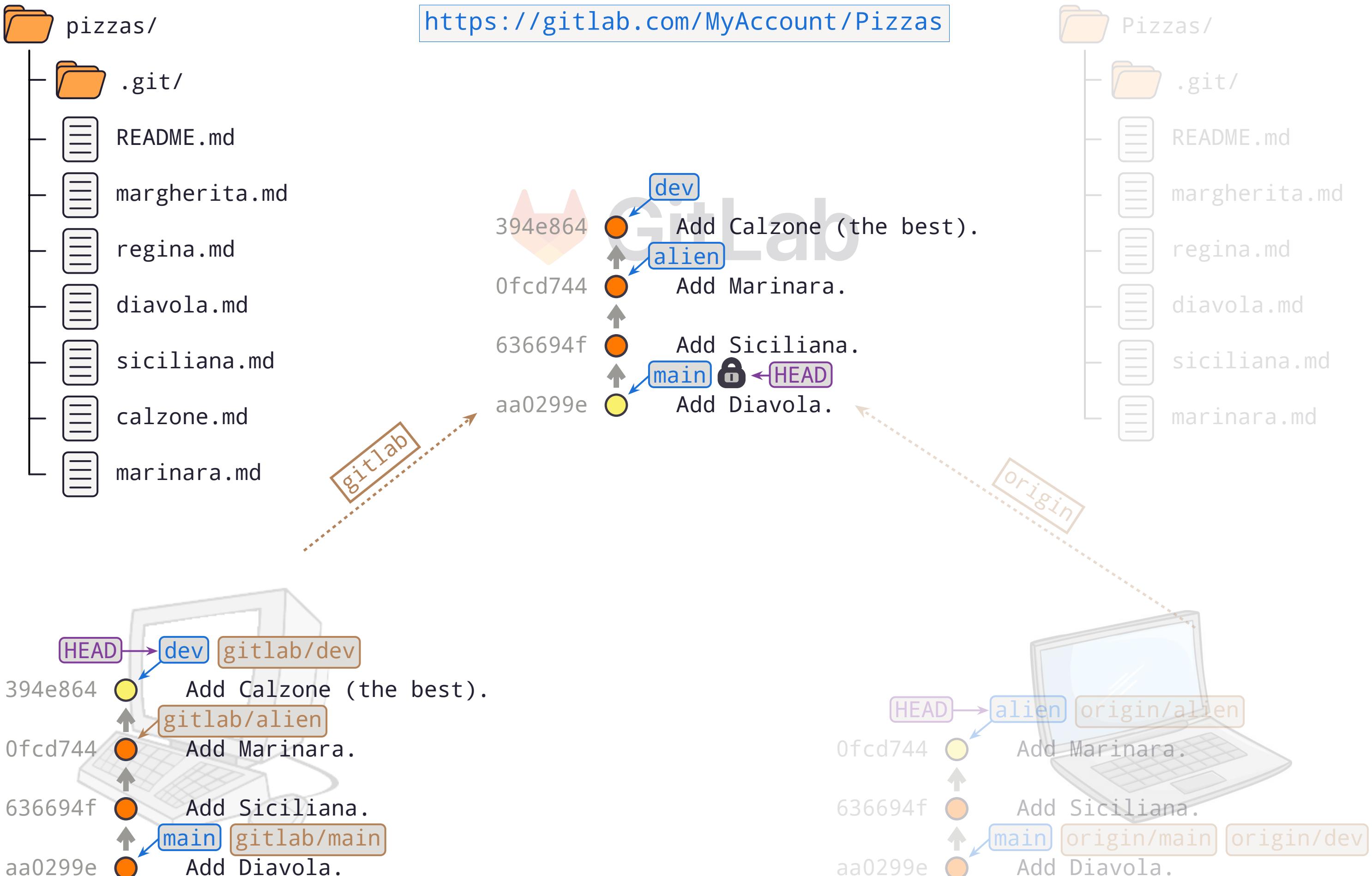
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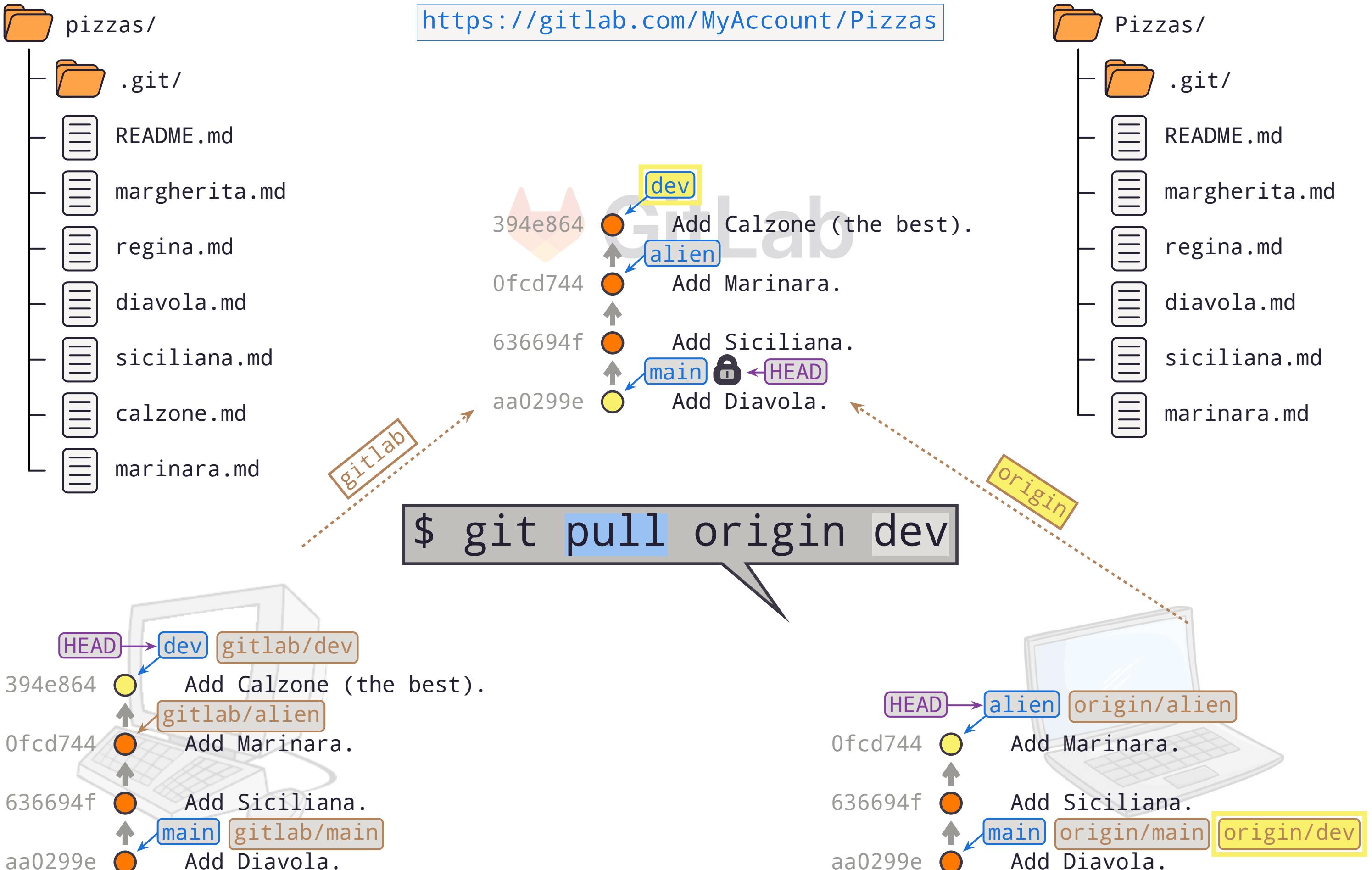
