

Bonnes pratiques pour une recherche reproductible en écologie numérique.
Montpellier, 28 novembre 2022



git from scratch



Iago Bonnici



CESAB
CENTRE DE SYNTHÈSE ET D'ANALYSE
SUR LA BIODIVERSITÉ

 ISEM
Institut des Sciences de l'Evolution-Montpellier

The Various Git Clients

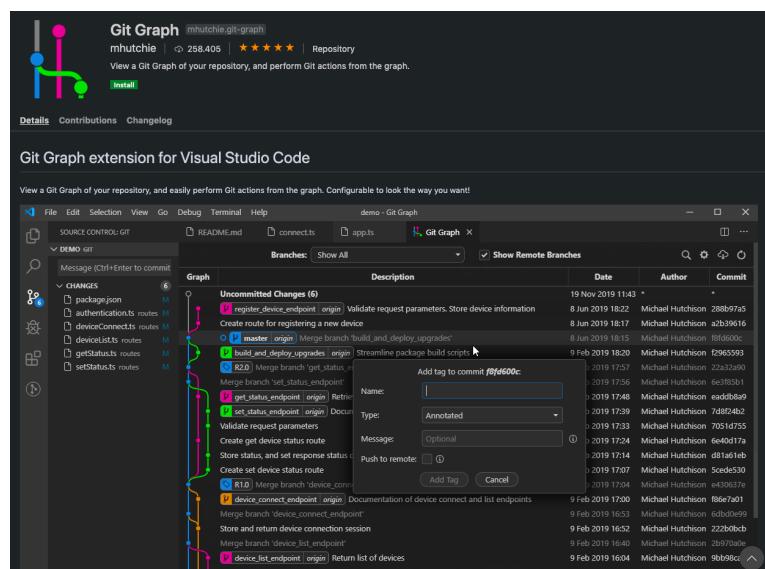
Git Clients

Use the tools you prefer



Git Clients

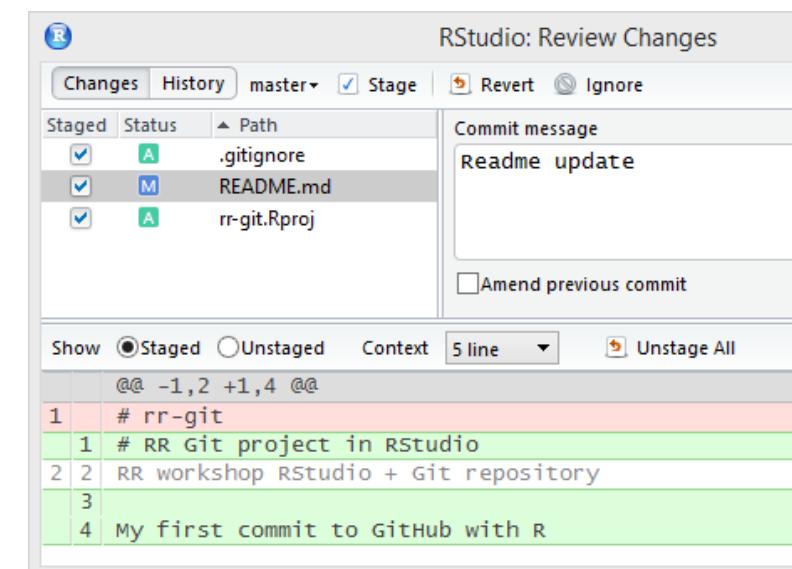
Use the tools you prefer



VSCode extension

```
*      Sacc482 2012-09-11 (staging) Merge branch
*      a0c2b86 2012-09-11 (HEAD, master) ridu ju
*      8cc08af 2012-09-11 (s4) staging uus konf
*      5c97afc 2012-09-11 Merge branch 'master'
*
*      088ef93 2012-09-11 (m3) masteri confipara
*      3e43a8b 2012-09-11 (s2) Merge branch 'mas
*
*      e67c45e 2012-09-11 (m2) parandus kolmando
*      aa1b0c6 2012-09-11 Merge branch 'master'
*
*      dc7db82 2012-09-11 (m1) kolmas fail maste
*      f616952 2012-09-11 (s1) Staging 2 config
*      2af9eaa 2012-09-11 staging_conf (Laas Tool
*
*      7c15756 2012-09-11 (initial) initial (Laas Tool
```

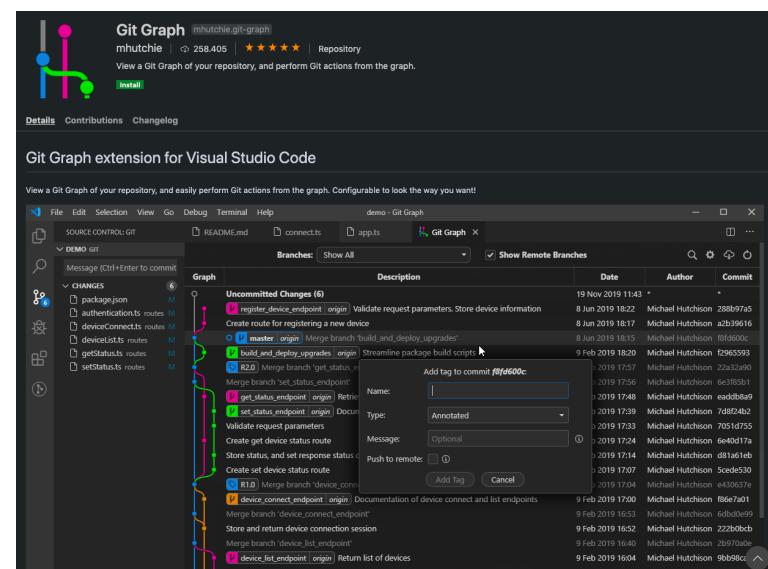
command-line console



RStudio extension

Git Clients

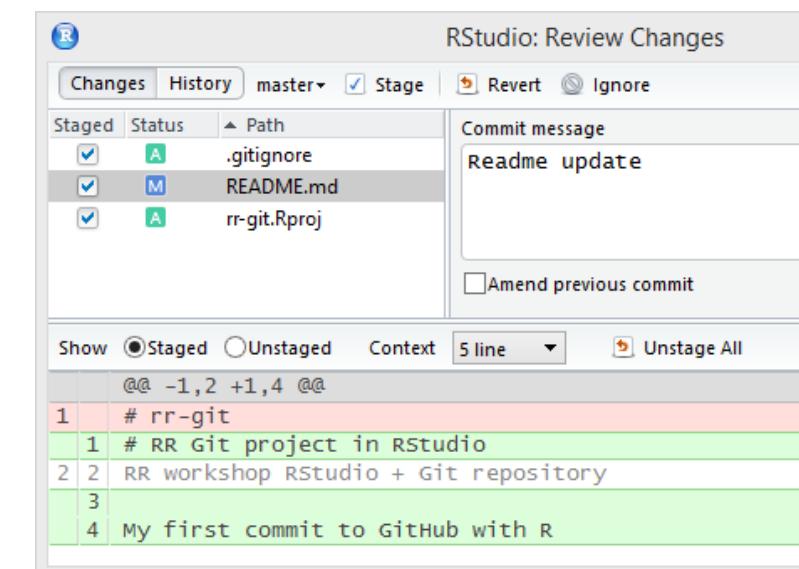
Use the tools you prefer



VSCode extension

```
* 5acc482 2012-09-11 (staging) Merge branch 'staging'
* | 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
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* | 2af9eaa 2012-09-11 staging_conf (Laas Tool
|
* | 7c15756 2012-09-11 (initial) initial (Laas Tool
|
|/
```

command-line console

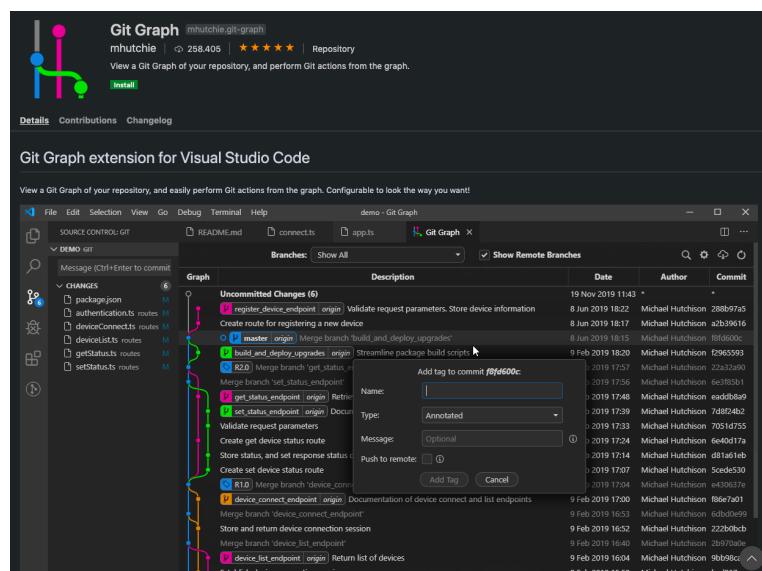


RStudio extension



Git Clients

Use the tools you prefer



VSCode extension

```
* Sacc482 2012-09-11 (staging) Merge branch 'staging'

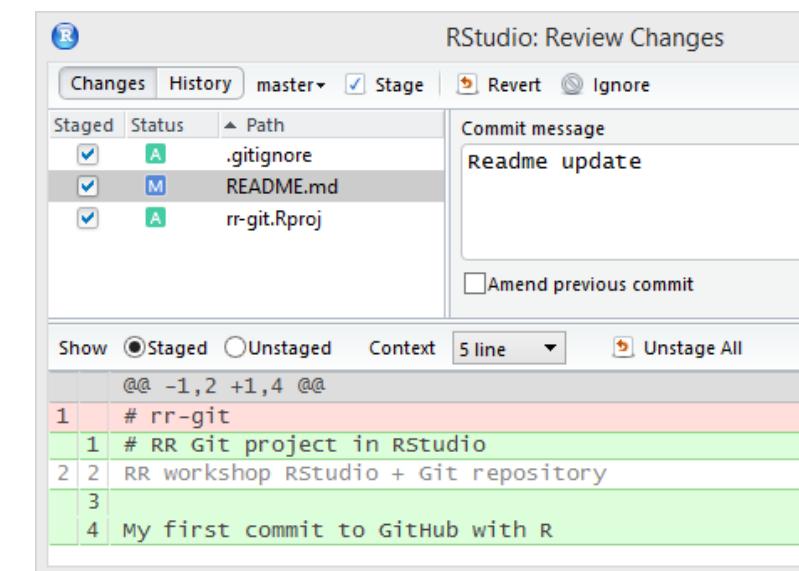
* a0c2b86 2012-09-11 (HEAD, master) ridu ju
* 8cc08af 2012-09-11 (s4) staging uus konf
* 5c97afc 2012-09-11 Merge branch 'master'

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

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



RStudio extension



Pizzas with Git

The Pizzas Repository

Crafting your First Commits



The Pizzas Repository

Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.



The Pizzas Repository

Crafting your First Commits



pizzas/



 └ README.md

README.md

Collect and distribute the best pizzas recipes.

The Pizzas Repository

Crafting your First Commits



pizzas/



 └ README.md

README.md

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```
$ git init
```

The Pizzas Repository

Crafting your First Commits



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The Pizzas Repository

Crafting your First Commits

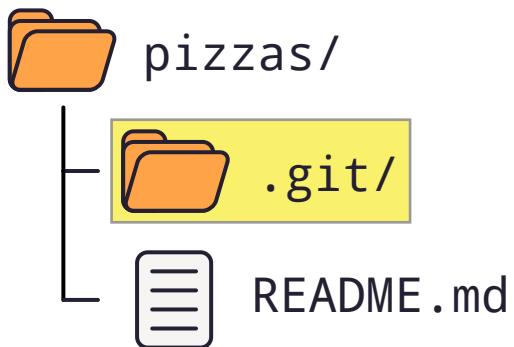


README.md

Collect and distribute the best pizzas recipes.

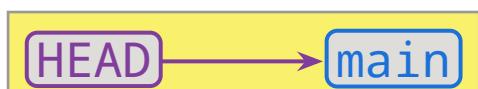
The Pizzas Repository

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The Pizzas Repository

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README.md

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HEAD → main

The Pizzas Repository

Crafting your First Commits



README.md

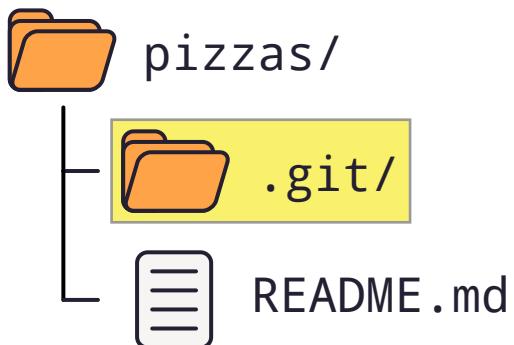
Collect and distribute the best pizzas recipes.

```
$ git commit
```

HEAD → main

The Pizzas Repository

Crafting your First Commits



README.md

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$ git commit
```

HEAD → main

d1e8c8c ⚡ First commit, the intent.

The Pizzas Repository

Crafting your First Commits



README.md

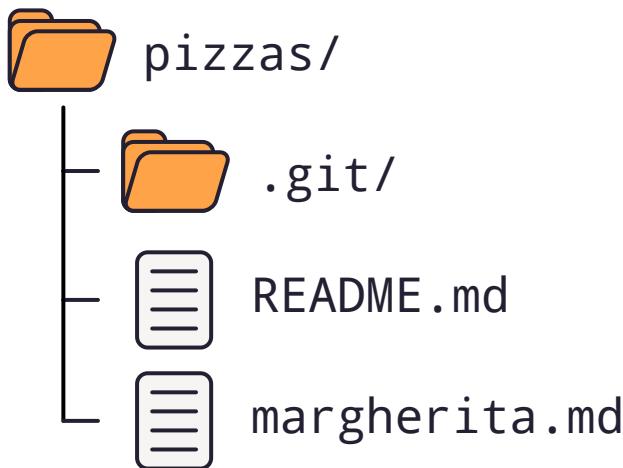
Collect and distribute the best pizzas recipes.

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: —

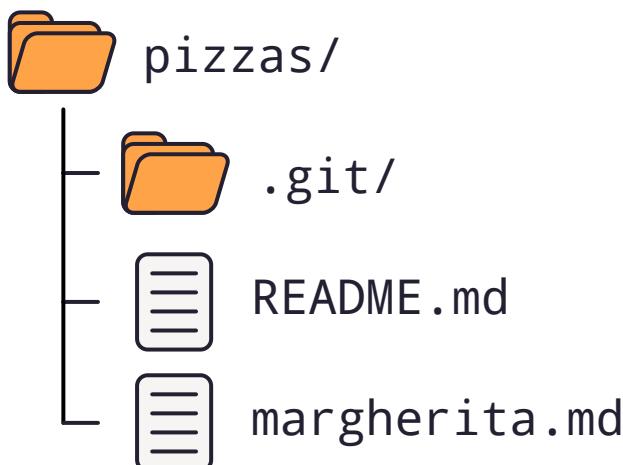
- Mozzarella
- Basil

HEAD → main

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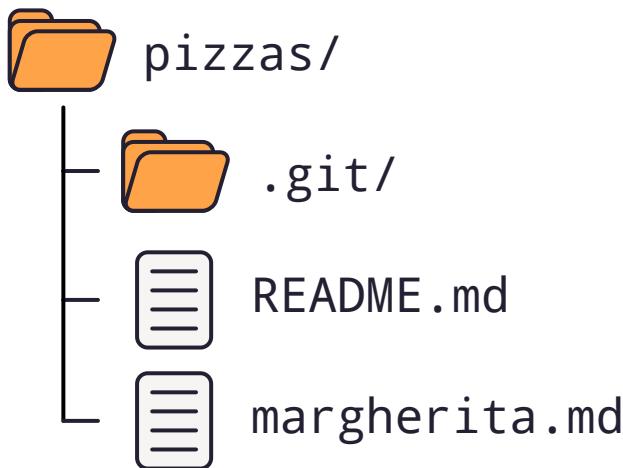
- Basil

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- Mozzarella

- Basil

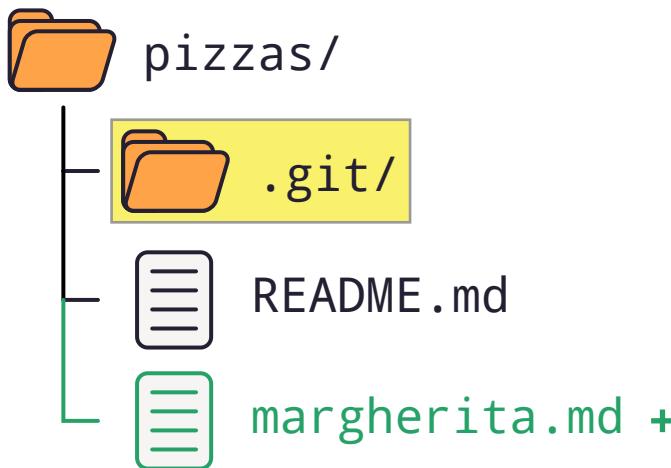
```
$ git diff
```

HEAD → main

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Crafting your First Commits



README.md

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+ margherita.md
+ # Margherita
+
+ The simplest and most famous,
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+ Base: tomato sauce
+ Topping:
+ - Mozzarella
+ - Basil

```
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```

HEAD → main

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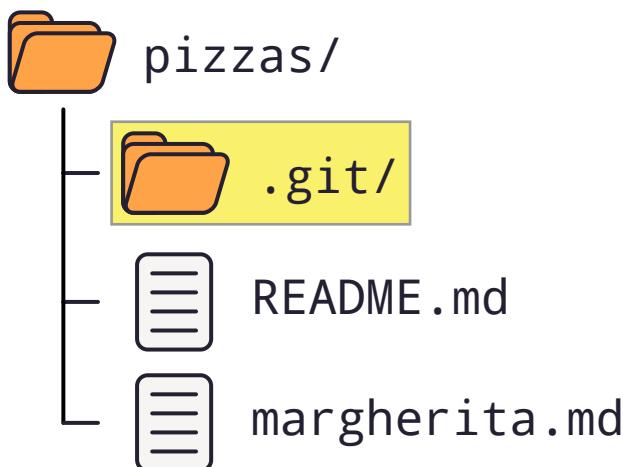
```
+ # Margherita
+
+ The simplest and most famous,
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+ Base: tomato sauce
+ Topping:
+ - Mozzarella
+ - Basil
```

HEAD → main

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—Topping:—

- Mozzarella
- Basil

\$ git commit

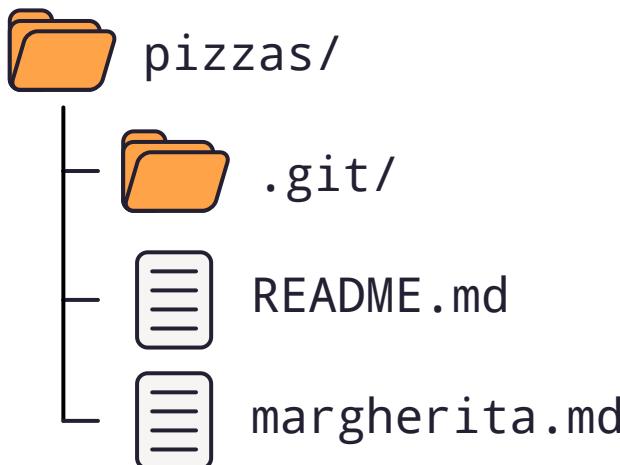
HEAD → main

4e29052 ⚡ First pizza: Margherita.

d1e8c8c 🍕 First commit, the intent.

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Crafting your First Commits



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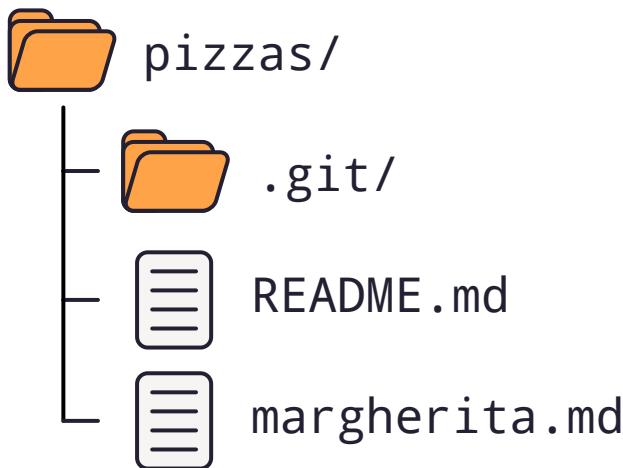
- Mozzarella

- Basil



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Margherita

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whether the cook is good.

Base: tomato sauce

Topping:
- Mozzarella

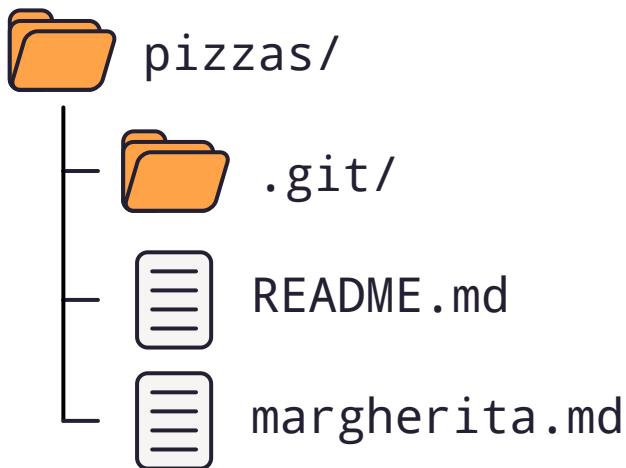
Note:

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



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Base: tomato sauce

Topping:

- Mozzarella

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~ margherita.md

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__Base:__ tomato sauce

__Topping:

- Mozzarella

+ *Note:*

+ It is said that this pizza

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+ on the Italian flag.

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+ and *authorized* to add

+ olive oil, salt, or oregano.

+ - Basil

\$ git diff

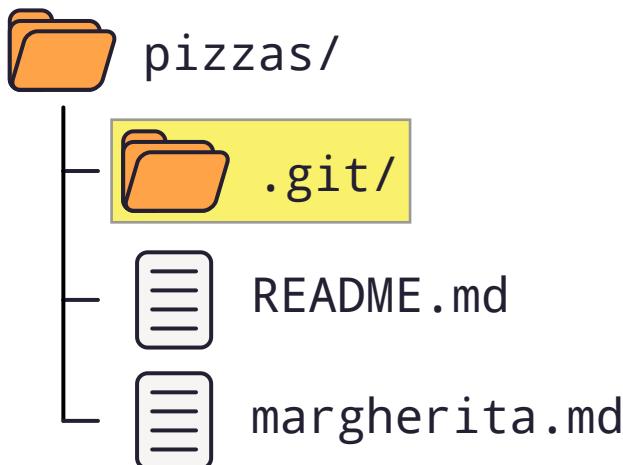
(HEAD → main)

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—Base:— tomato sauce

—Topping:—

- Mozzarella

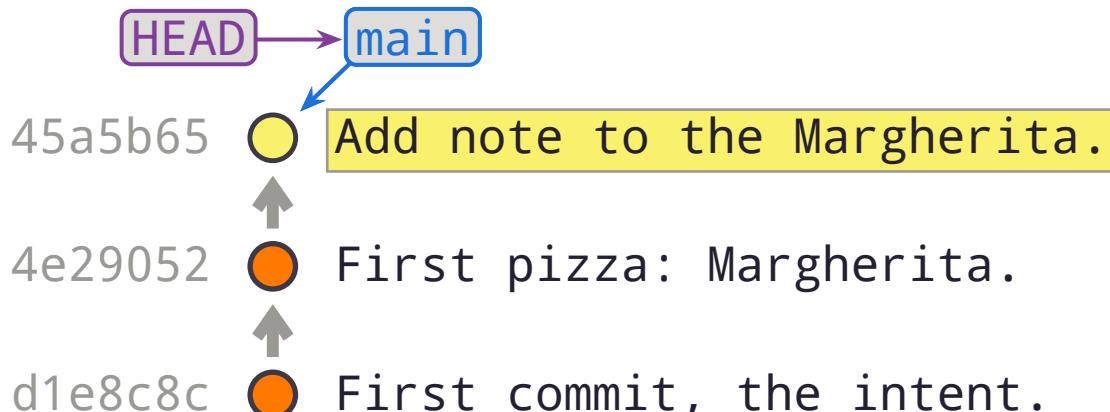
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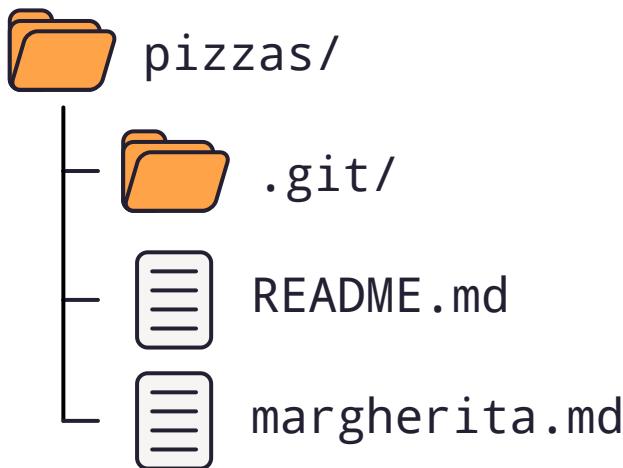
- Basil

\$ git commit



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Margherita

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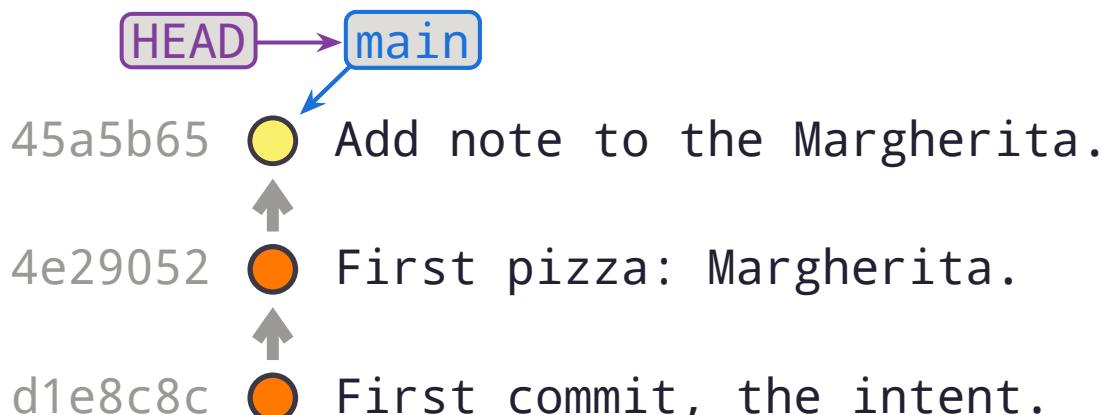
—Base:— tomato sauce

—Topping:—

- Mozzarella

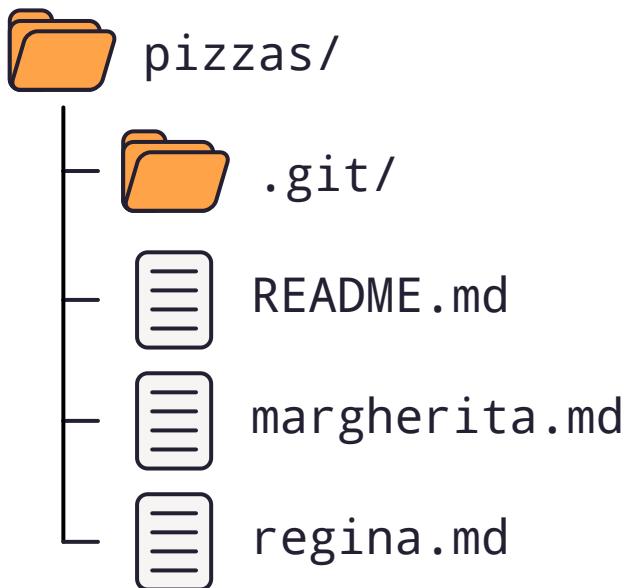
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The Pizzas Repository

Crafting your First Commits



README.md

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

- __Margherita__: `./margherita.md`
- __Regina__: `./regina.md`

margherita.md

Margherita

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

—Base:— tomato sauce
—Topping:
- Mozzarella

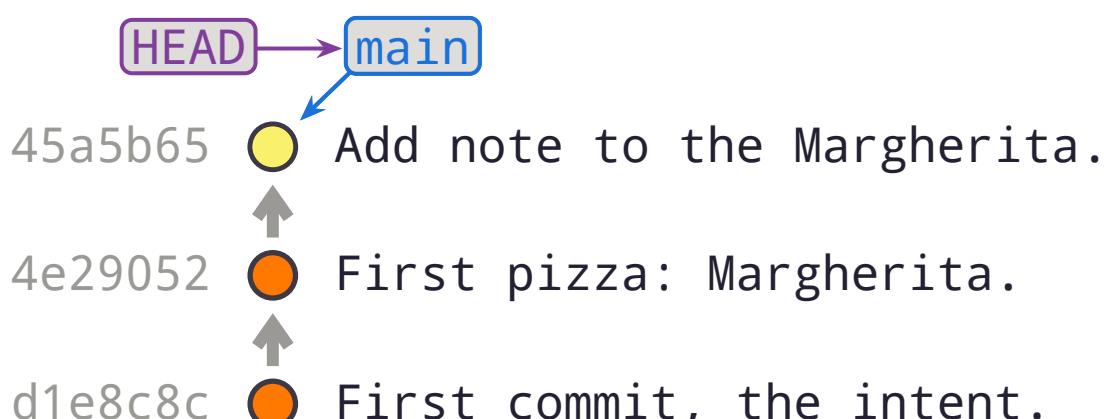
*Note:
It is said that this pizza has only three ingredients corresponding to the three colors on the Italian flag. Nevertheless, it is always good and *authorized* to add olive oil, salt, or oregano.
- Basil

regina.md

Regina

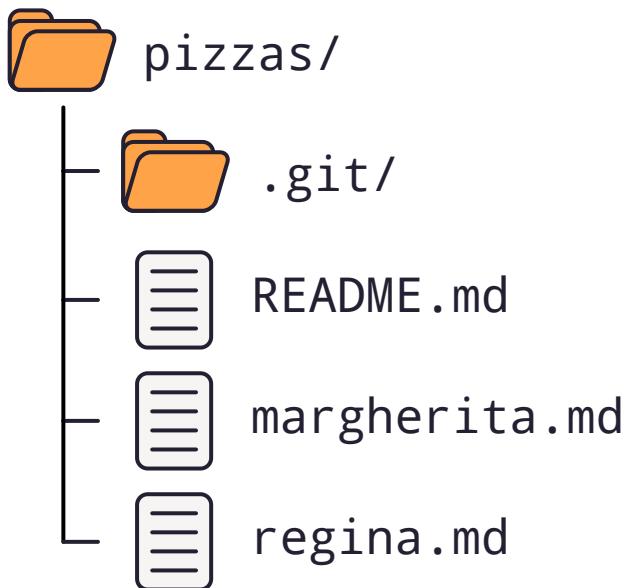
This audacious pizza would be named from queen Elena of Montenegro. Created by pizzaiolo Raffaele Esposito.

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



The Pizzas Repository

Crafting your First Commits



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margherita.md

Margherita

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

Base: tomato sauce
Topping:
- Mozzarella

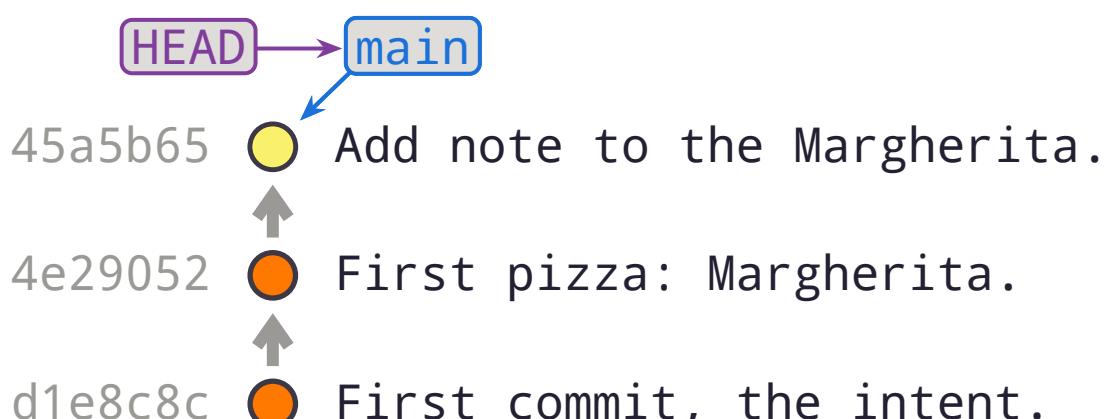
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regina.md

Regina

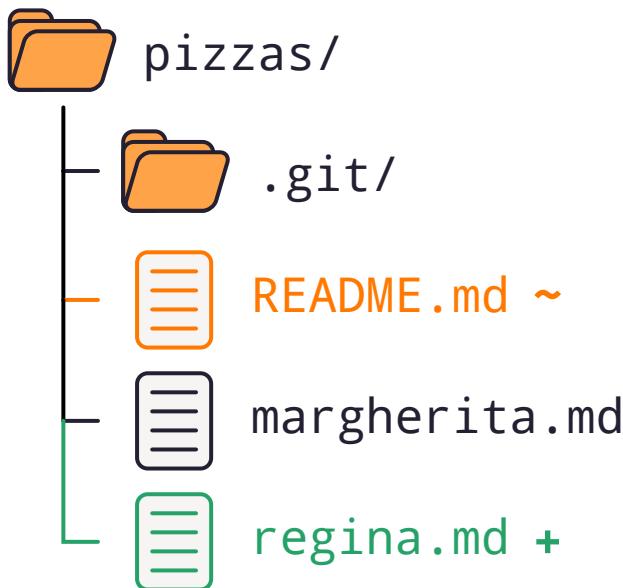
This audacious pizza
would be named from queen
Elena of Montenegro.
Created by pizzaiolo
Raffaele Esposito.

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



The Pizzas Repository

Crafting your First Commits



~ README.md

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

margherita.md

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

```
—Base:— tomato sauce  
—Topping:  
- Mozzarella
```

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

\$ git diff

HEAD → main

45a5b65 ⚡ Add note to the Margherita.

4e29052 🍕 First pizza: Margherita.

d1e8c8c 🍕 First commit, the intent.

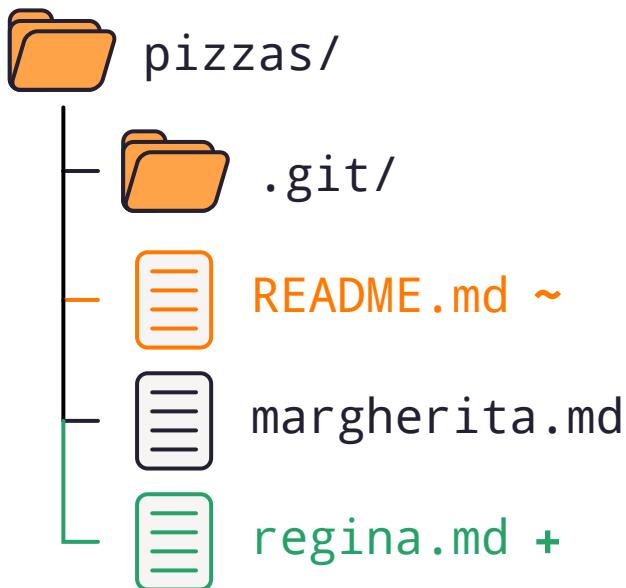
+ regina.md

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

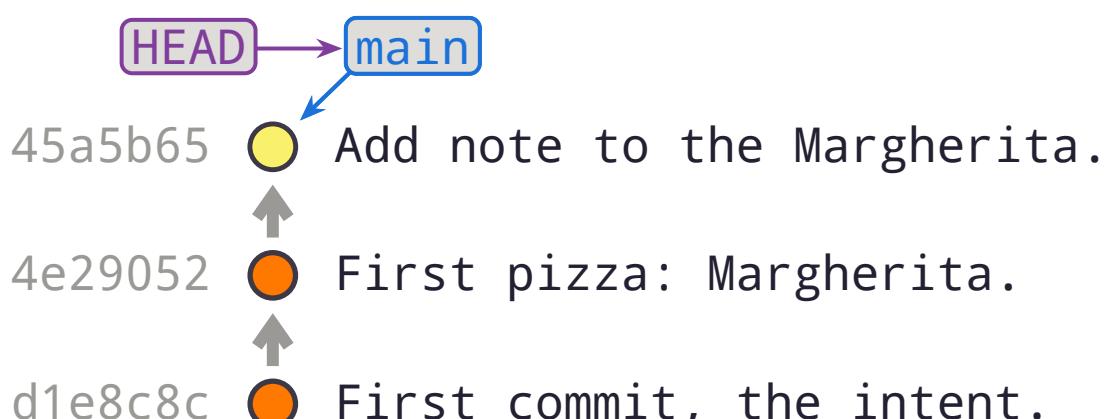
```
—Base:— tomato sauce  
—Topping:  
- Mozzarella  
- Ham  
- Mushrooms
```

The Pizzas Repository

Crafting your First Commits



```
$ git status
```



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margherita.md

Margherita
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—Base: tomato sauce
—Topping:
- Mozzarella

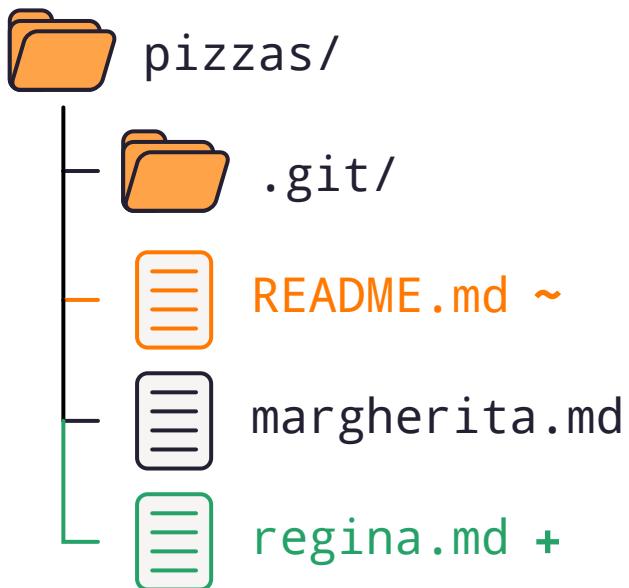
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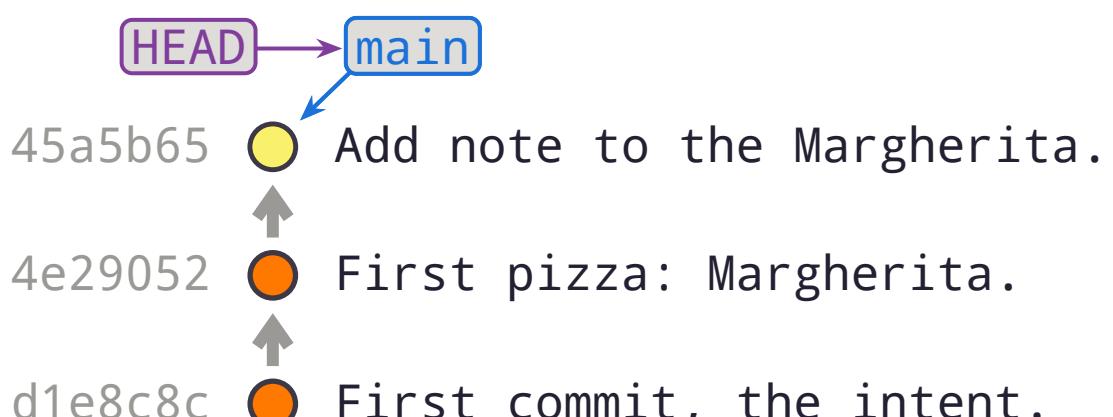
regina.md

Regina

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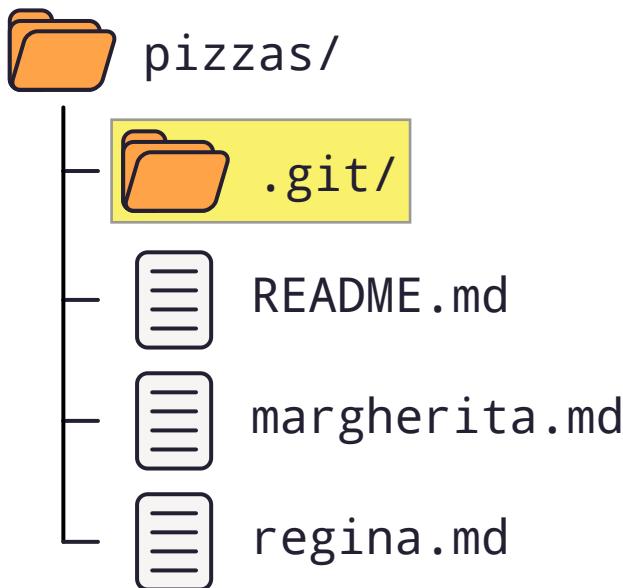
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\$ git commit

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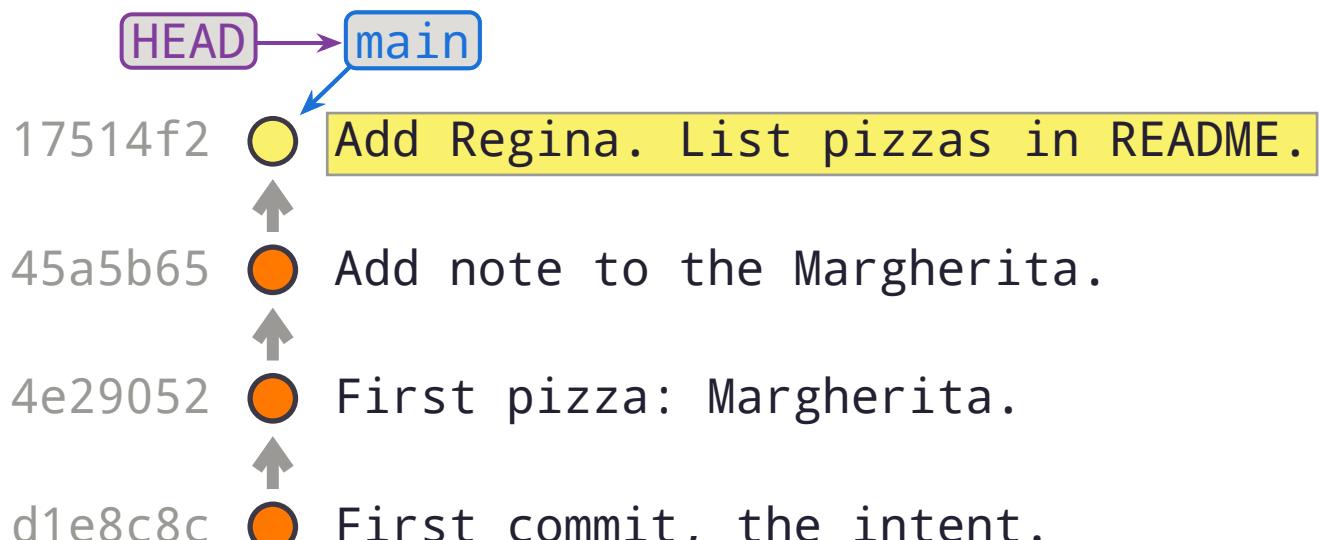
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Regina

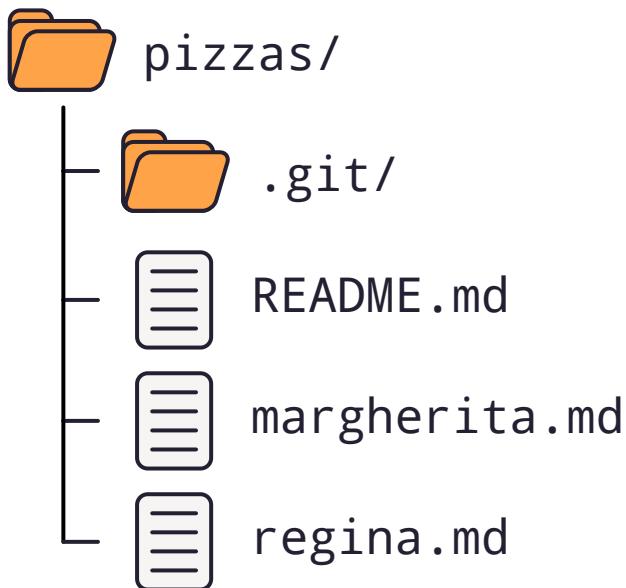
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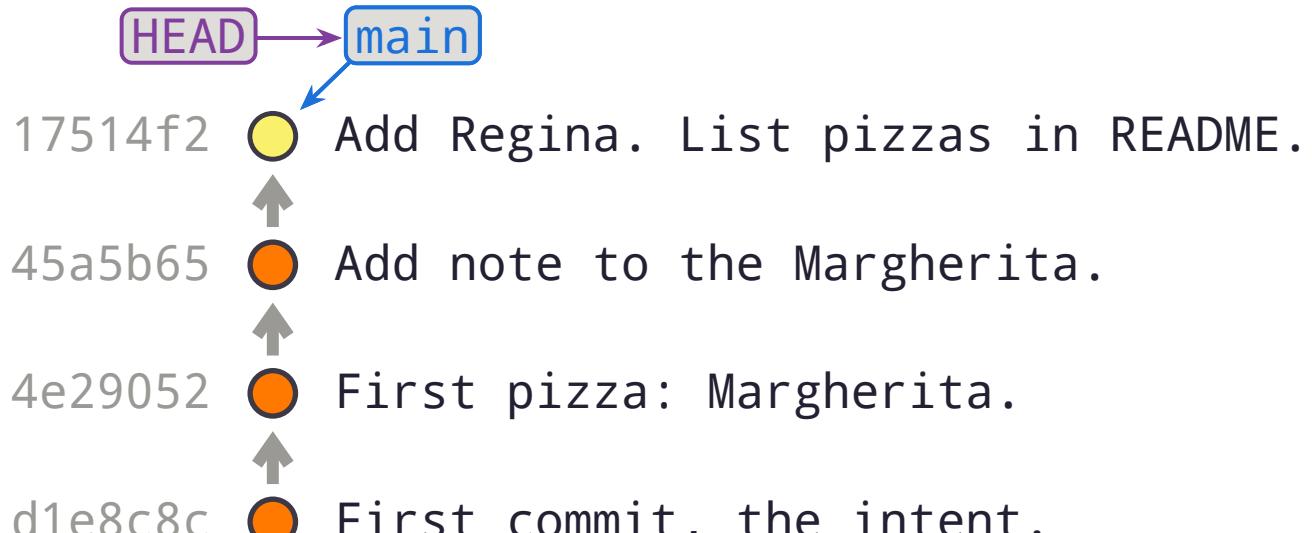
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- Basil



regina.md

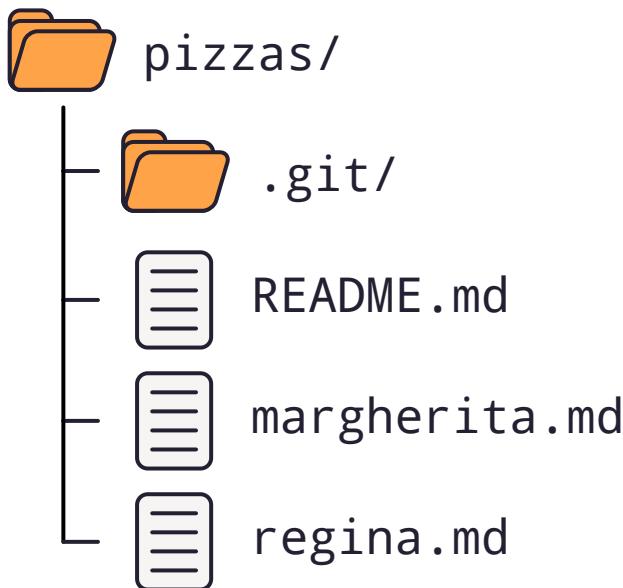
Regina

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

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

The Pizzas Repository

Crafting your First Commits



```
$ git checkout 45a5b65
```

README.md

Collect and distribute the best pizzas recipes.

Where to find the pizzas in the project:

- __Margherita__: `./margherita.md`
- __Regina__: `./regina.md`

margherita.md

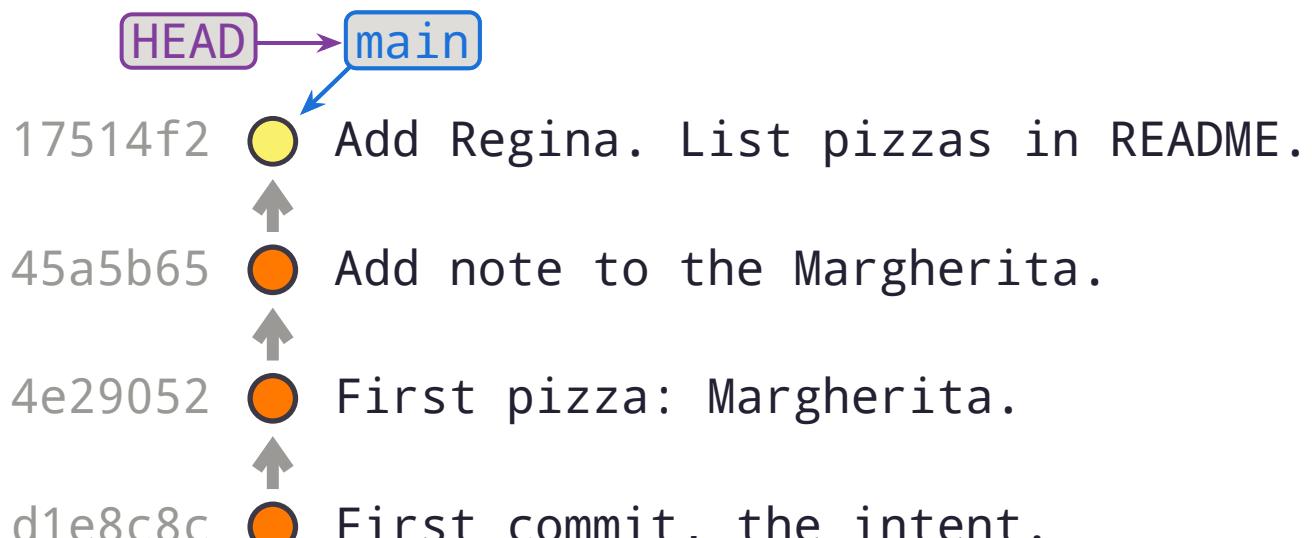
Margherita

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

—Base:__ tomato sauce
—Topping:
- Mozzarella

Note:

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



regina.md

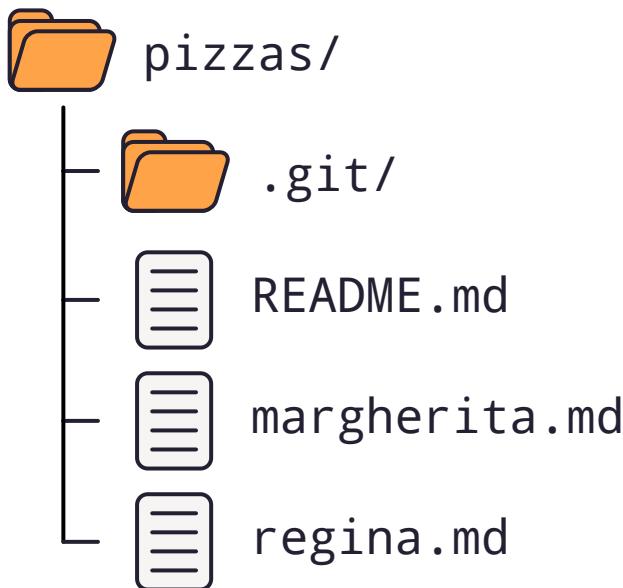
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margherita.md

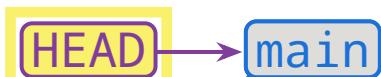
Margherita
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Base: tomato sauce
Topping:

- Mozzarella

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- Basil

```
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```



- 17514f2 ⚡ Add Regina. List pizzas in README.
- 45a5b65 ⚡ Add note to the Margherita.
- 4e29052 ⚡ First pizza: Margherita.
- d1e8c8c ⚡ First commit, the intent.
- A list of commits showing the history of the repository. The first commit is 'First commit, the intent.' (d1e8c8c). The second commit is 'First pizza: Margherita.' (4e29052). The third commit is 'Add note to the Margherita.' (45a5b65). The fourth commit is 'Add Regina. List pizzas in README.' (17514f2). The HEAD is currently pointing to the 'main' branch.

regina.md

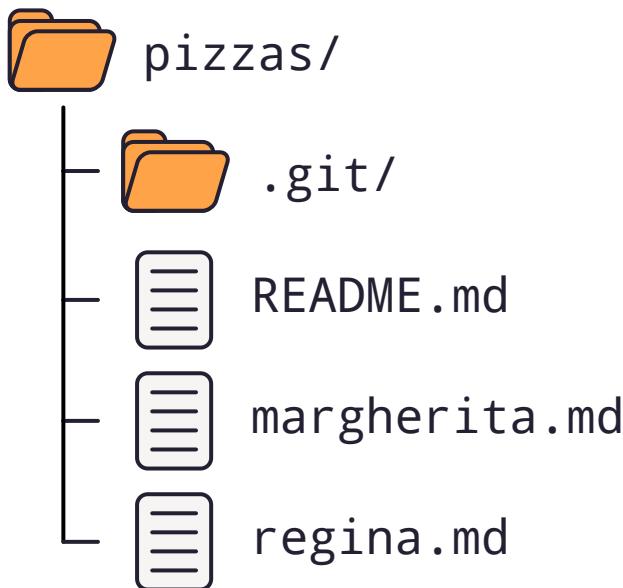
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margherita.md

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—Base:__ tomato sauce
—Topping:
- Mozzarella

Note:

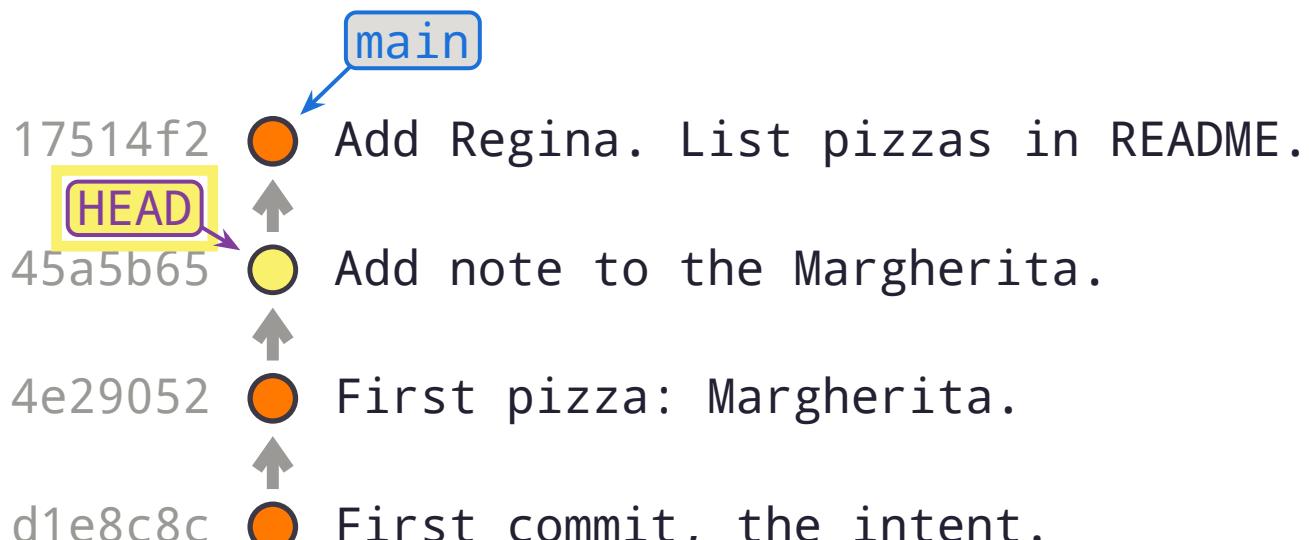
It is said that this pizza has only three ingredients corresponding to the three colors on the Italian flag. Nevertheless, it is always good and *authorized* to add olive oil, salt, or oregano.
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regina.md

Regina

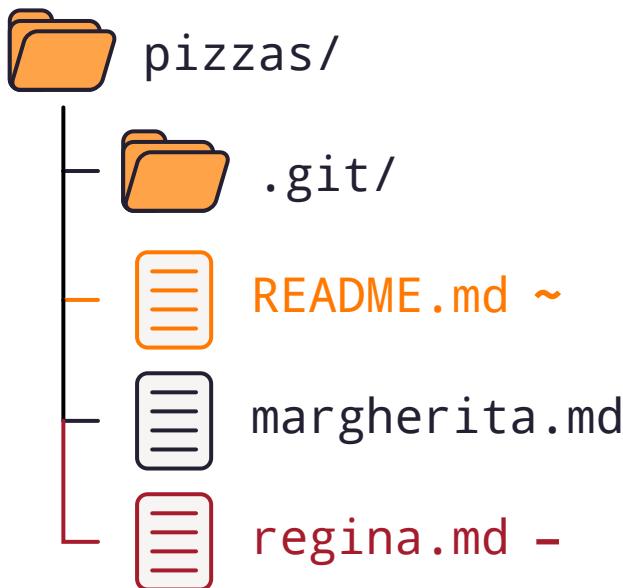
This audacious pizza would be named from queen Elena of Montenegro. Created by pizzaiolo Raffaele Esposito.

—Base:__ tomato sauce
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- Ham
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The Pizzas Repository

Crafting your First Commits



~ README.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

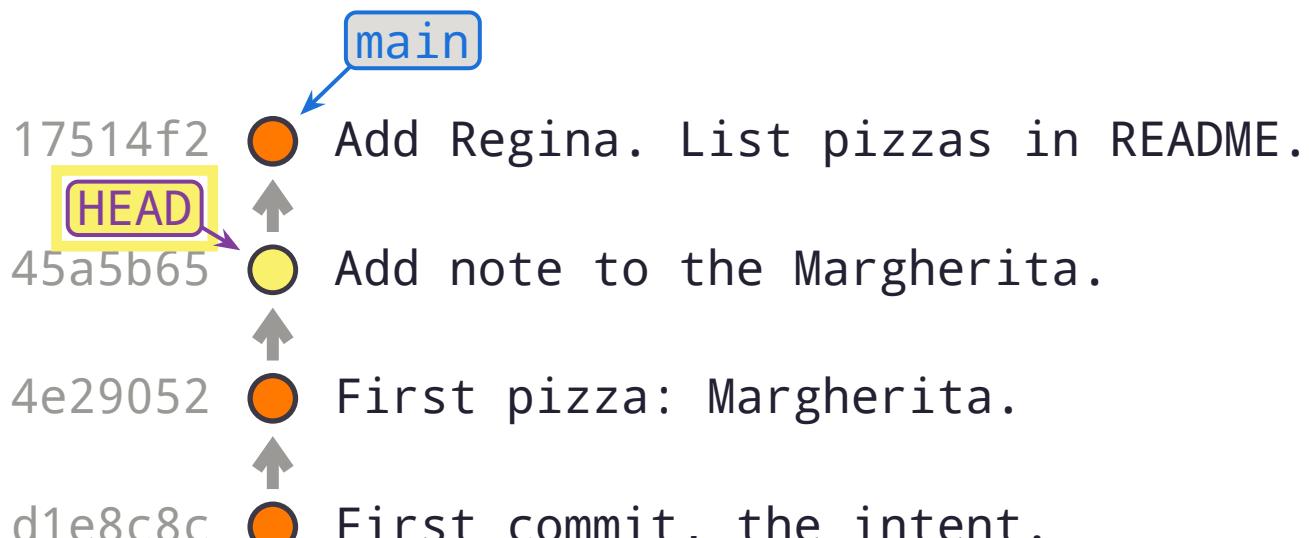
*Note:

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$ git checkout 45a5b65
```



regina.md

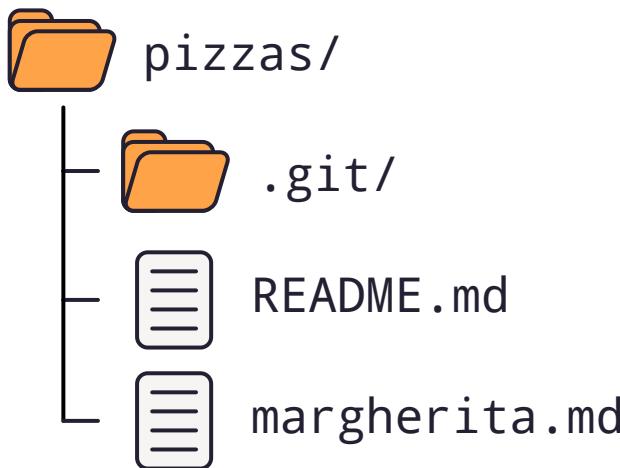
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The Pizzas Repository

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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

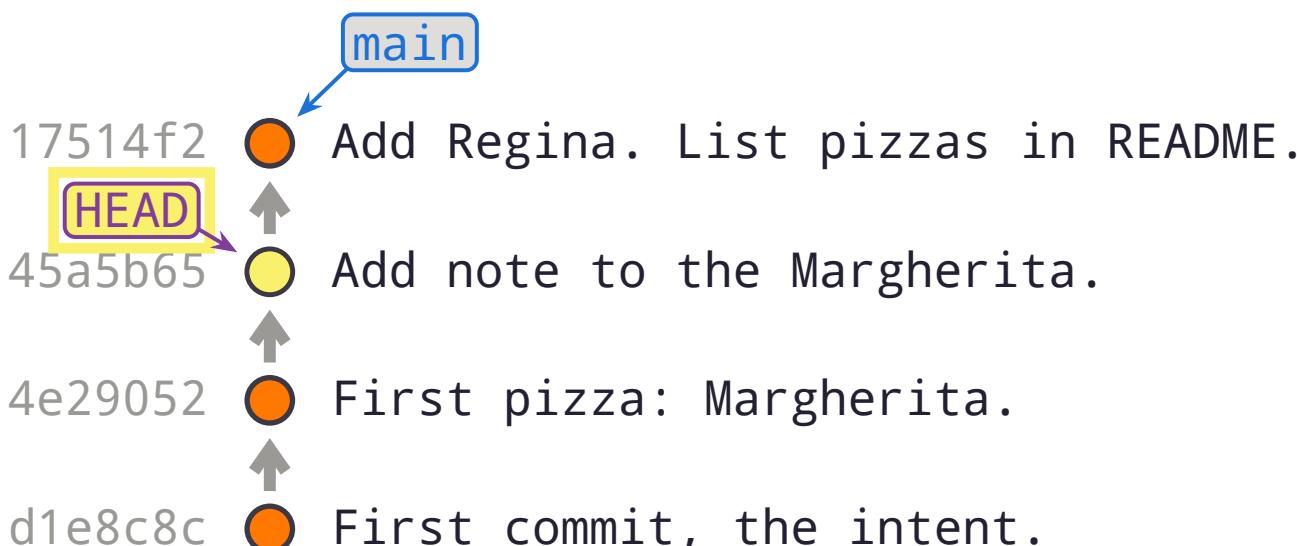
—Topping:

- Mozzarella

Note:

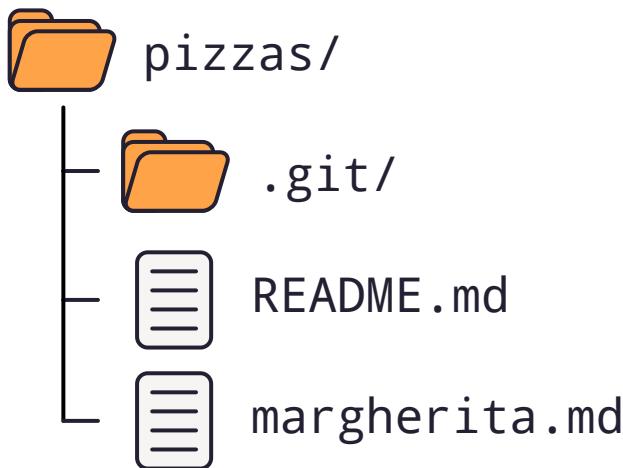
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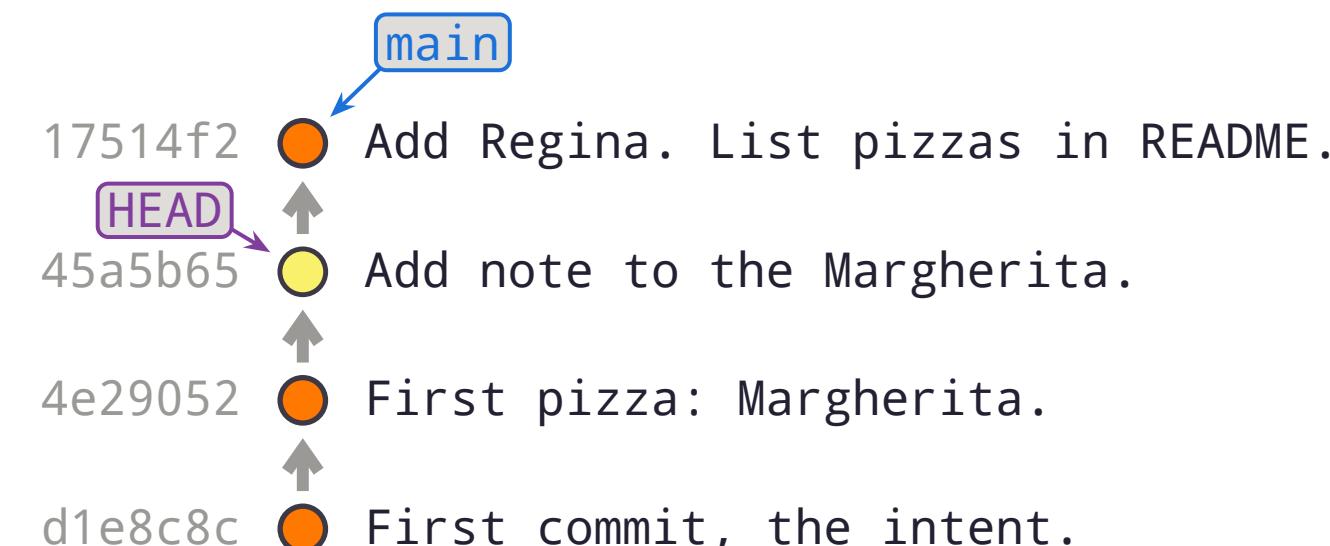
—Base:— tomato sauce

—Topping:—

- Mozzarella

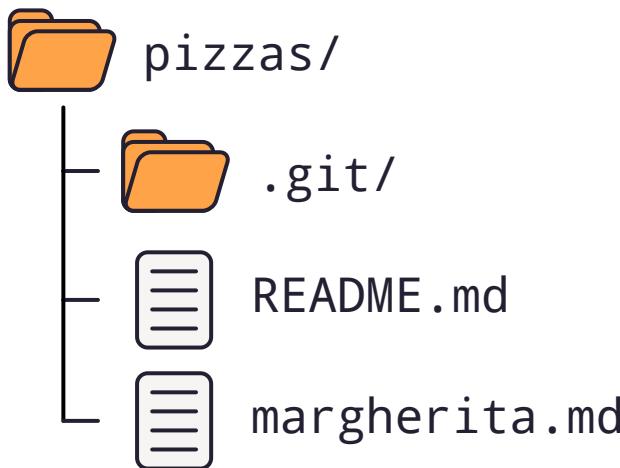
Note:

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The Pizzas Repository

Crafting your First Commits



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margherita.md

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

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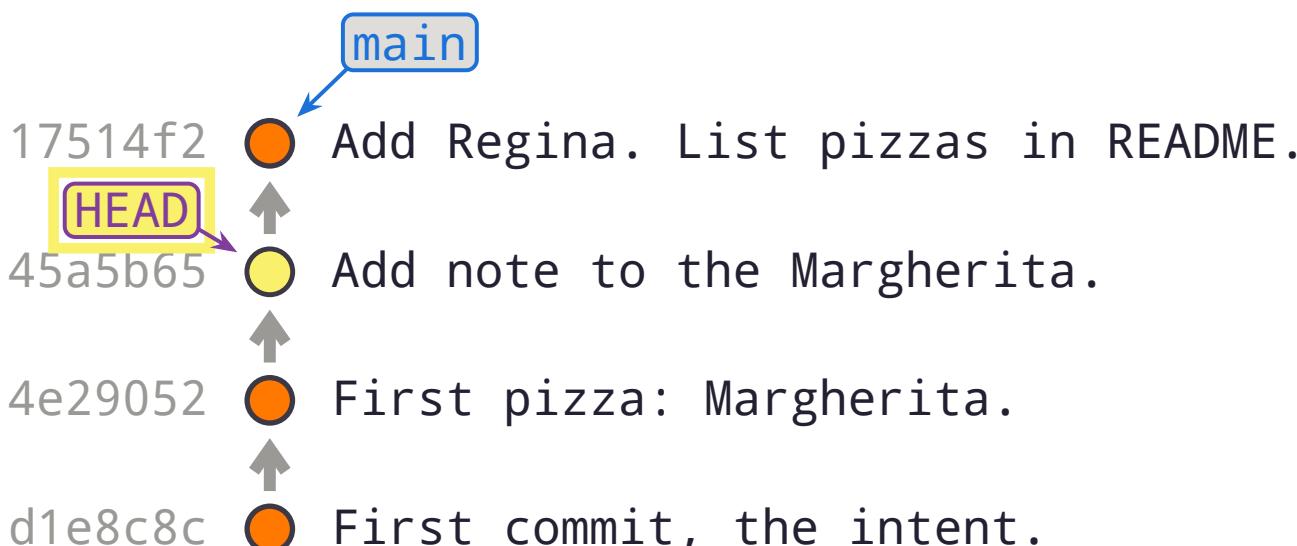
—Topping:—

- Mozzarella

Note:

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Nevertheless, it is always good
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- Basil

```
$ git checkout d1e8c8c
```



The Pizzas Repository

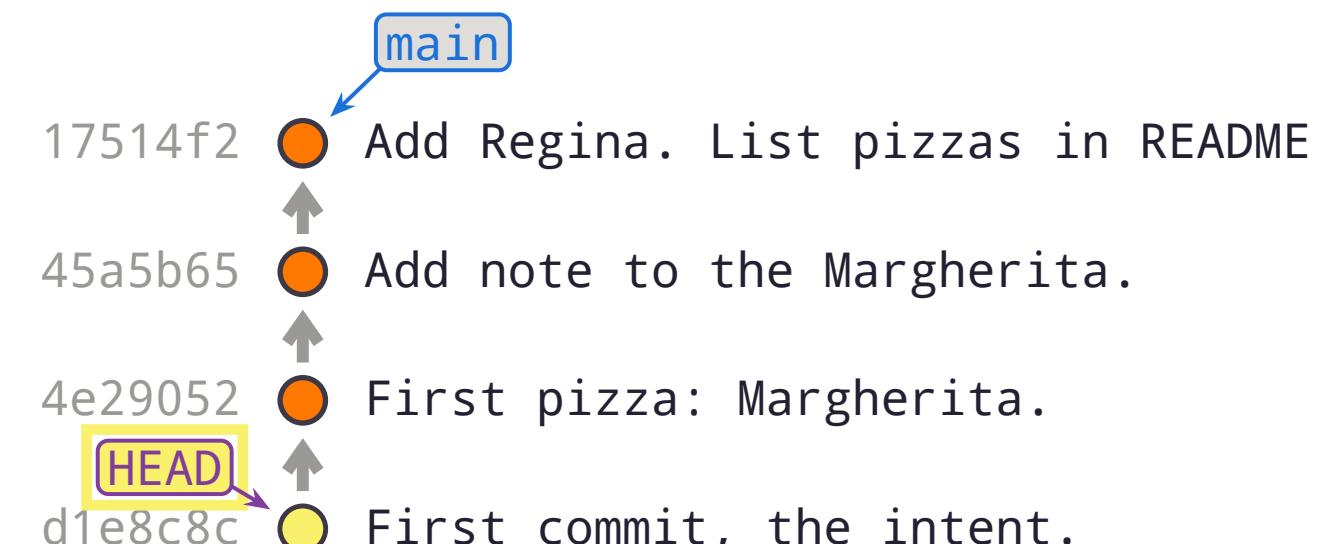
Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

```
$ git checkout d1e8c8c
```



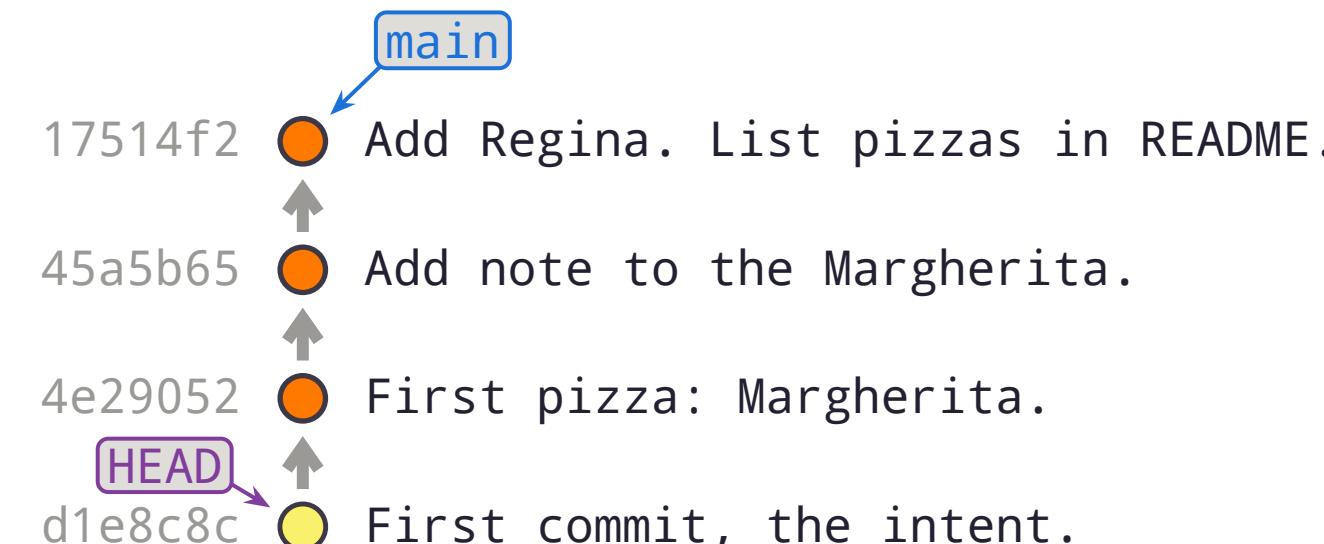
The Pizzas Repository

Crafting your First Commits



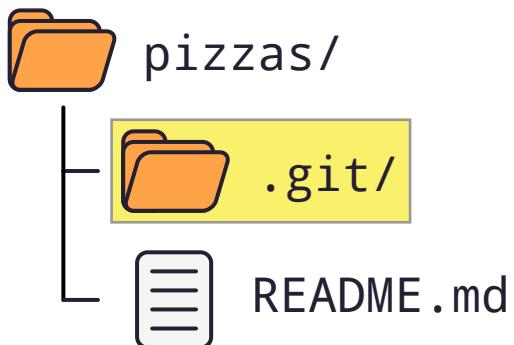
README.md

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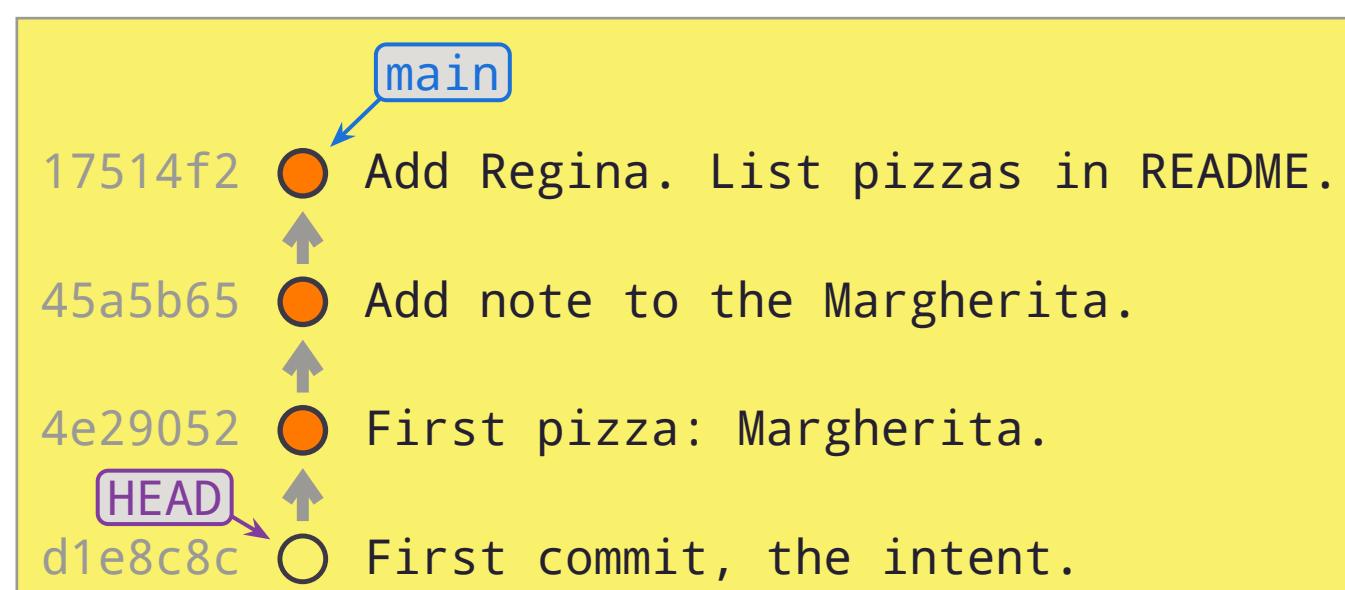
The Pizzas Repository

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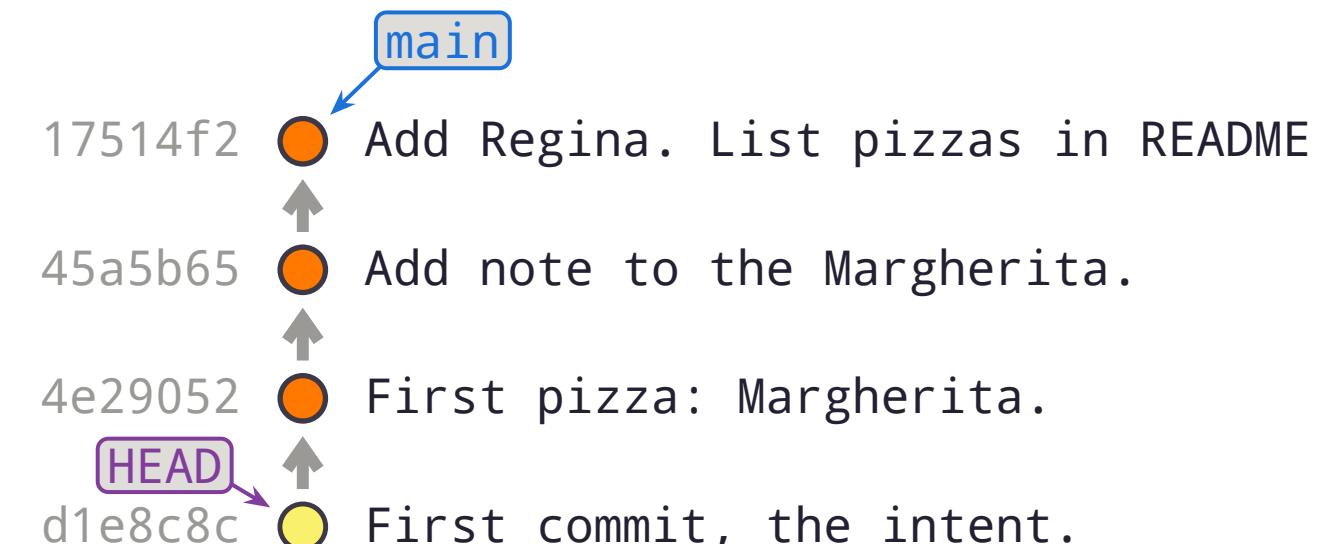
The Pizzas Repository

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The Pizzas Repository

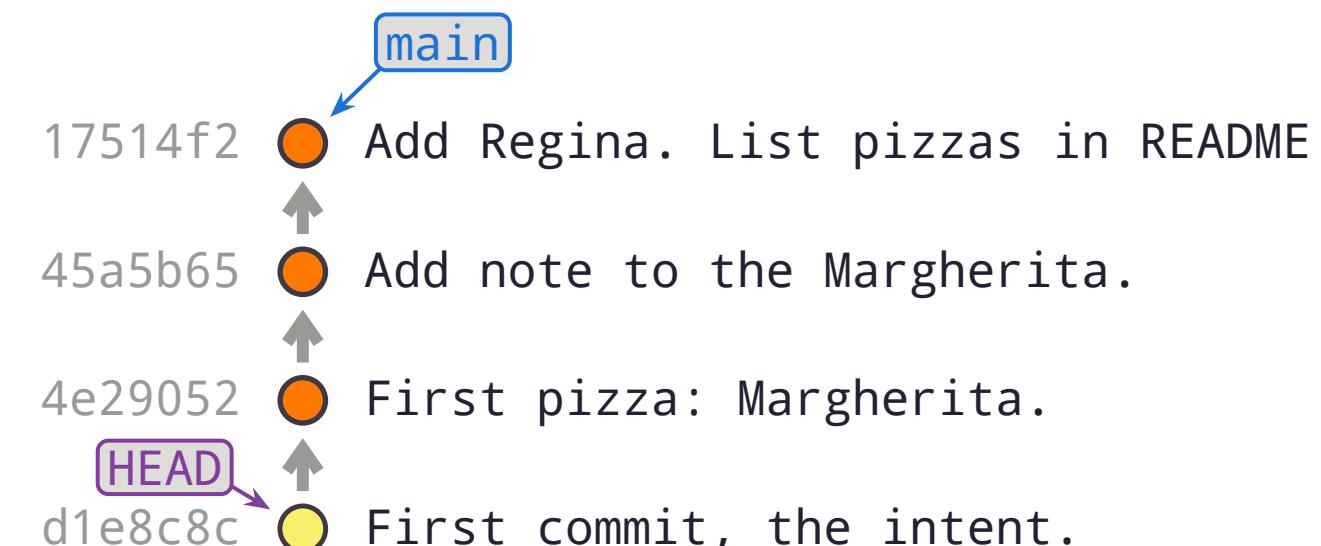
Crafting your First Commits



README.md

Collect and distribute the best pizzas recipes.

```
$ git checkout 17514f2
```



The Pizzas Repository

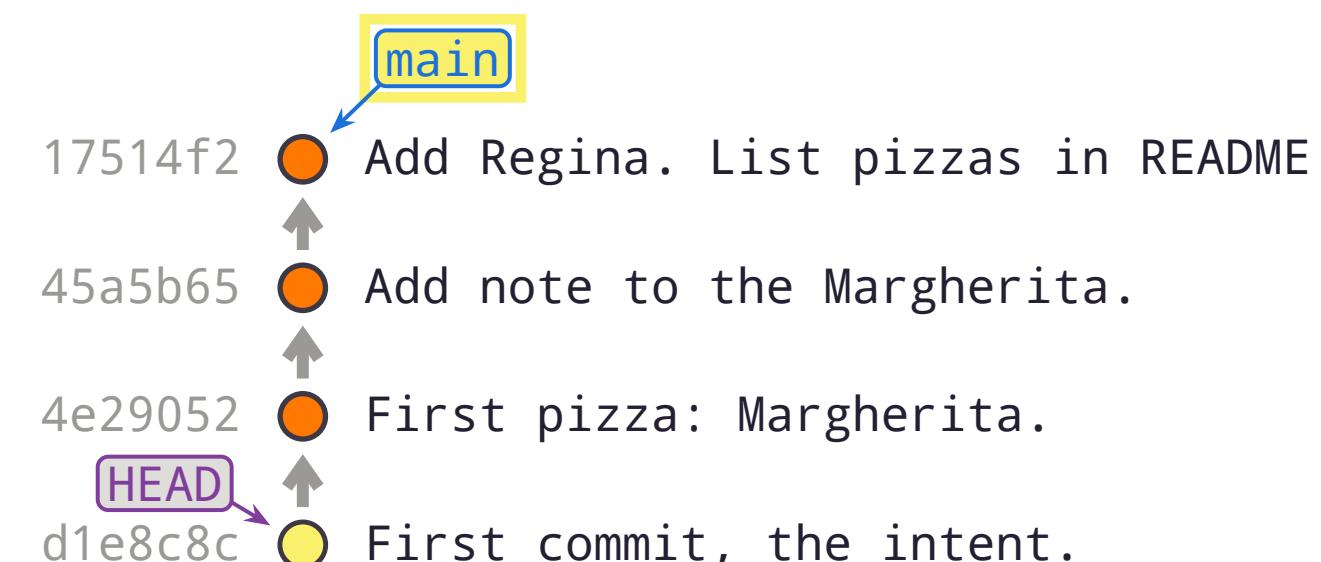
Crafting your First Commits



README.md

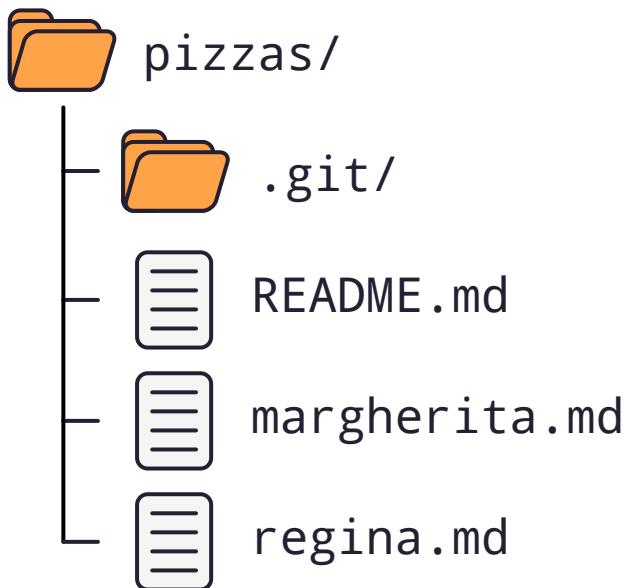
Collect and distribute the best pizzas recipes.

```
$ git checkout main
```



The Pizzas Repository

Crafting your First Commits



```
$ git checkout main
```

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margherita.md

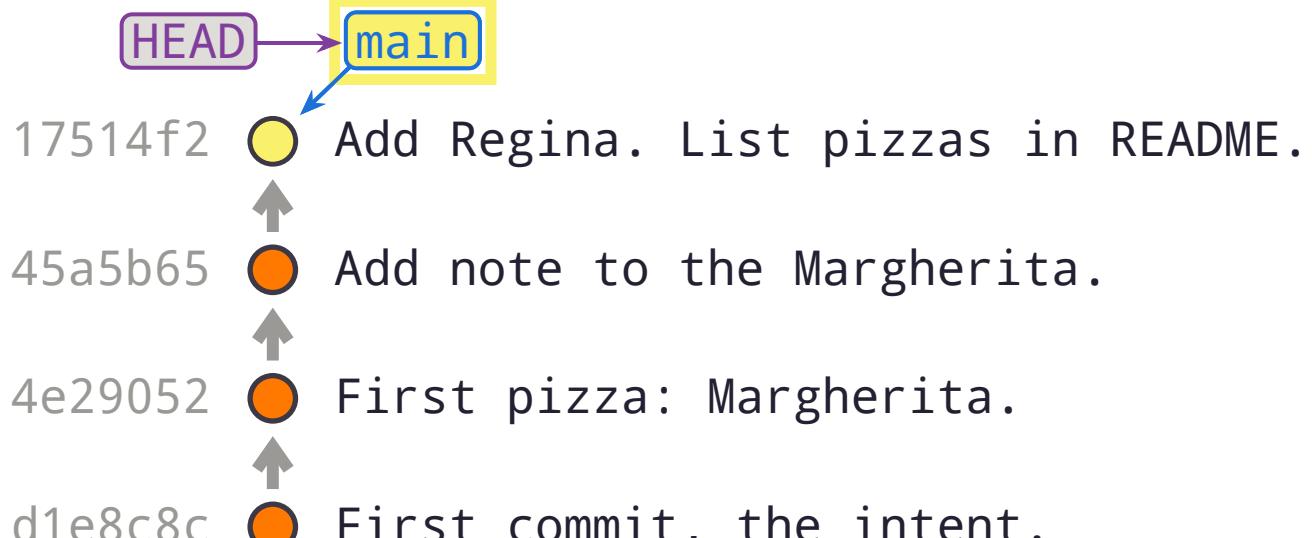
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regina.md

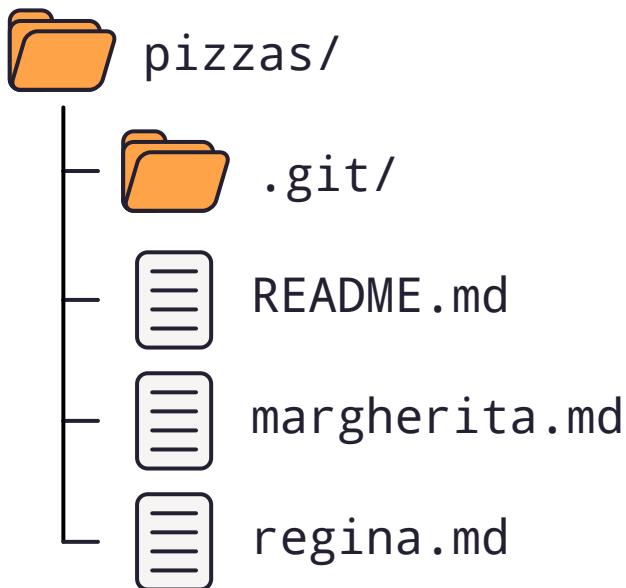
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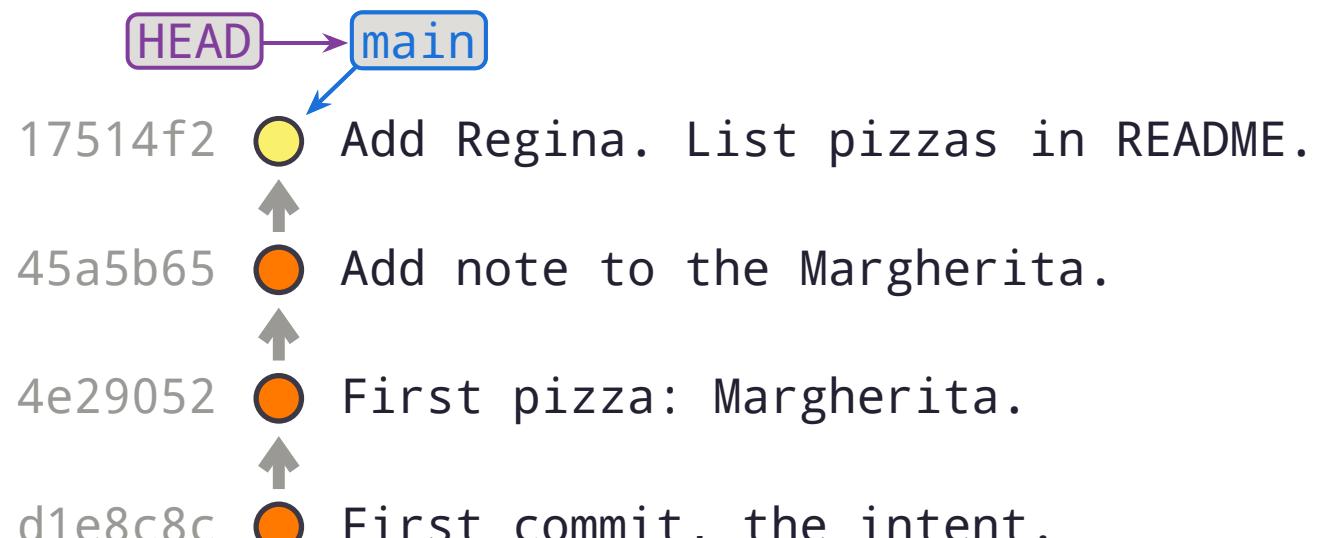
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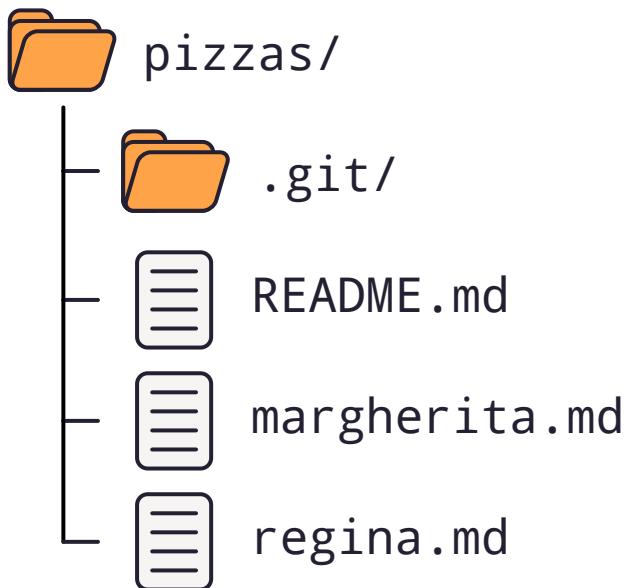
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HEAD → main

- 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

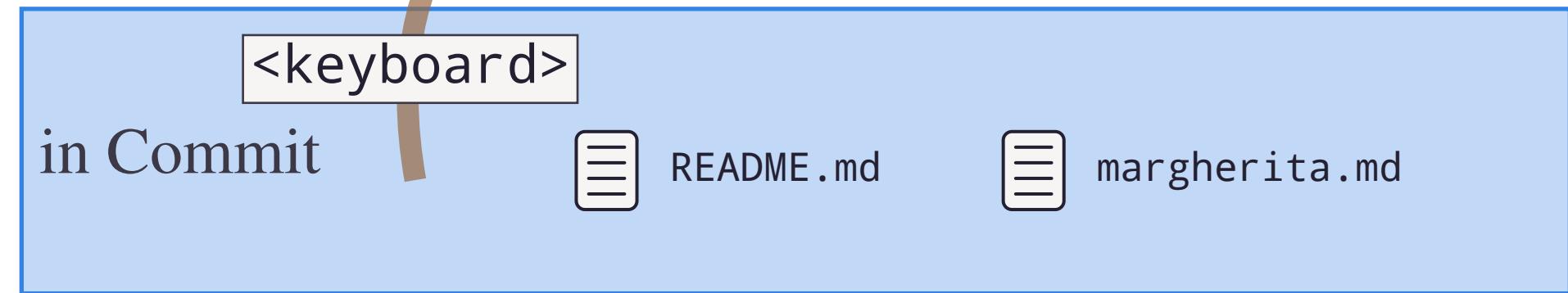
The Whole Process

???????

Next commit.

a03a2bb

One commit.



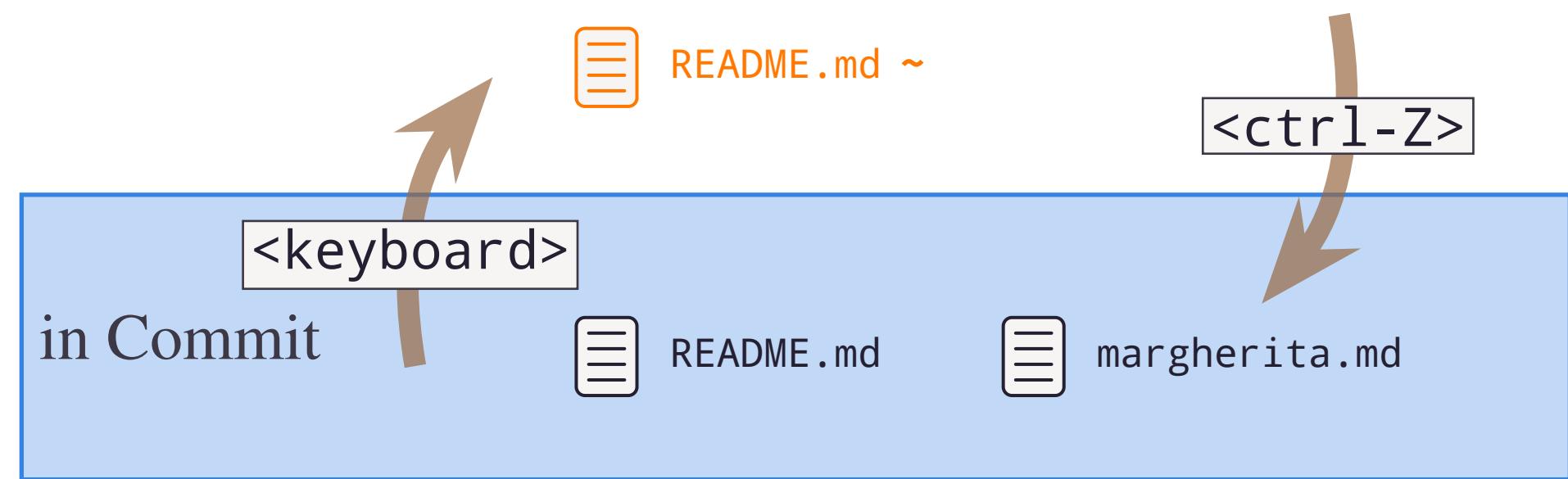
Constructing a Commit

The Whole Process

???????

● Next commit.

a03a2bb ● One commit.

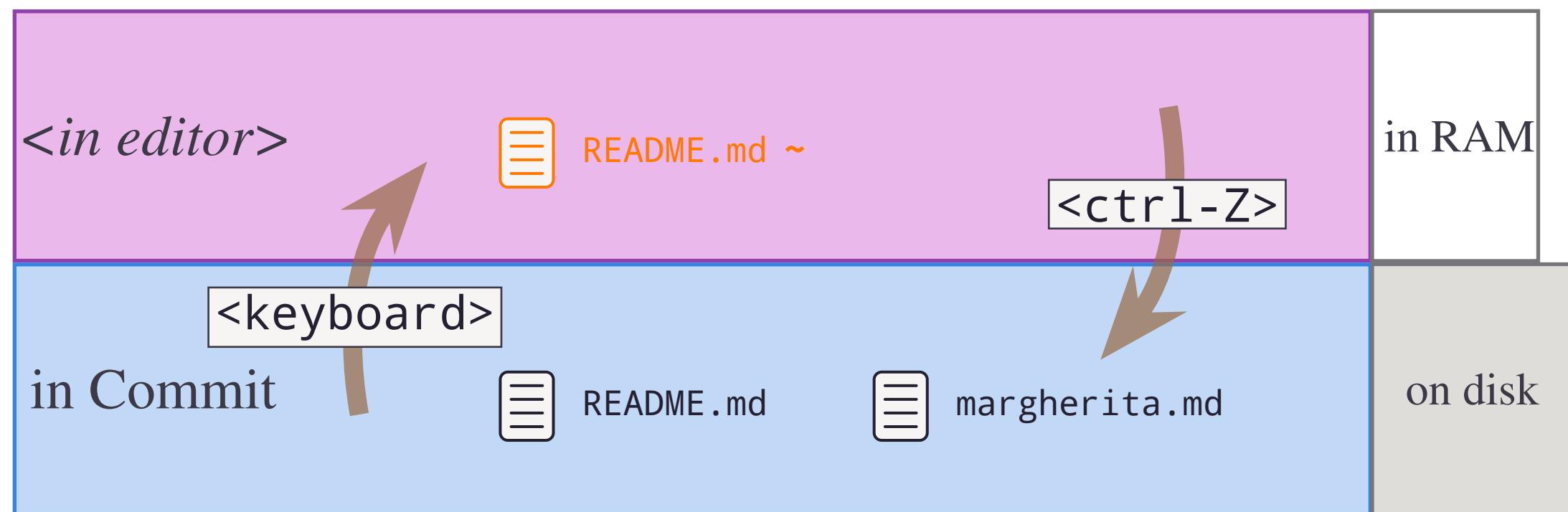


Constructing a Commit

The Whole Process

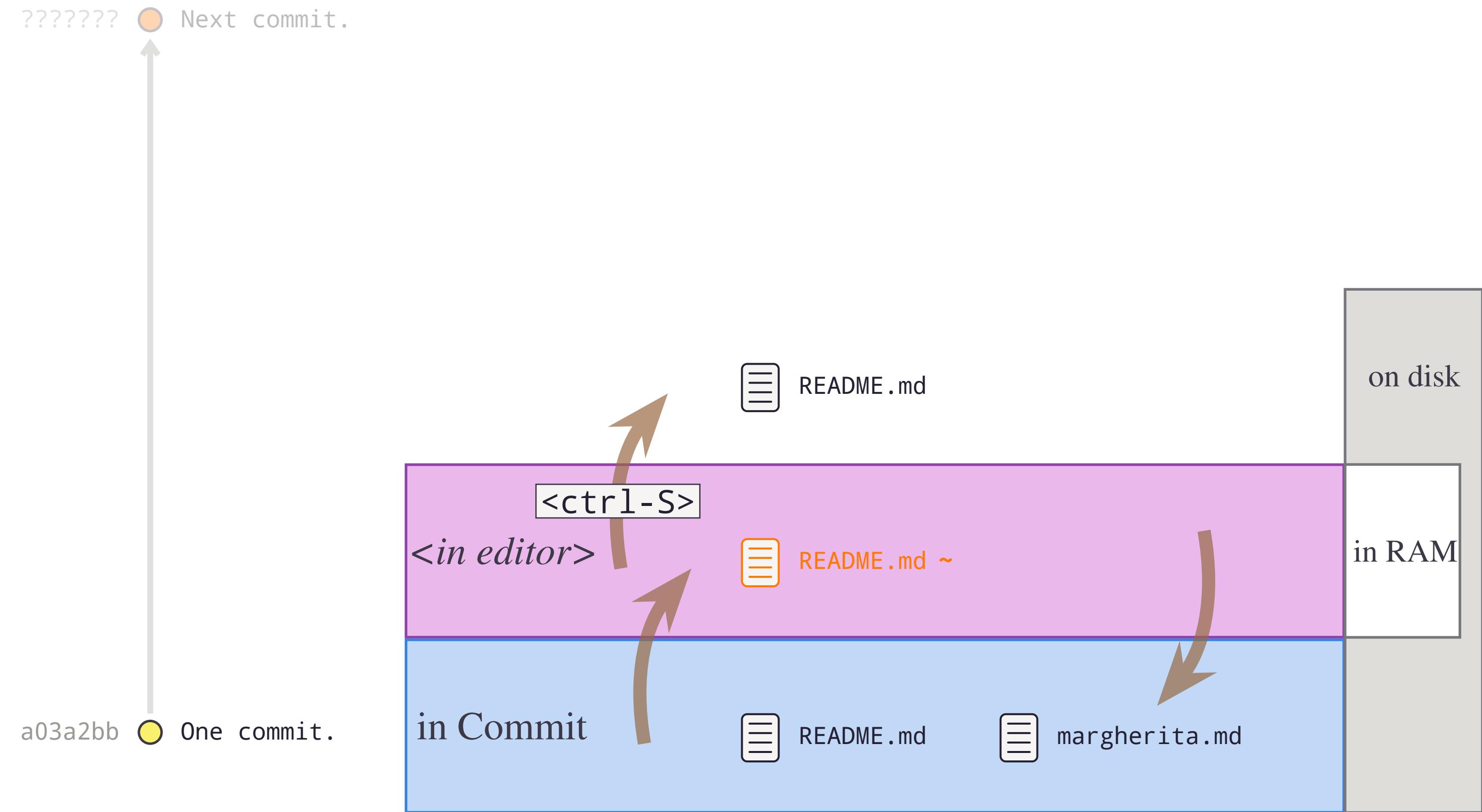
??????  Next commit.

a03a2bb  One commit.