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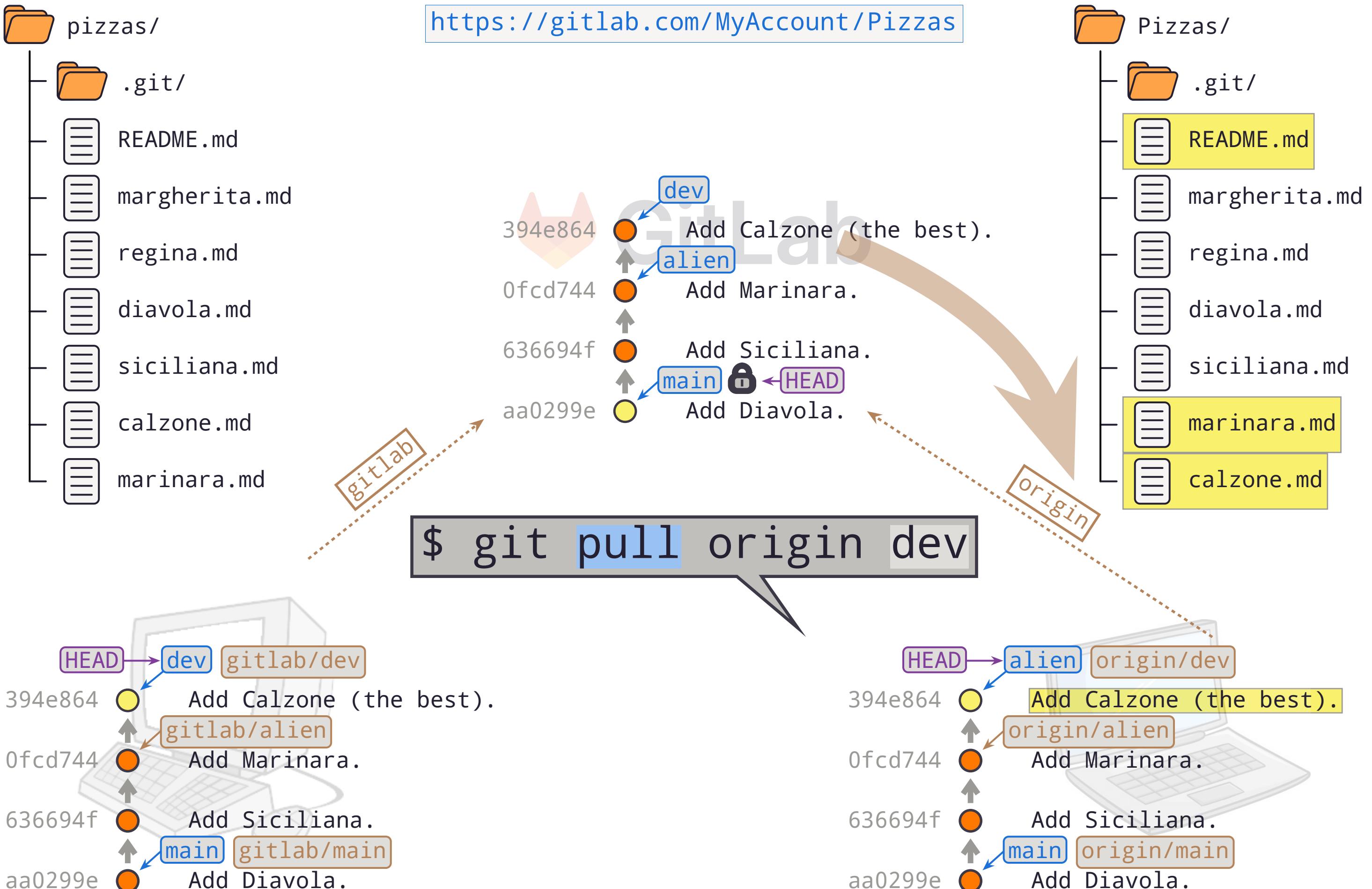
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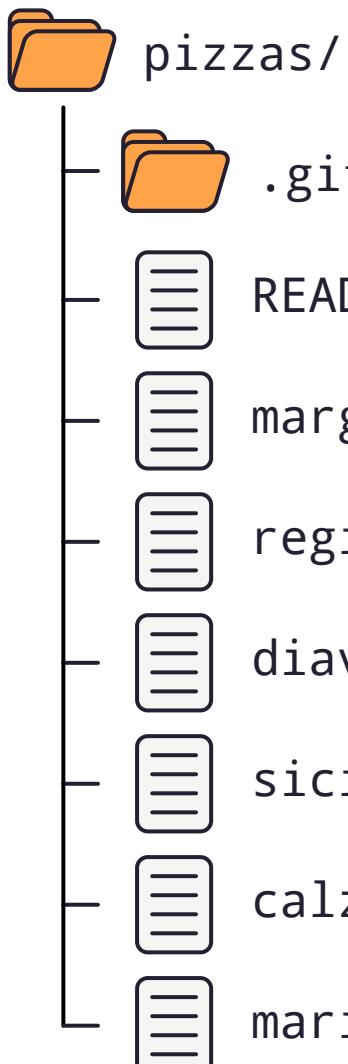
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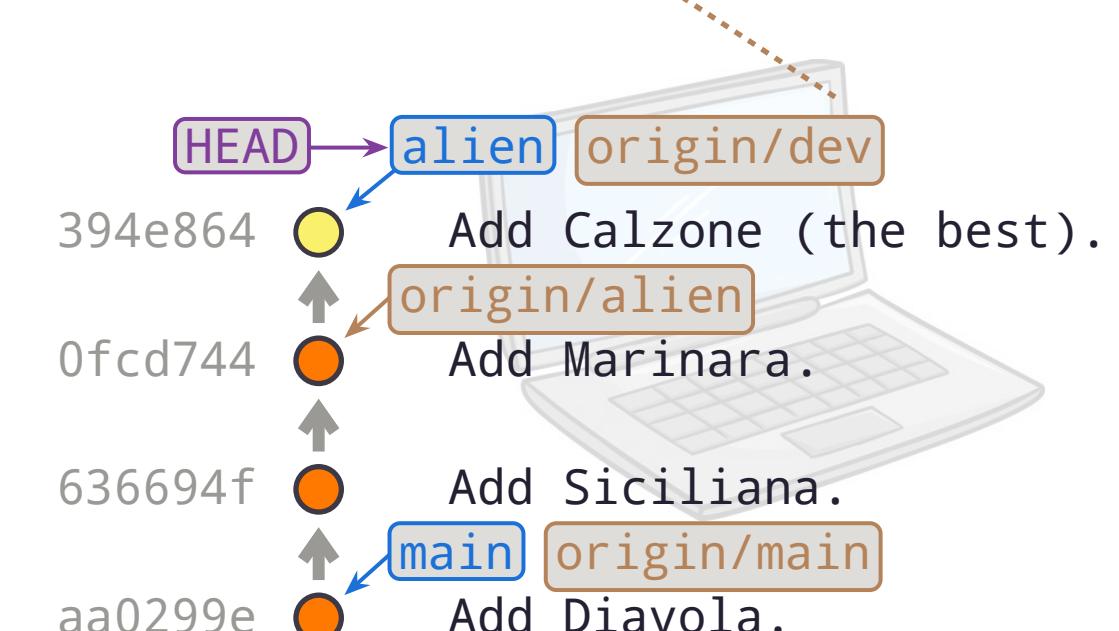