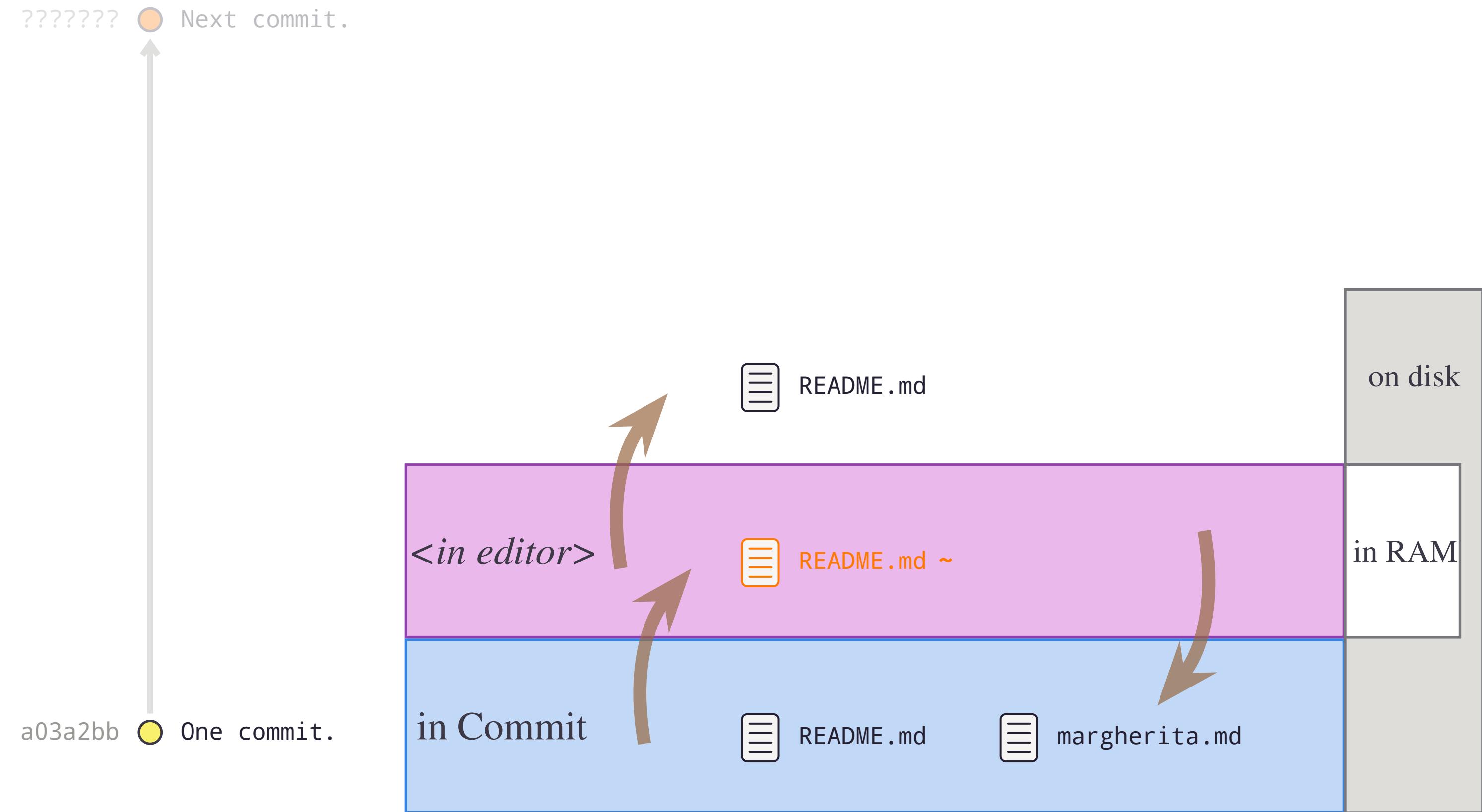
Constructing a Commit

The Whole Process



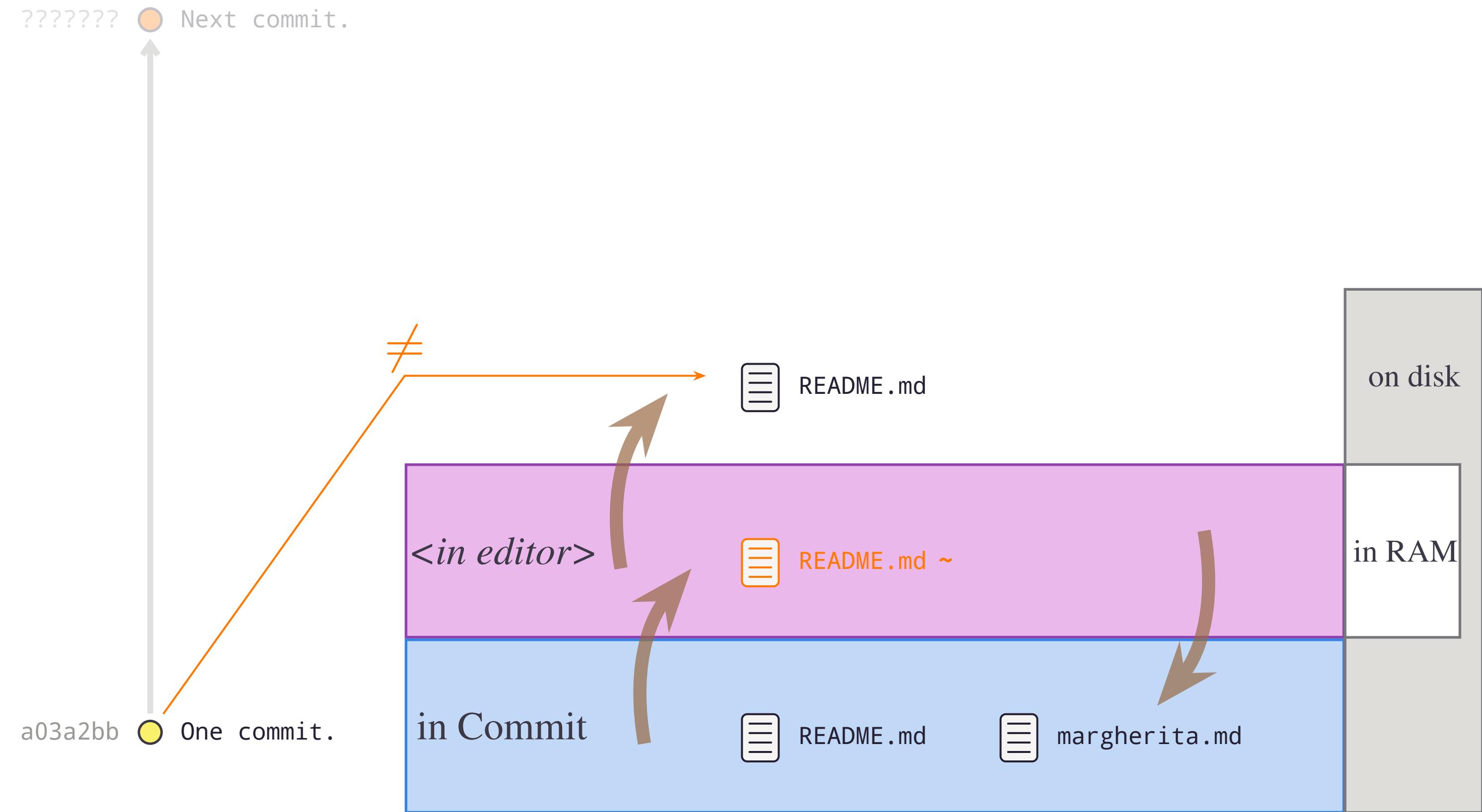
Constructing a Commit

The Whole Process



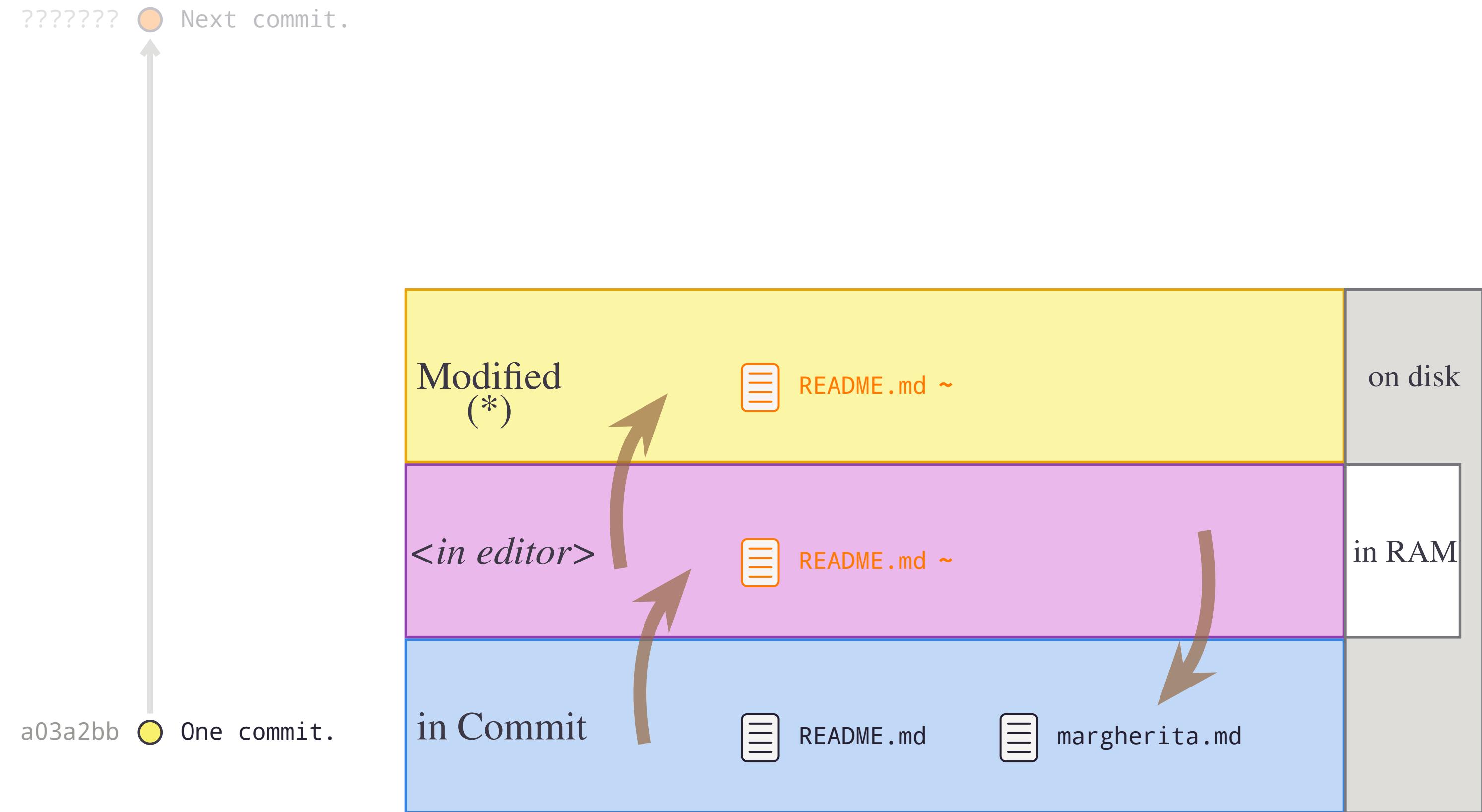
Constructing a Commit

The Whole Process



Constructing a Commit

The Whole Process



Constructing a Commit

The Whole Process

???????

● Next commit.

in Commit

Modified
(*)



README.md ~

<in editor>



README.md ~

in Commit



README.md



margherita.md

on disk

in RAM

a03a2bb

● One commit.

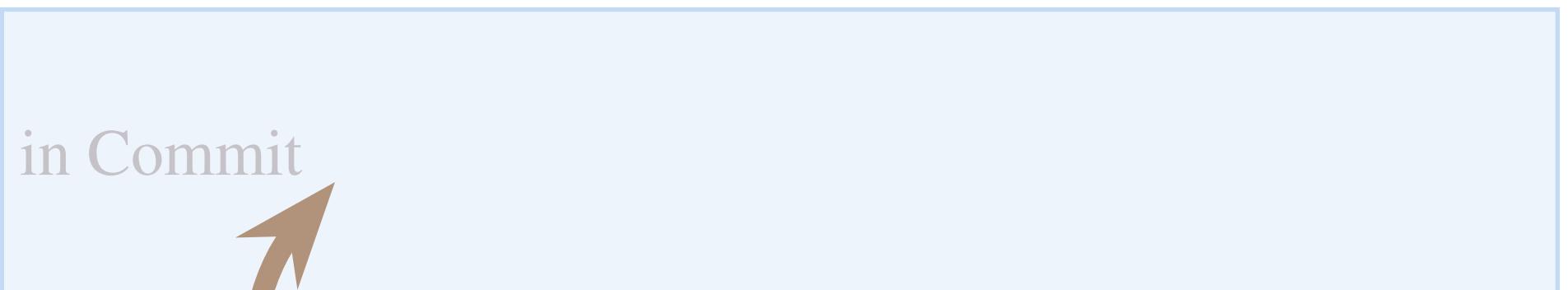


Constructing a Commit

The Whole Process

???????

● Next commit.



Modified
(*)

README.md ~

<in editor>

README.md ~

in Commit

README.md

margherita.md

on disk

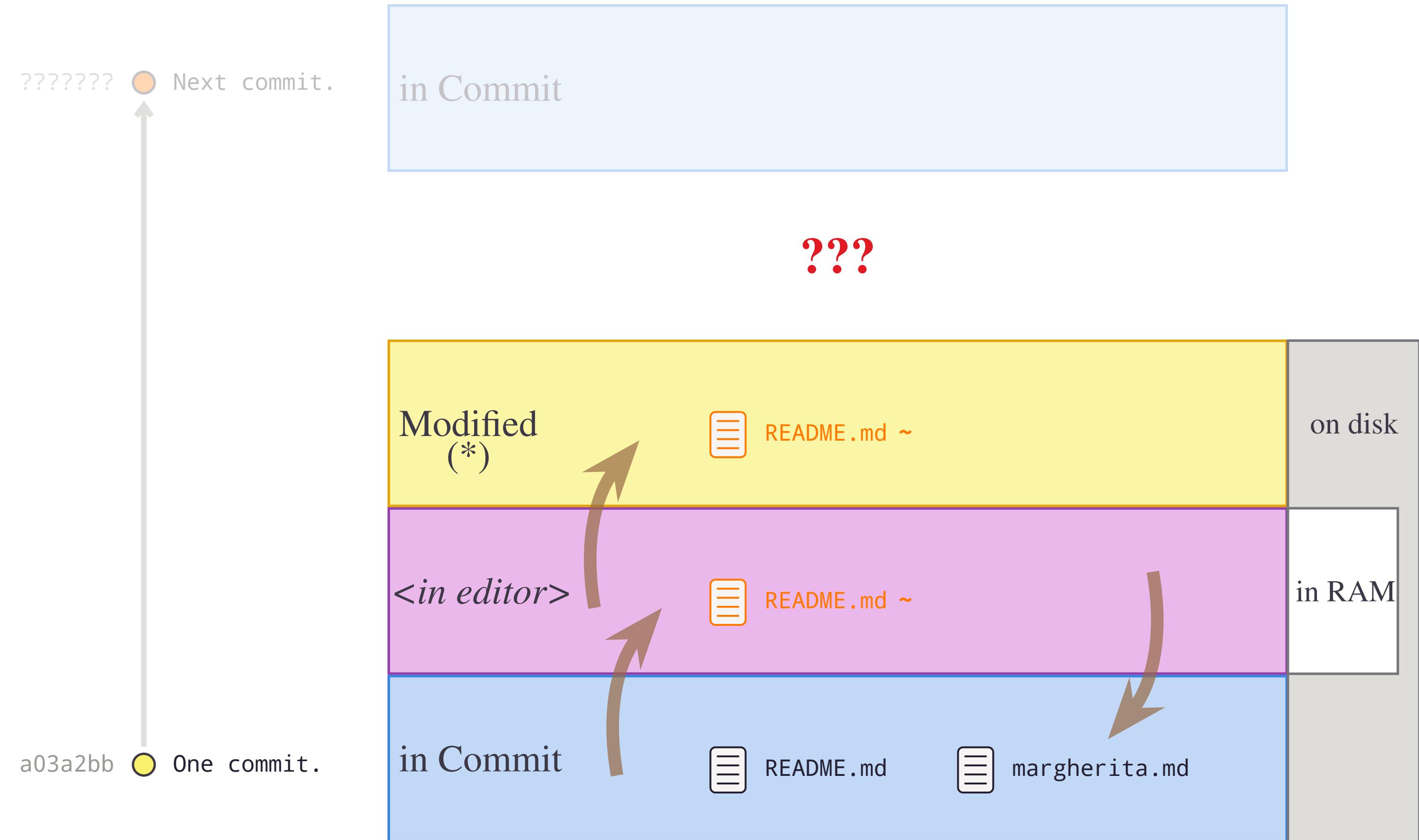
in RAM

a03a2bb

● One commit.

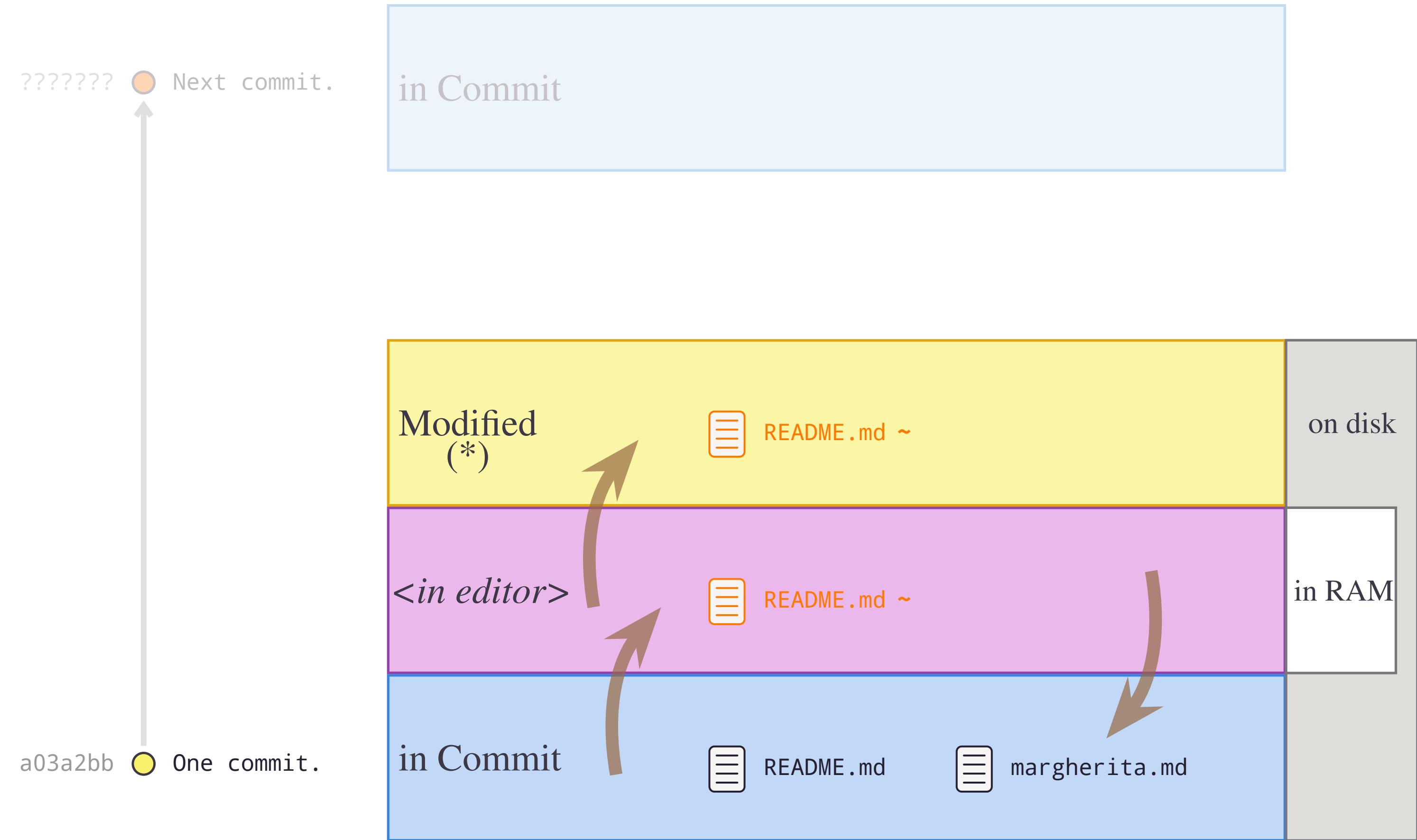
Constructing a Commit

The Whole Process



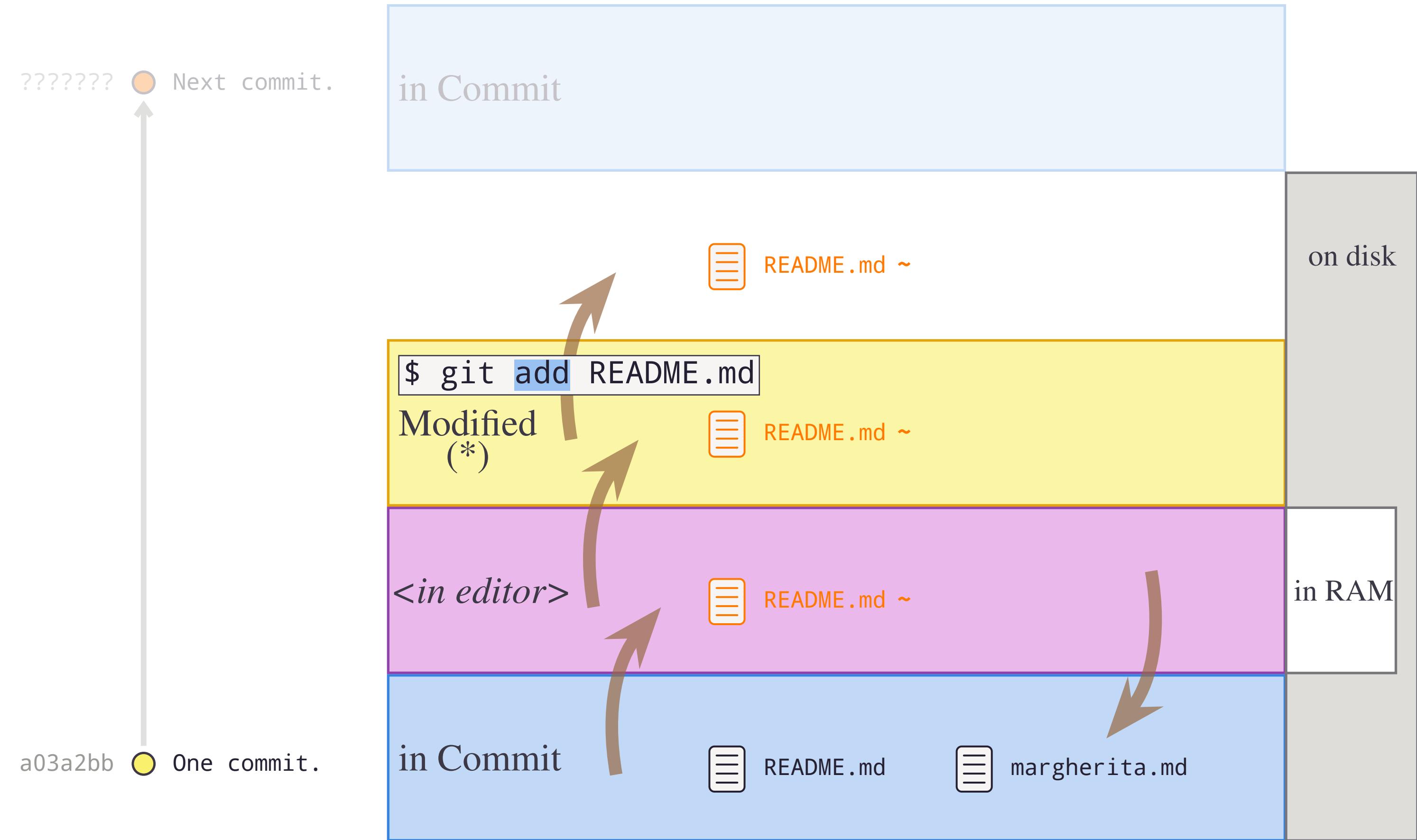
Constructing a Commit

The Whole Process



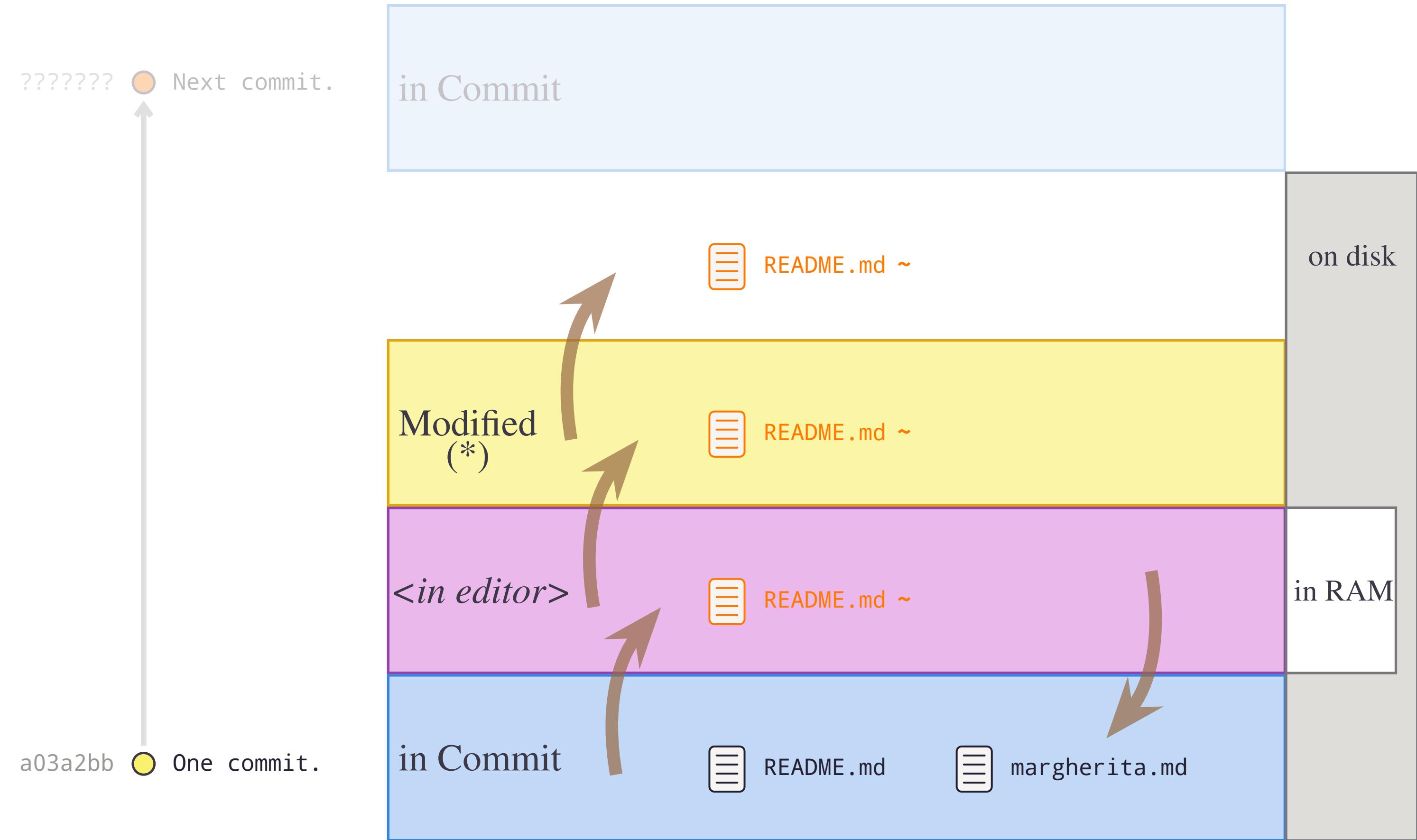
Constructing a Commit

The Whole Process



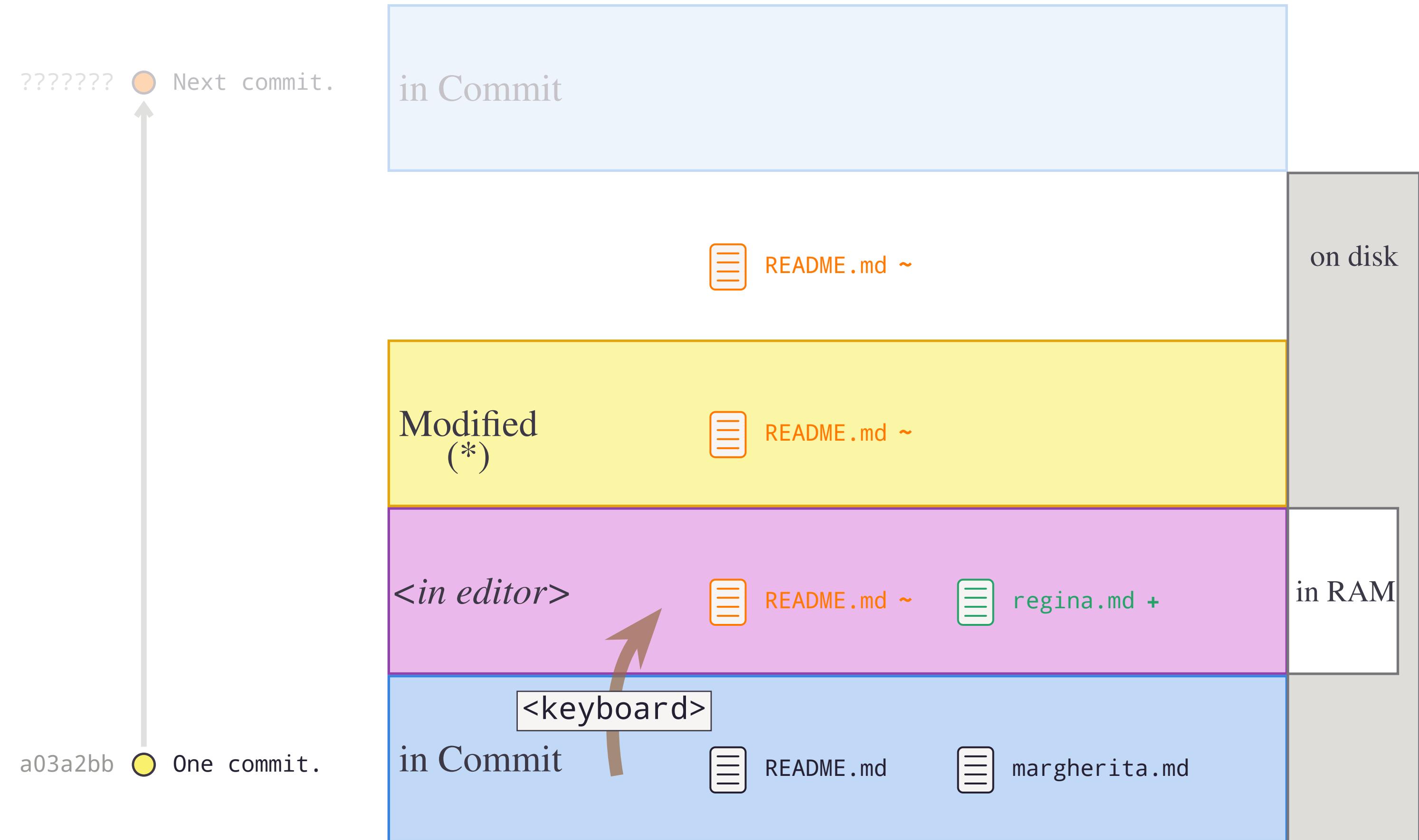
Constructing a Commit

The Whole Process



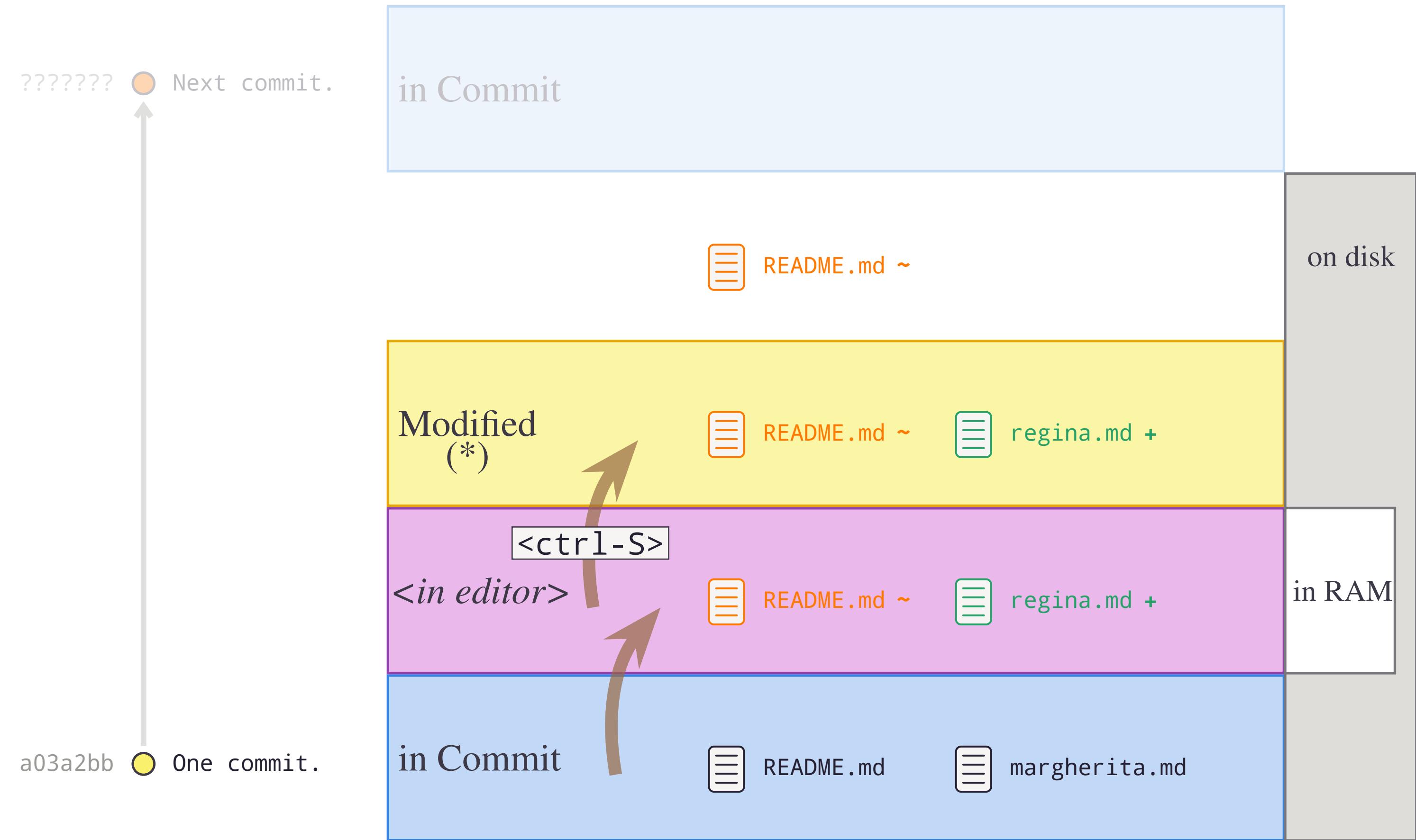
Constructing a Commit

The Whole Process



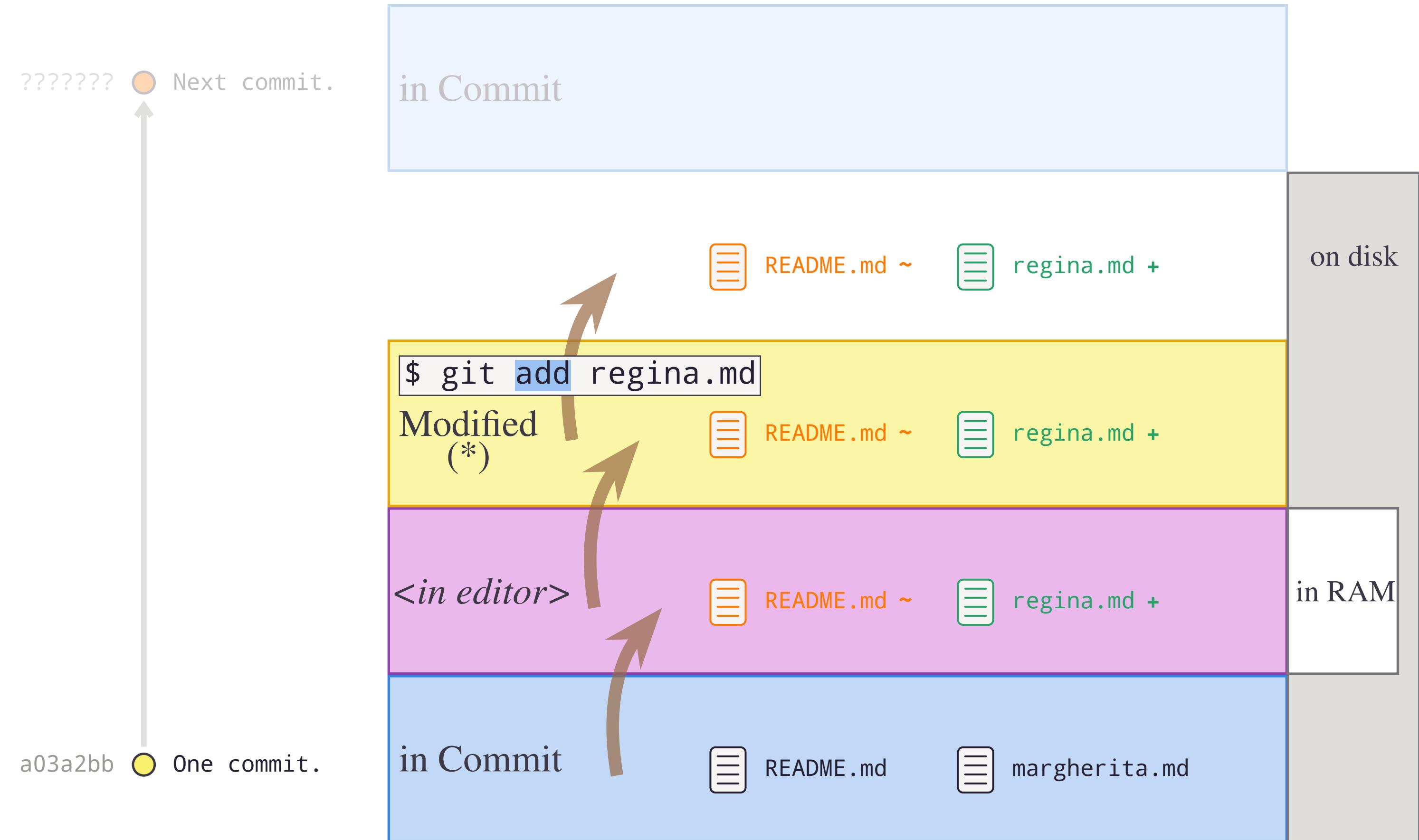
Constructing a Commit

The Whole Process



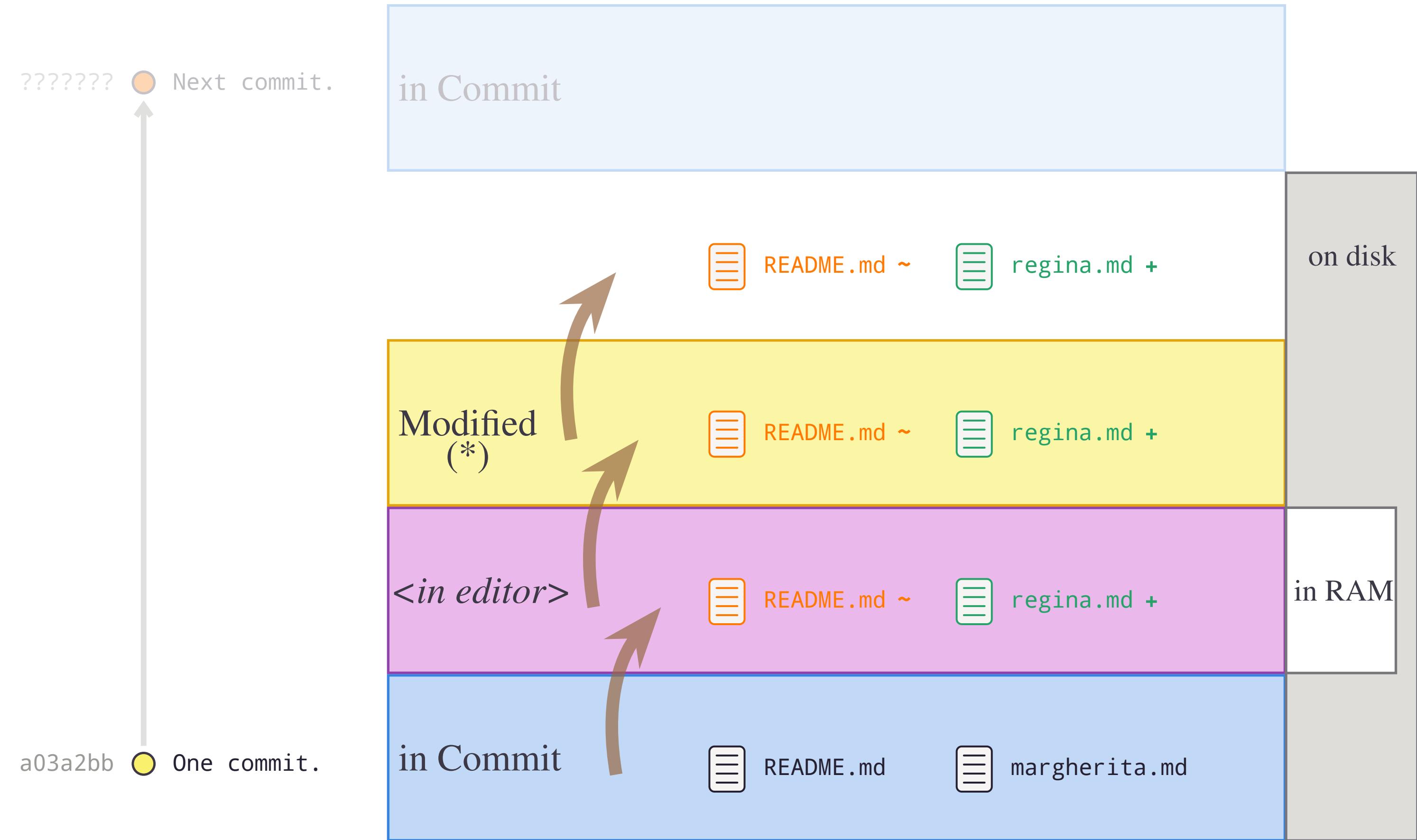
Constructing a Commit

The Whole Process



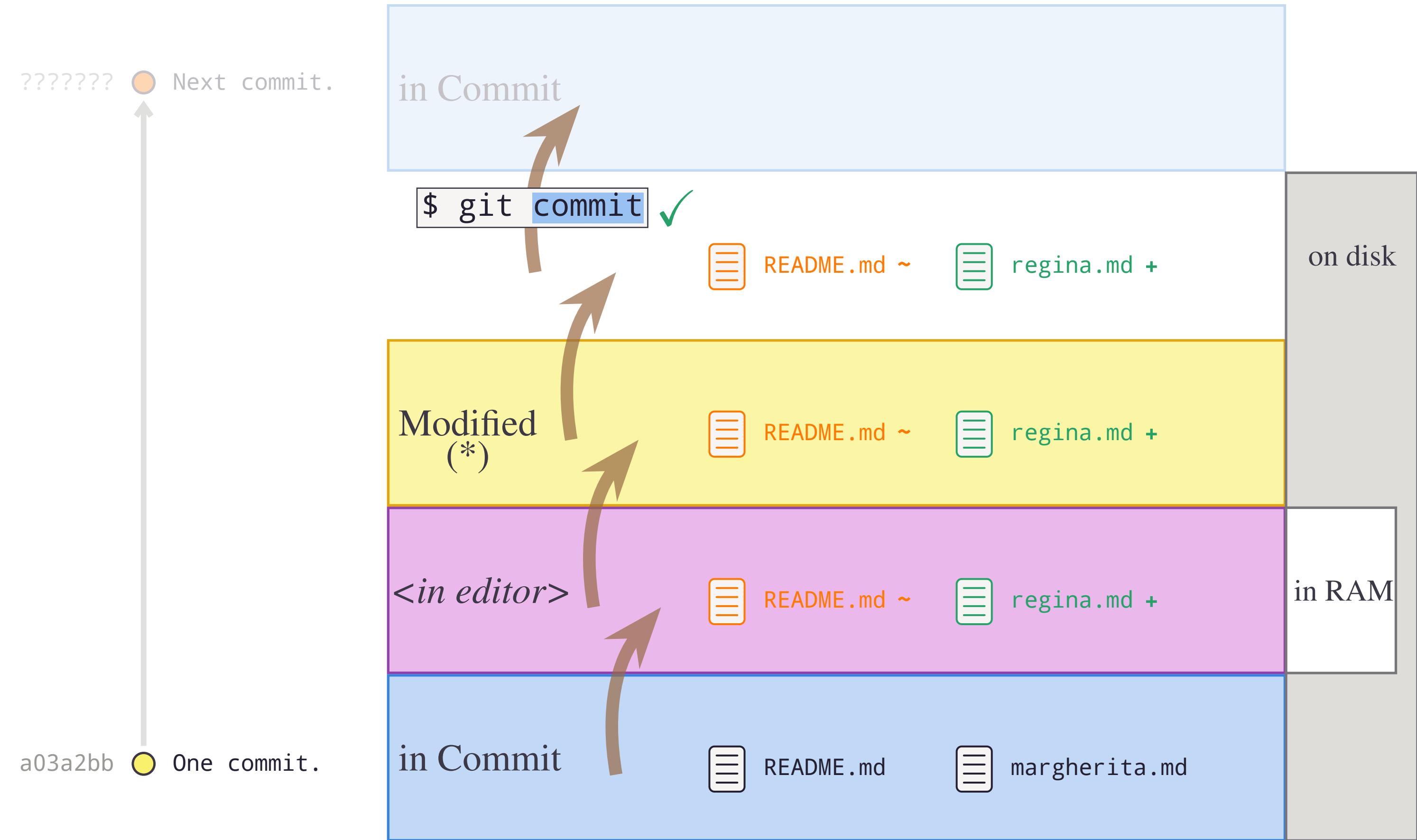
Constructing a Commit

The Whole Process



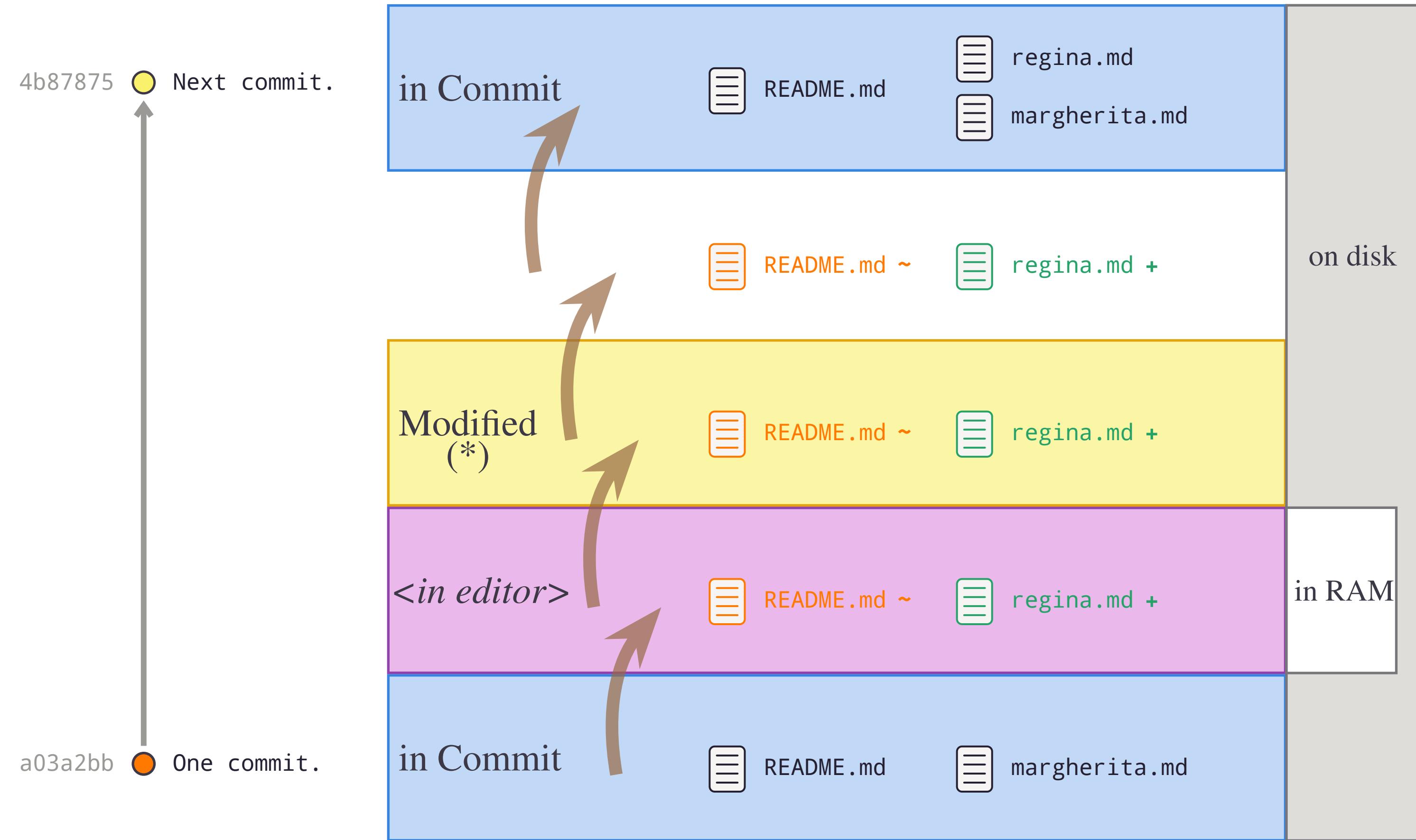
Constructing a Commit

The Whole Process



Constructing a Commit

The Whole Process

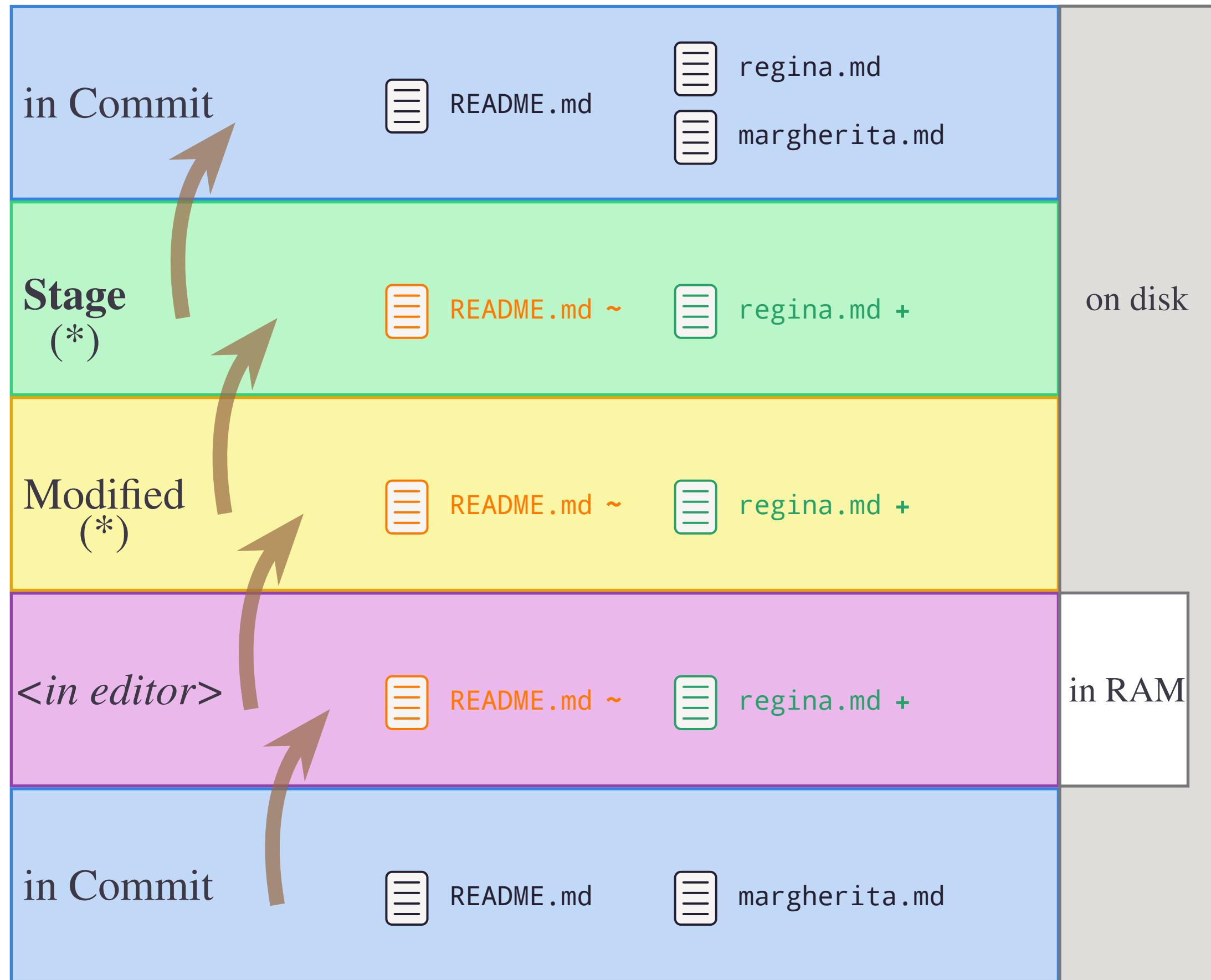


Constructing a Commit

The Whole Process

a03a2bb One commit.

4b87875 Next commit.