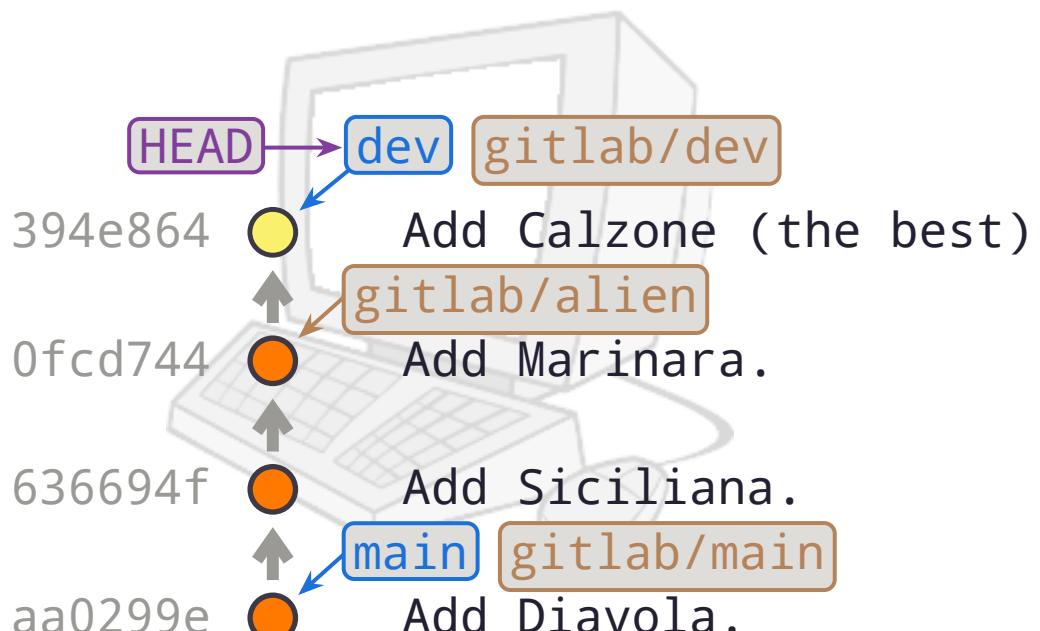
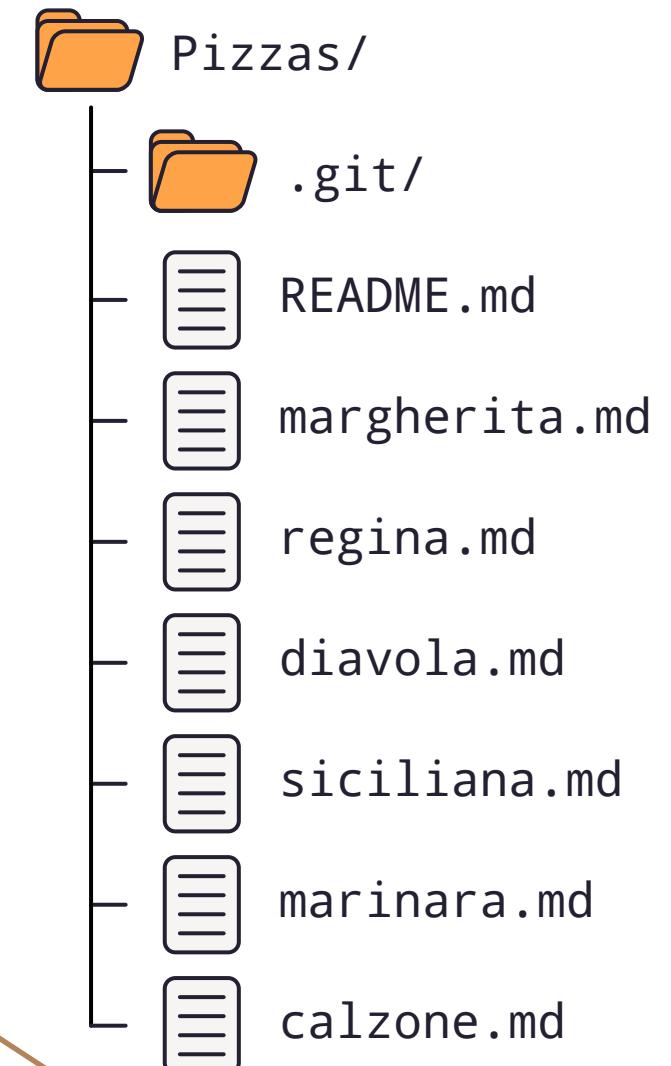
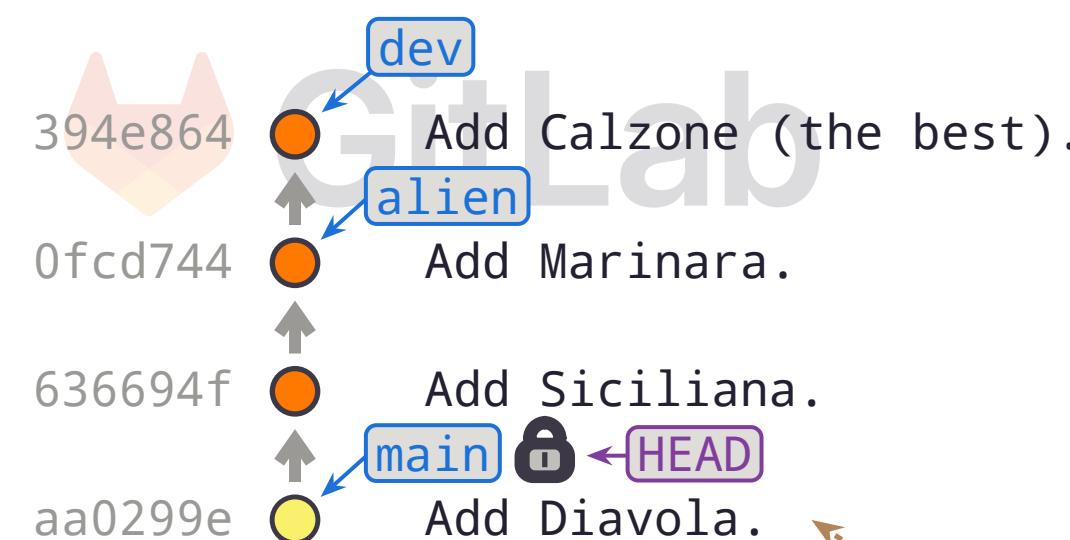