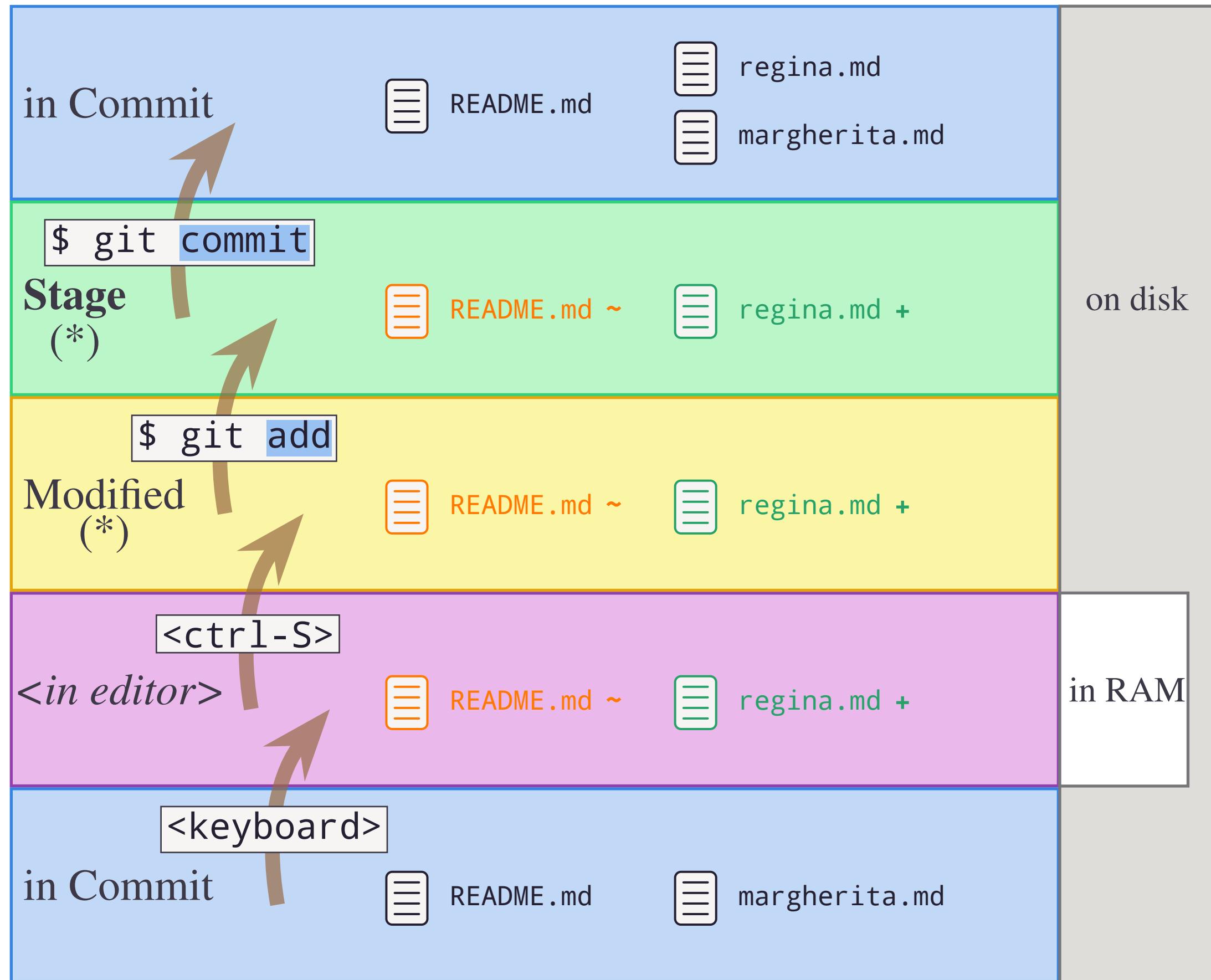


Constructing a Commit

The Whole Process

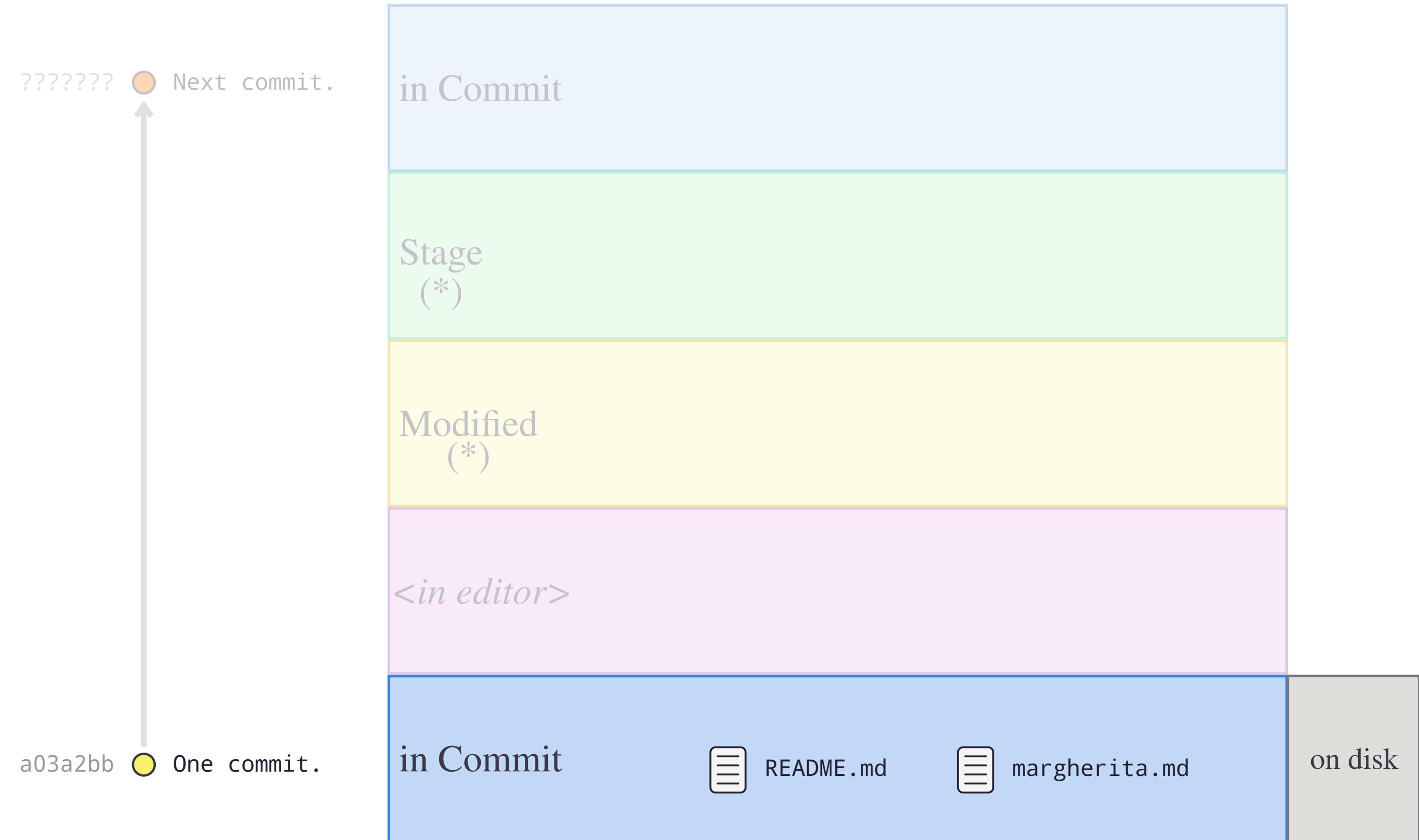
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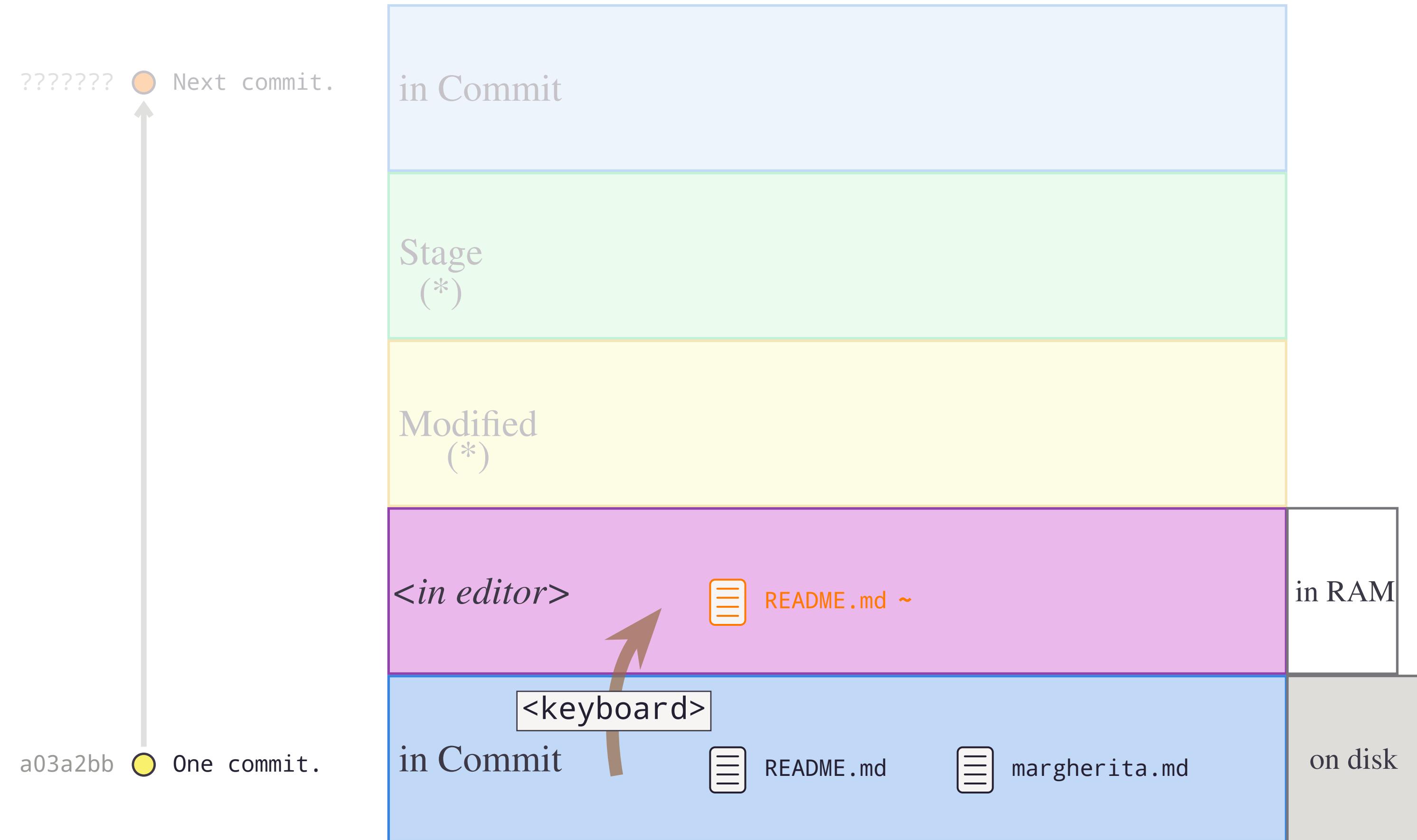
Constructing a Commit

The Whole Process



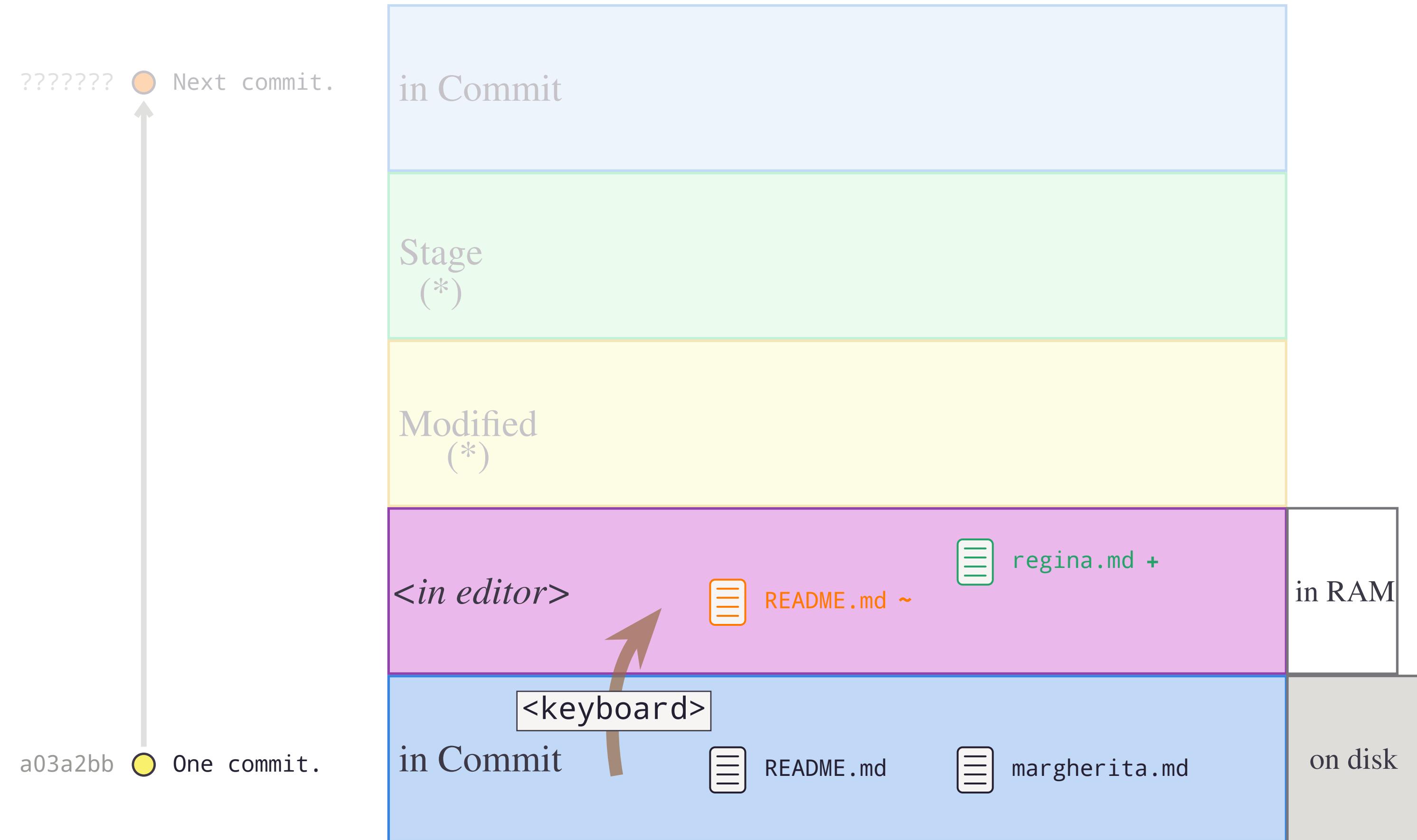
Constructing a Commit

The Whole Process



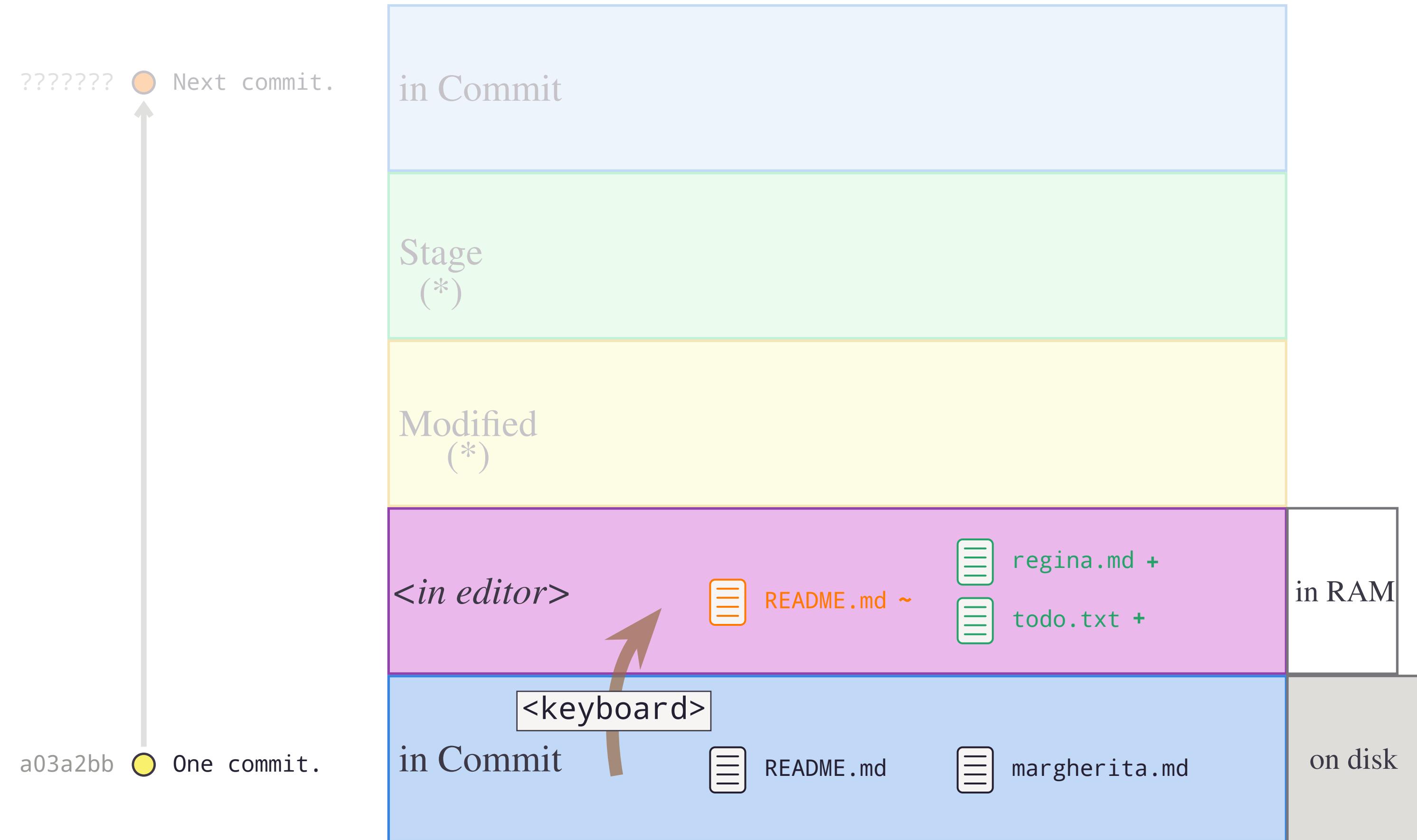
Constructing a Commit

The Whole Process



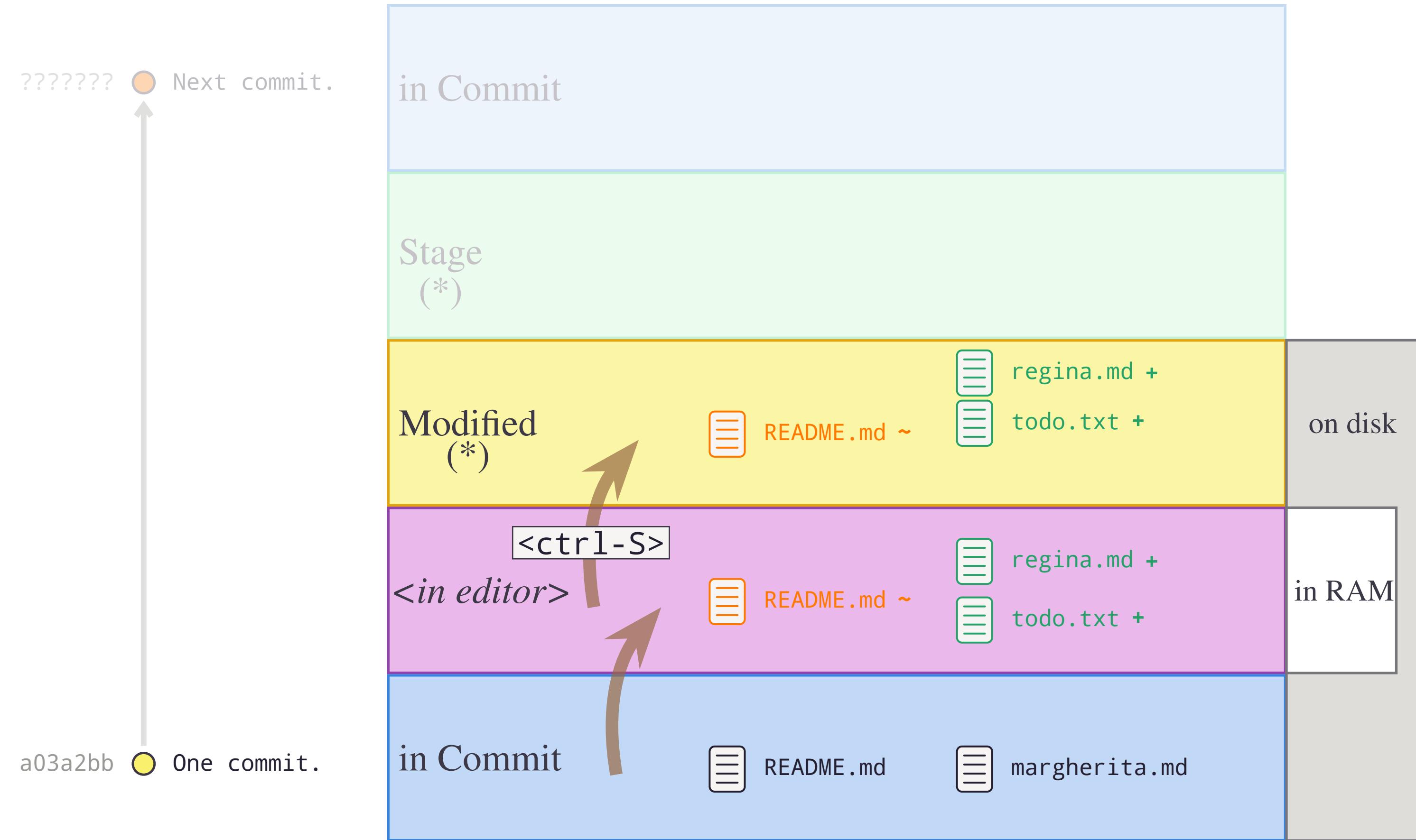
Constructing a Commit

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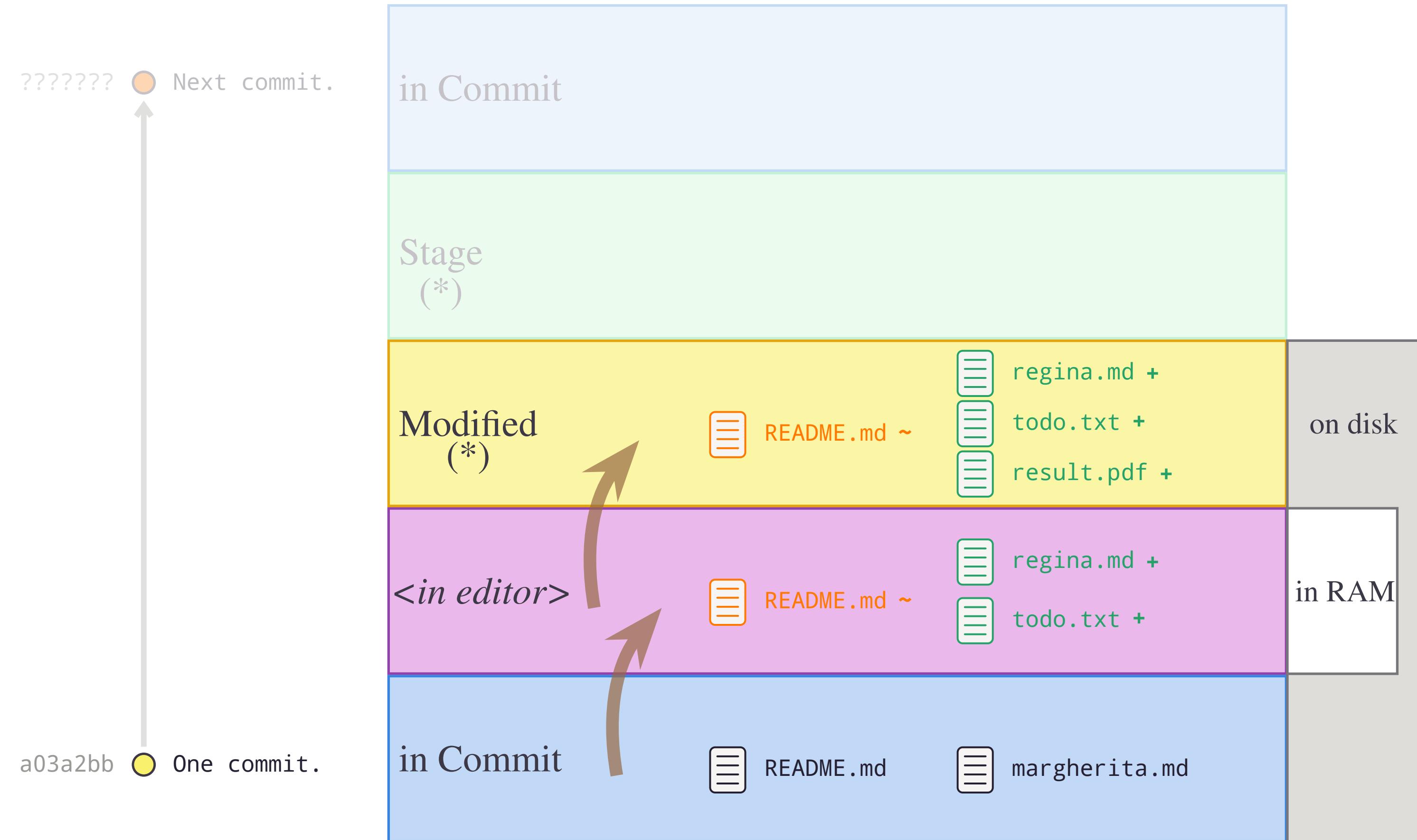
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The Whole Process



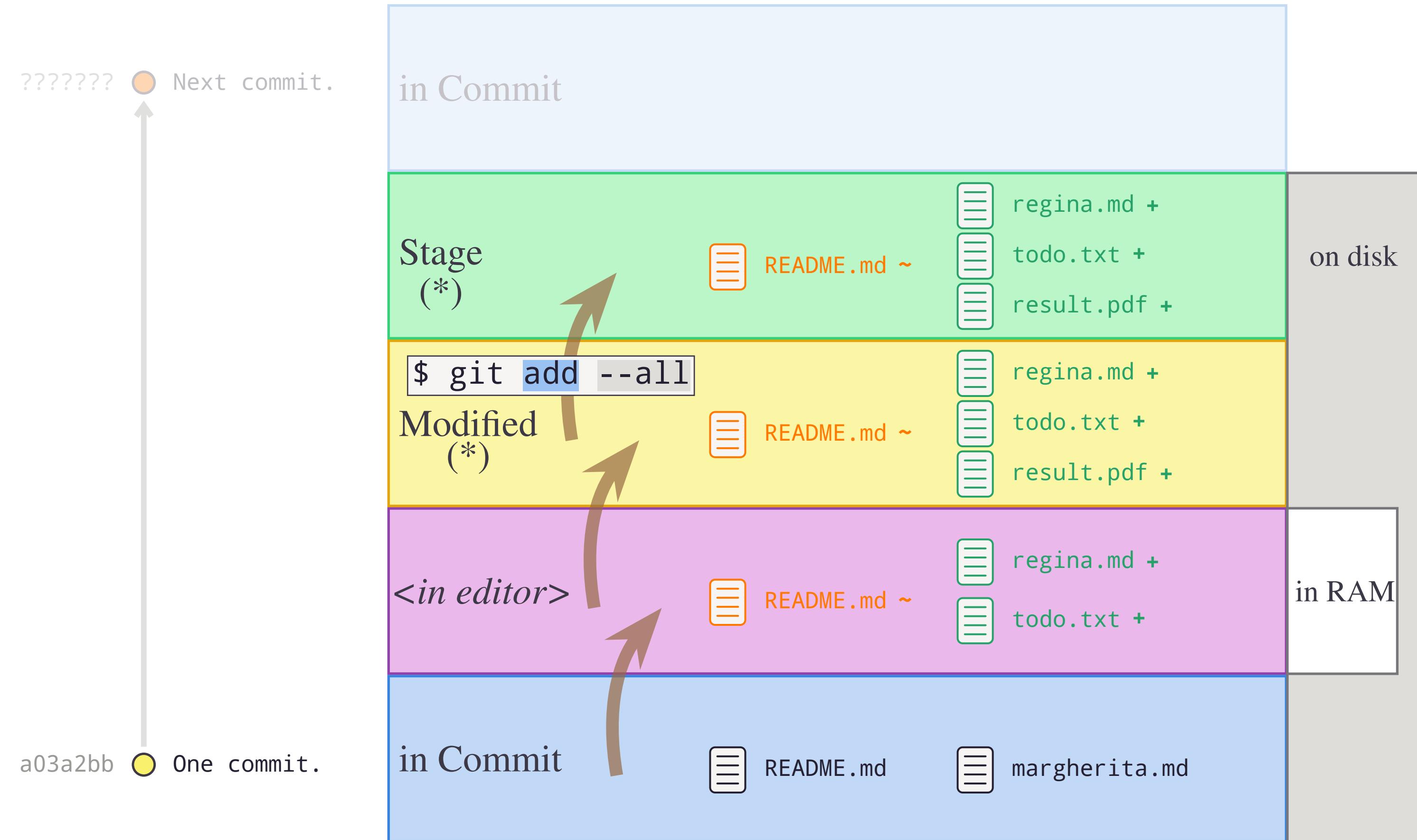
Constructing a Commit

The Whole Process



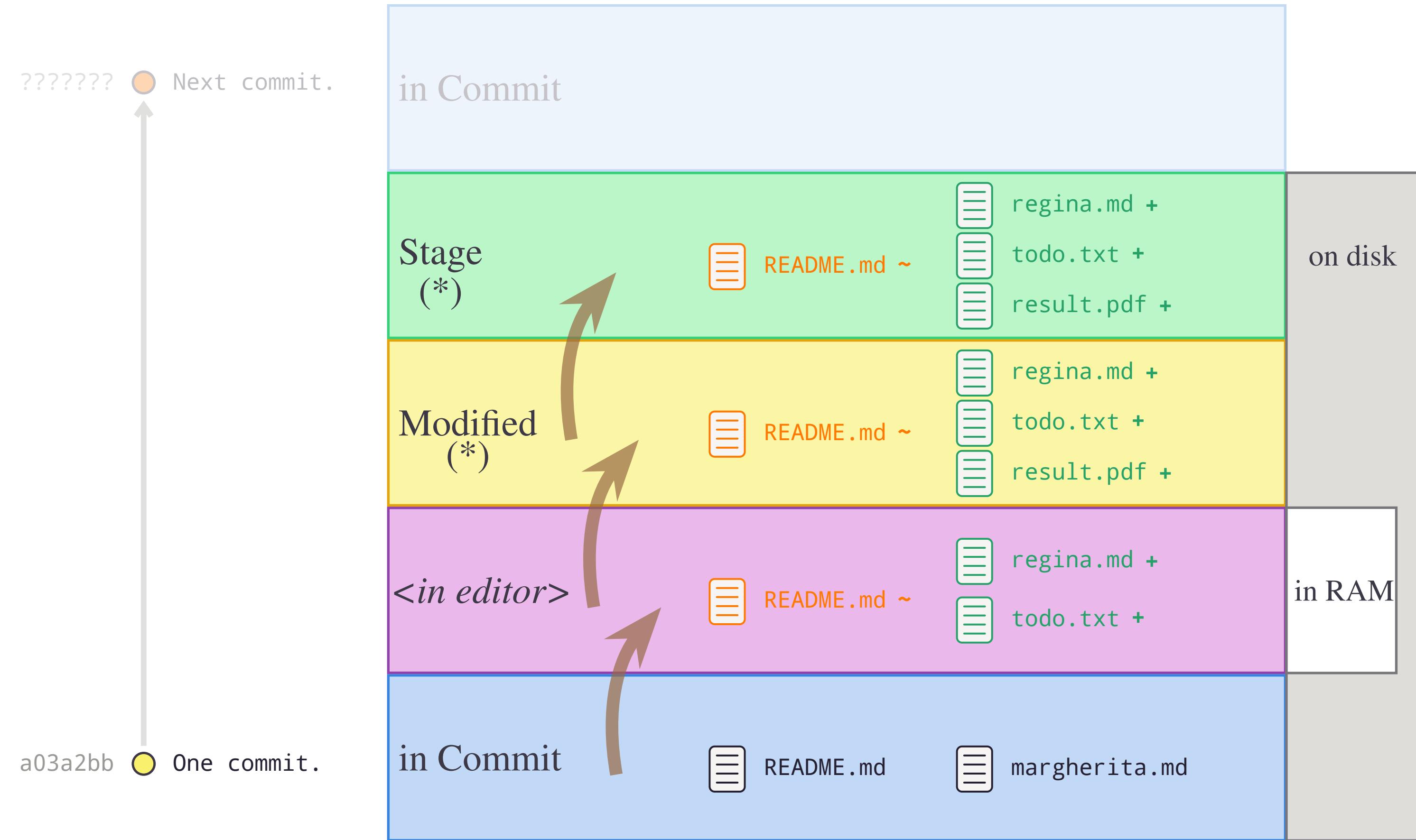
Constructing a Commit

The Whole Process



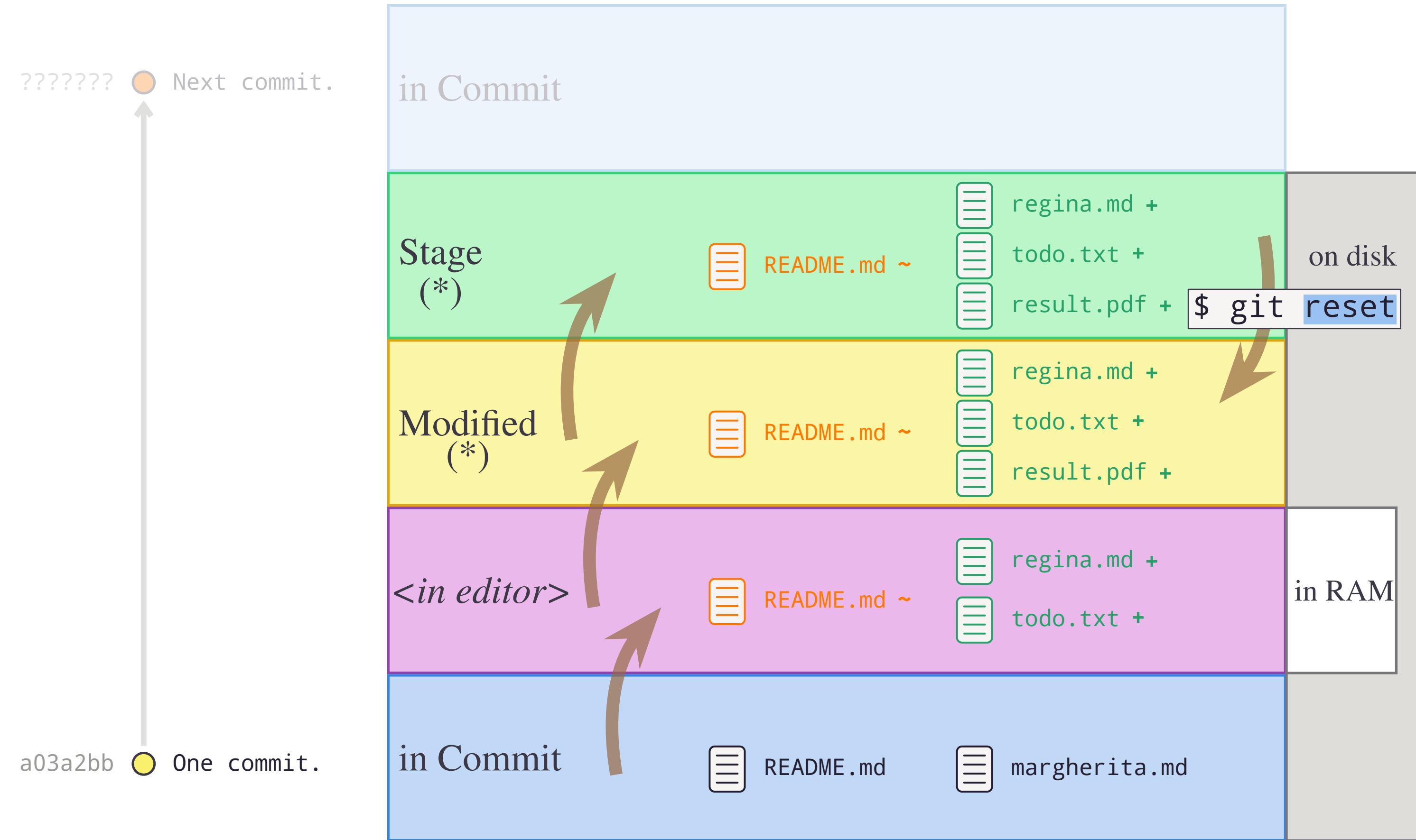
Constructing a Commit

The Whole Process



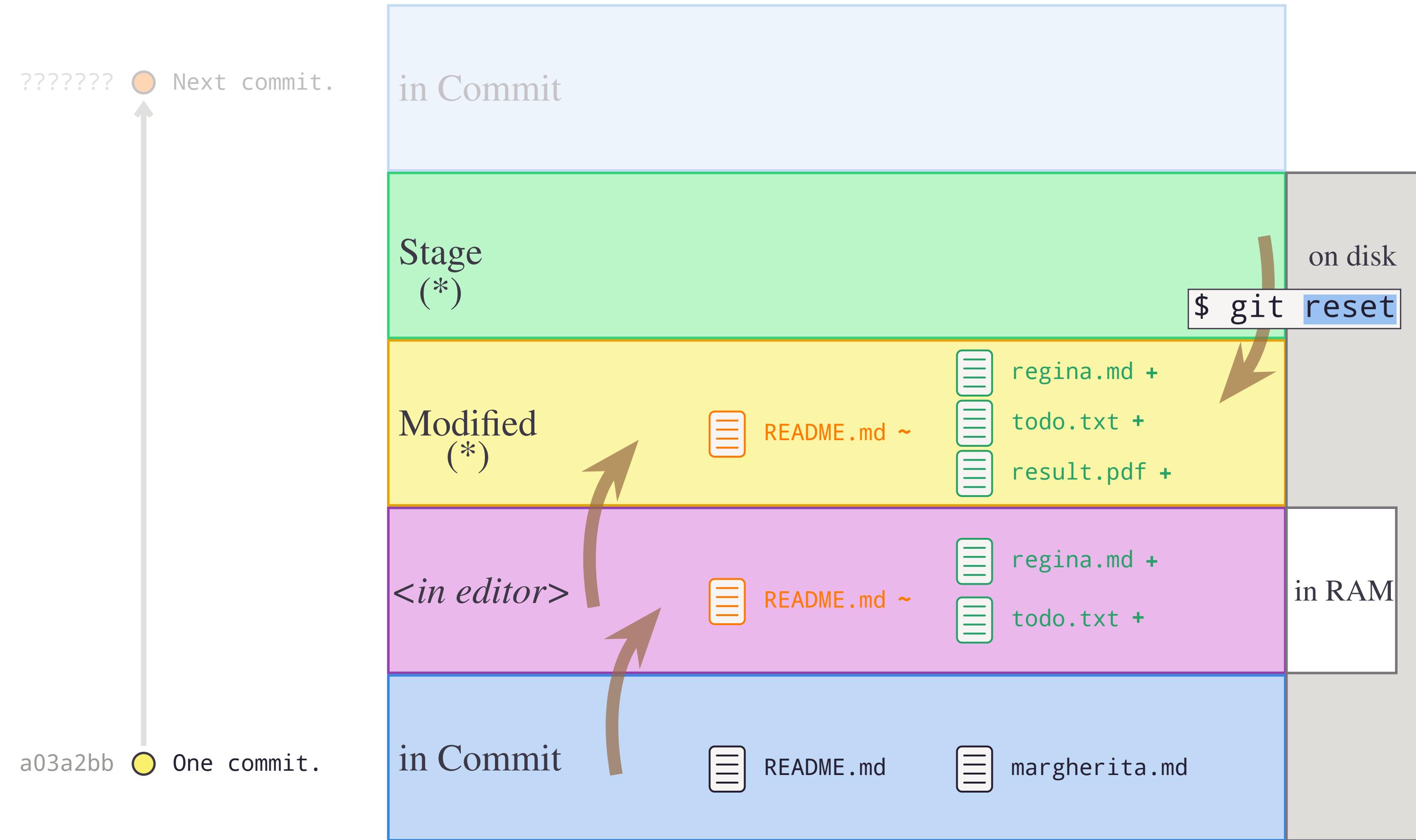
Constructing a Commit

The Whole Process



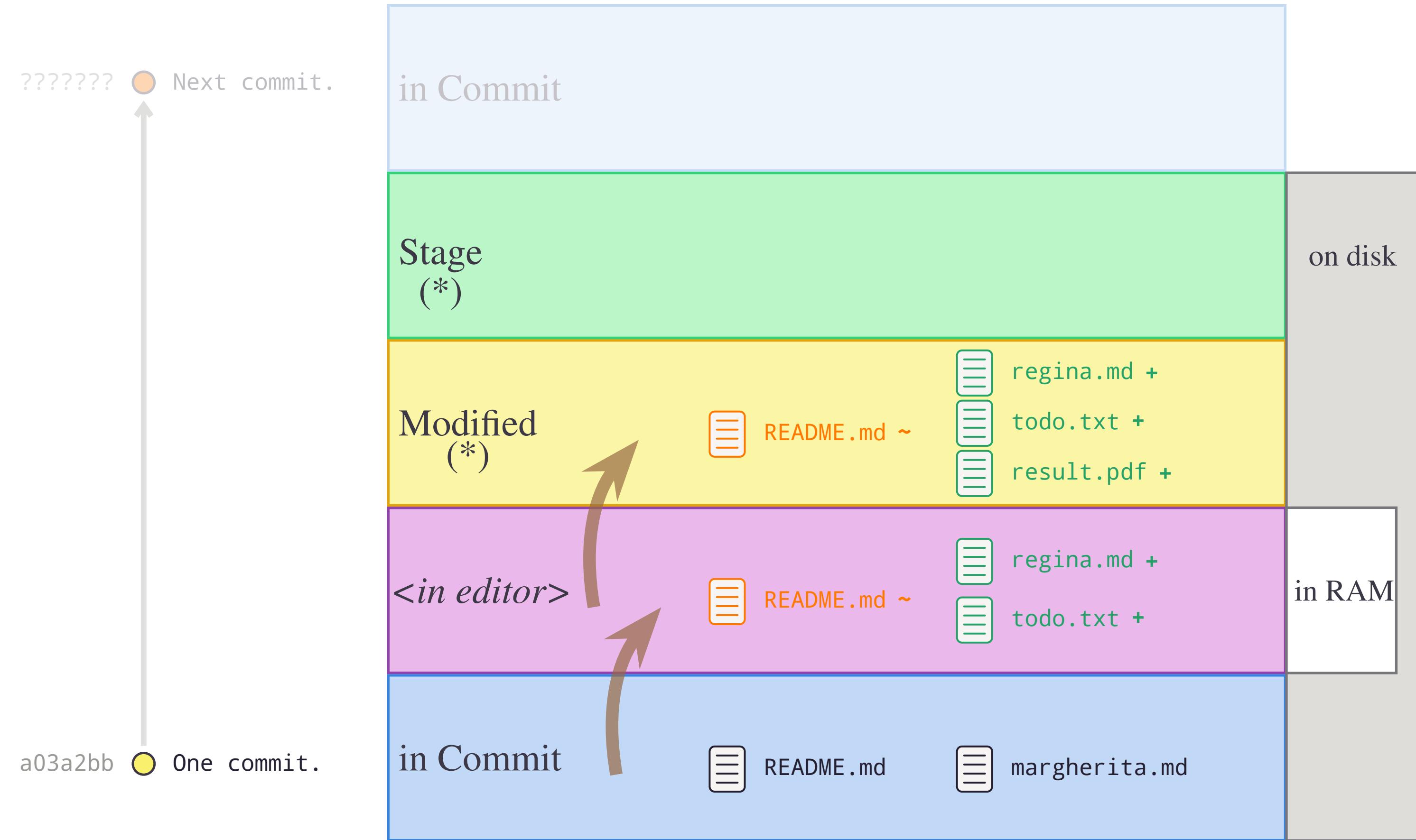
Constructing a Commit

The Whole Process



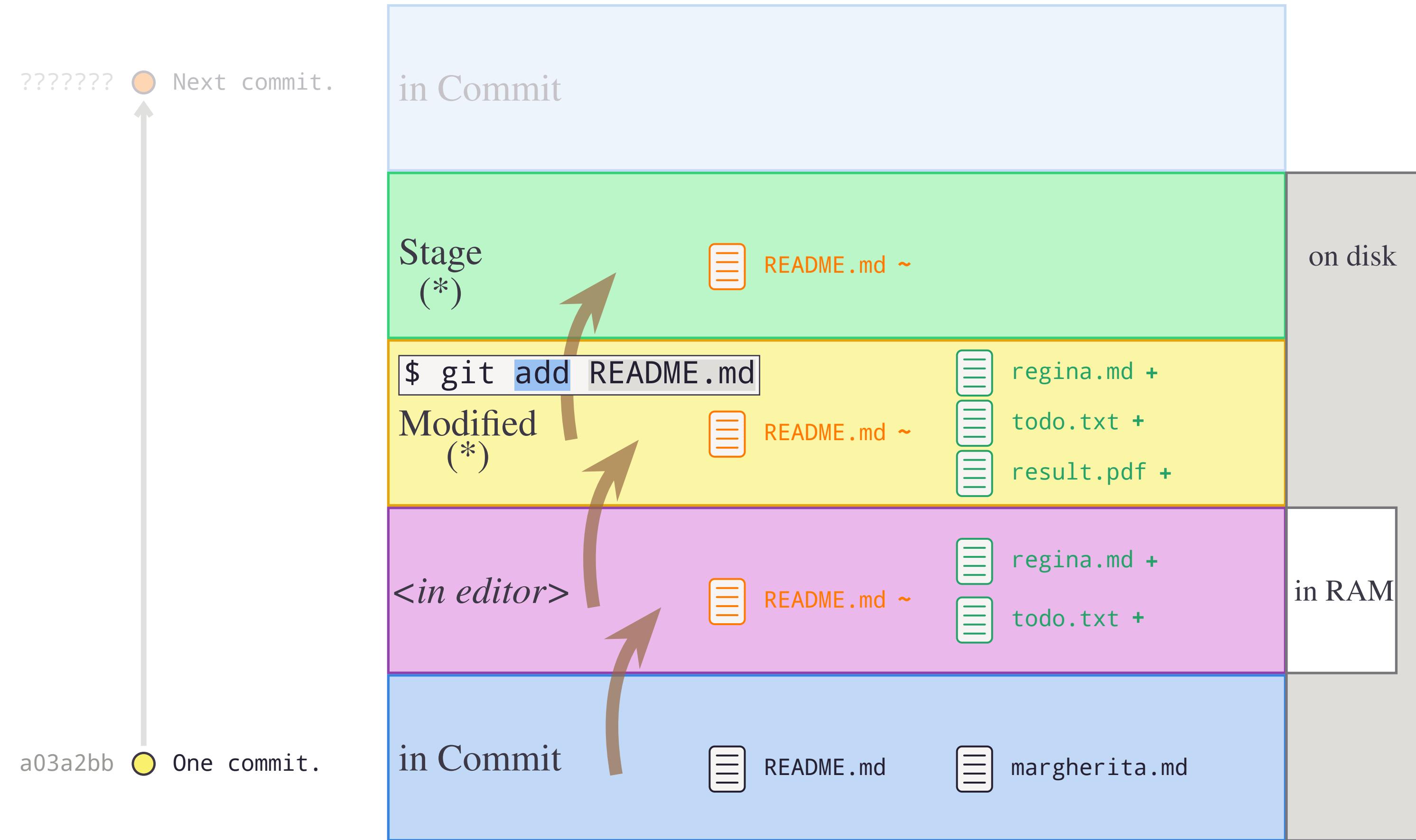
Constructing a Commit

The Whole Process



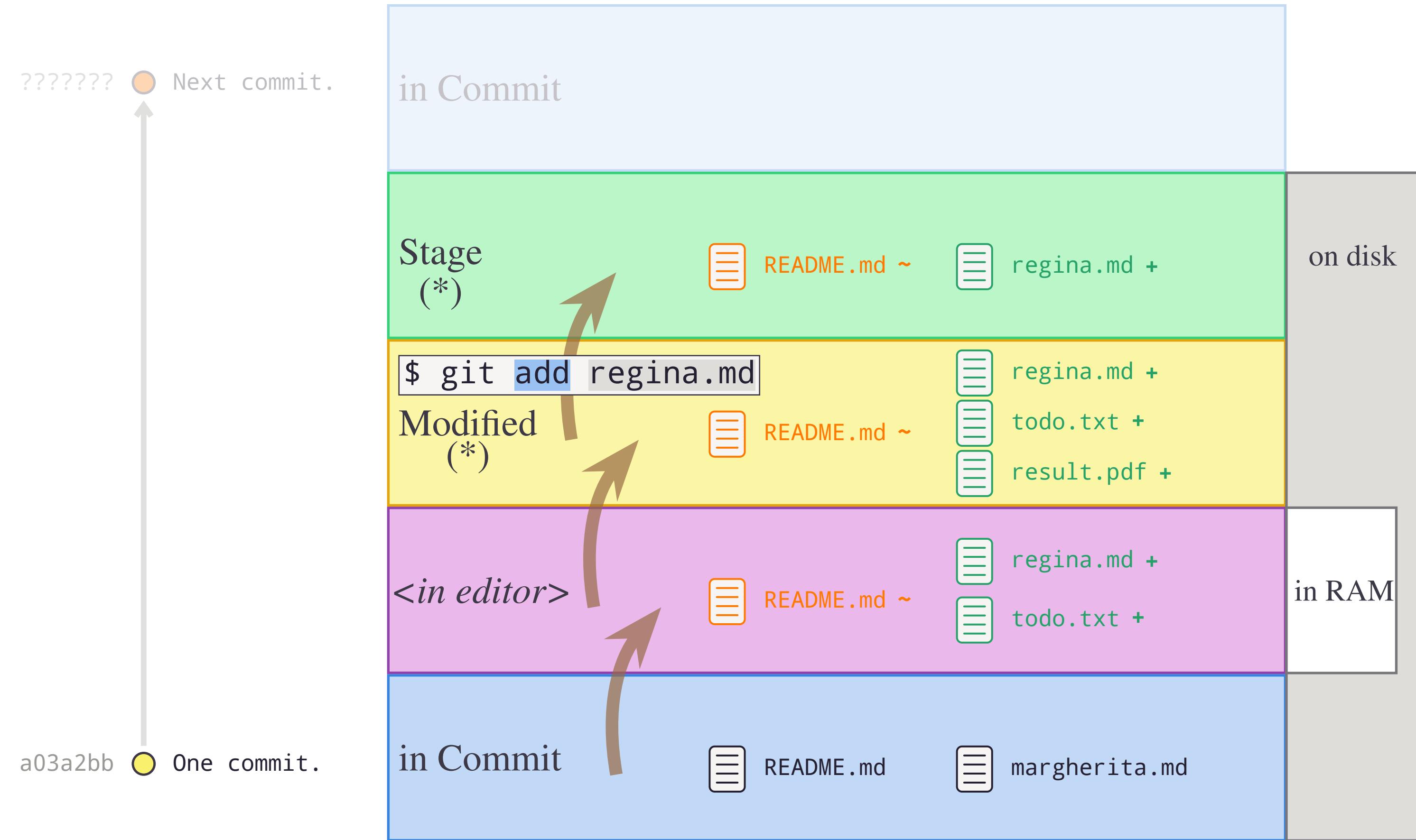
Constructing a Commit

The Whole Process



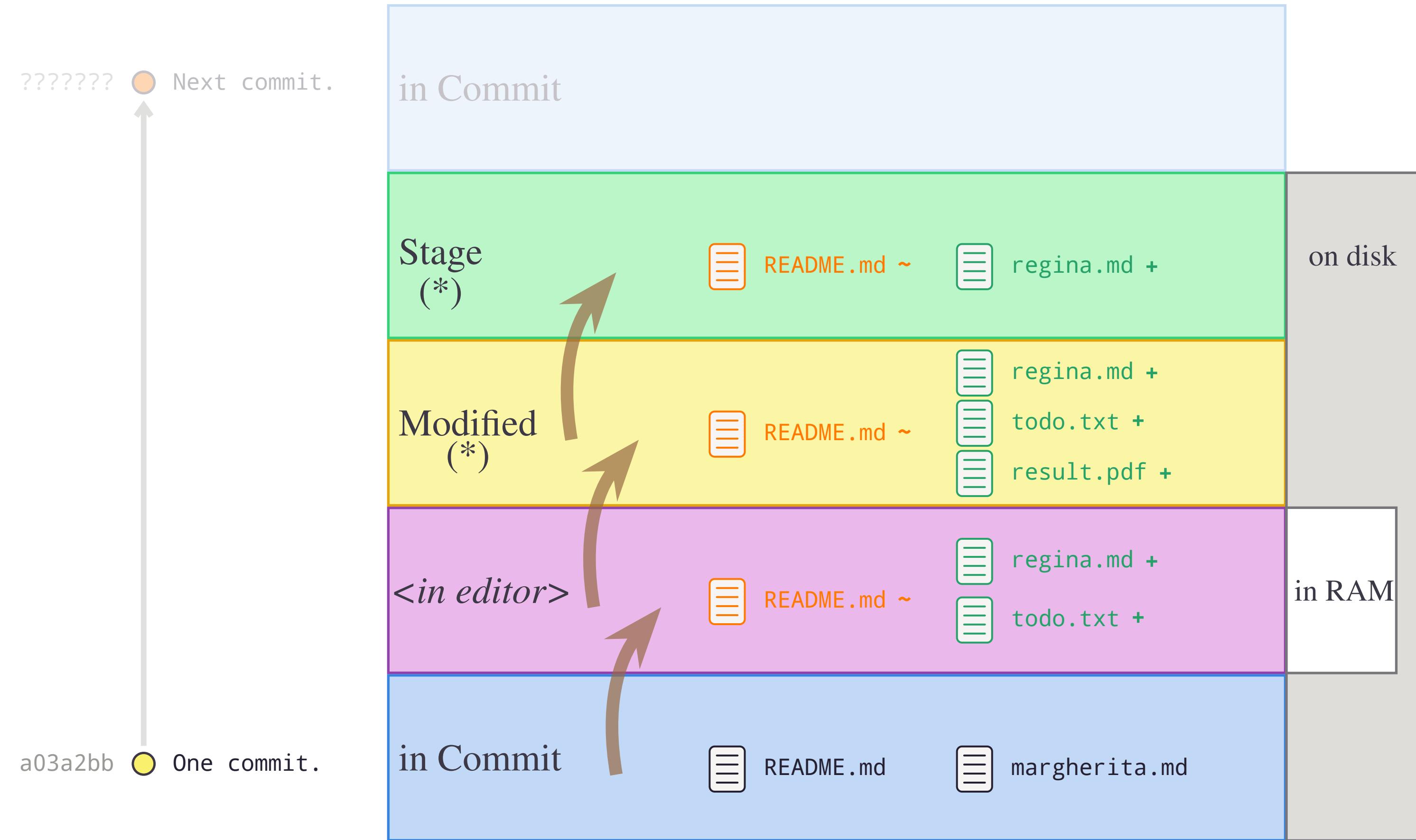
Constructing a Commit

The Whole Process



Constructing a Commit

The Whole Process

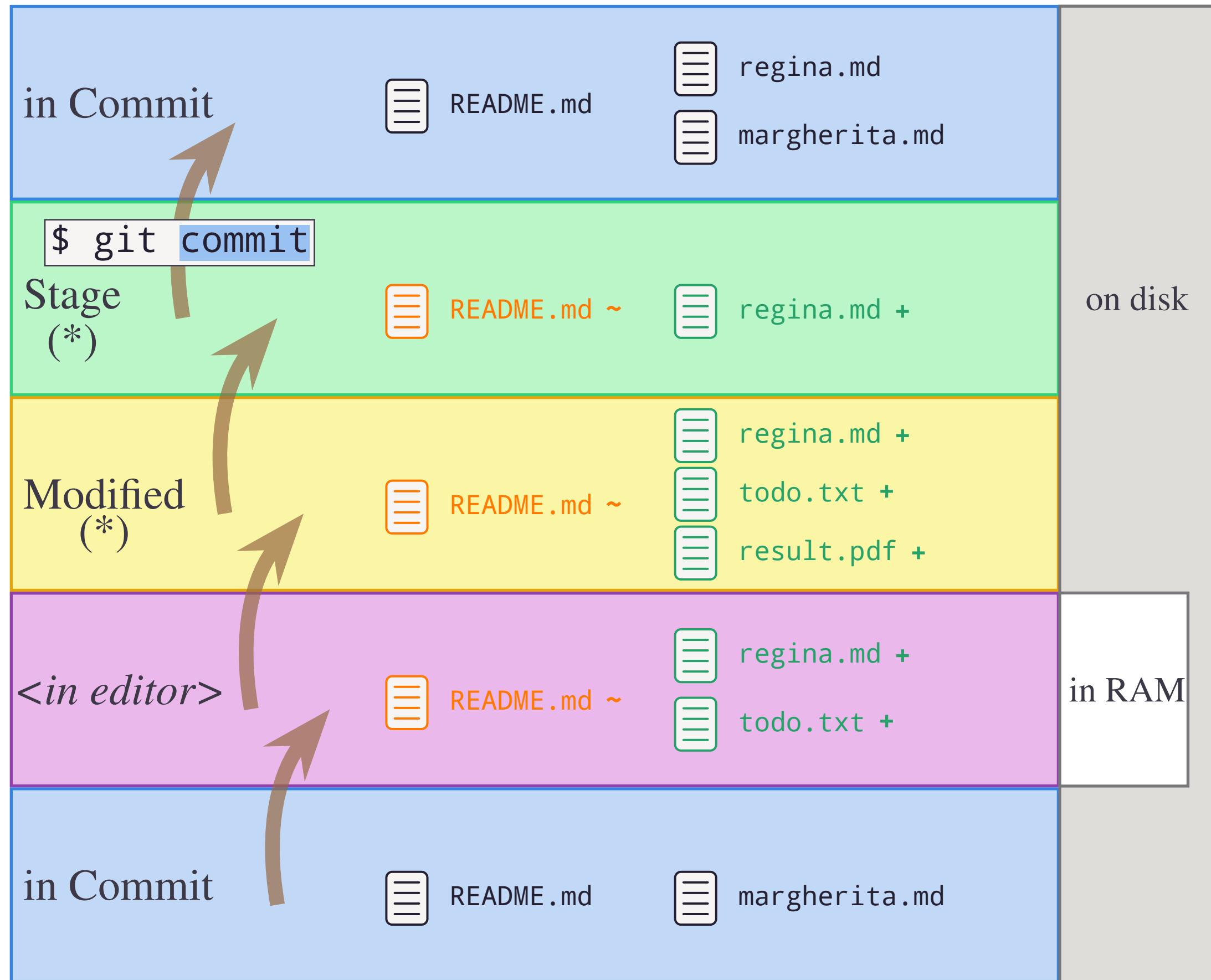


Constructing a Commit

The Whole Process

a03a2bb One commit.