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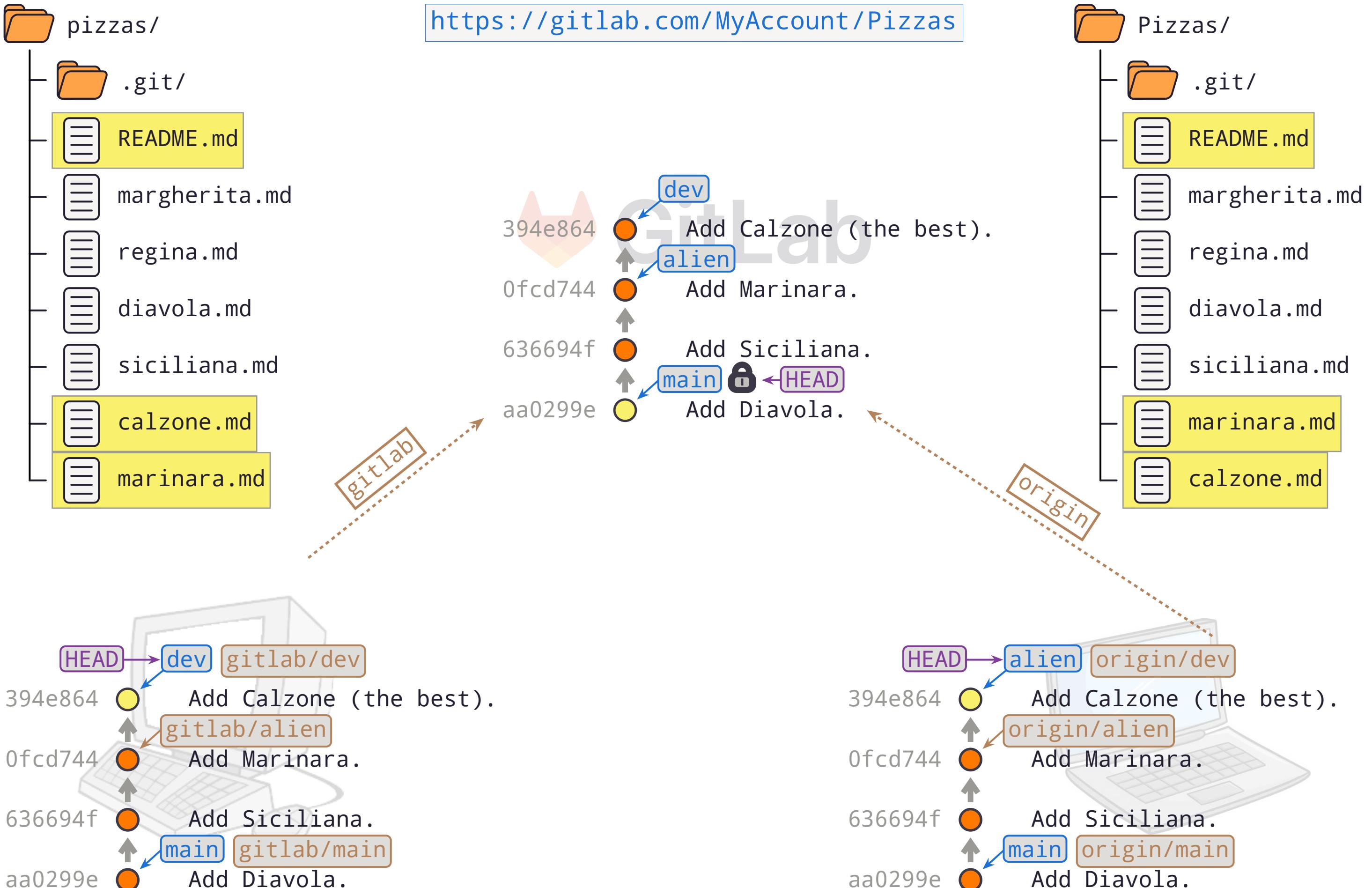


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# Share integrated work

(Rebase style)



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(Rebase style)