4b87875 Next commit.

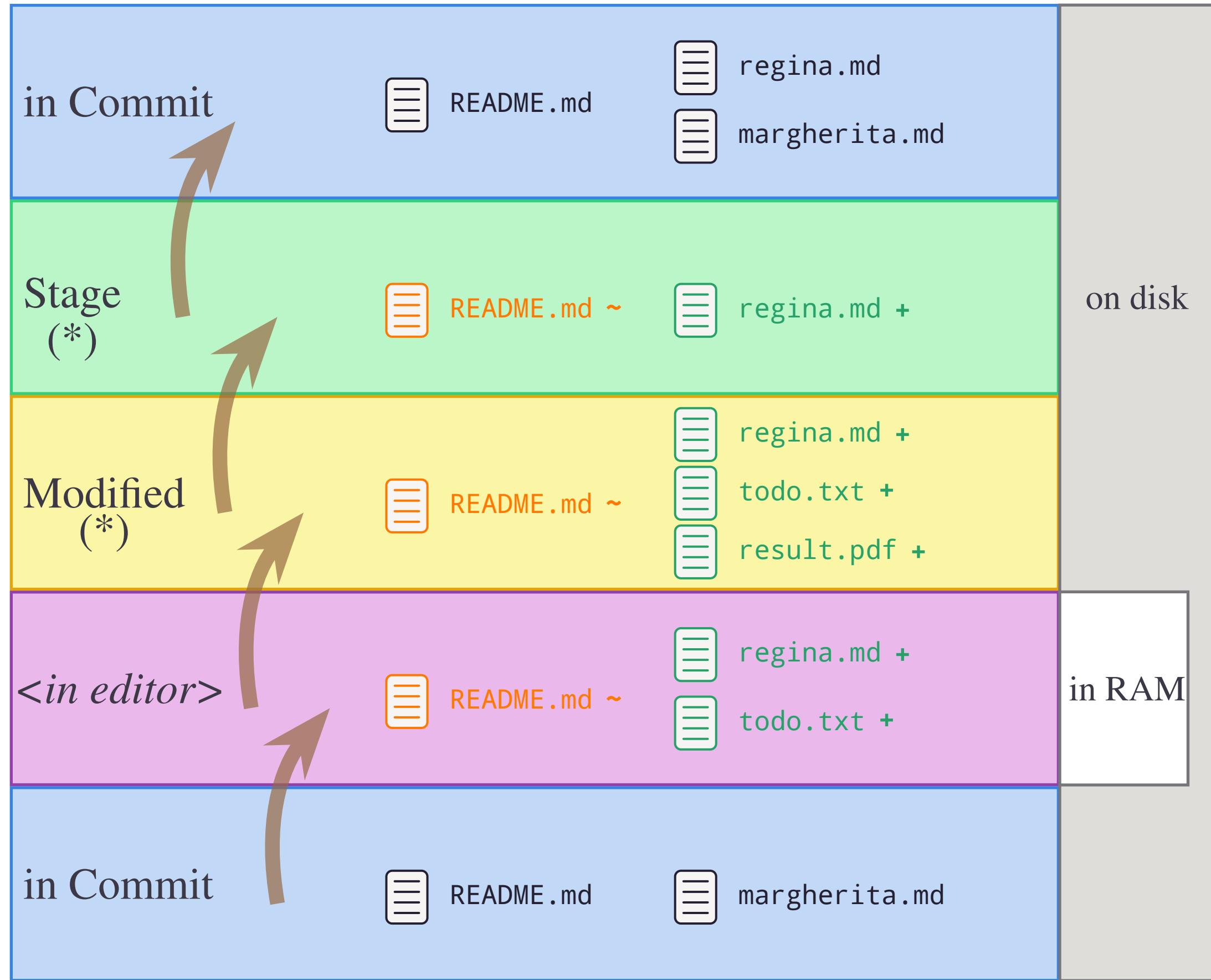


Constructing a Commit

The Whole Process

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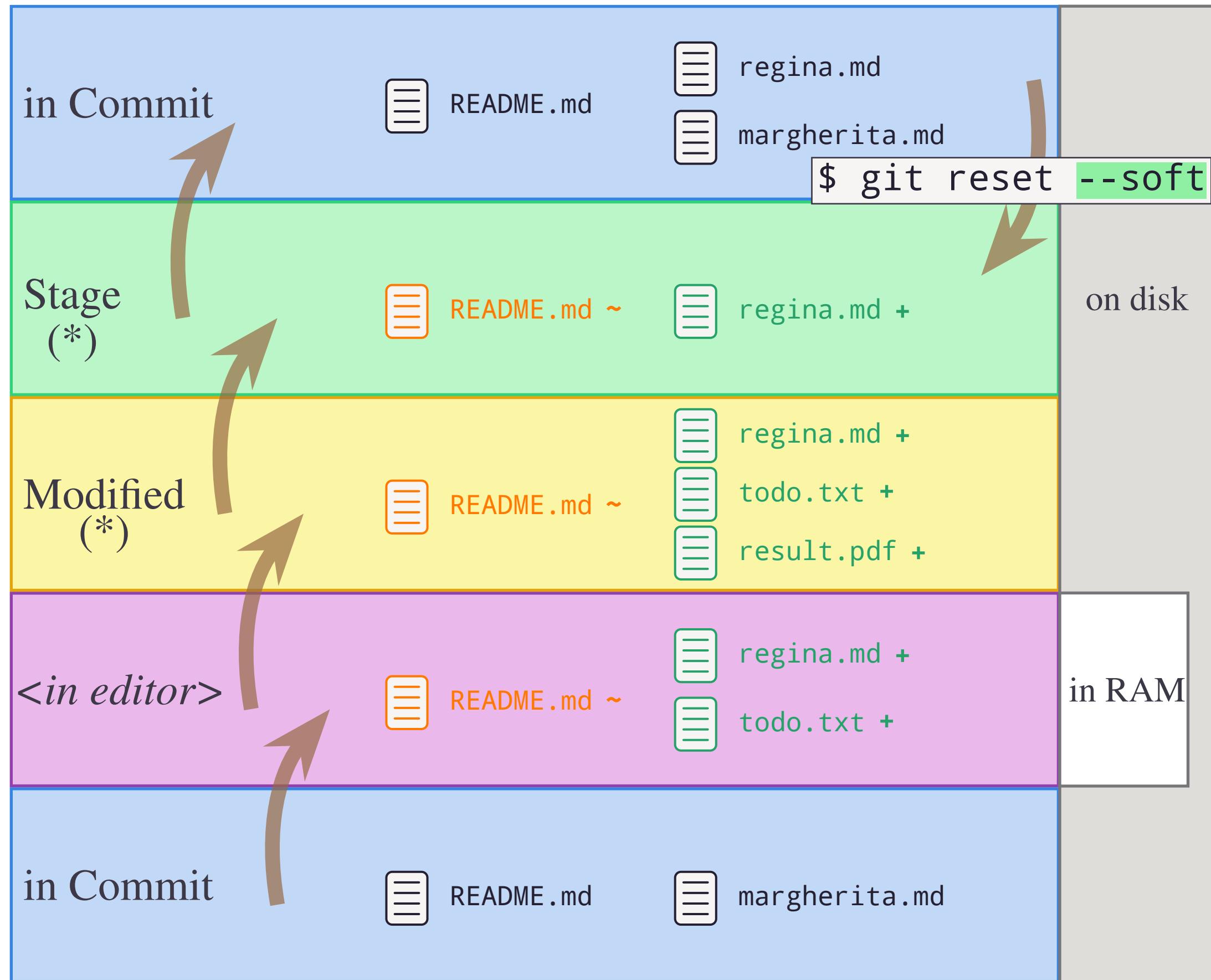


Constructing a Commit

The Whole Process

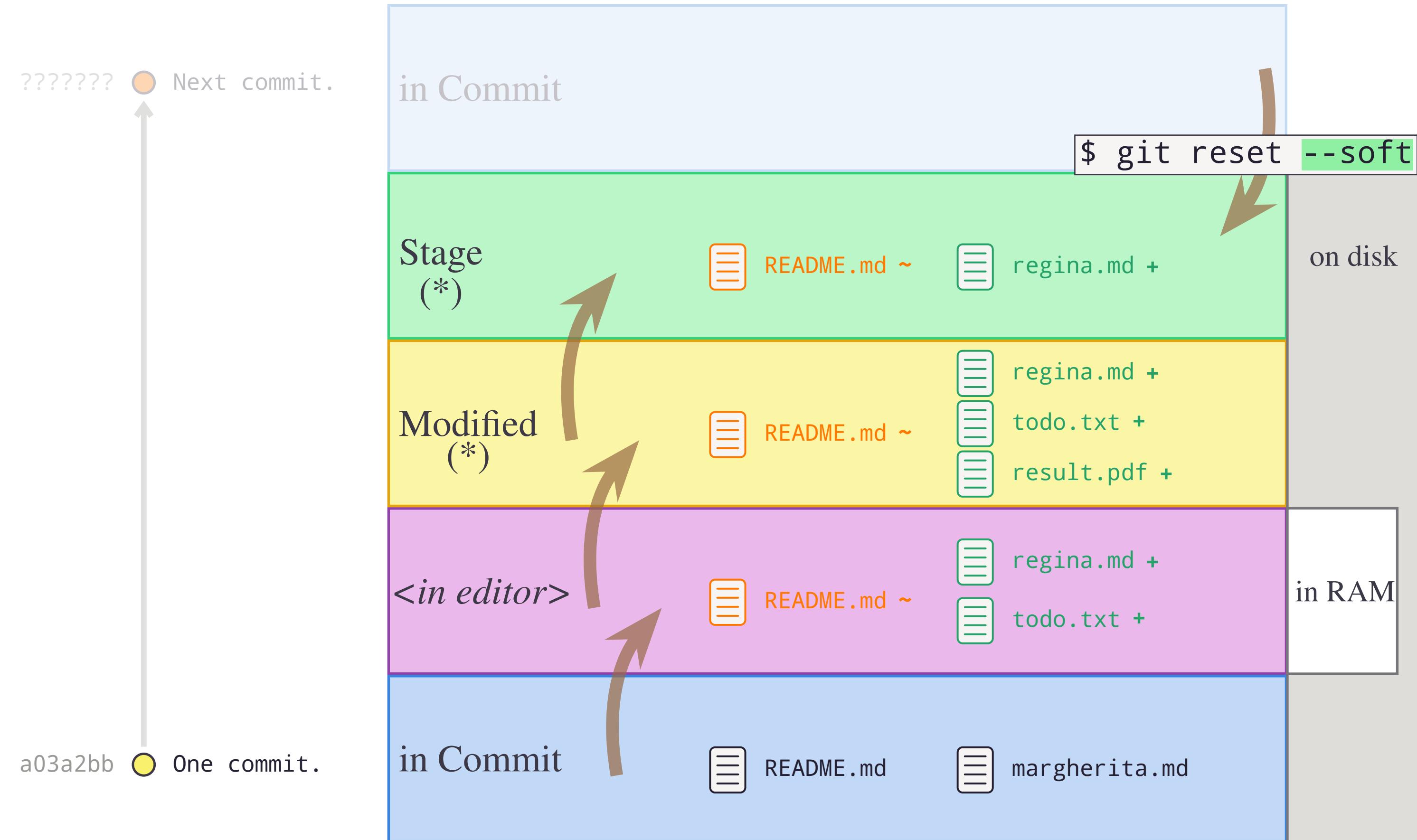
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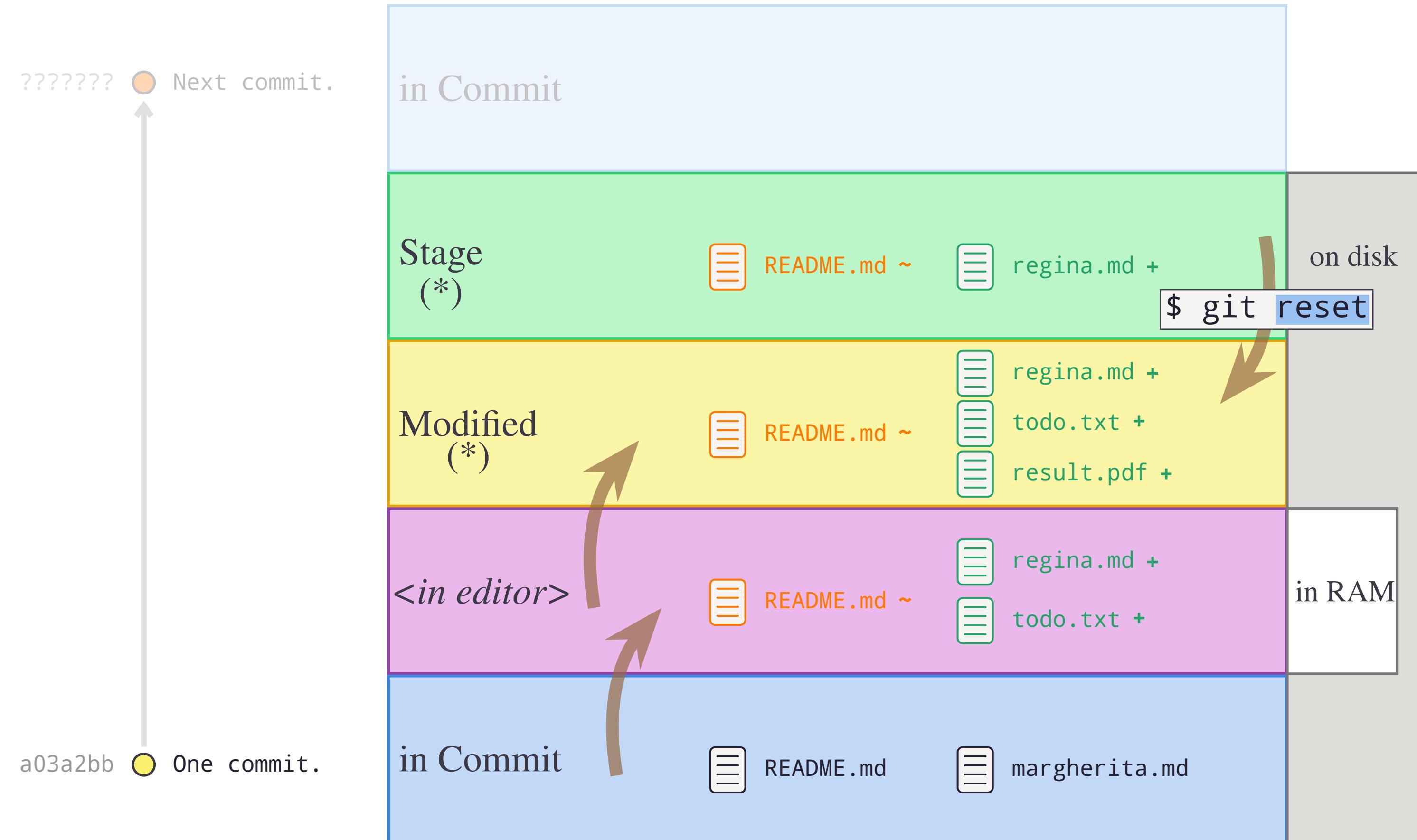
Constructing a Commit

The Whole Process



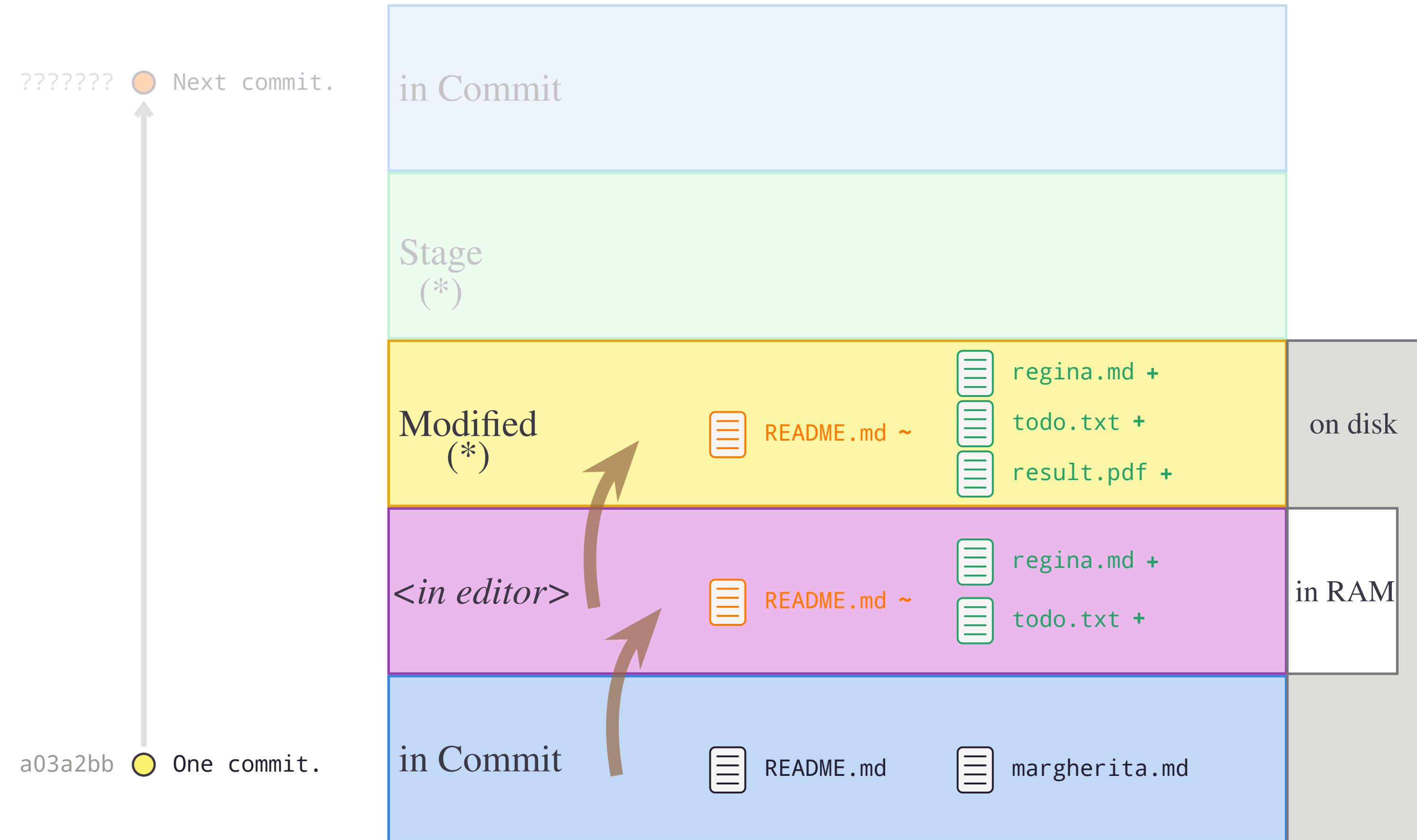
Constructing a Commit

The Whole Process



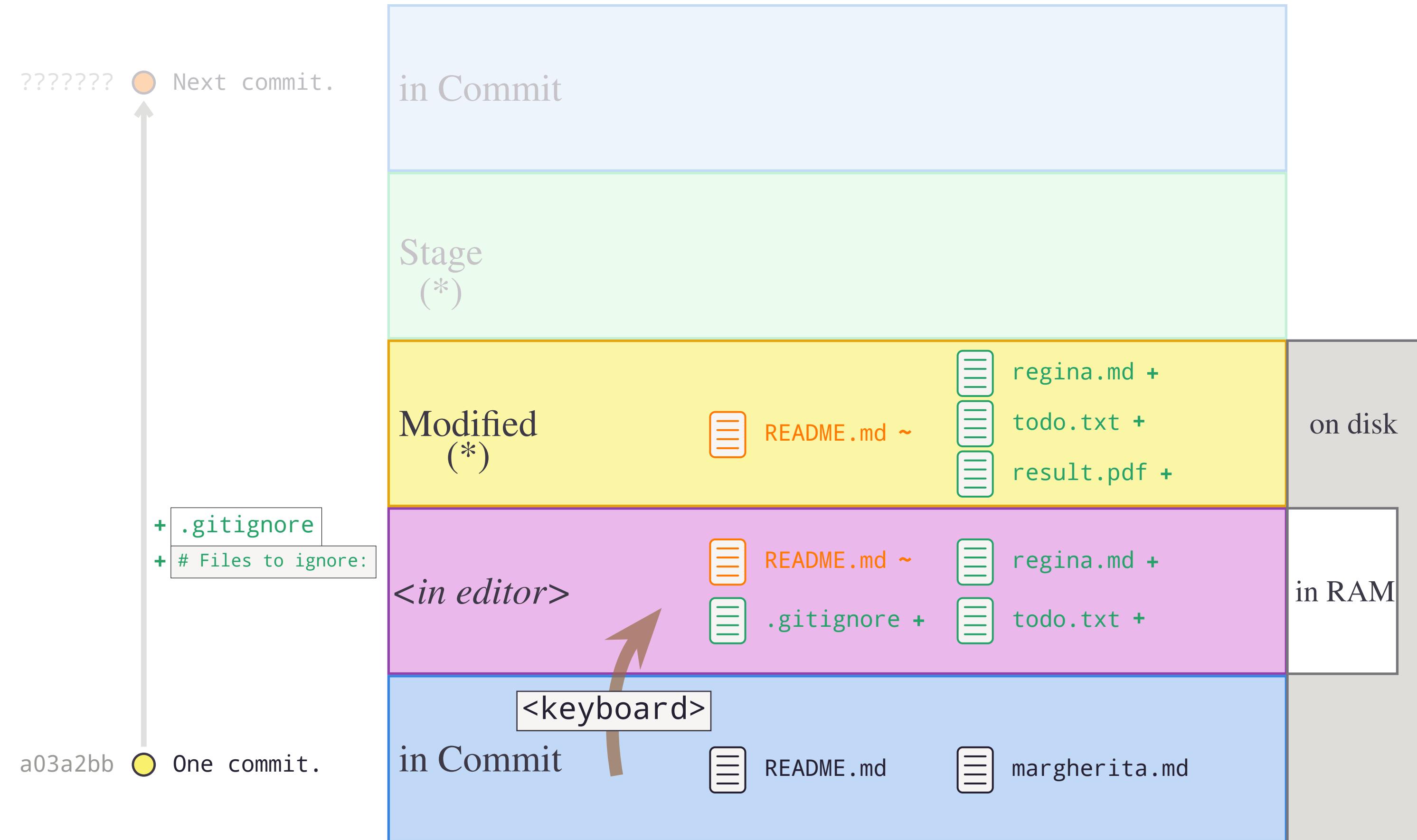
Constructing a Commit

The Whole Process



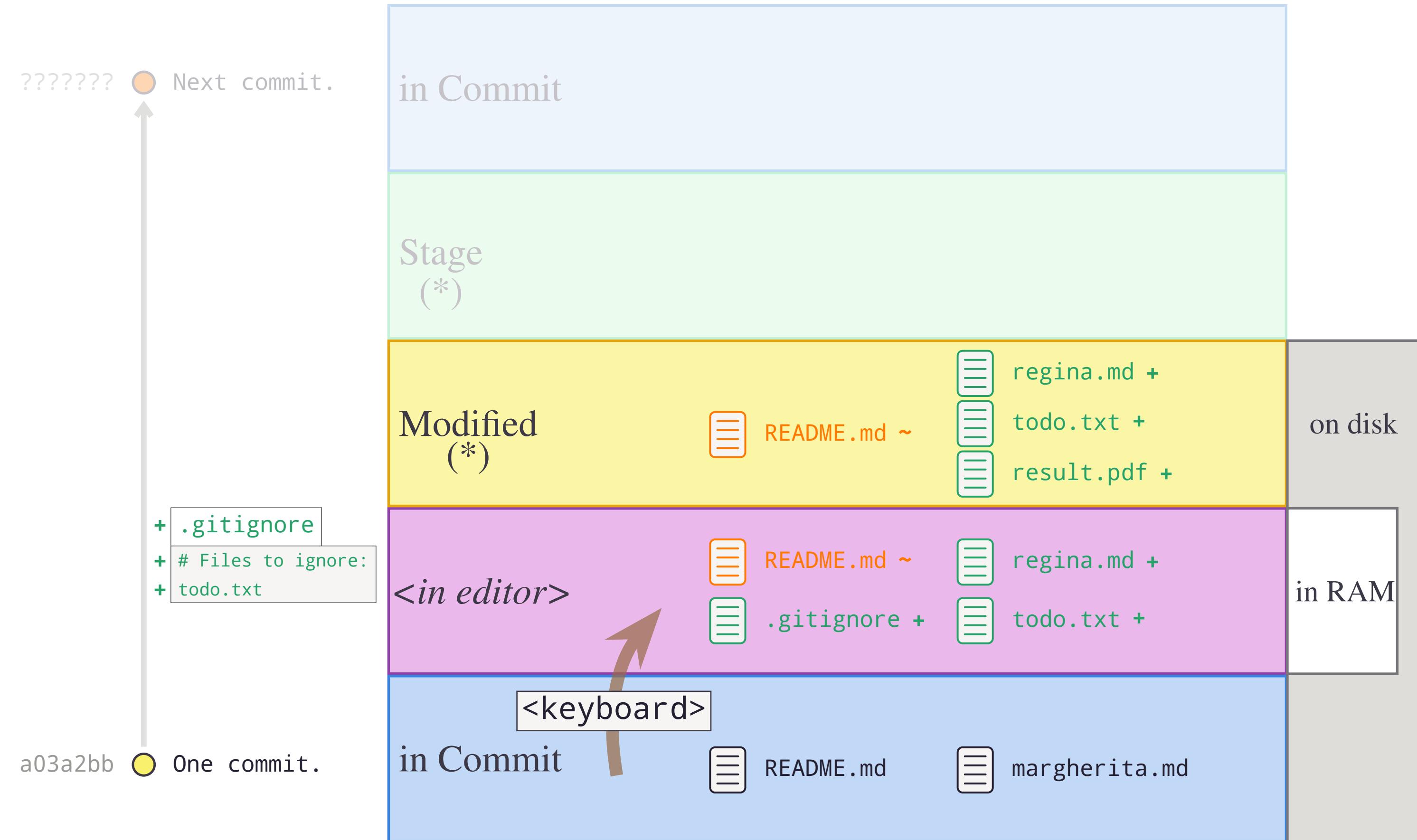
Constructing a Commit

The Whole Process



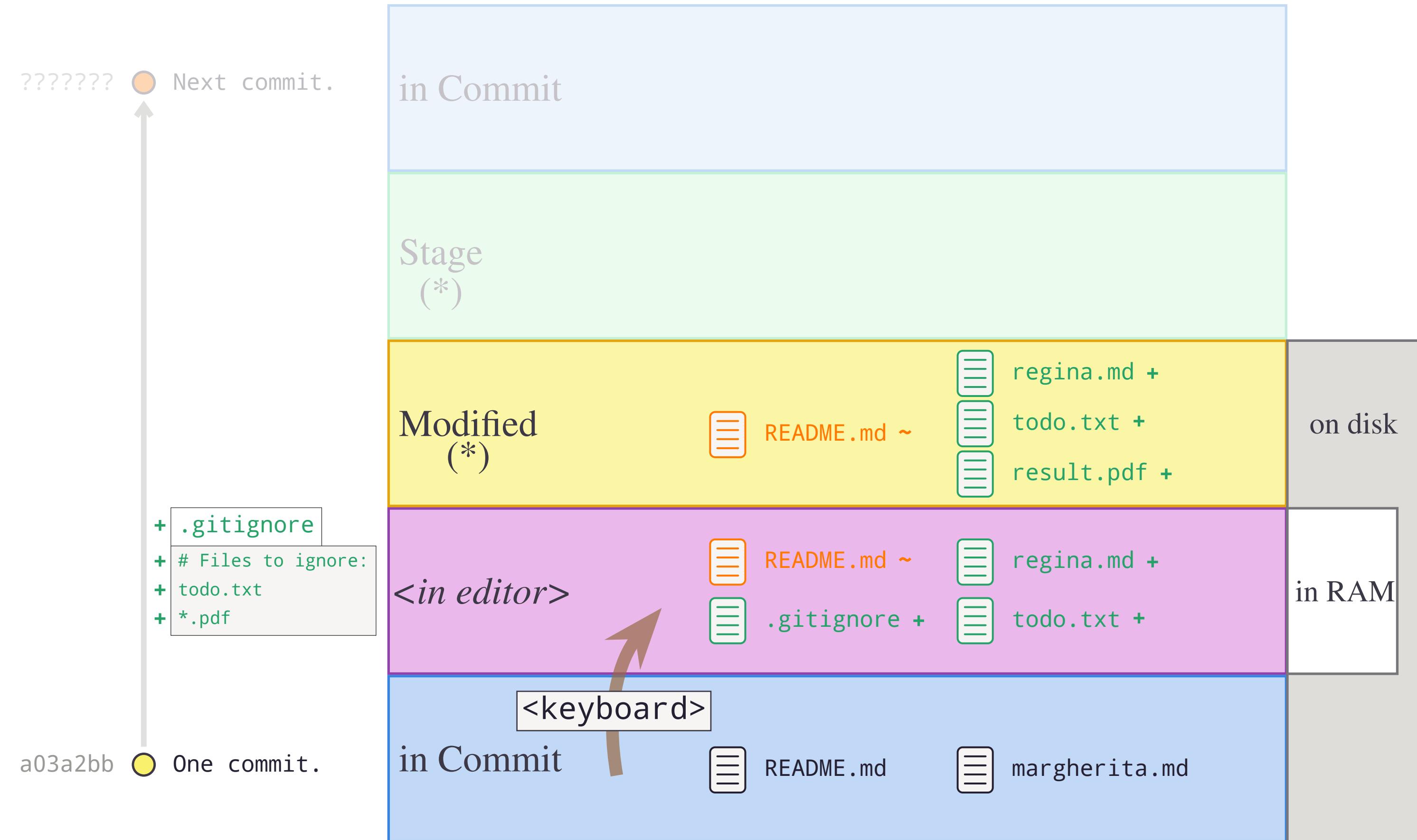
Constructing a Commit

The Whole Process



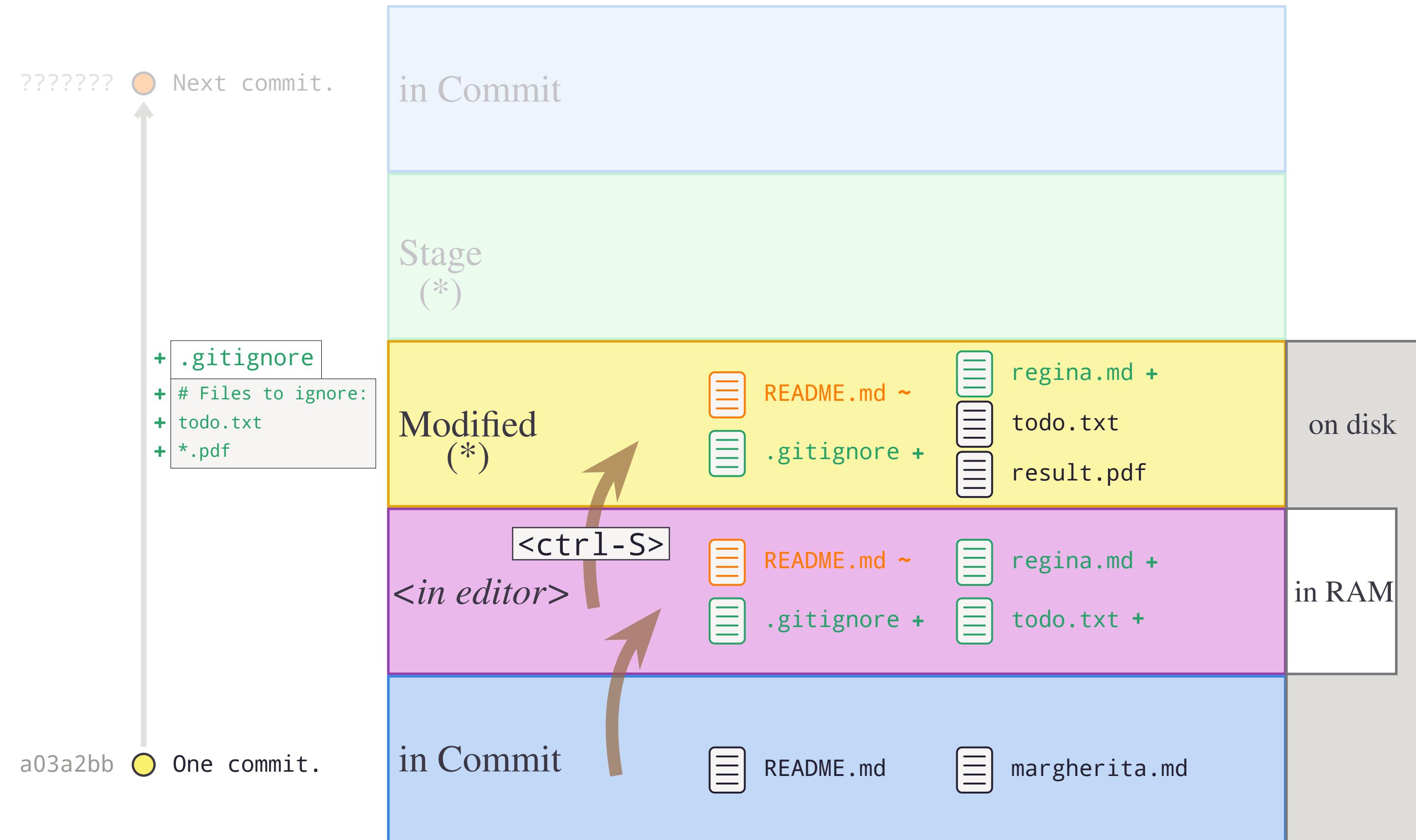
Constructing a Commit

The Whole Process



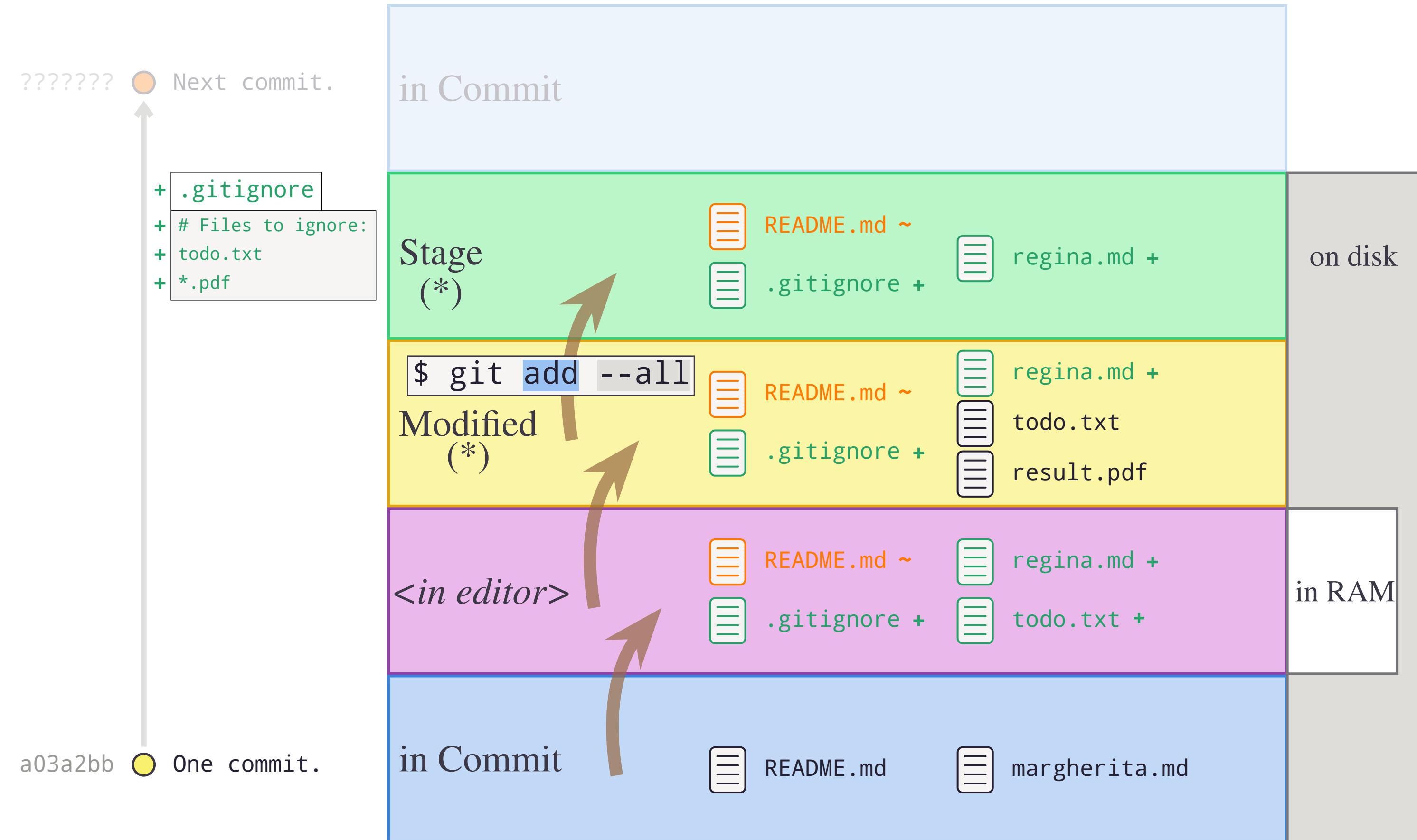
Constructing a Commit

The Whole Process



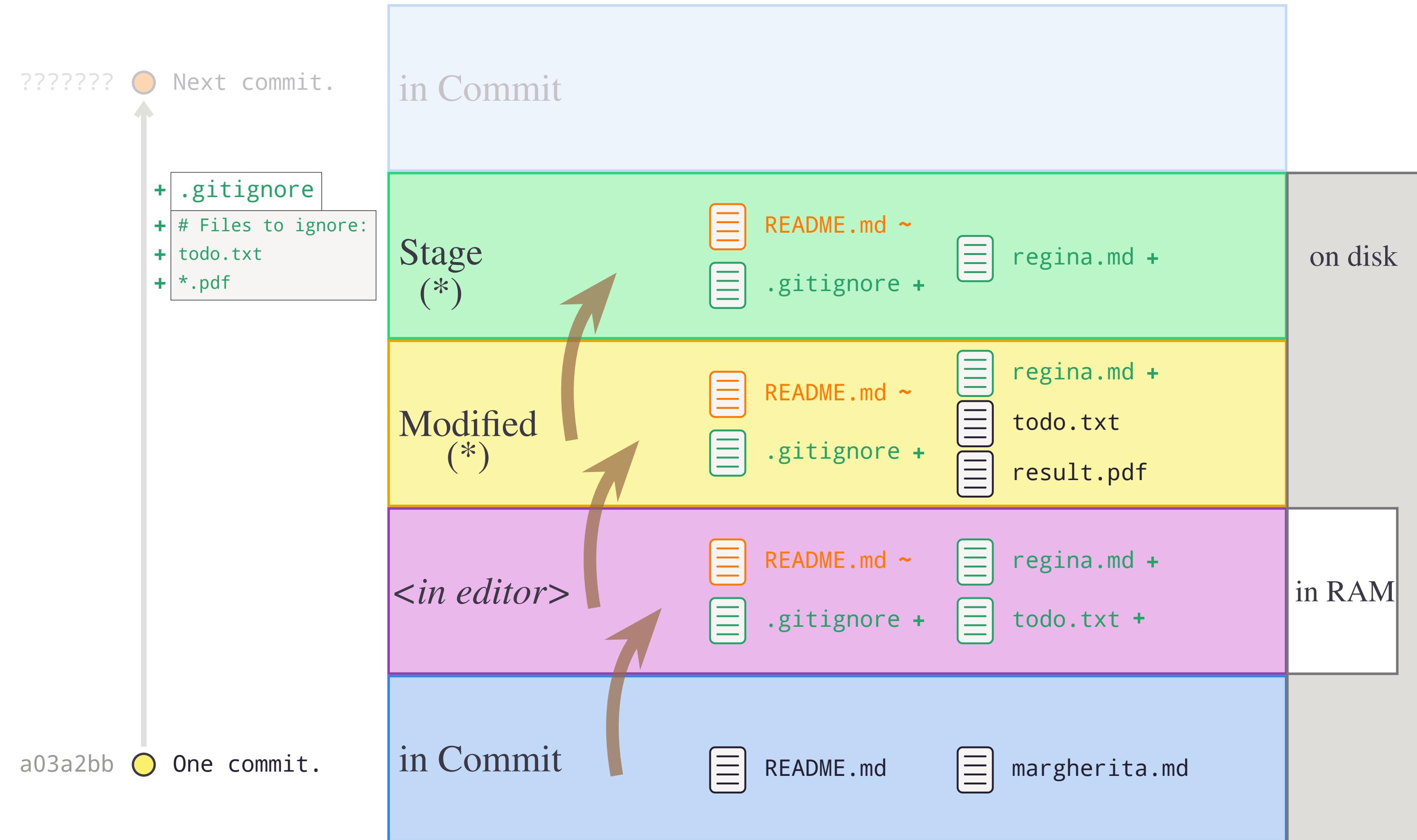
Constructing a Commit

The Whole Process



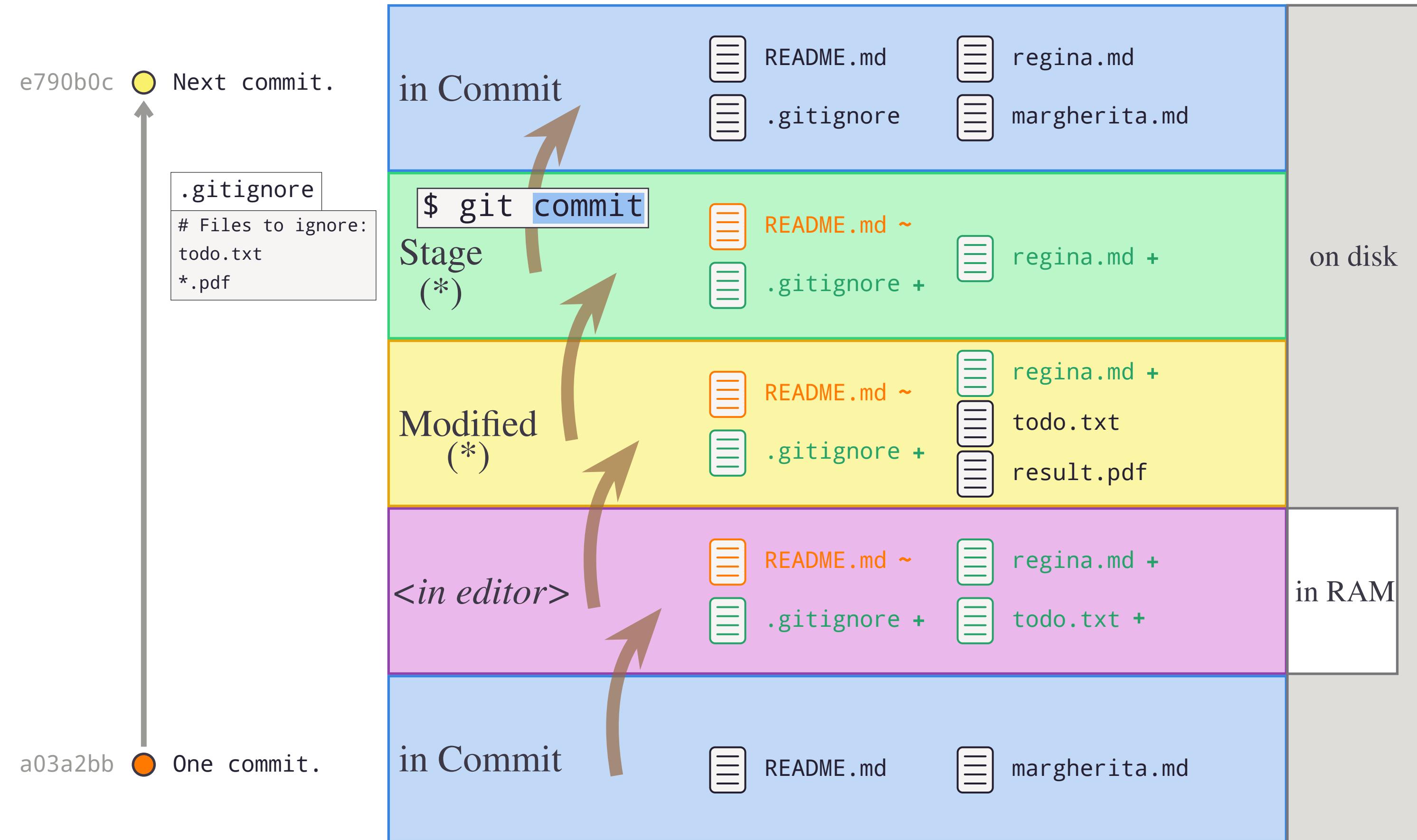
Constructing a Commit

The Whole Process



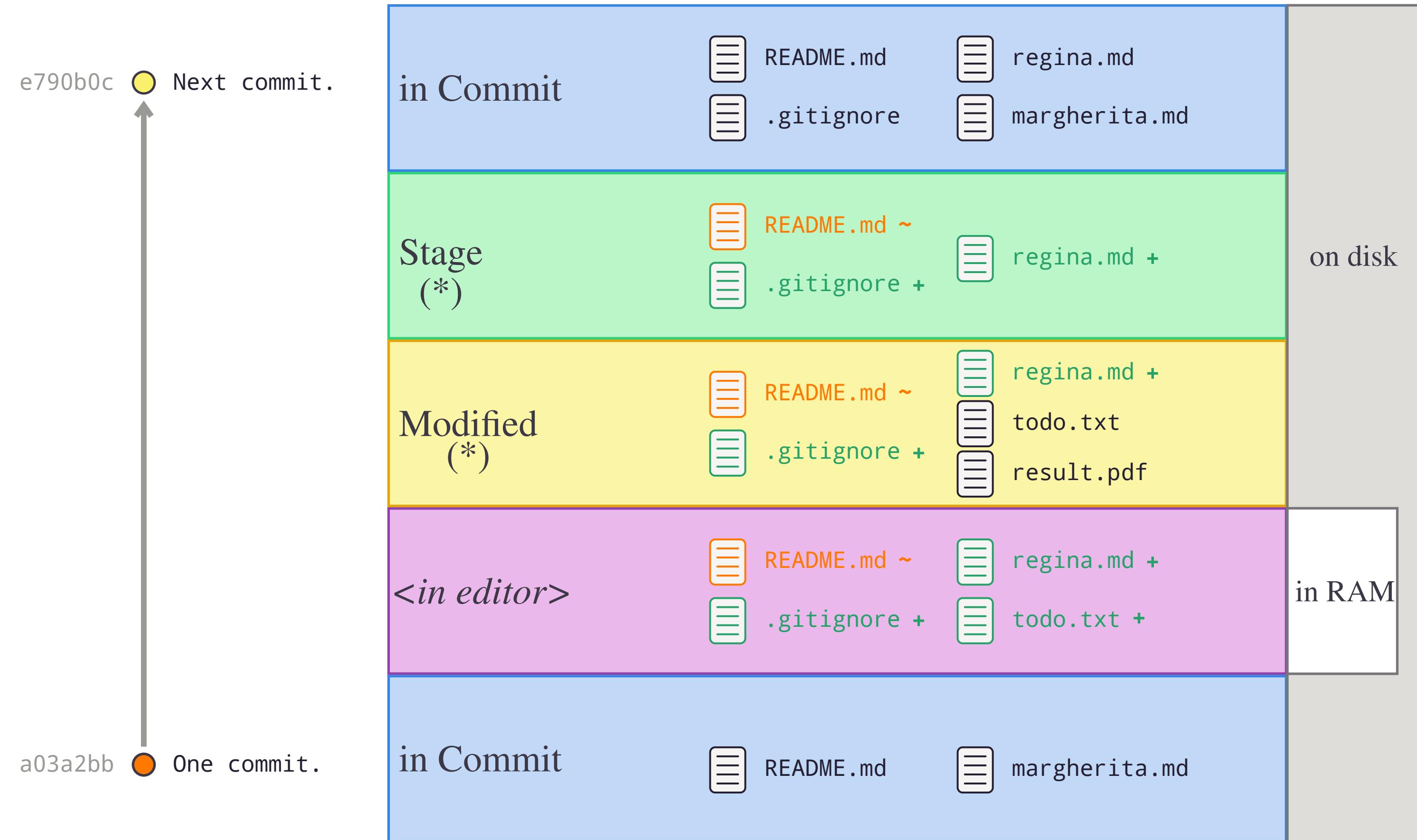
Constructing a Commit

The Whole Process



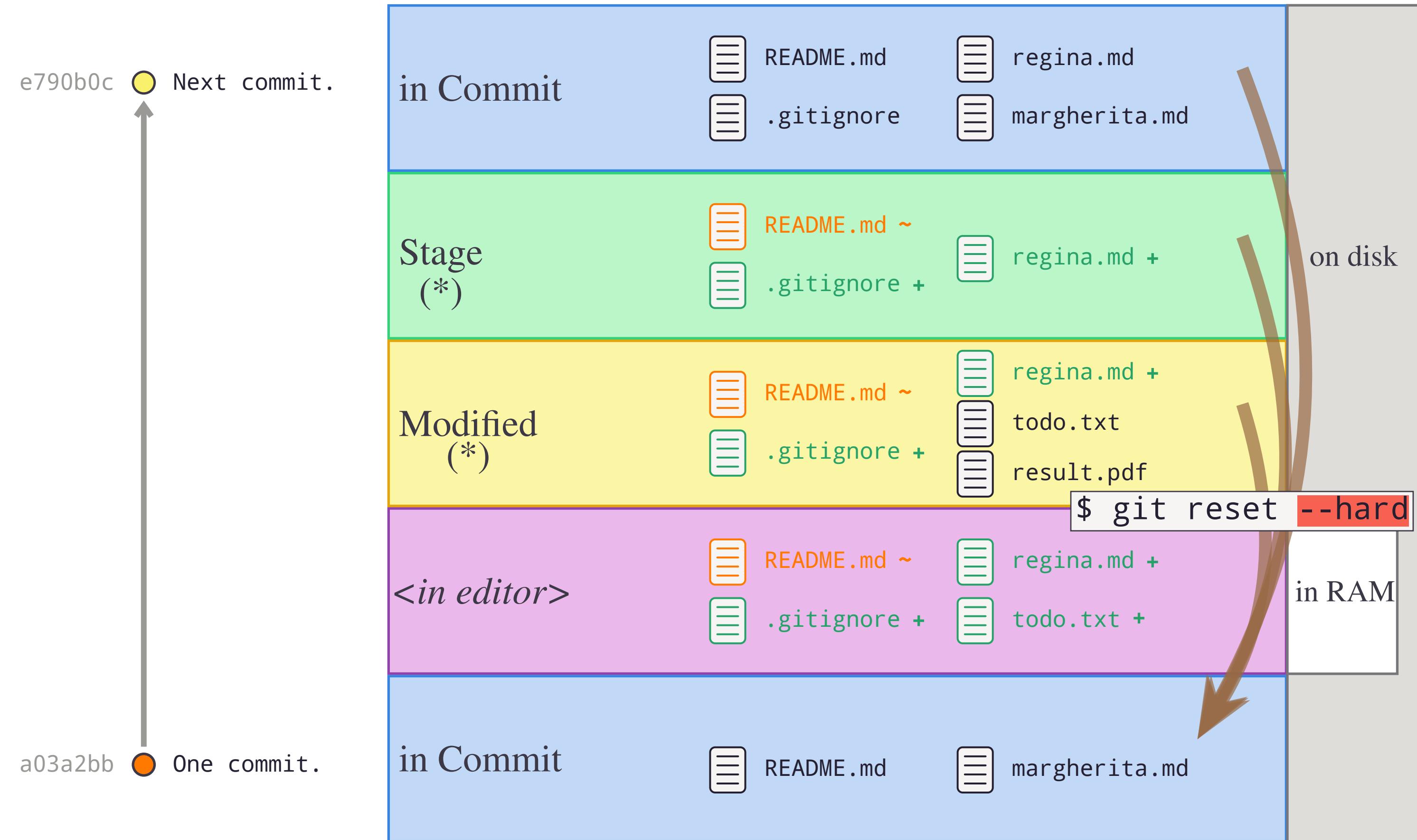
Constructing a Commit

The Whole Process



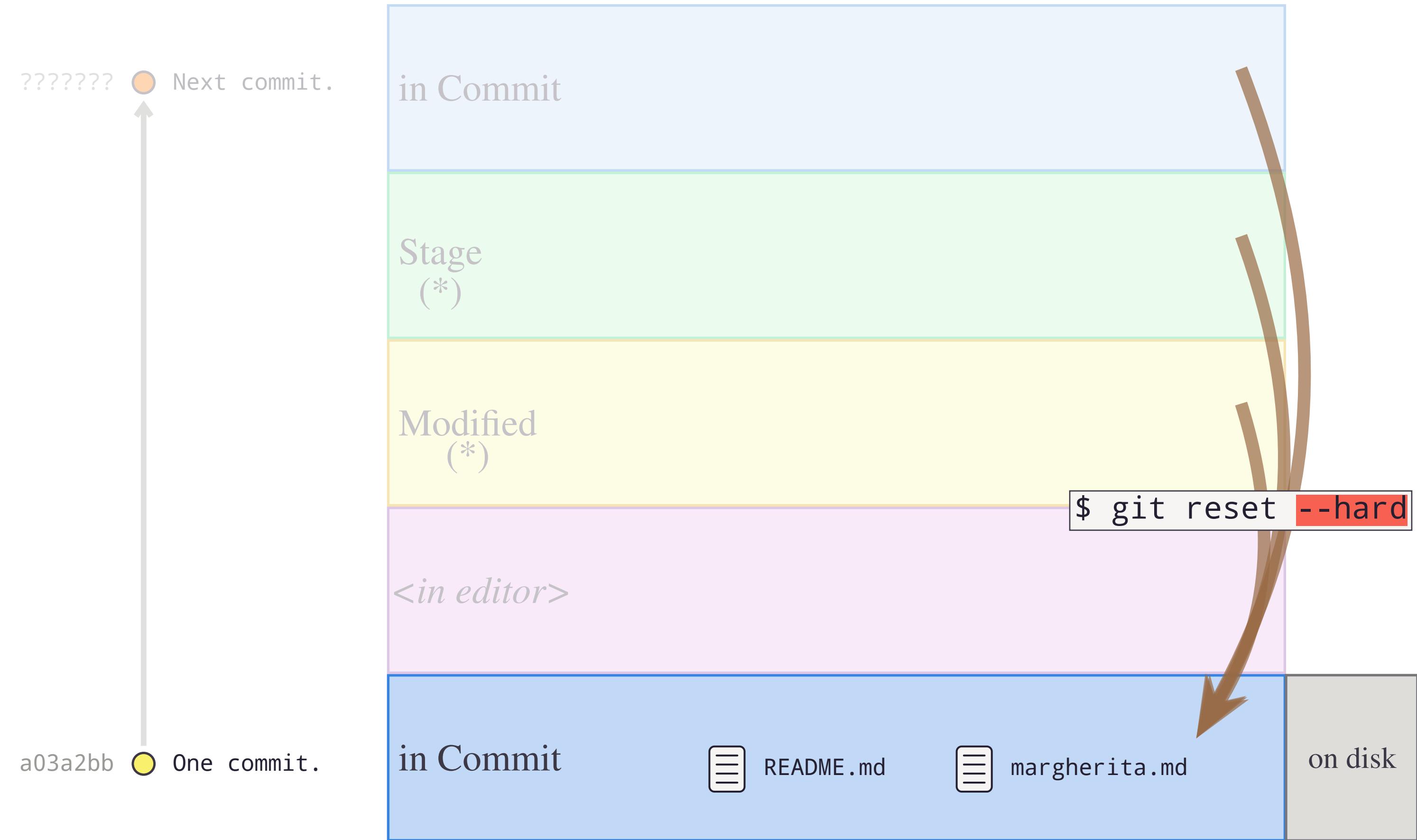
Constructing a Commit

The Whole Process



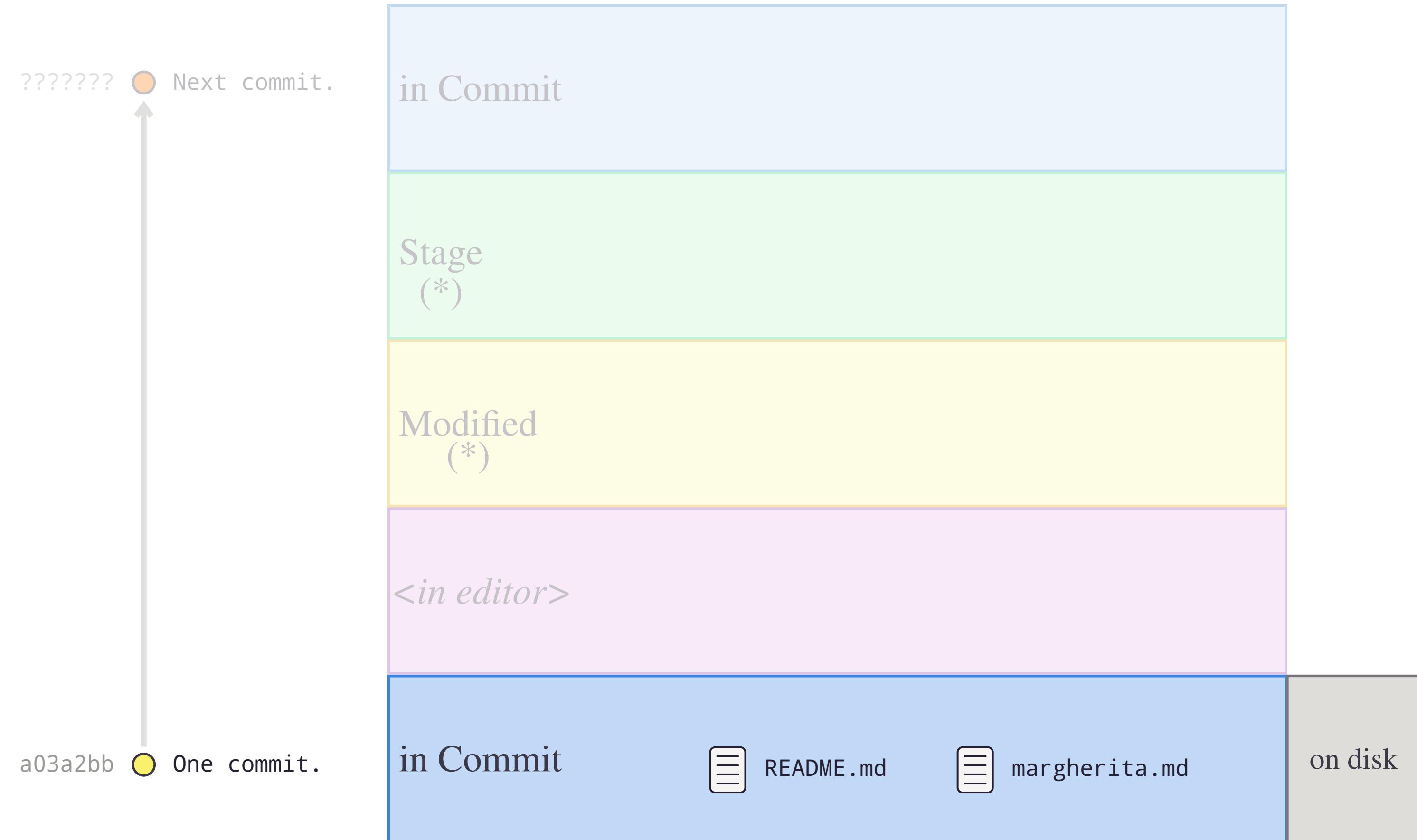
Constructing a Commit

The Whole Process



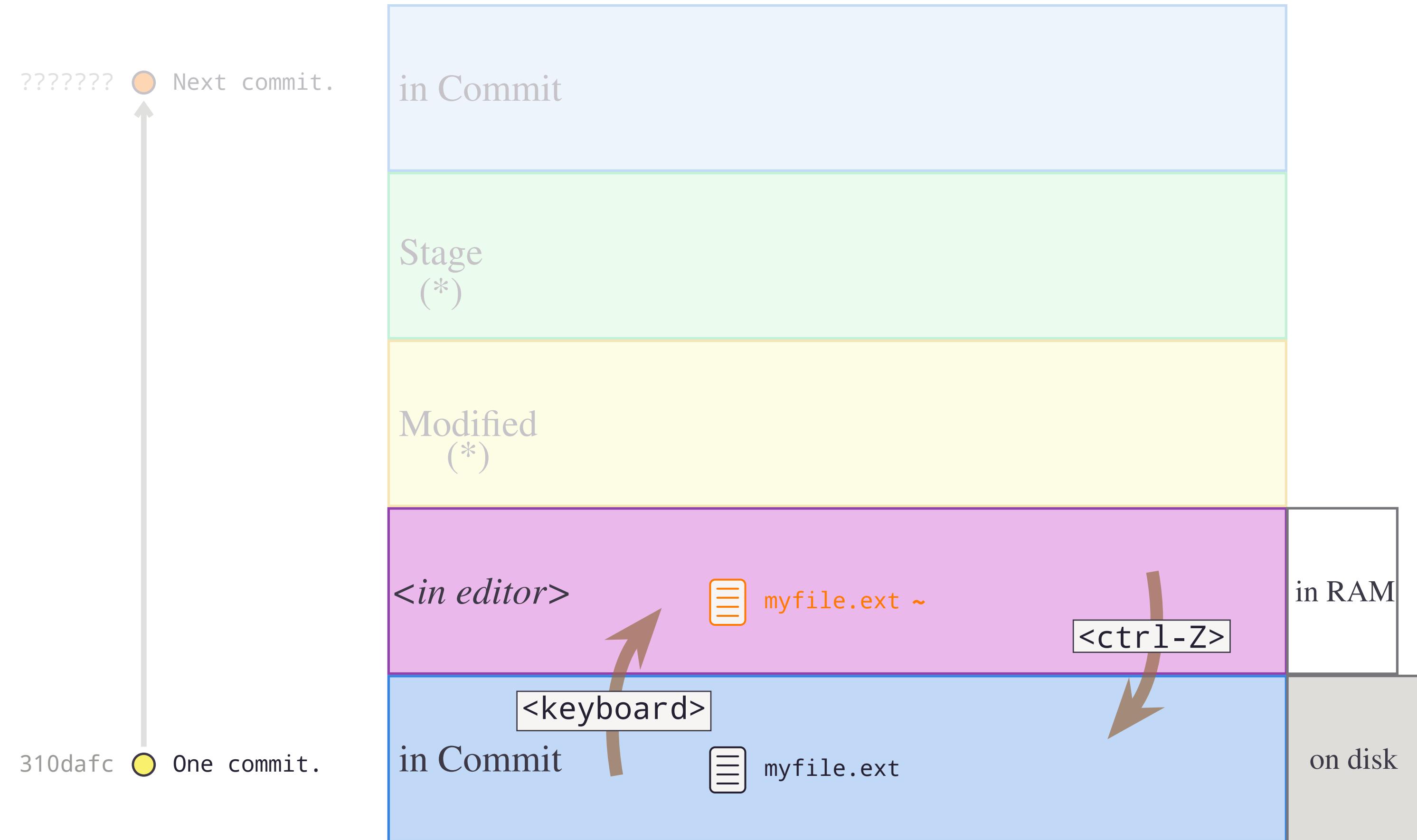
Constructing a Commit

The Whole Process



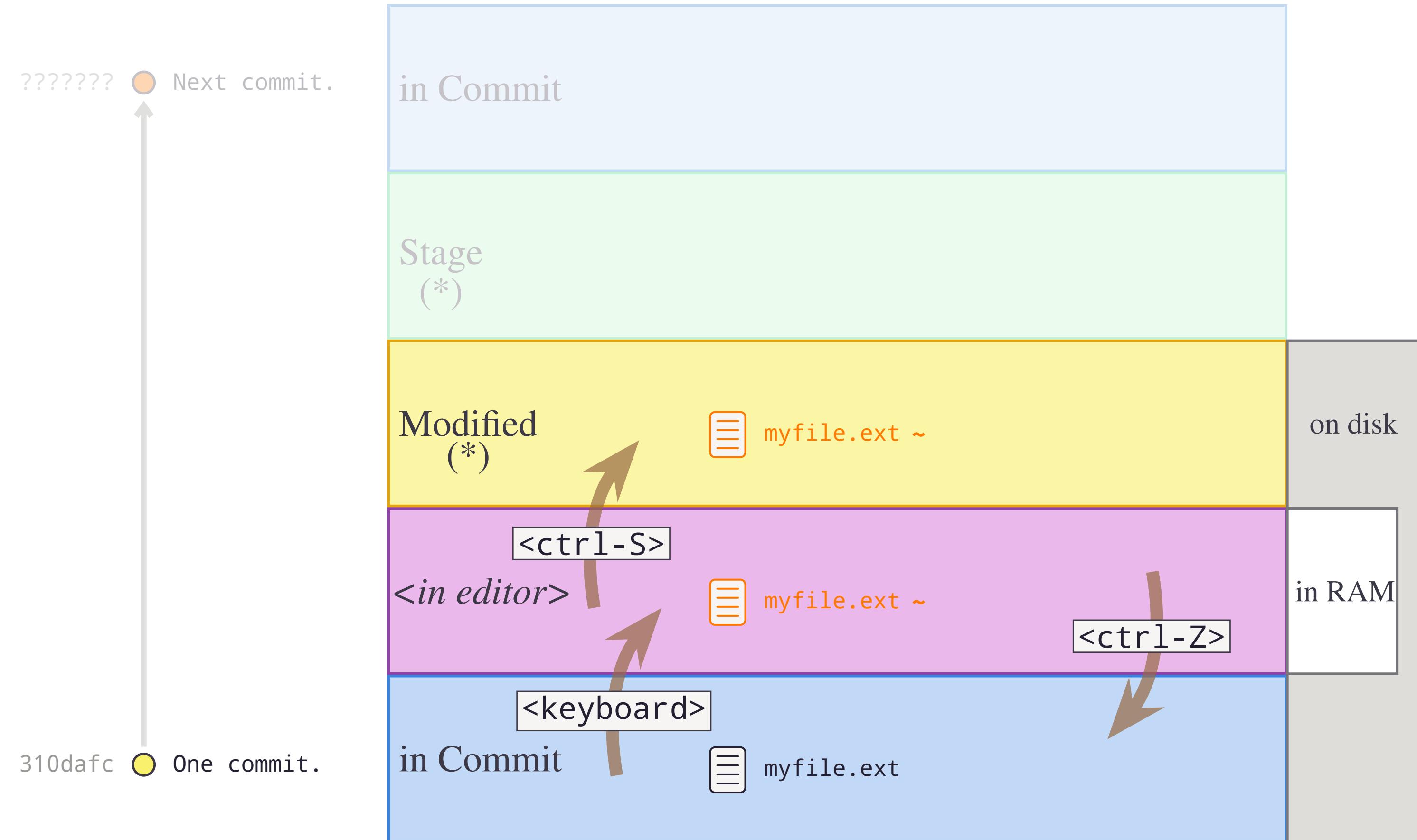
Constructing a Commit

The Whole Process



Constructing a Commit

The Whole Process



Constructing a Commit

The Whole Process

???????

● Next commit.

in Commit

Stage
(*)



myfile.ext ~

\$ git add

Modified
(*)



myfile.ext ~

<ctrl-S>

<in editor>



myfile.ext ~

<keyboard>

in Commit



myfile.ext

on disk

in RAM

<ctrl-Z>

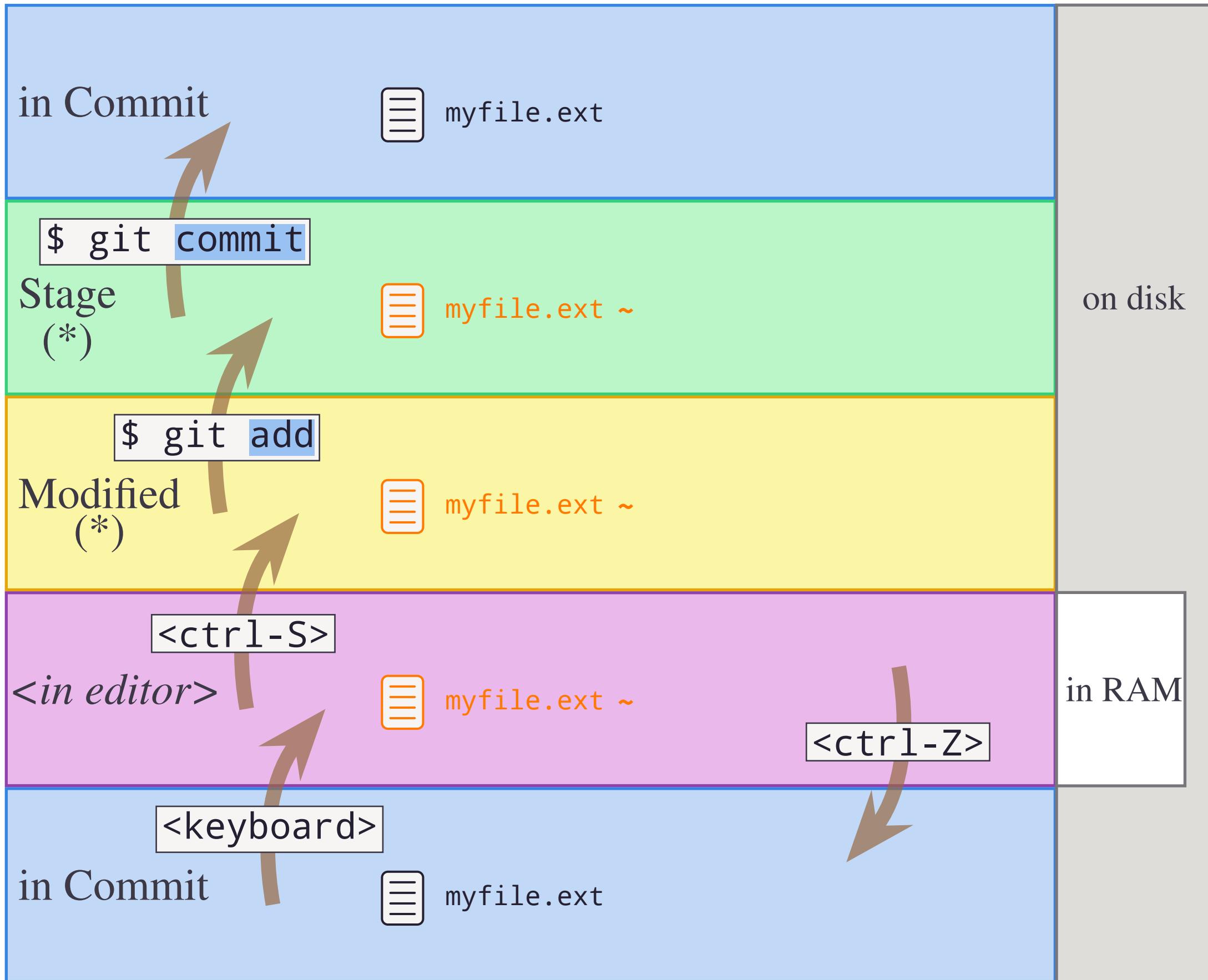
310dafc

● One commit.

Constructing a Commit

The Whole Process

c451c98 ● Next commit.

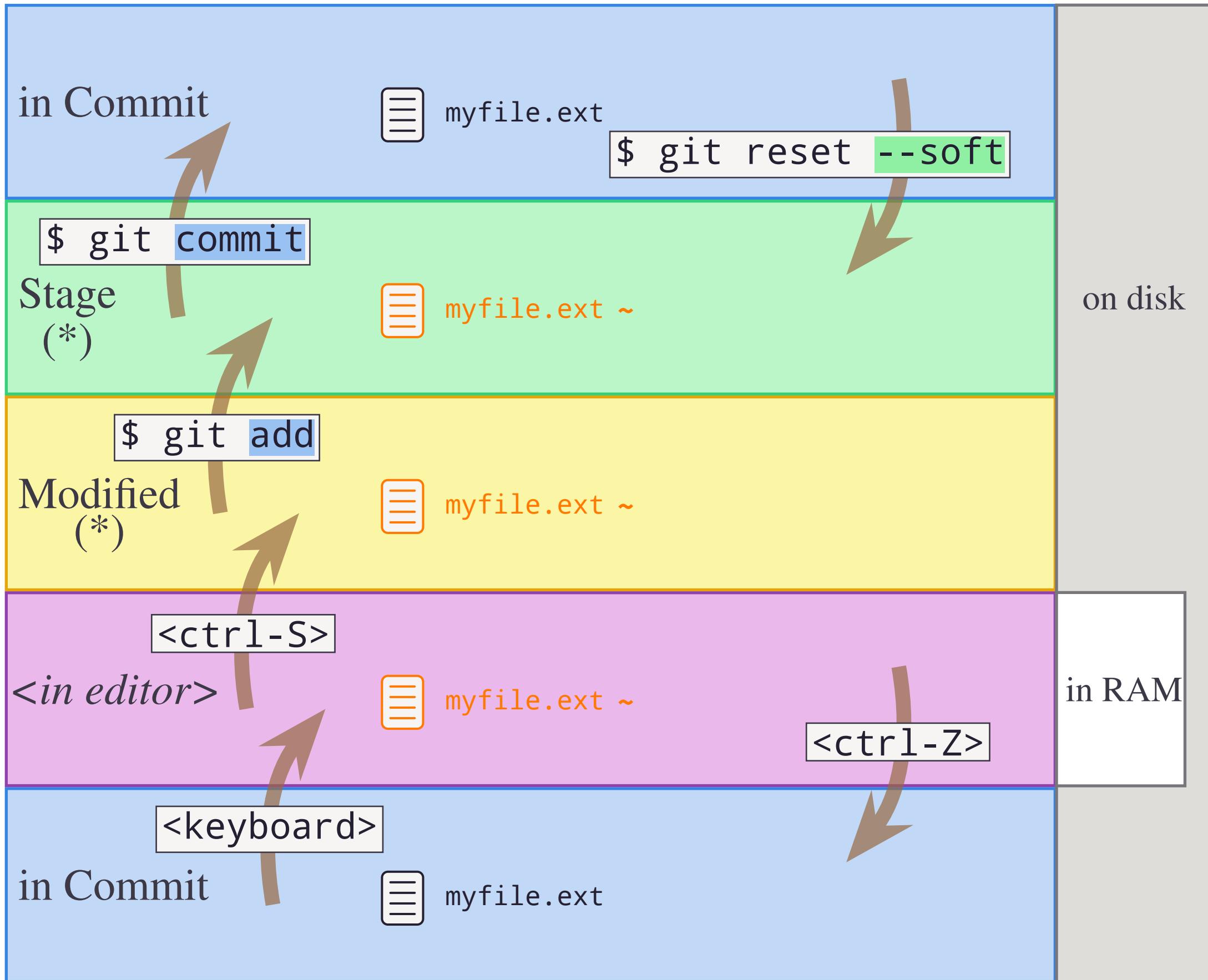


310dafc ● One commit.

Constructing a Commit

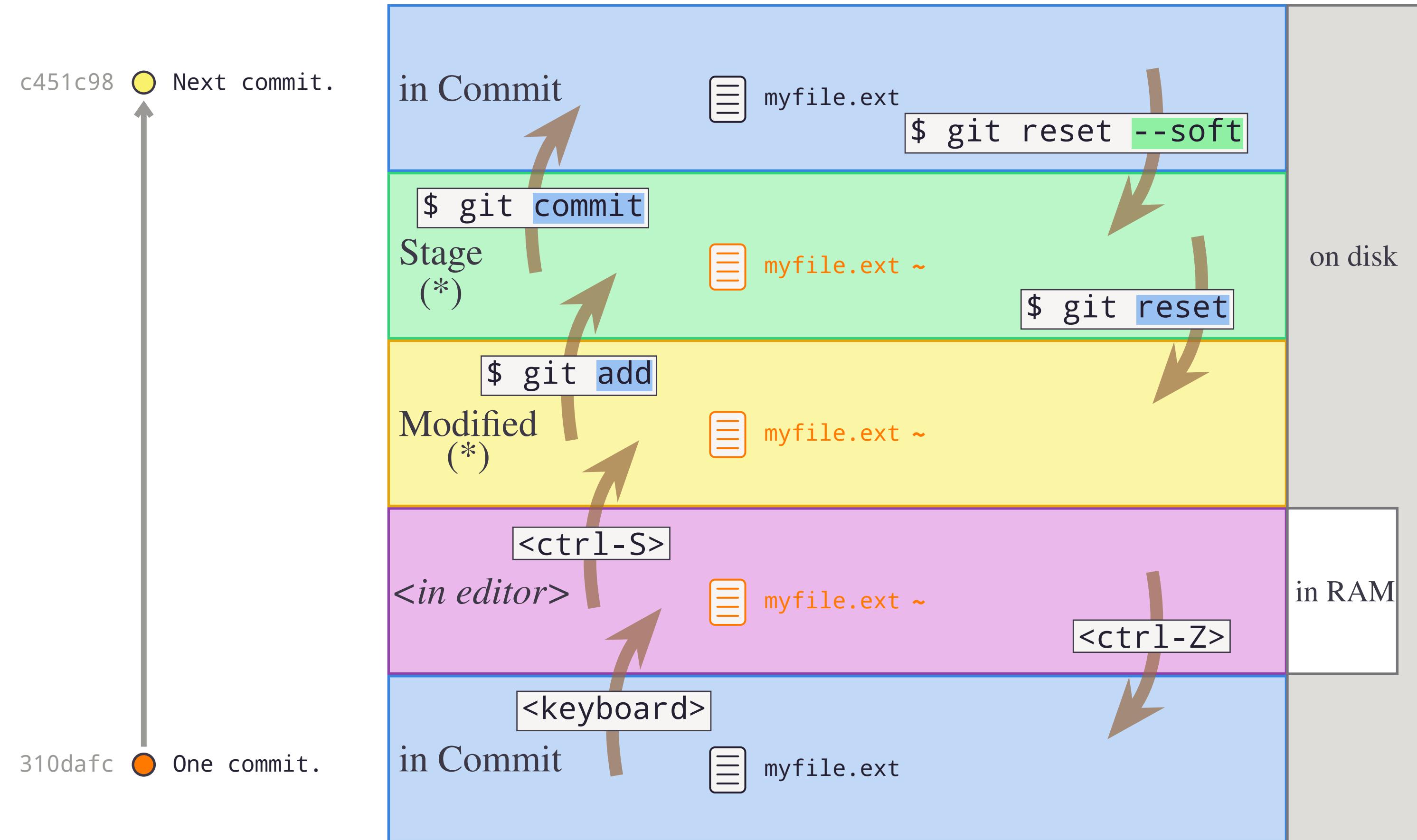
The Whole Process

c451c98 ● Next commit.



Constructing a Commit

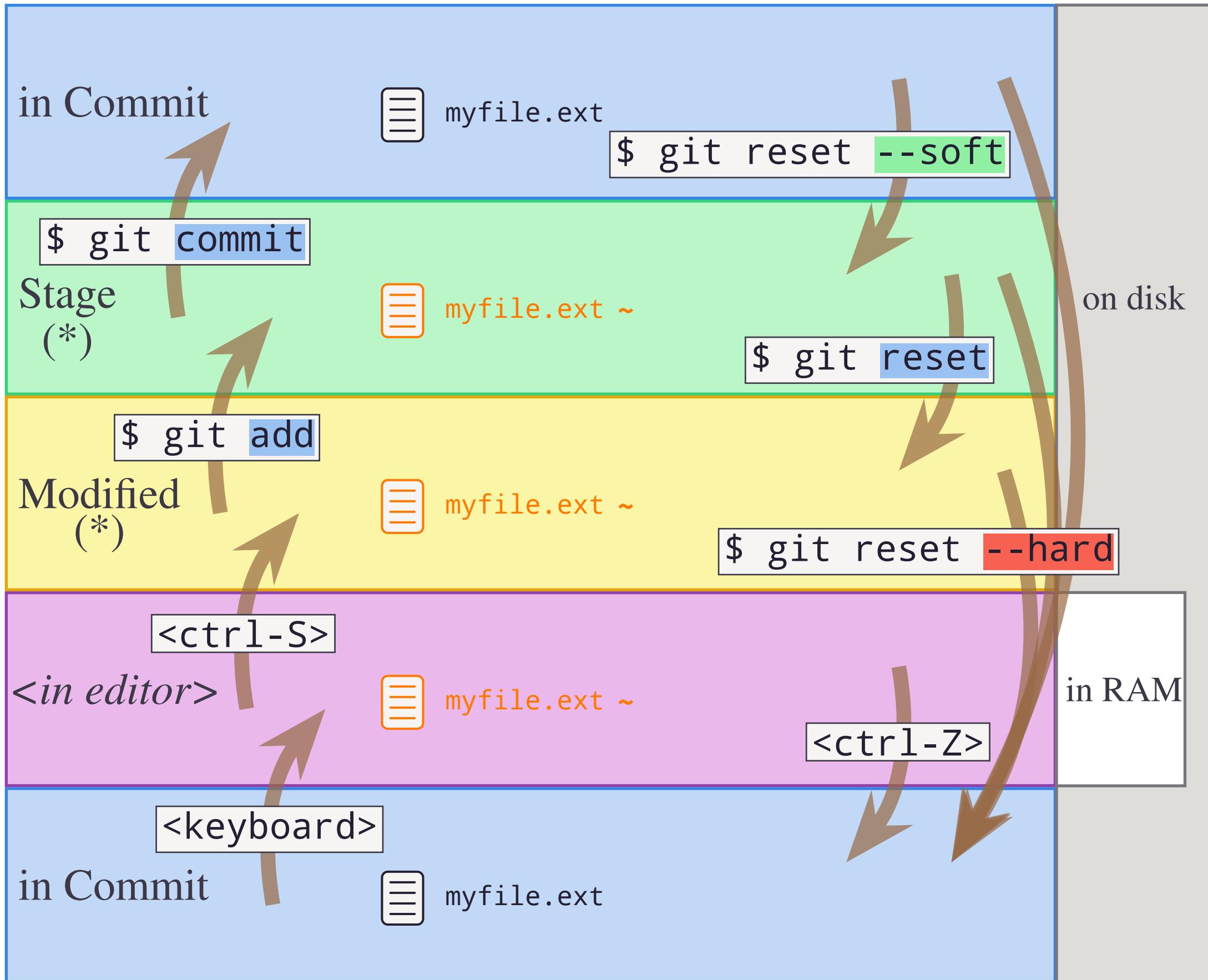
The Whole Process



Constructing a Commit

The Whole Process

c451c98 ● Next commit.

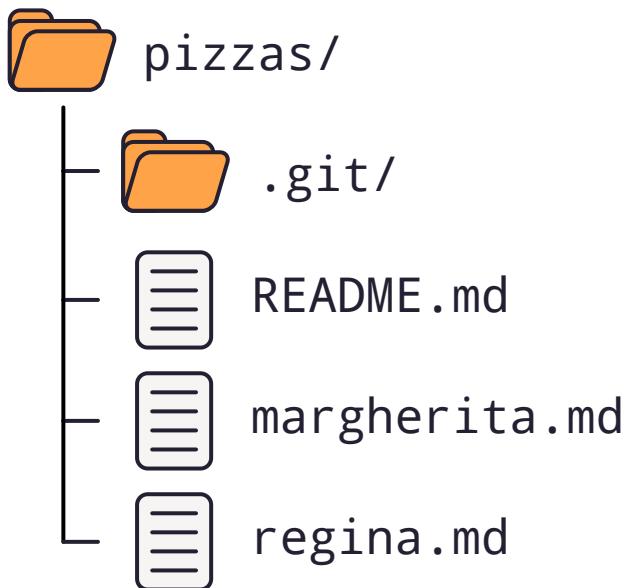


310dafc ● One commit.

Share Your Project Online

Share Your Project

Creating a Remote Repository



README.md

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

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

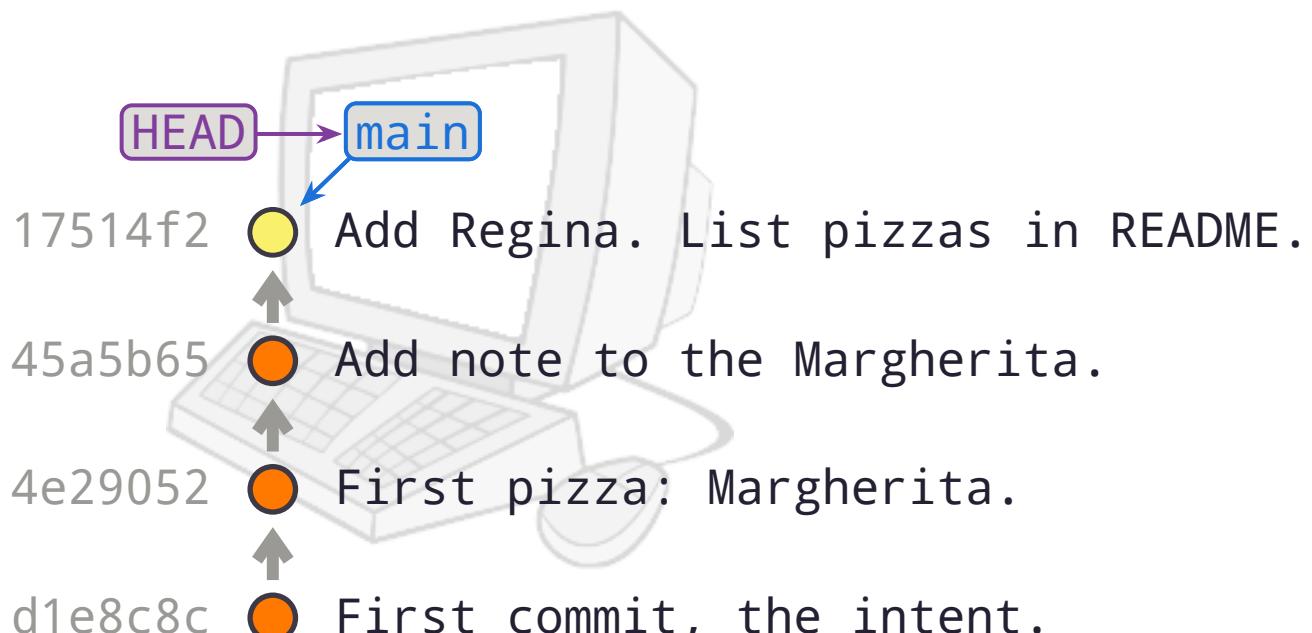
margherita.md

Margherita

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

—Base: tomato sauce
—Topping:
- Mozzarella

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



regina.md

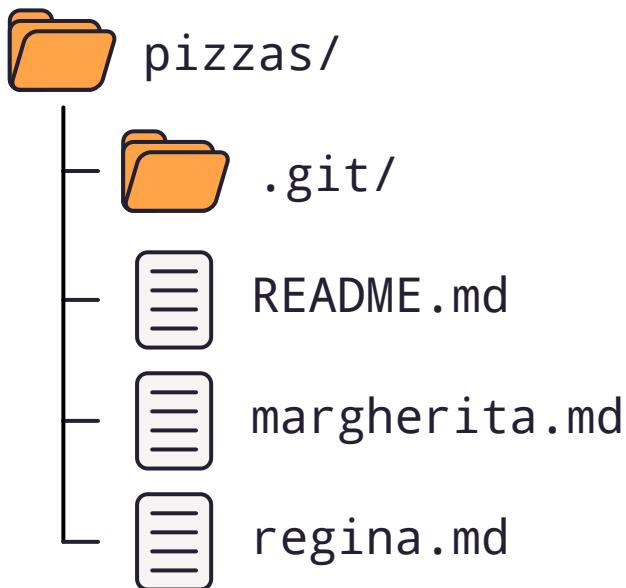
Regina

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

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

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README.md

Collect and distribute the best pizzas recipes.

Where to find the pizzas in the project:

- __Margherita__: `./margherita.md`
- __Regina__: `./regina.md`

margherita.md

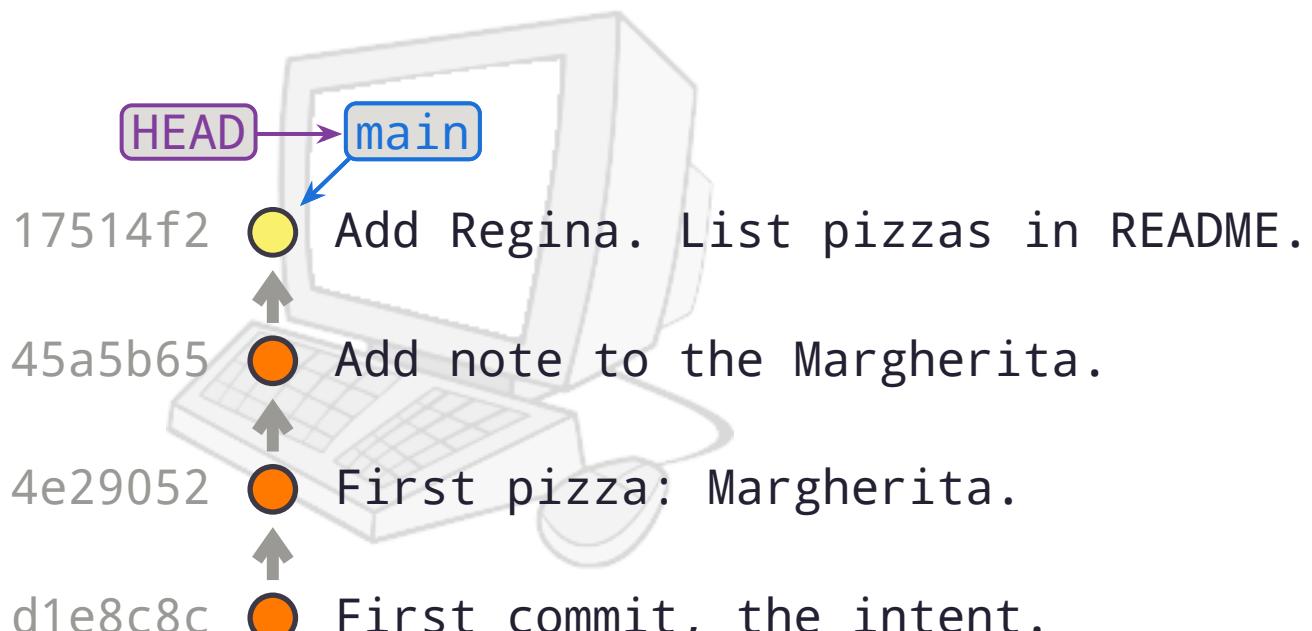
Margherita

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

__Base__: tomato sauce
__Topping__:
- Mozzarella

*Note:

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



regina.md

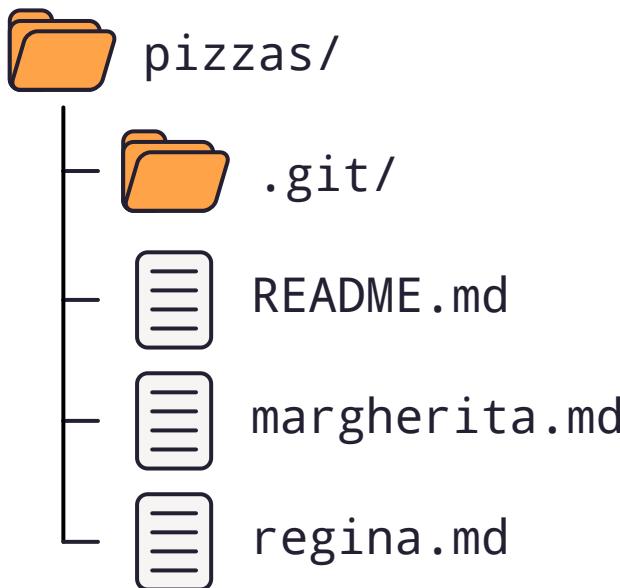
Regina

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

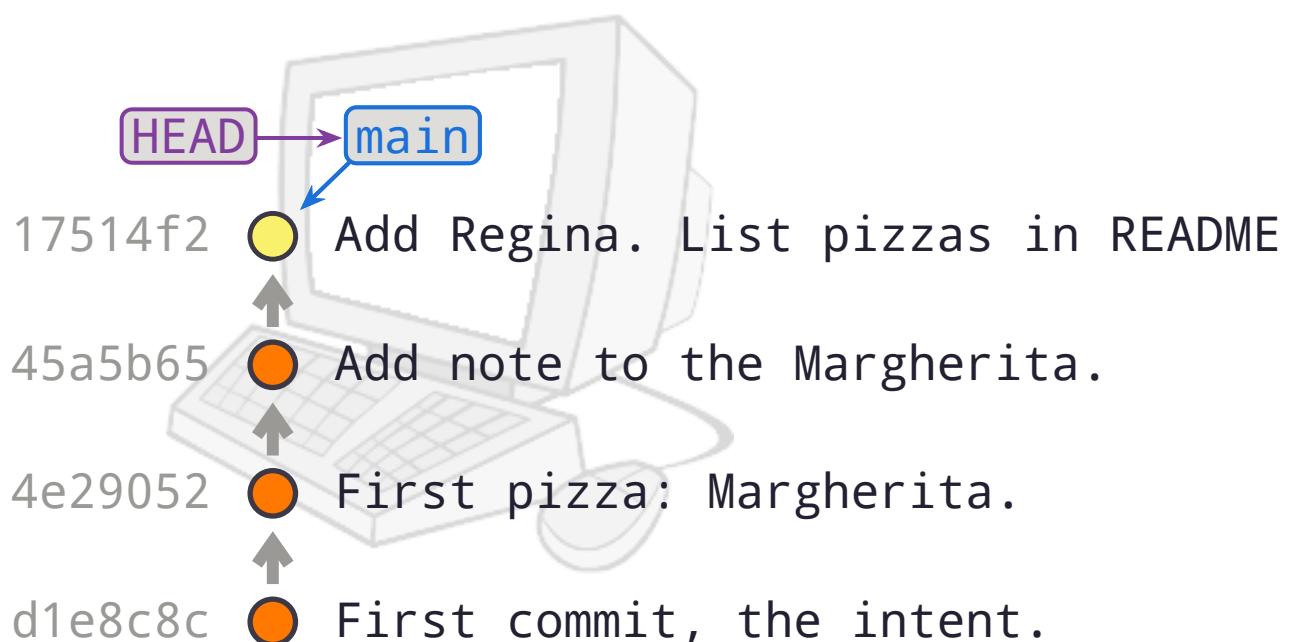
__Base__: tomato sauce
__Topping__:
- Mozzarella
- Ham
- Mushrooms

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Creating a Remote Repository

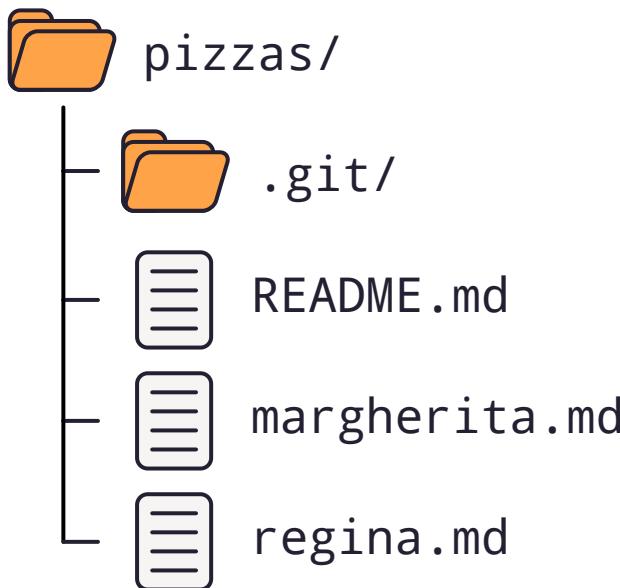


<https://github.com/MyAccount/>



Share Your Project

Creating a Remote Repository



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

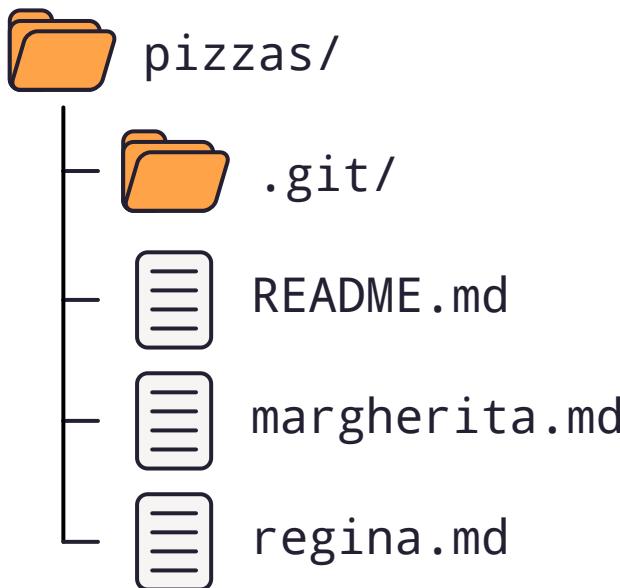


HEAD → main



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Creating a Remote Repository

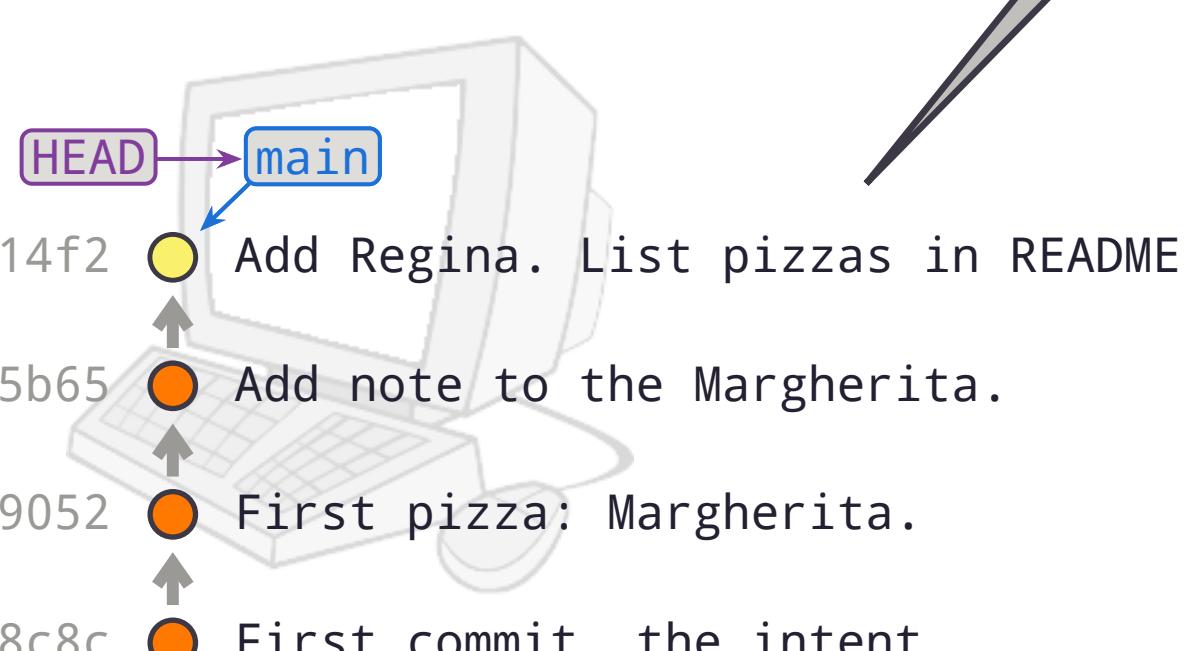


<https://github.com/MyAccount/Pizzas>



HEAD → main

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



Share Your Project

Creating a Remote Repository

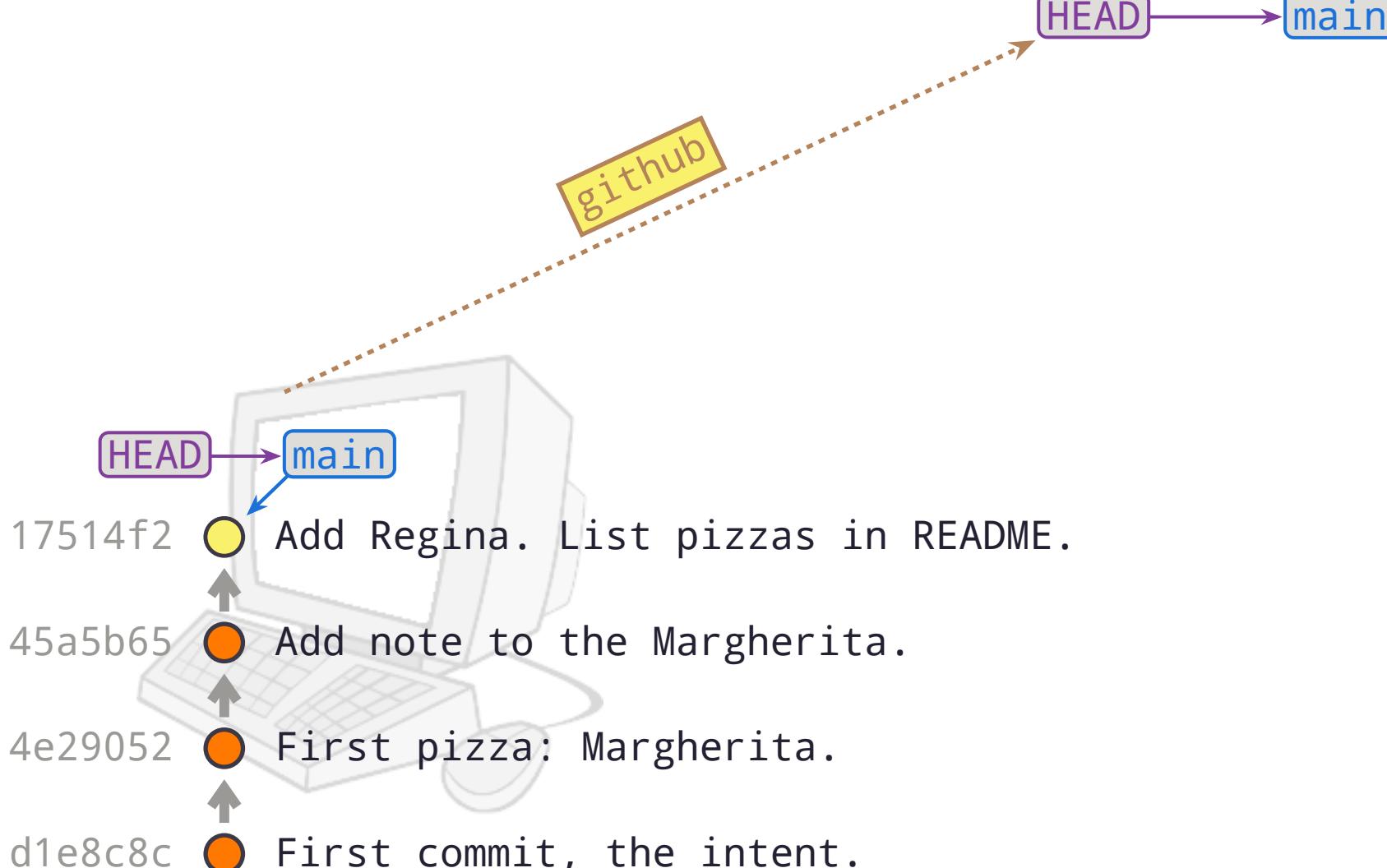


README.md

margherita.md

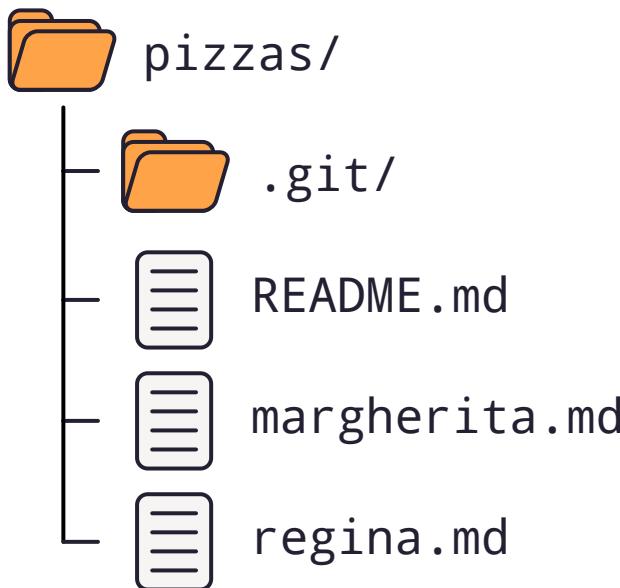
regina.md

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

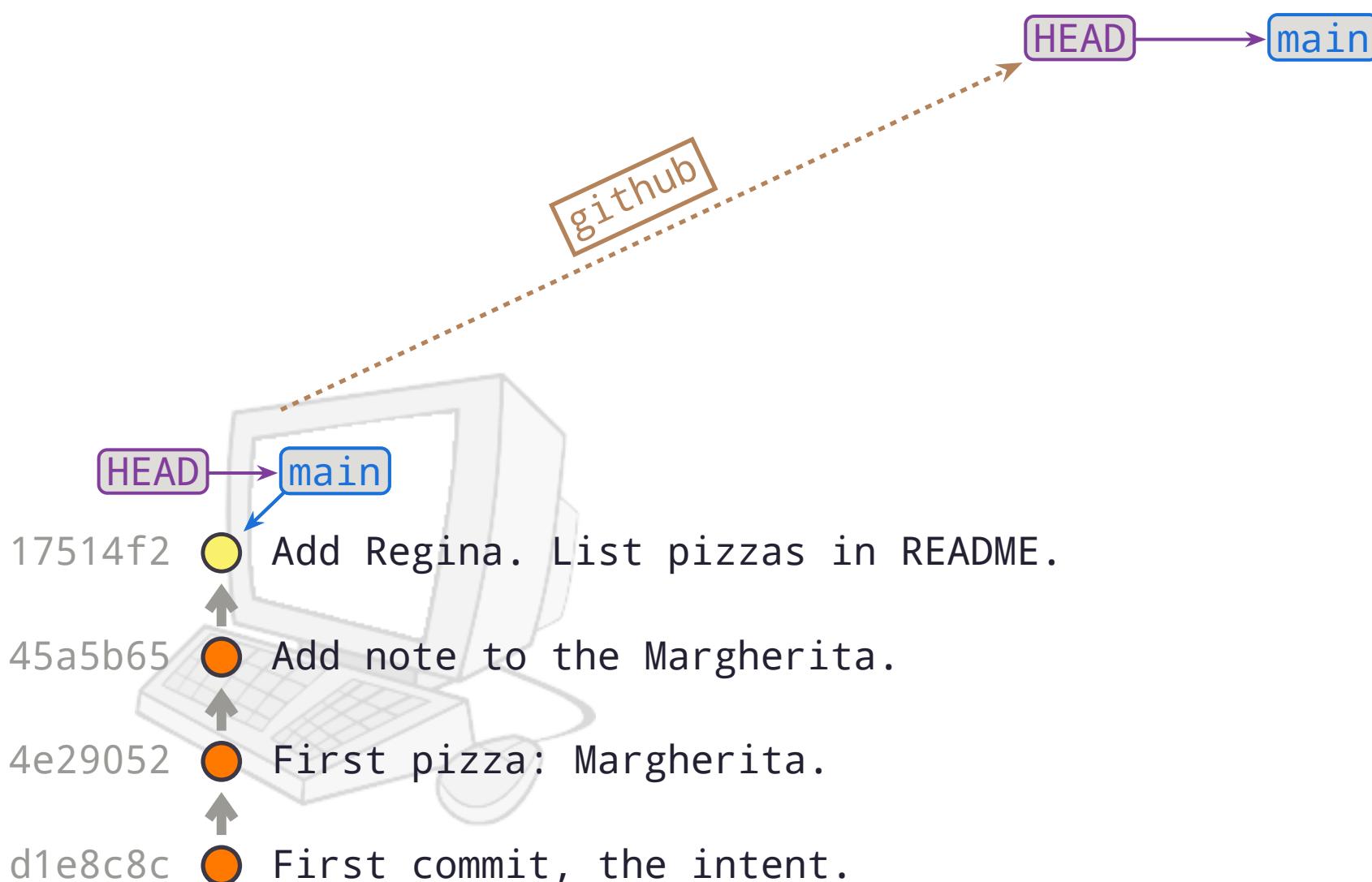


Share Your Project

Creating a Remote Repository

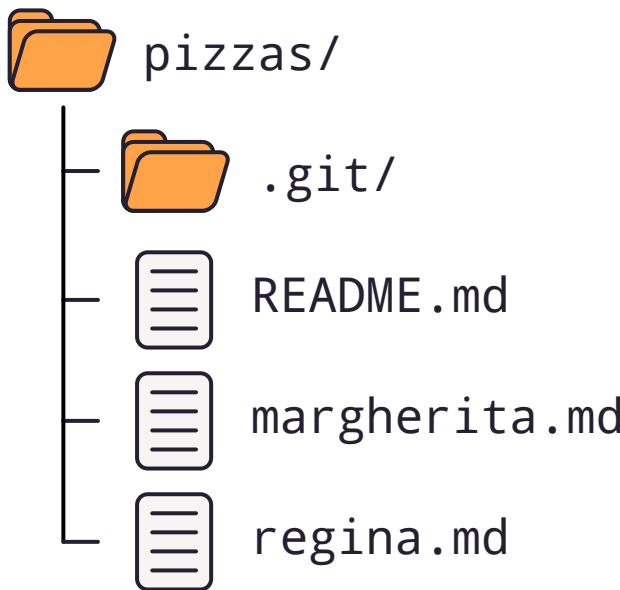


<https://github.com/MyAccount/Pizzas>

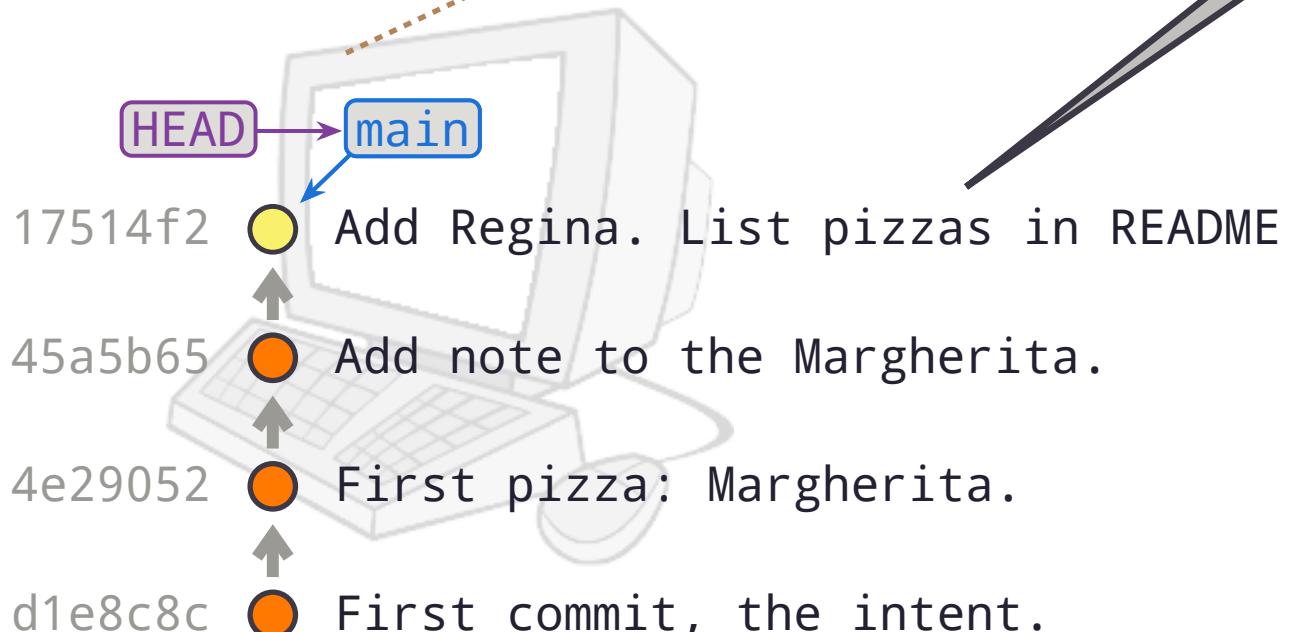
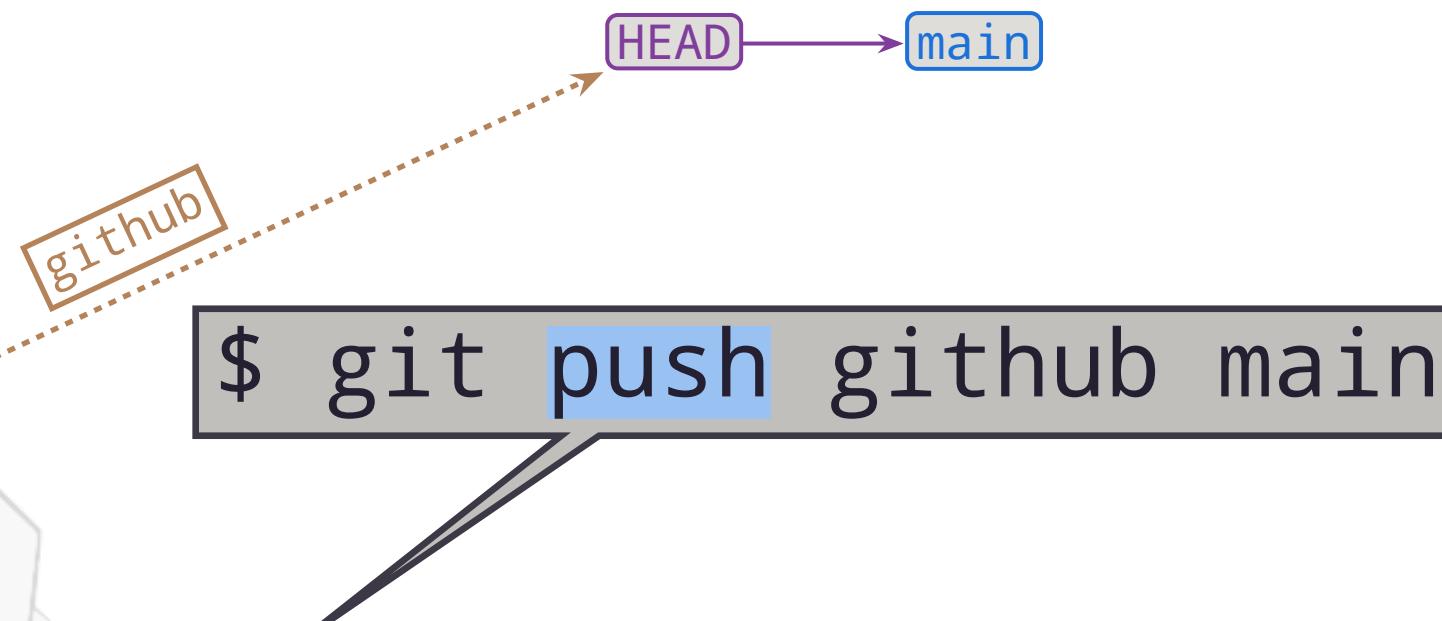


Share Your Project

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



Share Your Project

Creating a Remote Repository

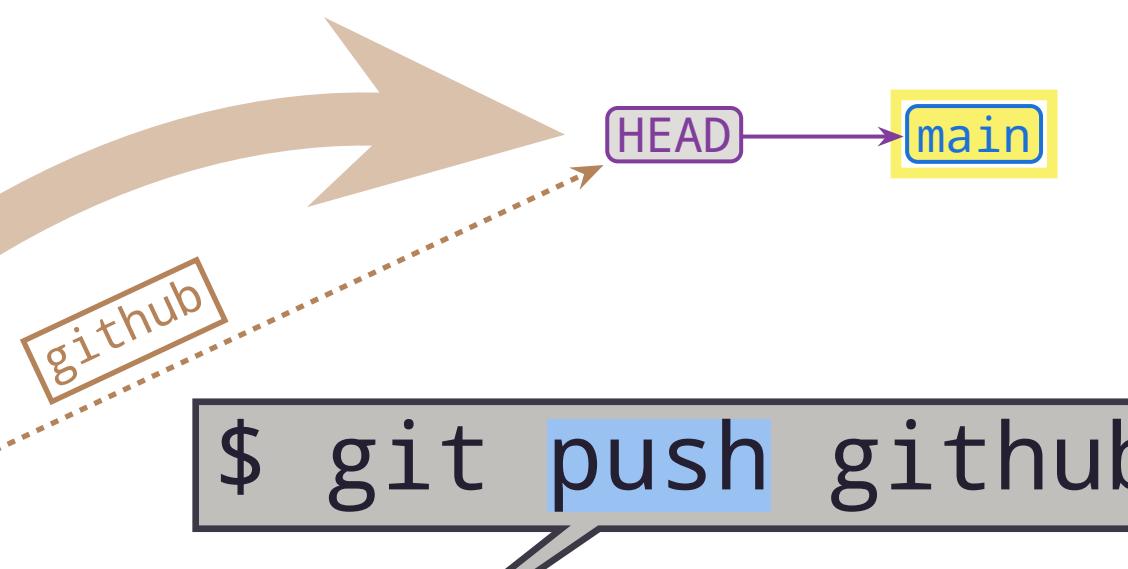


README.md

margherita.md

regina.md

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



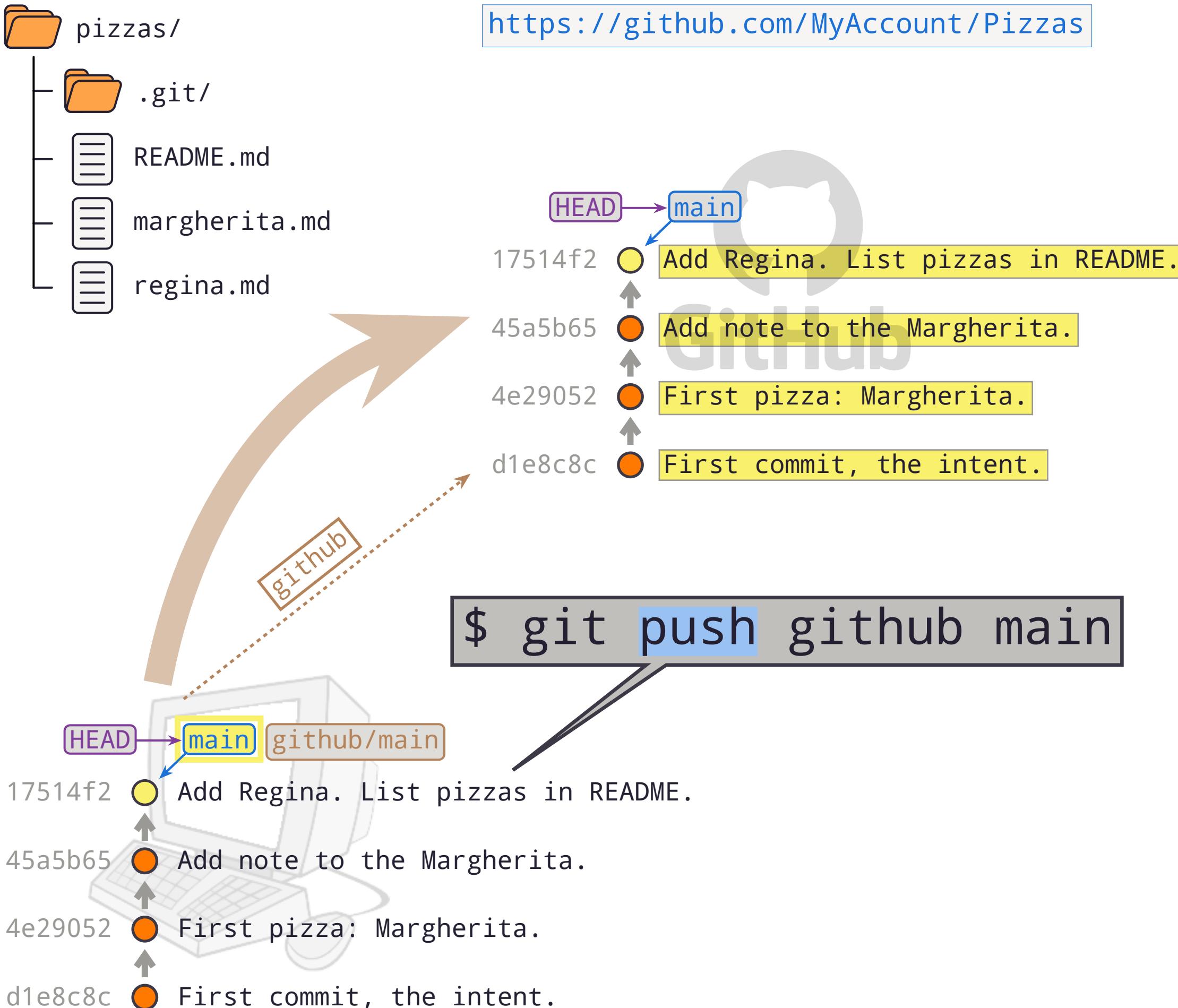
```
$ git push github main
```



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

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Creating a Remote Repository



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pizzas/



.git/



README.md

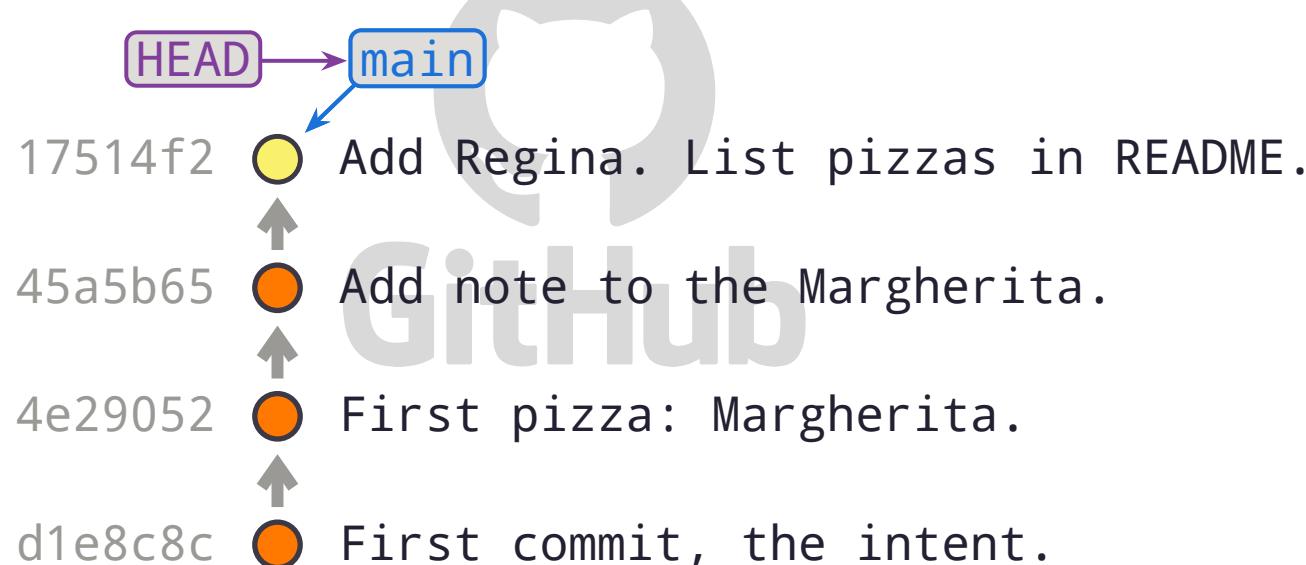


margherita.md



regina.md

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



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pizzas/



README.md

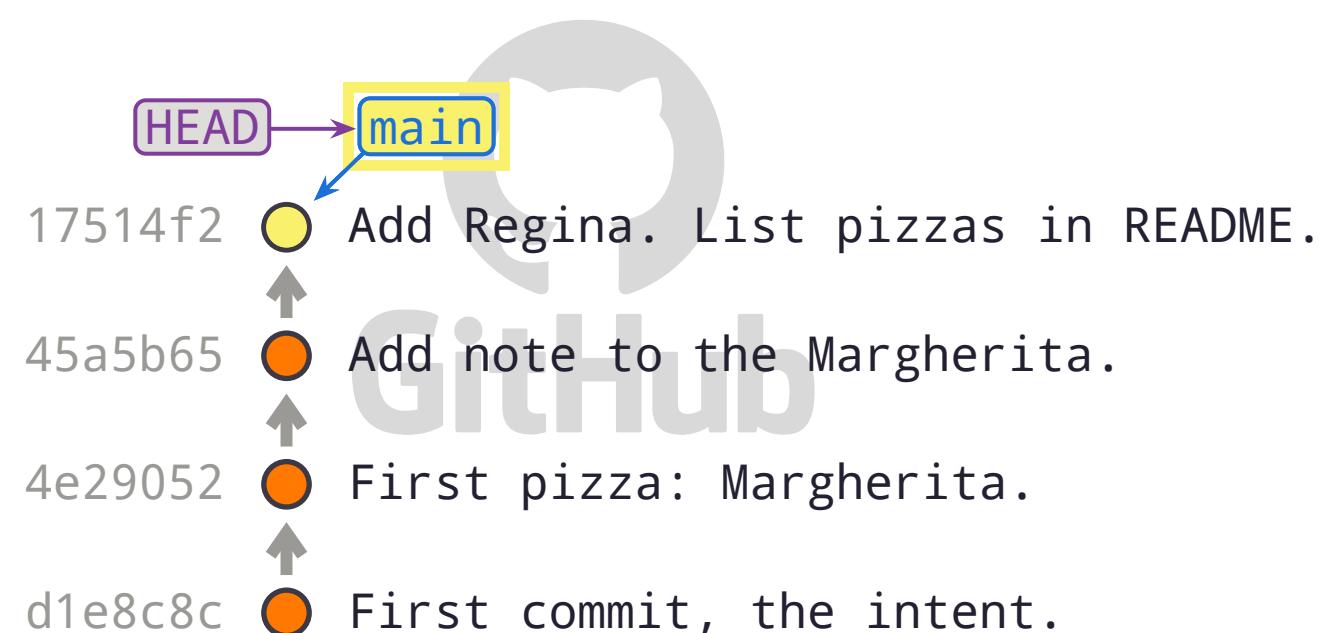


margherita.md



regina.md

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



HEAD → main → github/main



17514f2 Add Regina. List pizzas in README.



45a5b65 Add note to the Margherita.



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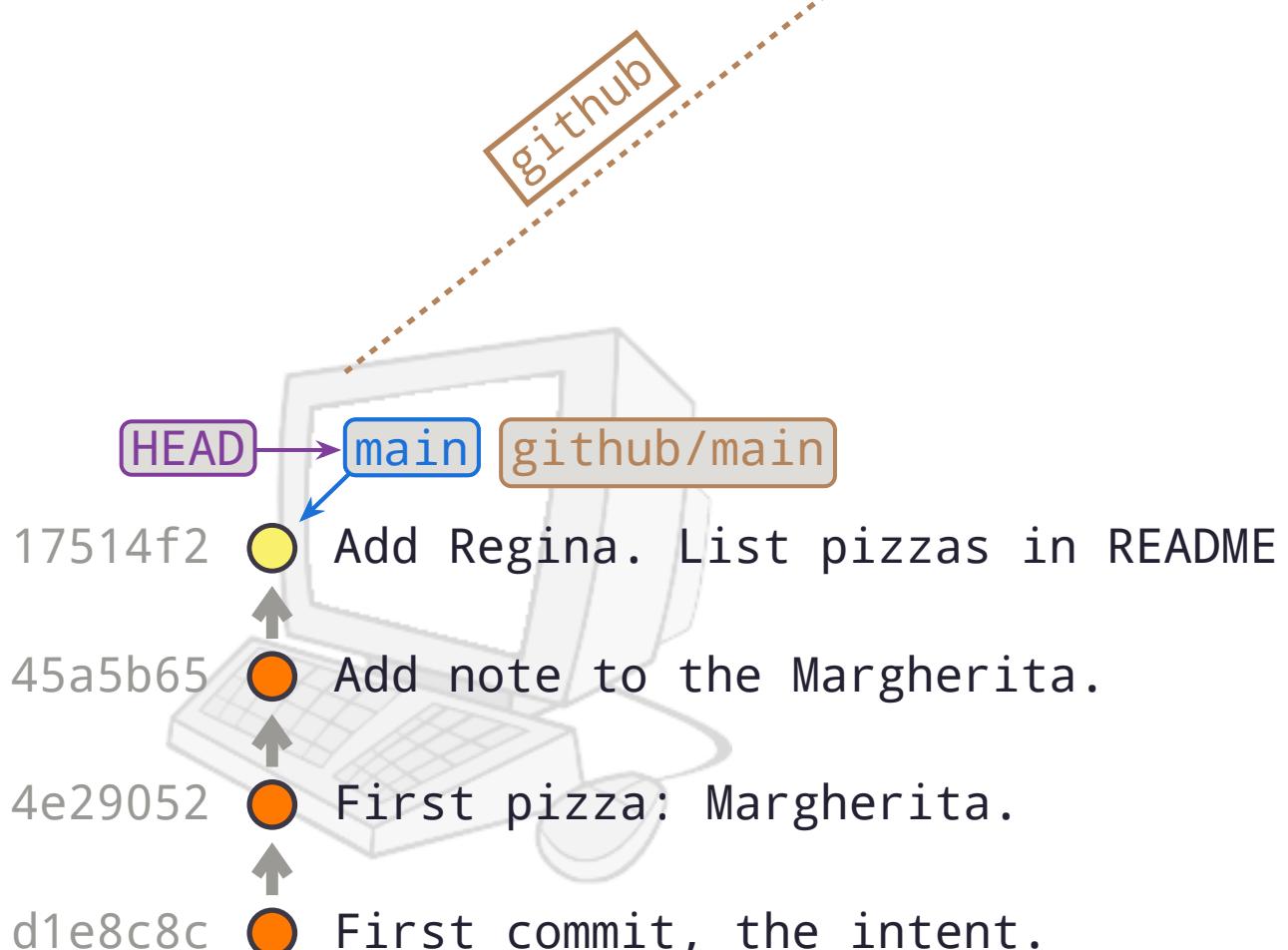
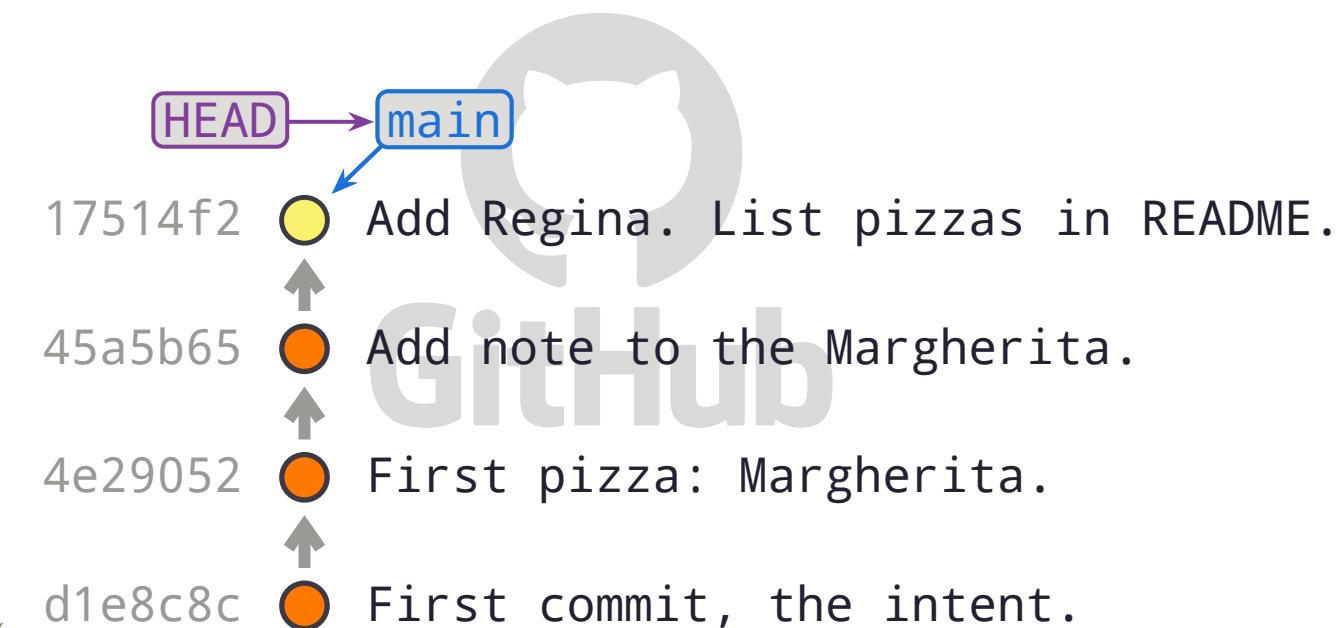
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Creating a Remote Repository



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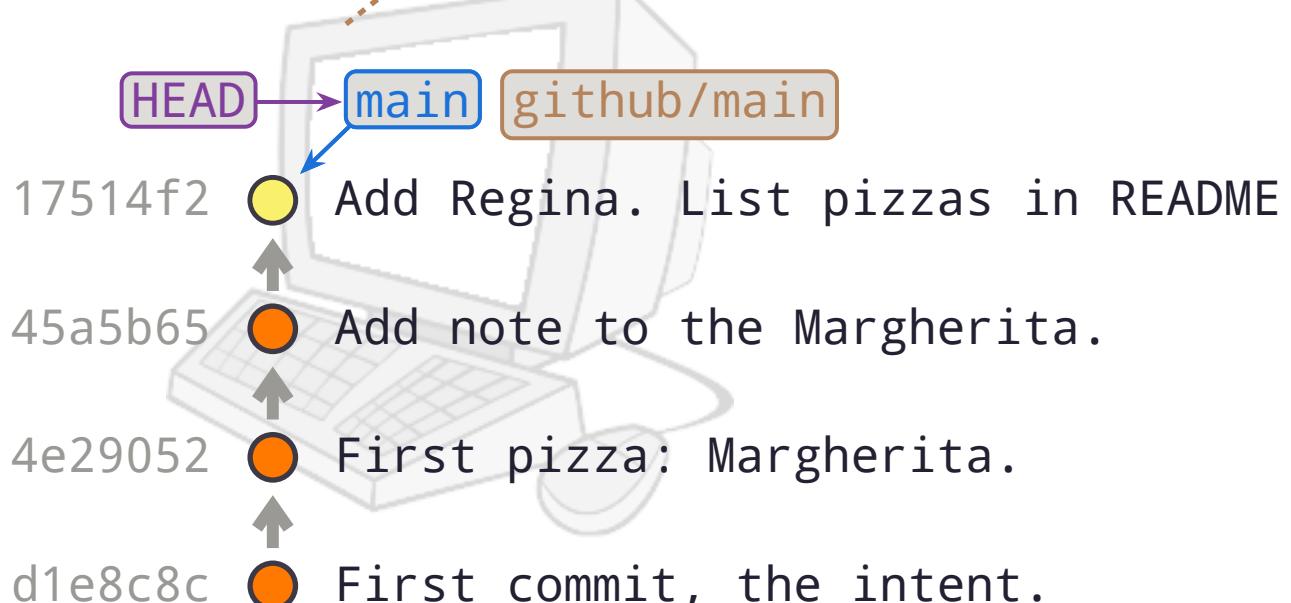
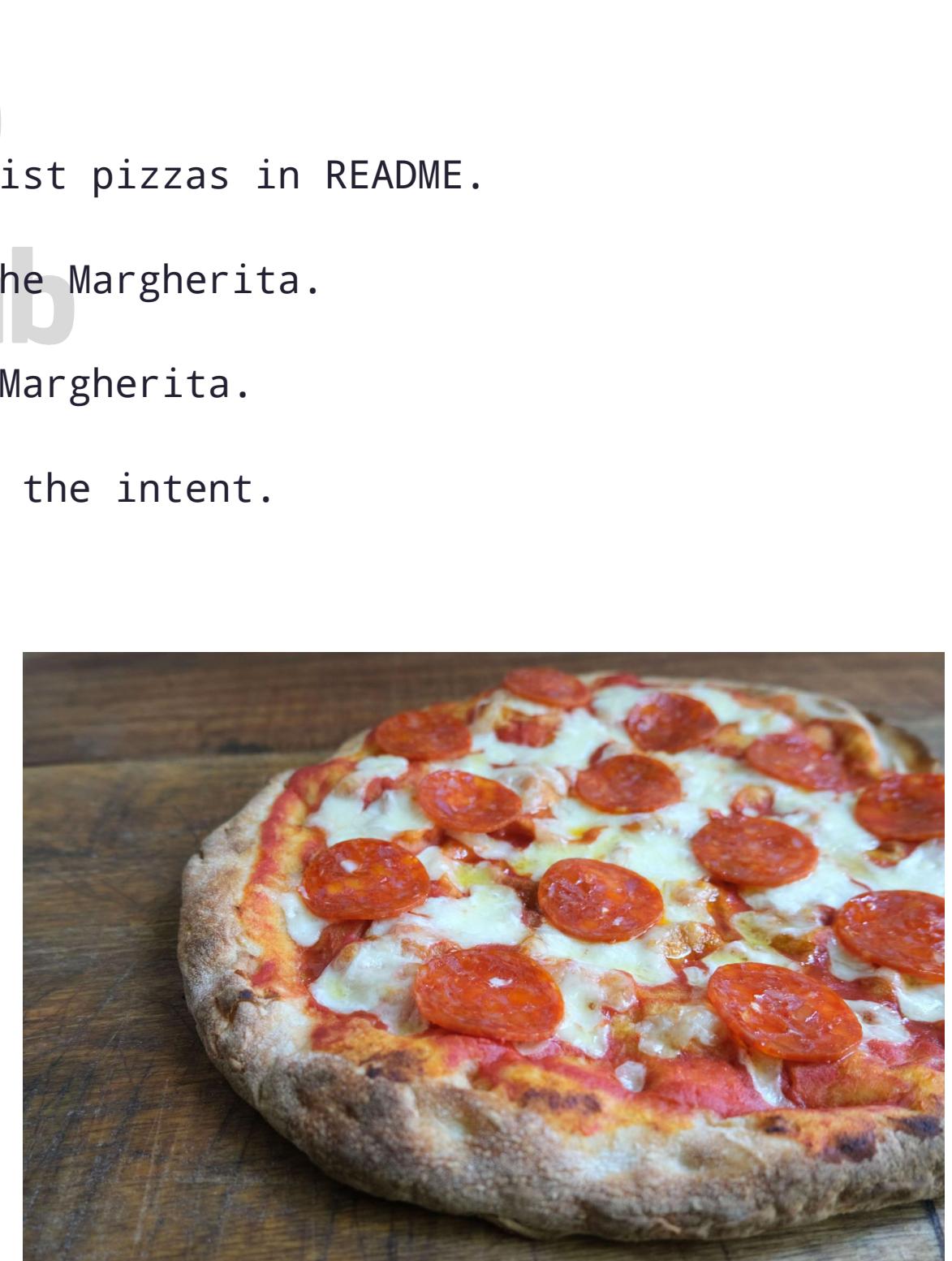
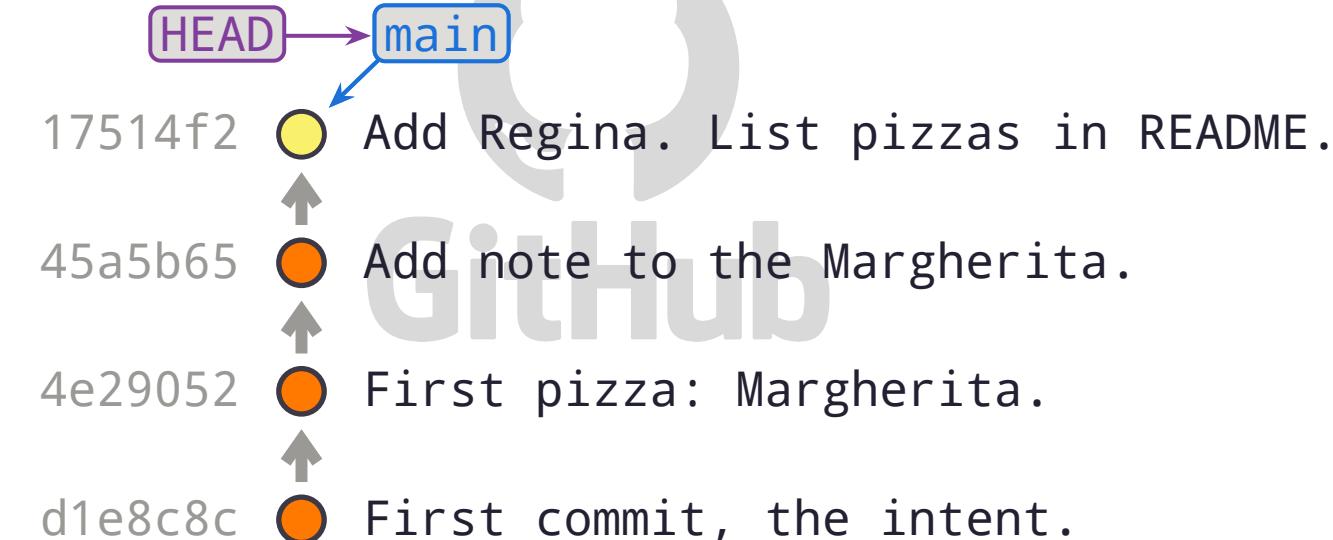


Share Your Project

Creating a Remote Repository



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

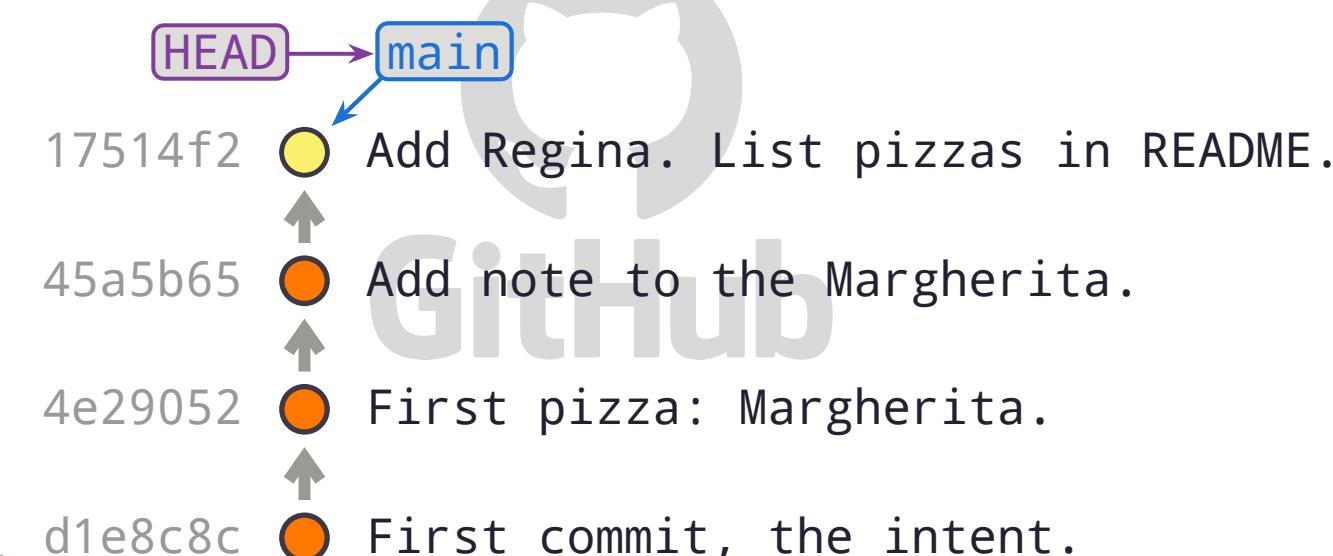


Share Your Project

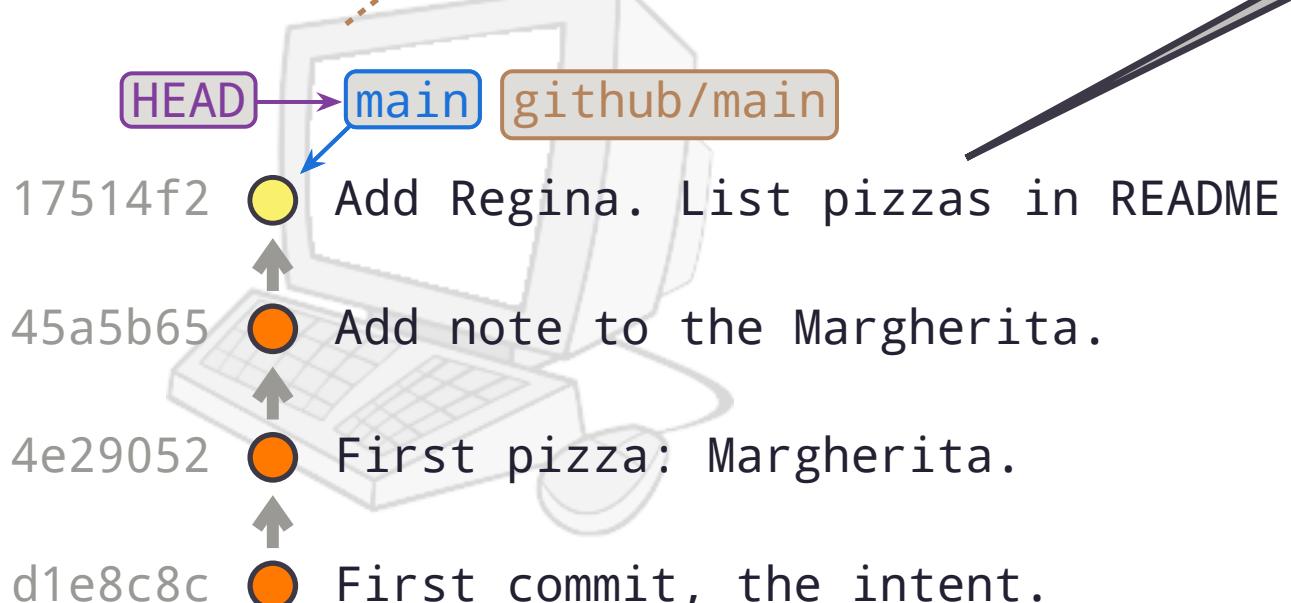
Creating a Remote Repository



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



\$ git commit

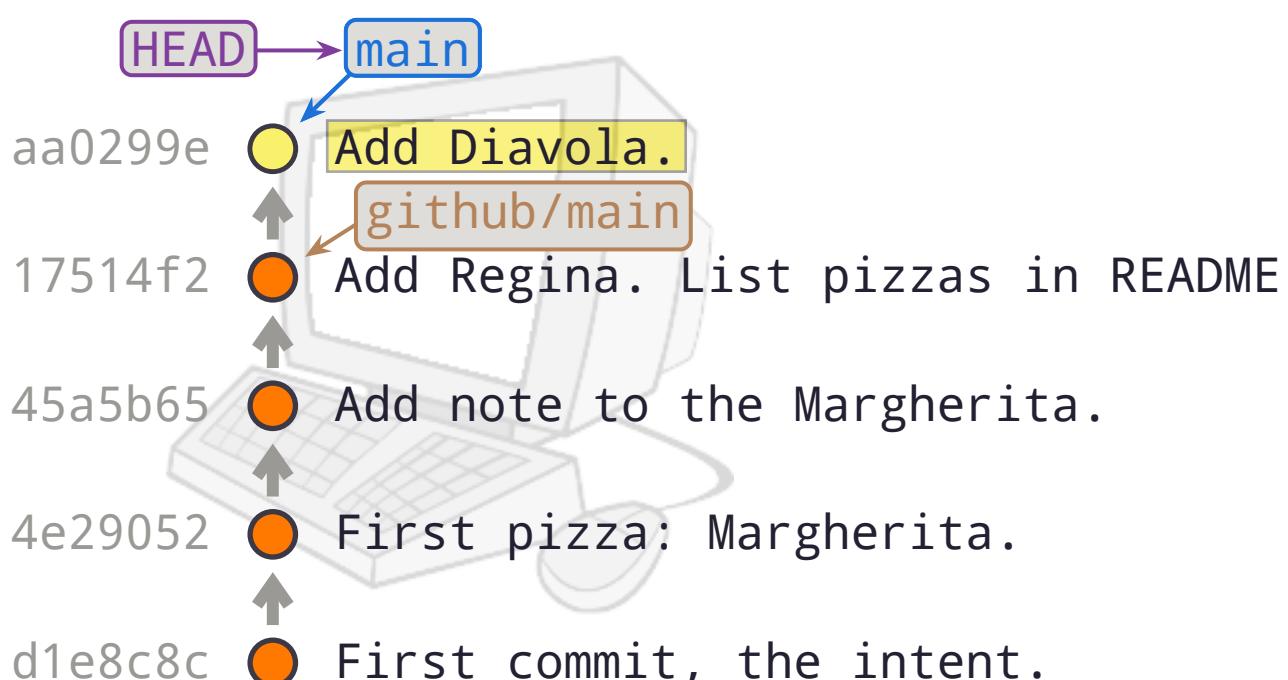
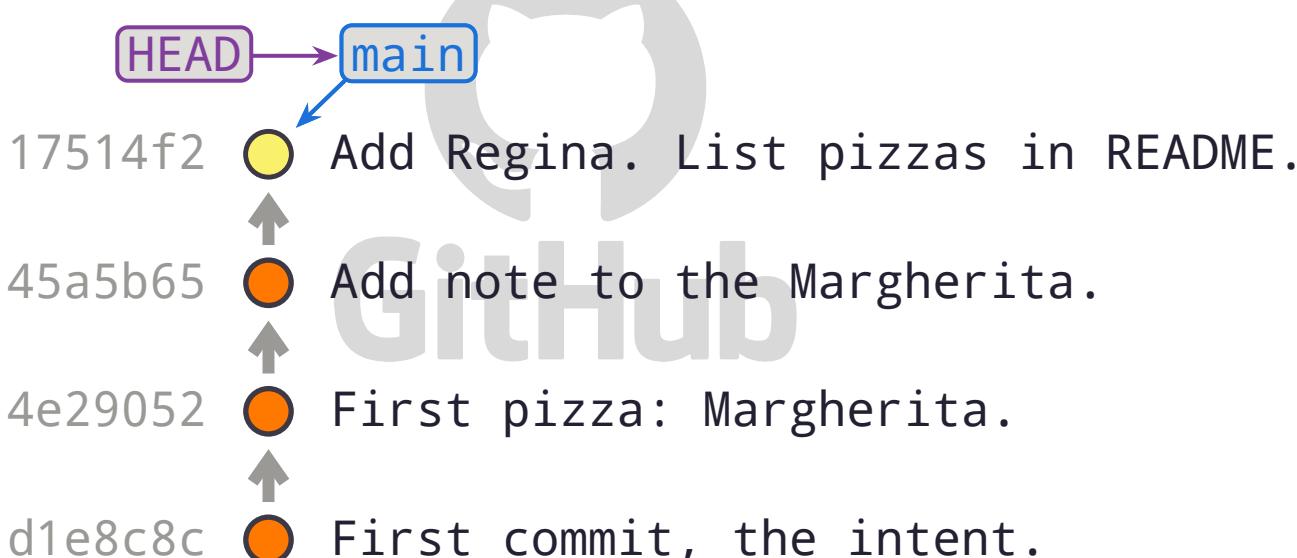


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<https://github.com/MyAccount/Pizzas>



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aa0299e Add Diavola.

17514f2 Add Regina. List pizzas in README.

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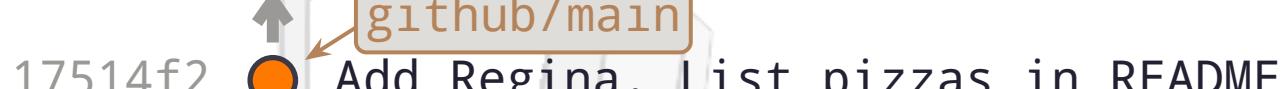
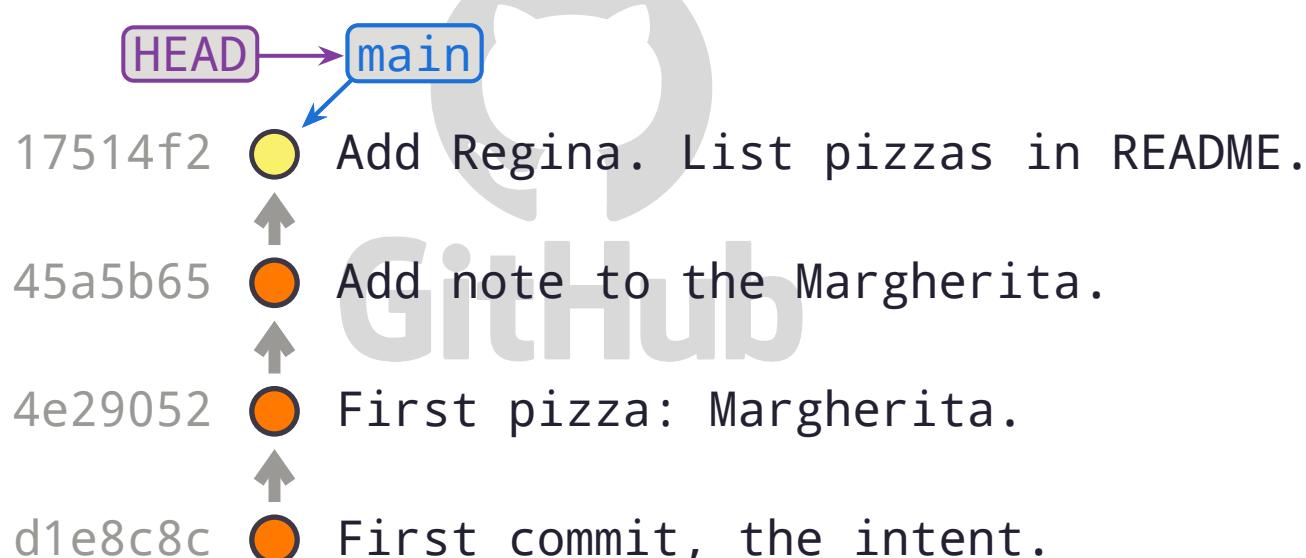
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Share Your Project

Creating a Remote Repository

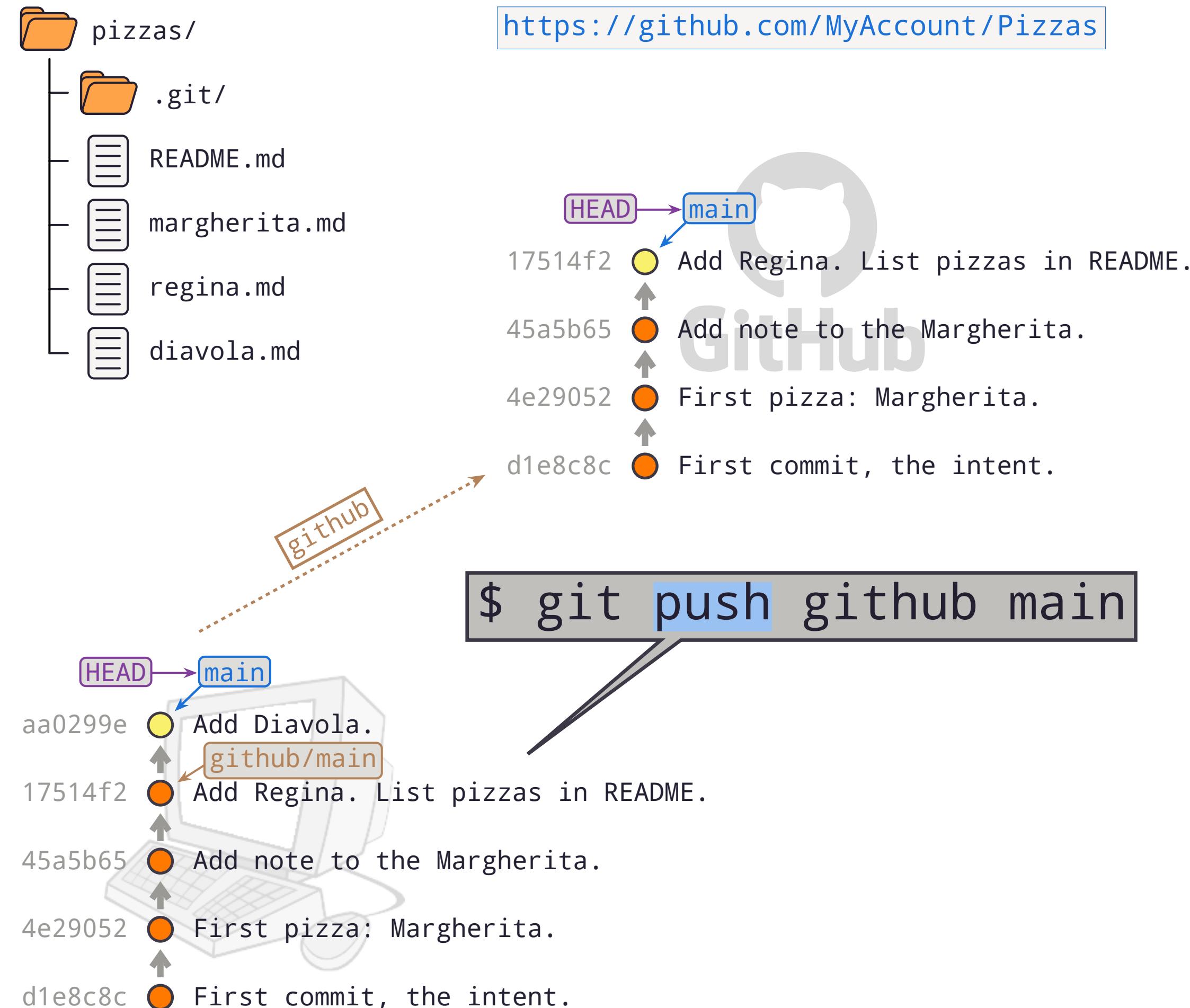


<https://github.com/MyAccount/Pizzas>



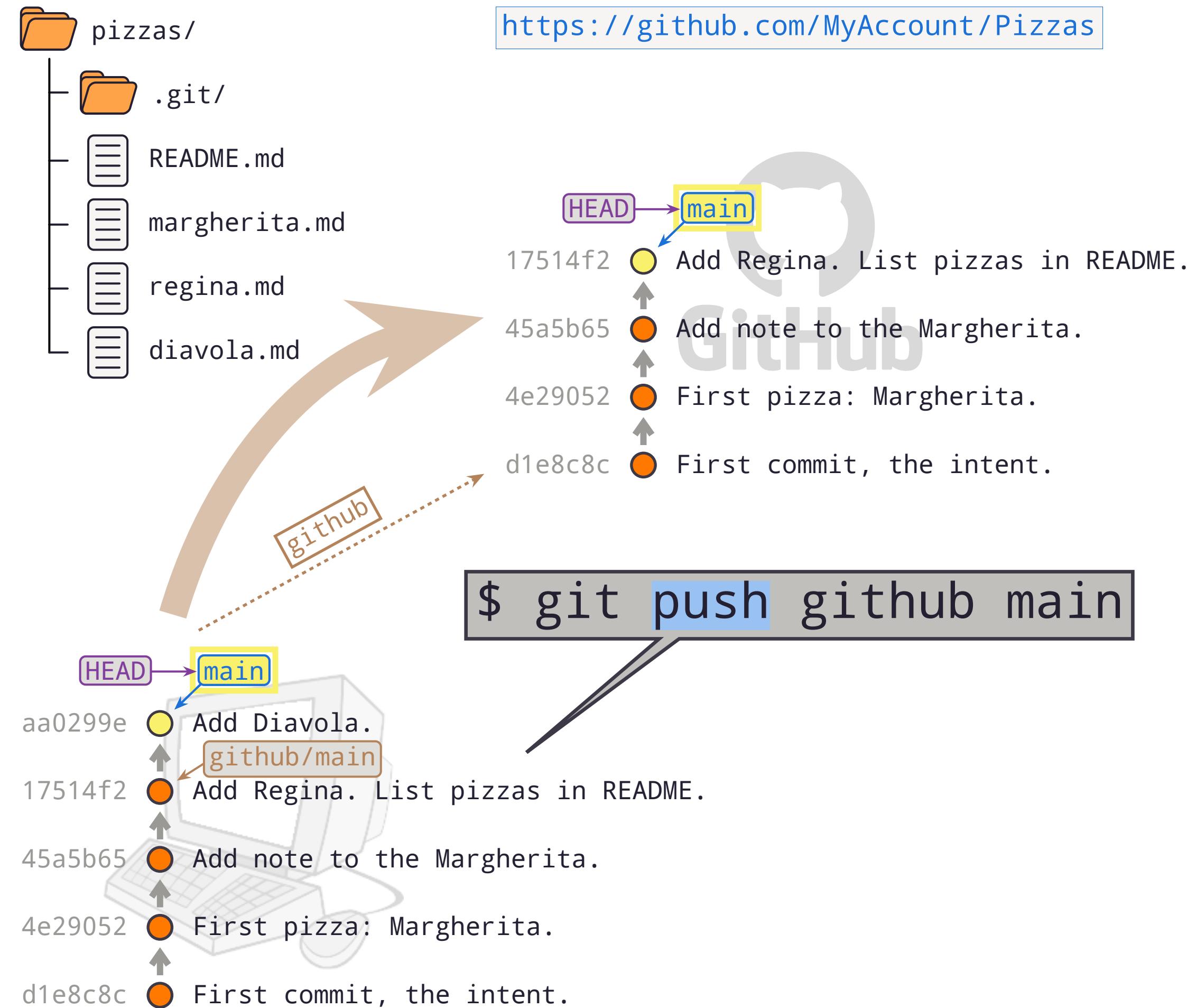
Share Your Project

Creating a Remote Repository



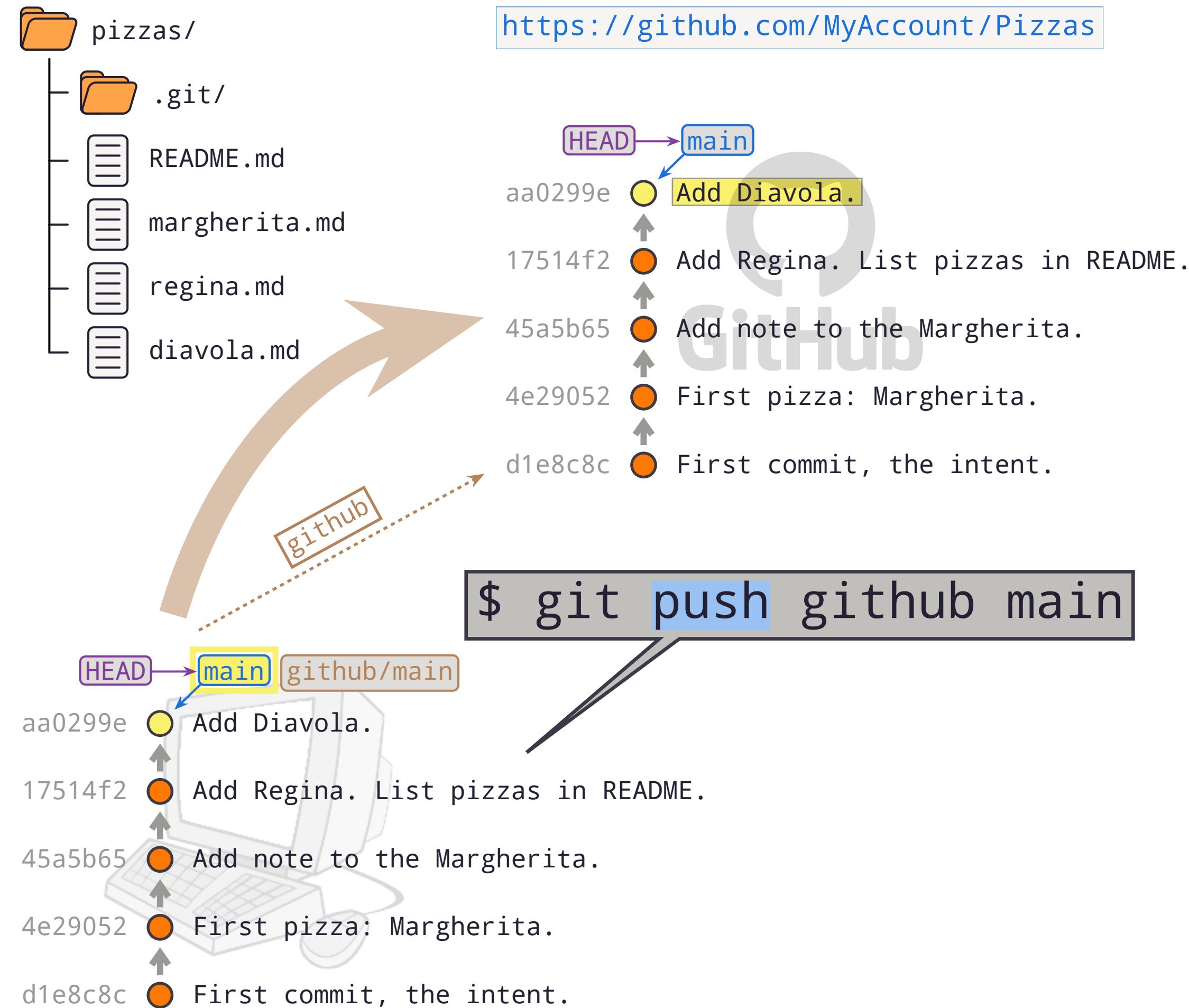
Share Your Project

Creating a Remote Repository



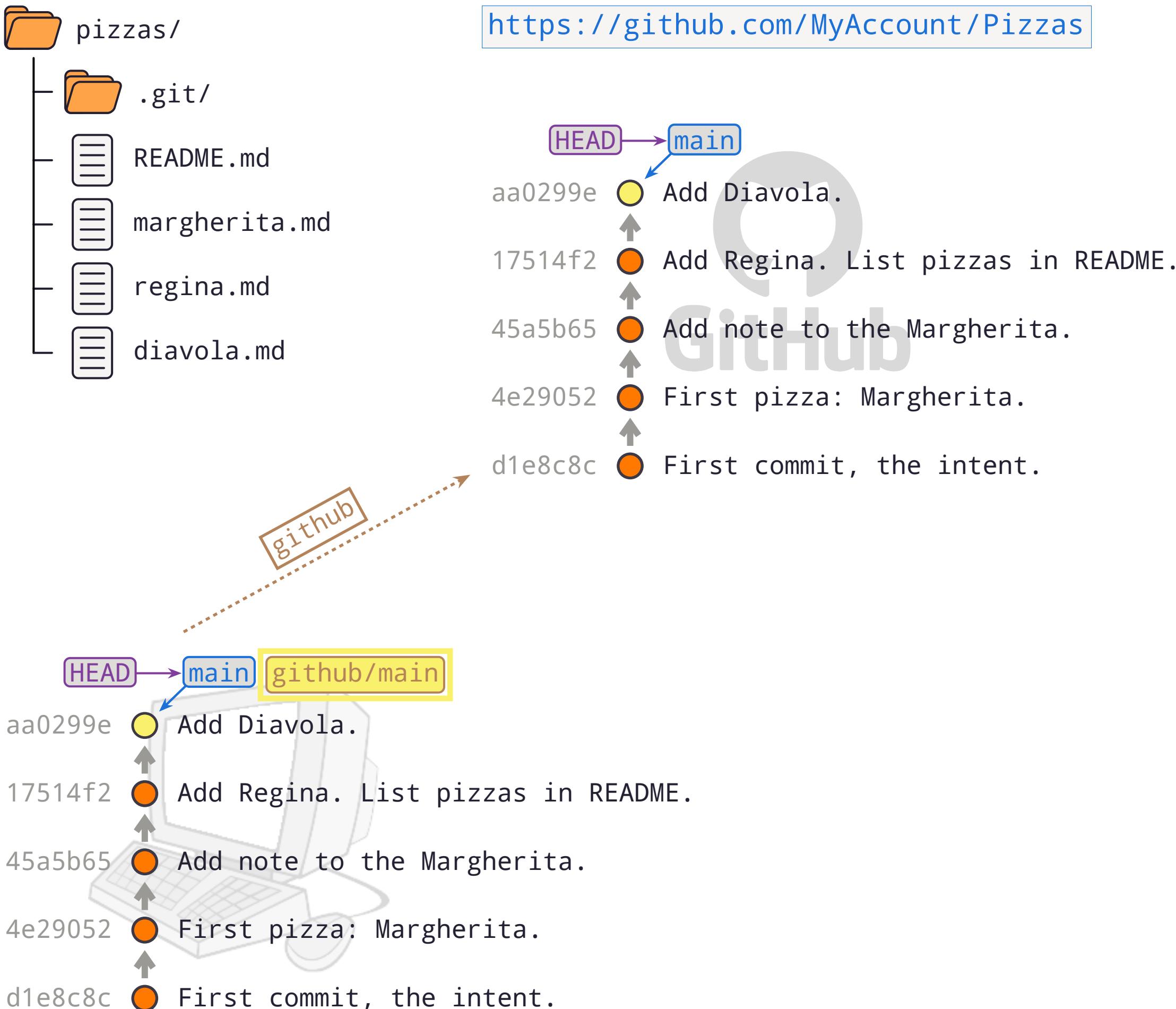
Share Your Project

Creating a Remote Repository



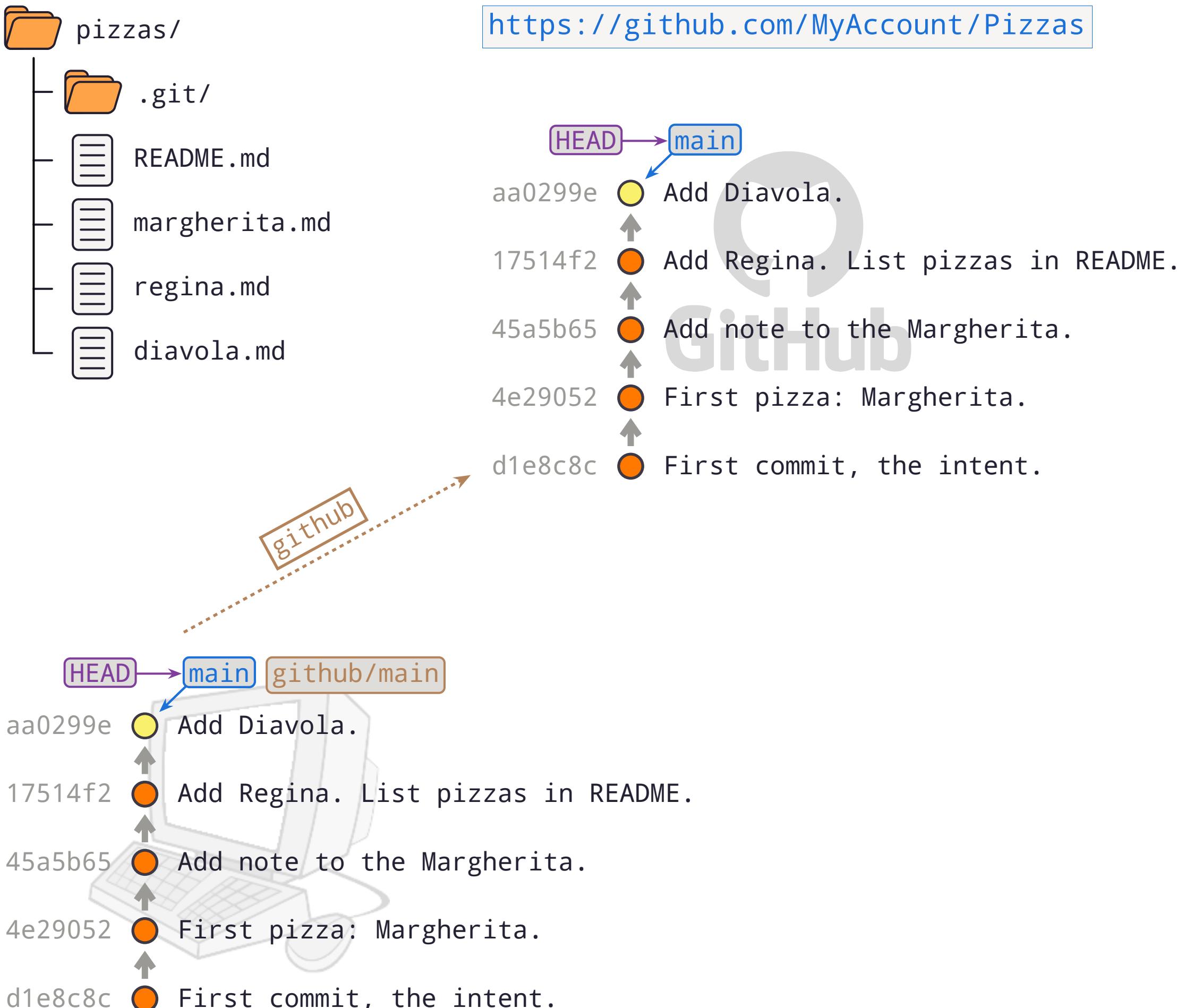
Share Your Project

Creating a Remote Repository



Share Your Project

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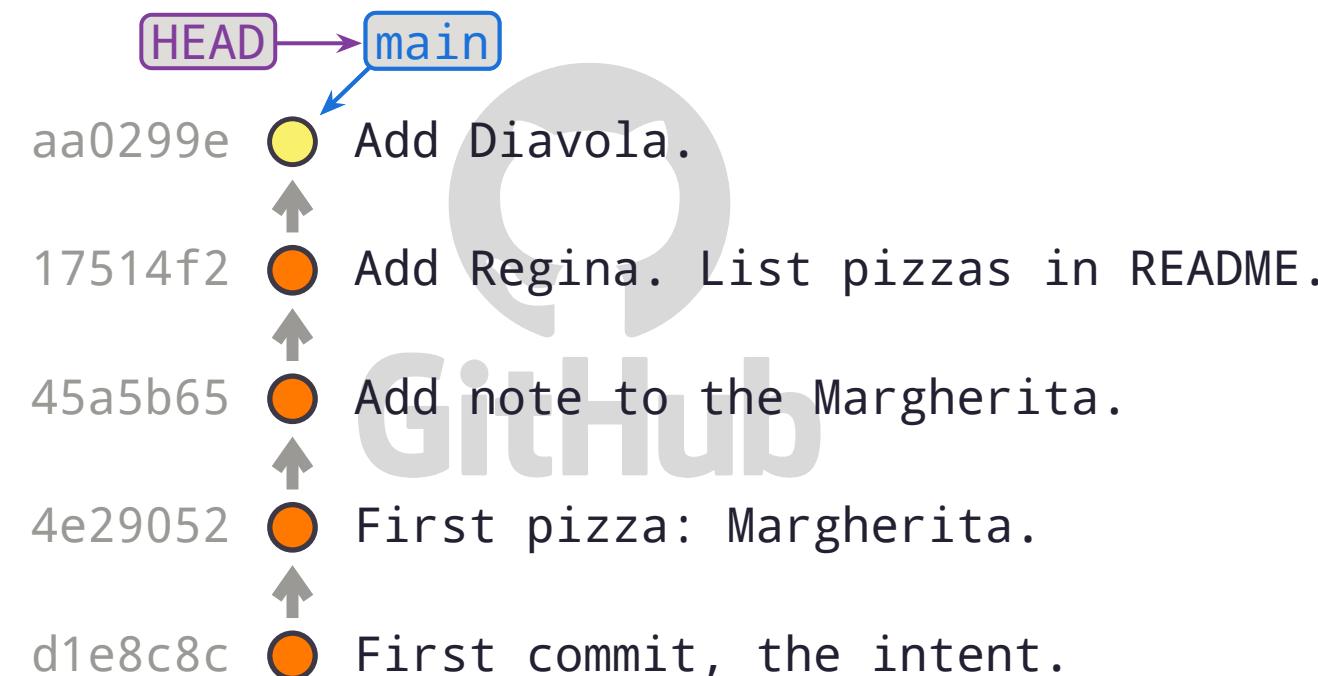
Collaborate

Collaborate

You're not Alone.



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

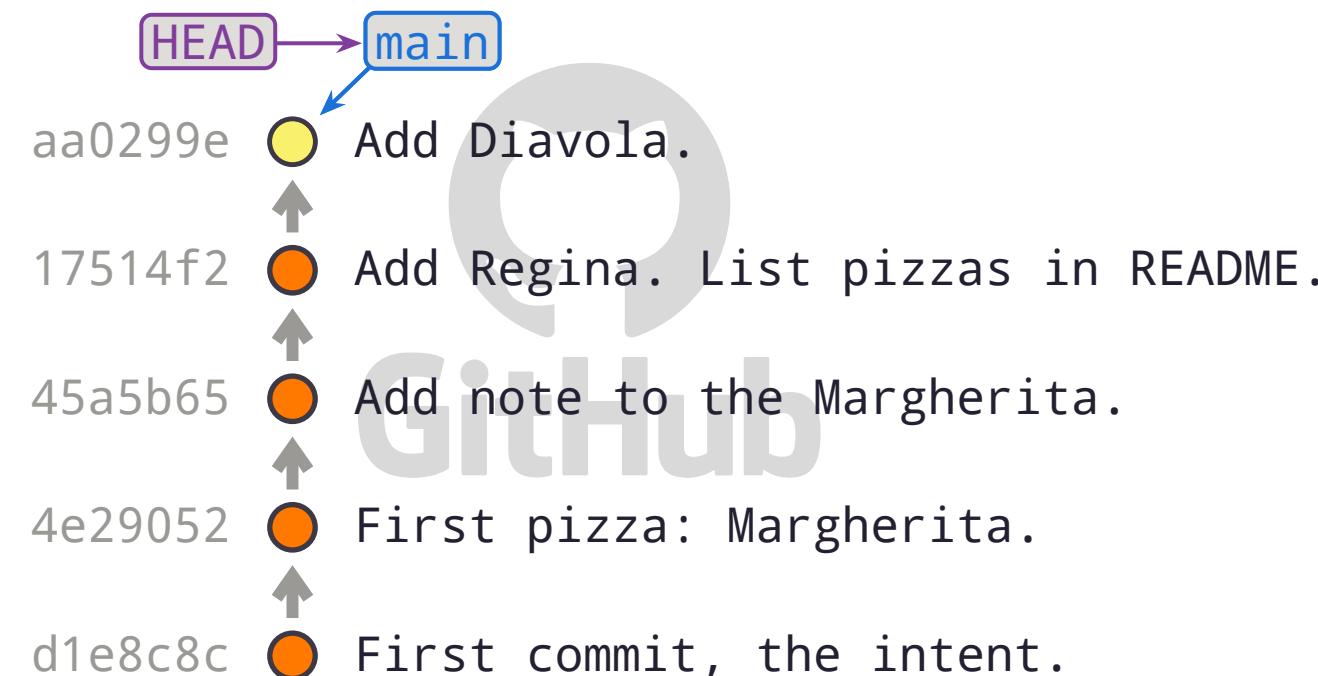


Collaborate

You're not Alone.



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



\$ git clone <url>

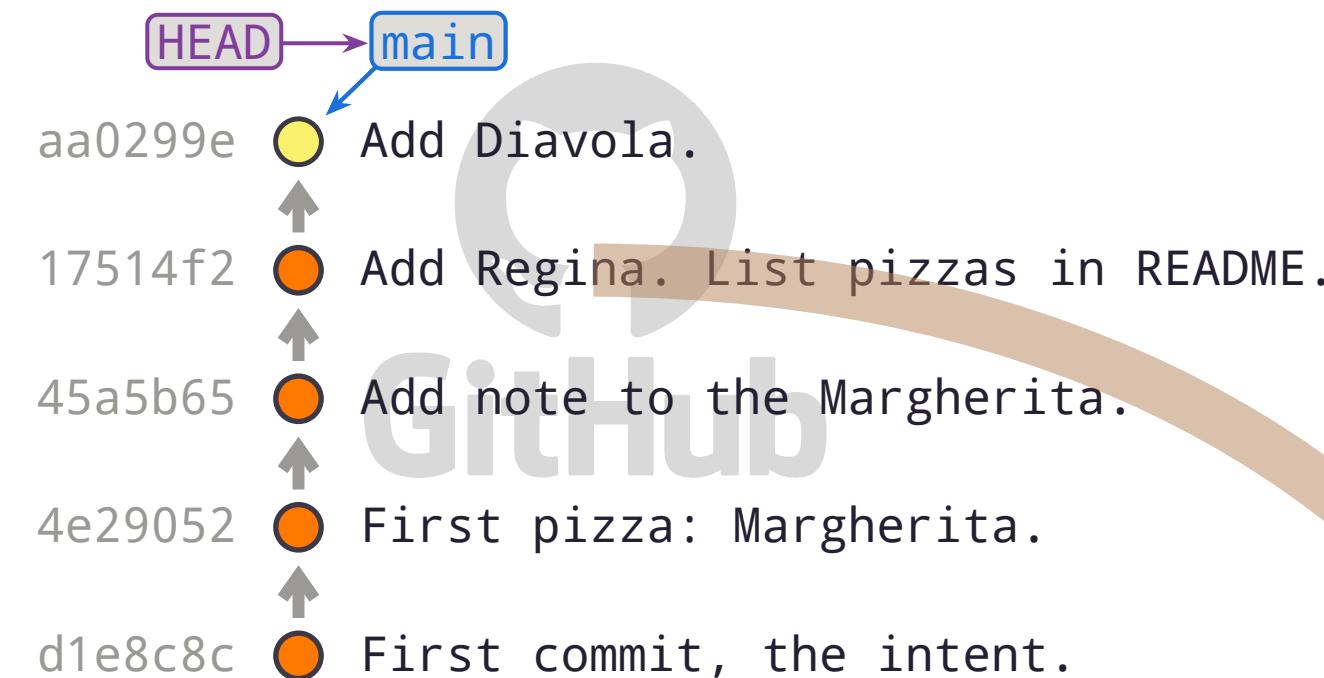


Collaborate

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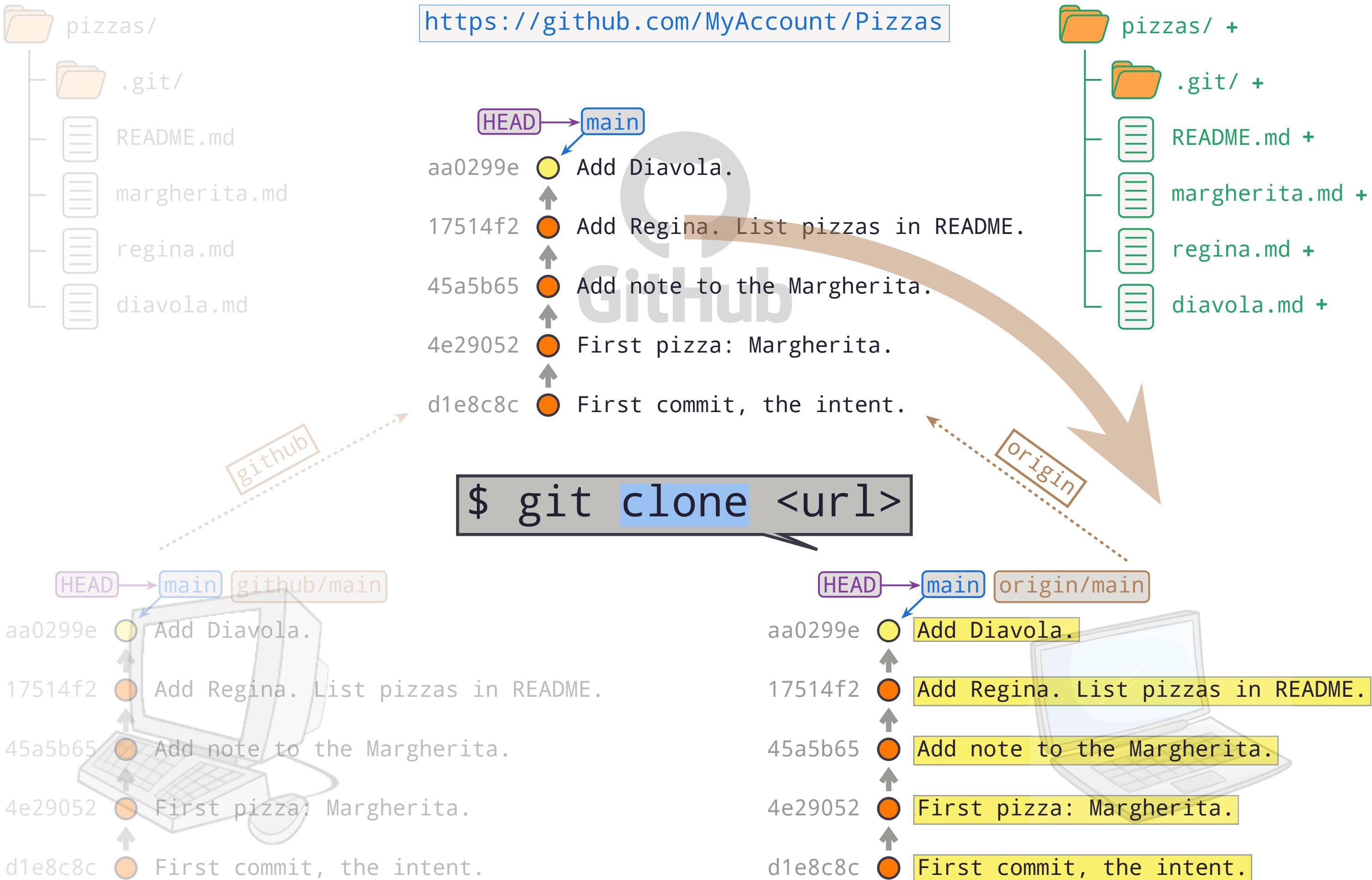


\$ git clone <url>



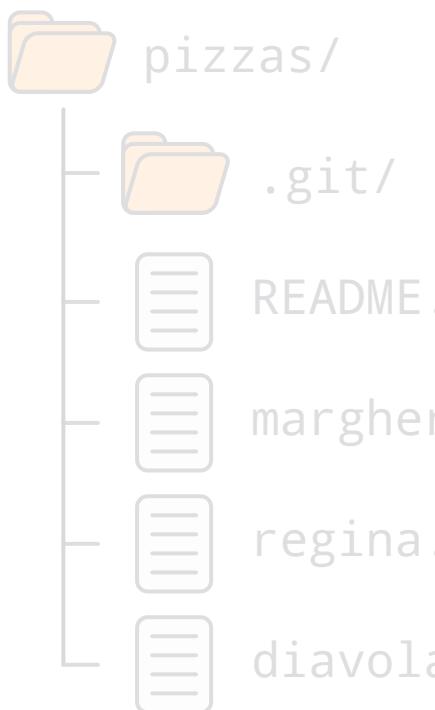
Collaborate

You're not Alone.

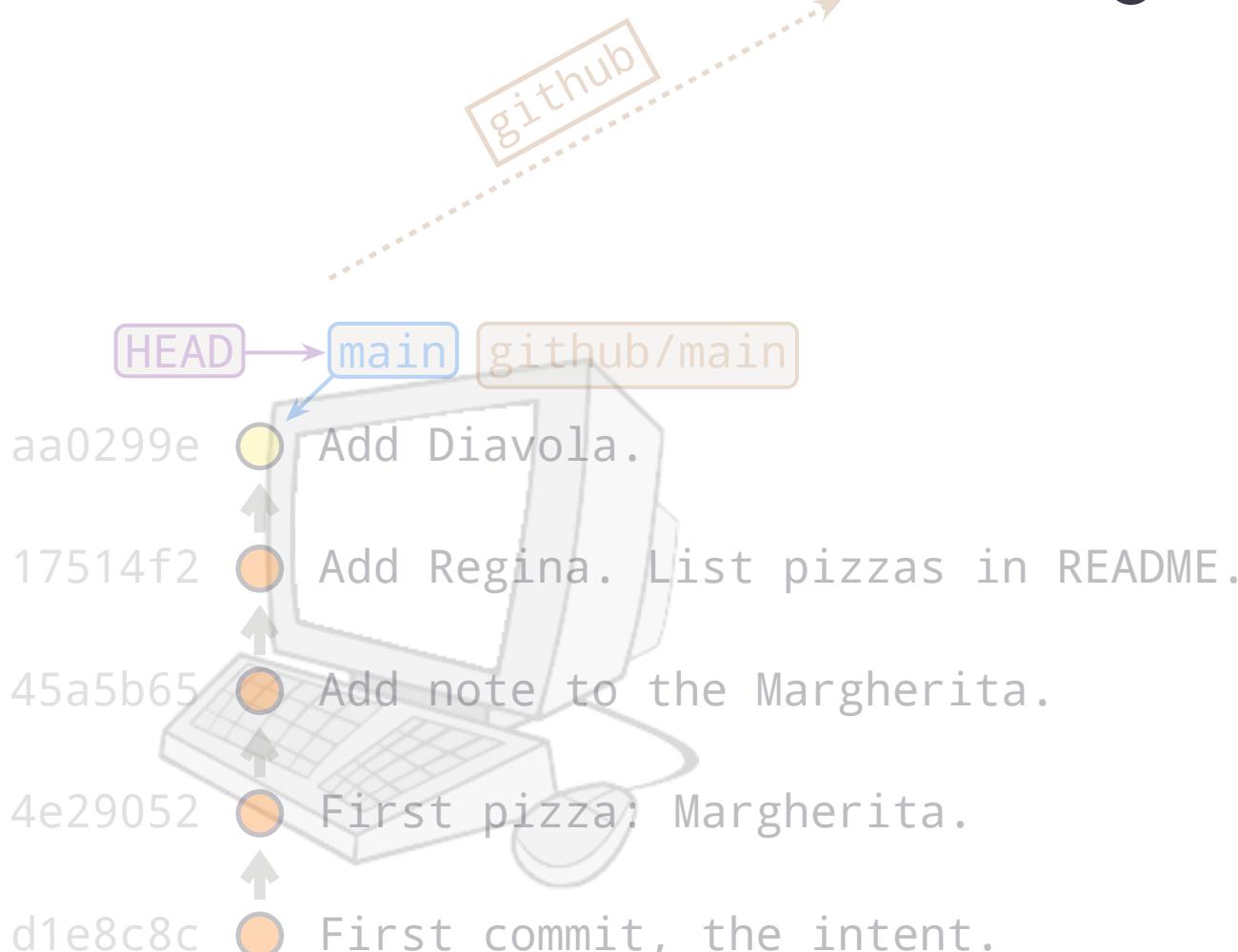
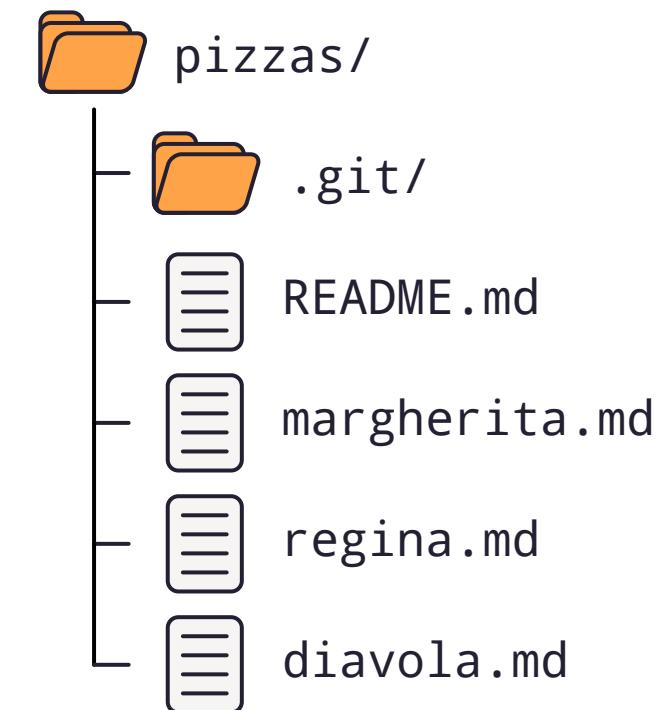
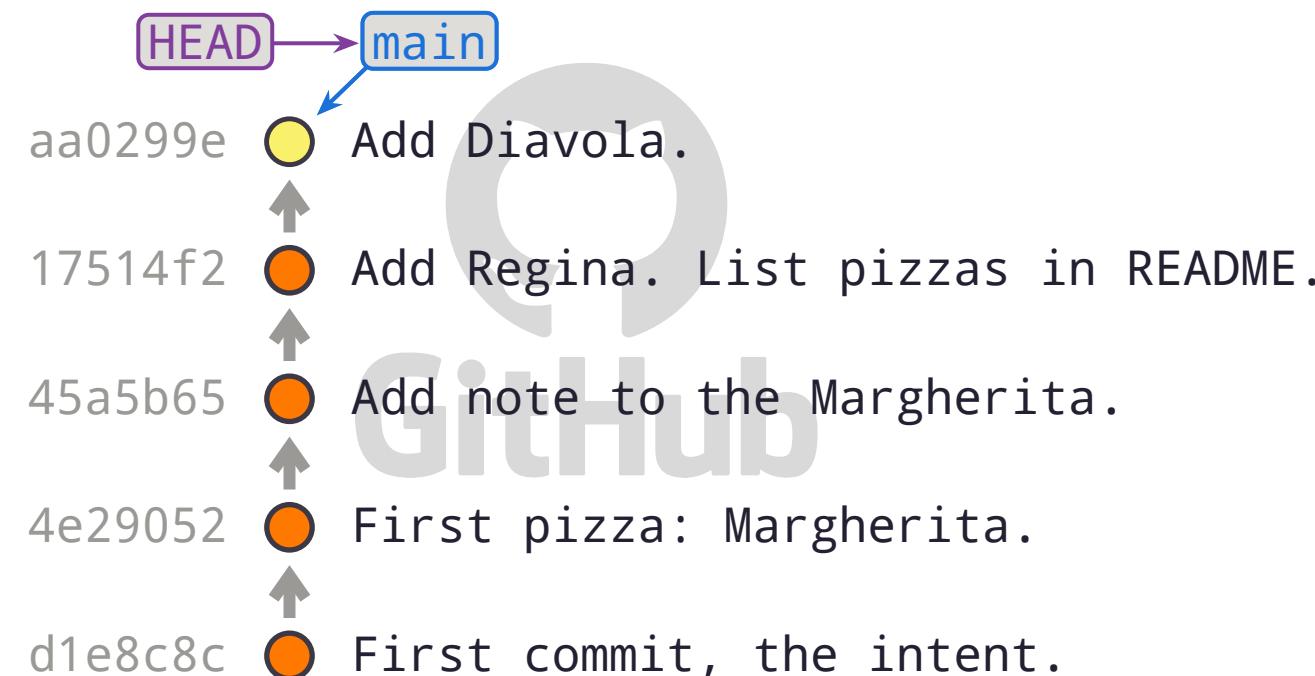


Collaborate

You're not Alone.

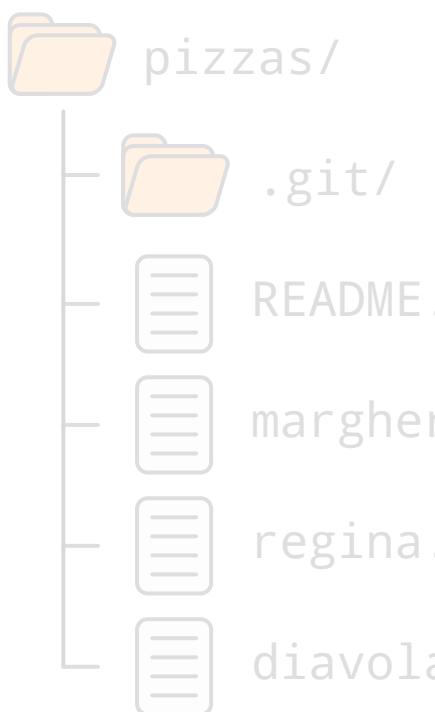


<https://github.com/MyAccount/Pizzas>

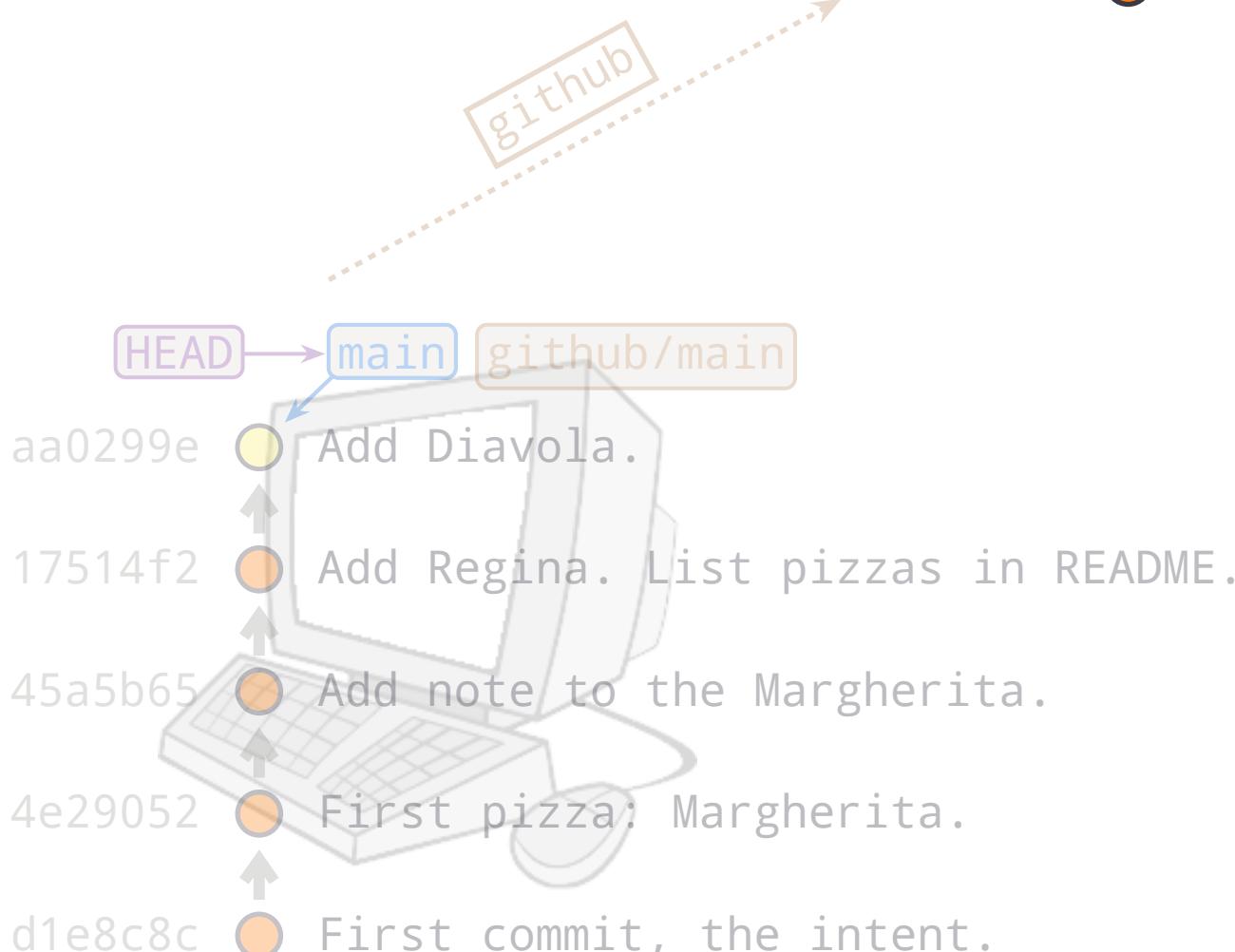
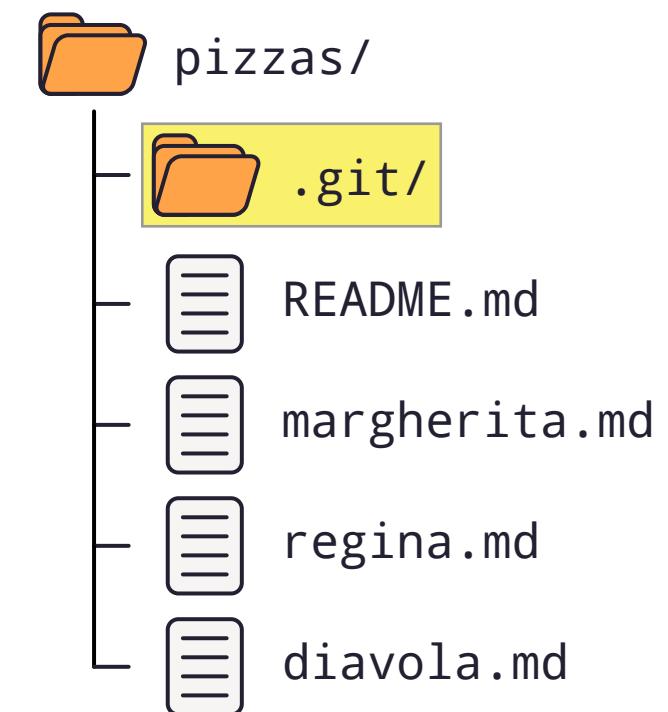
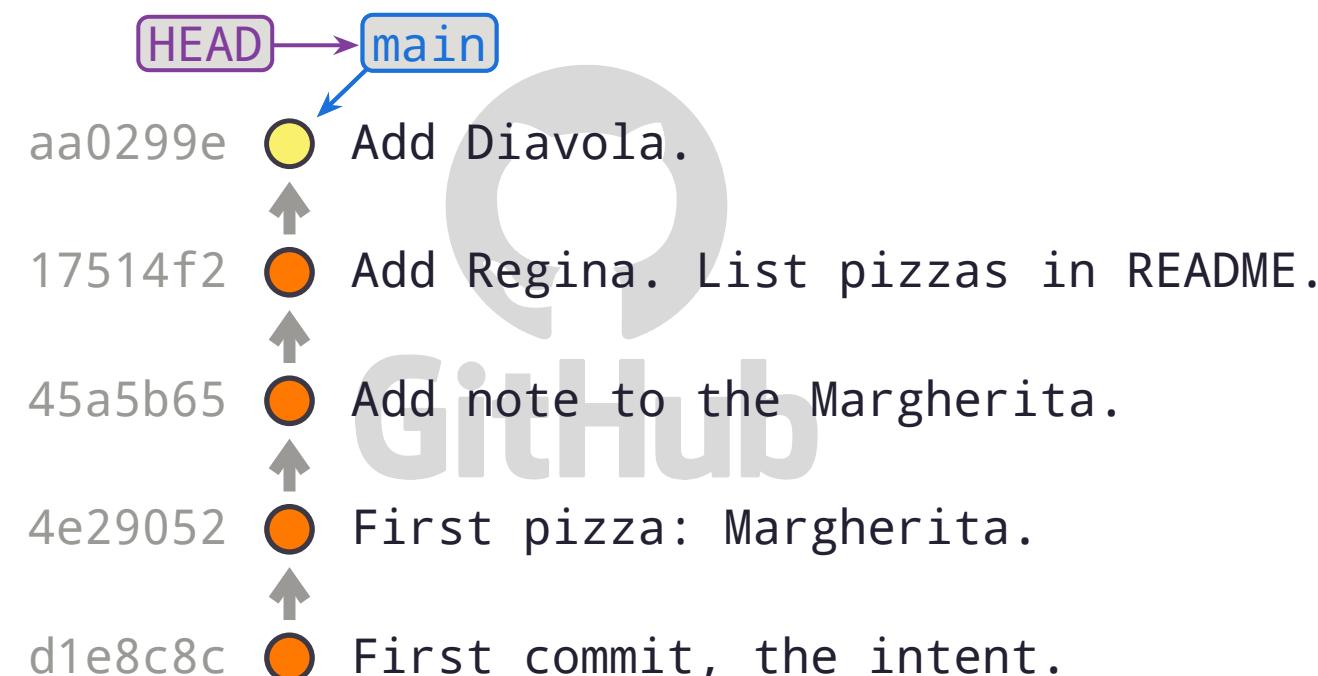


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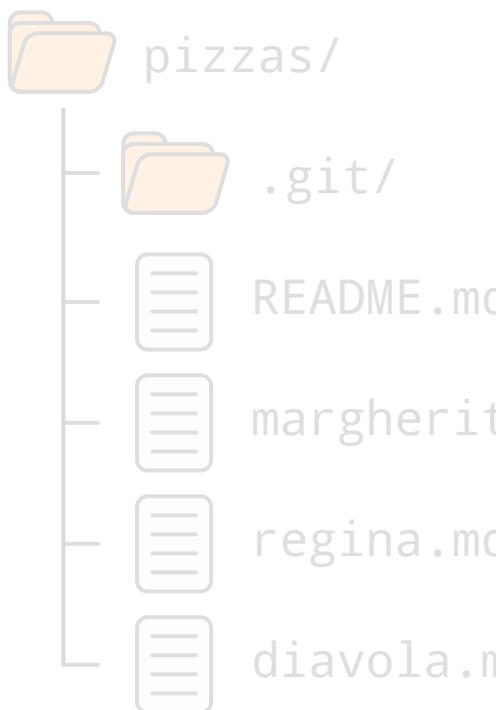


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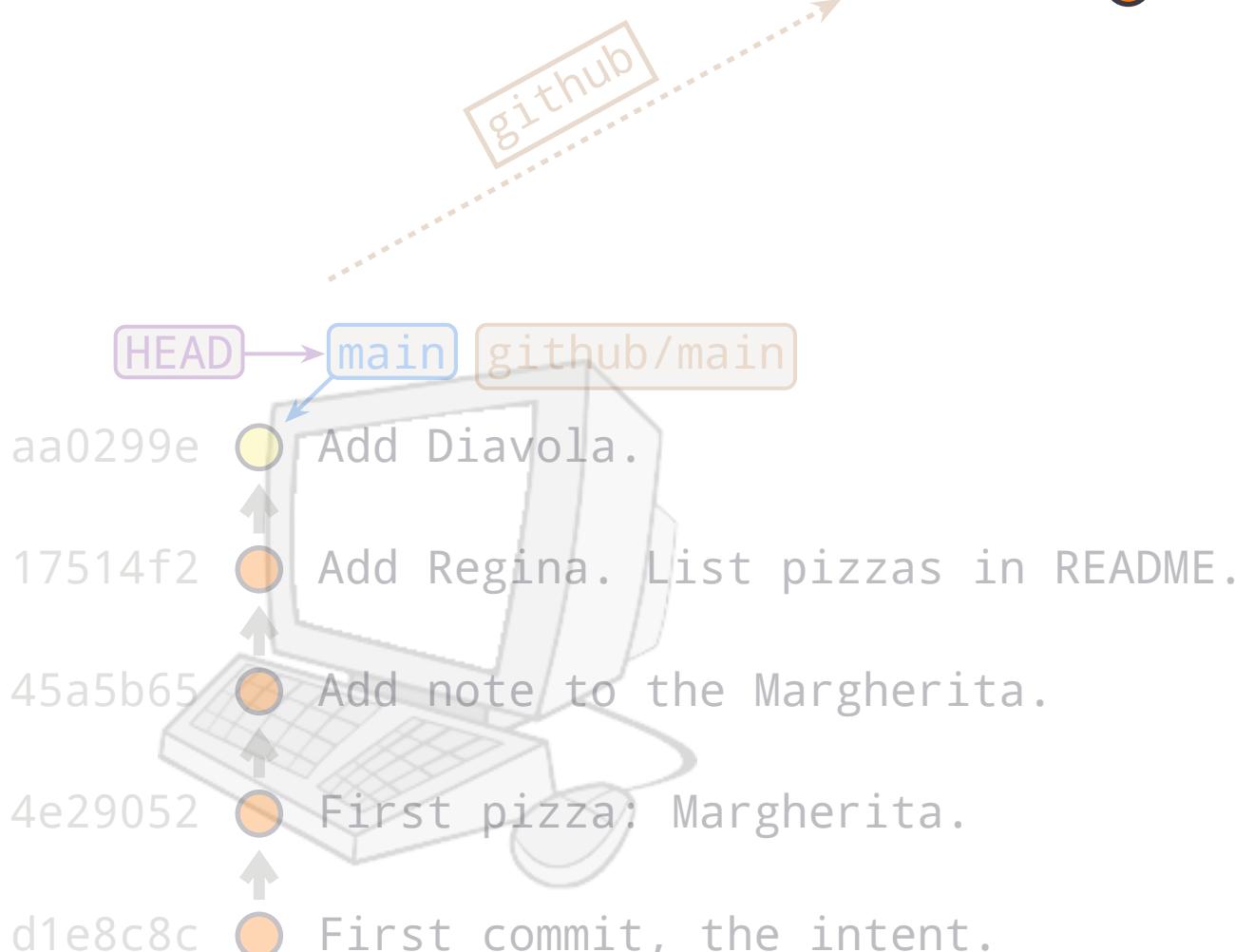
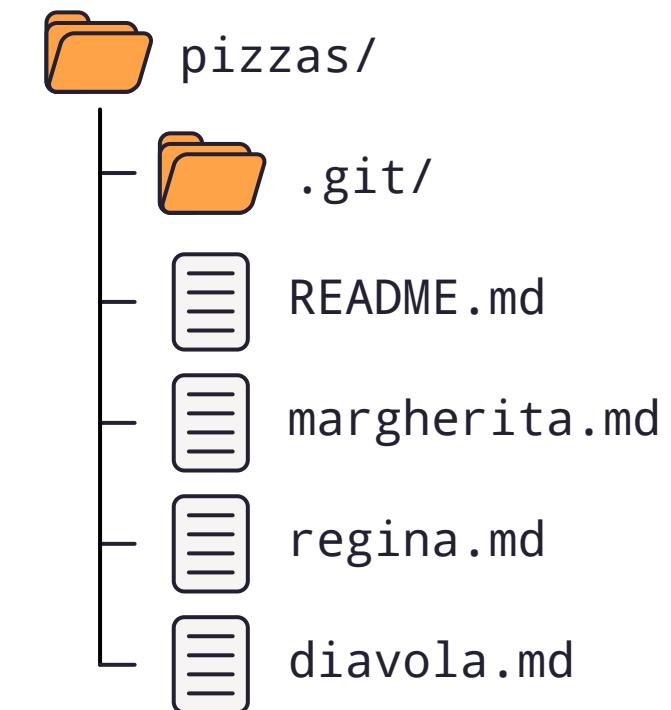
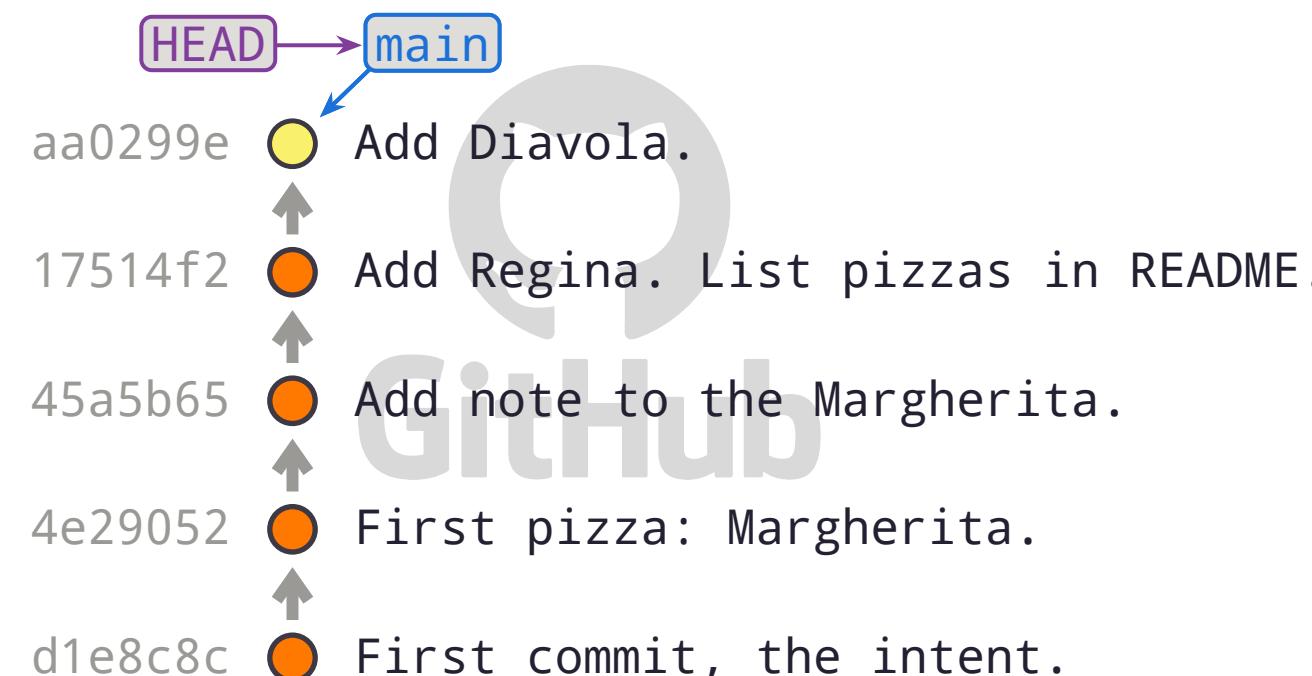


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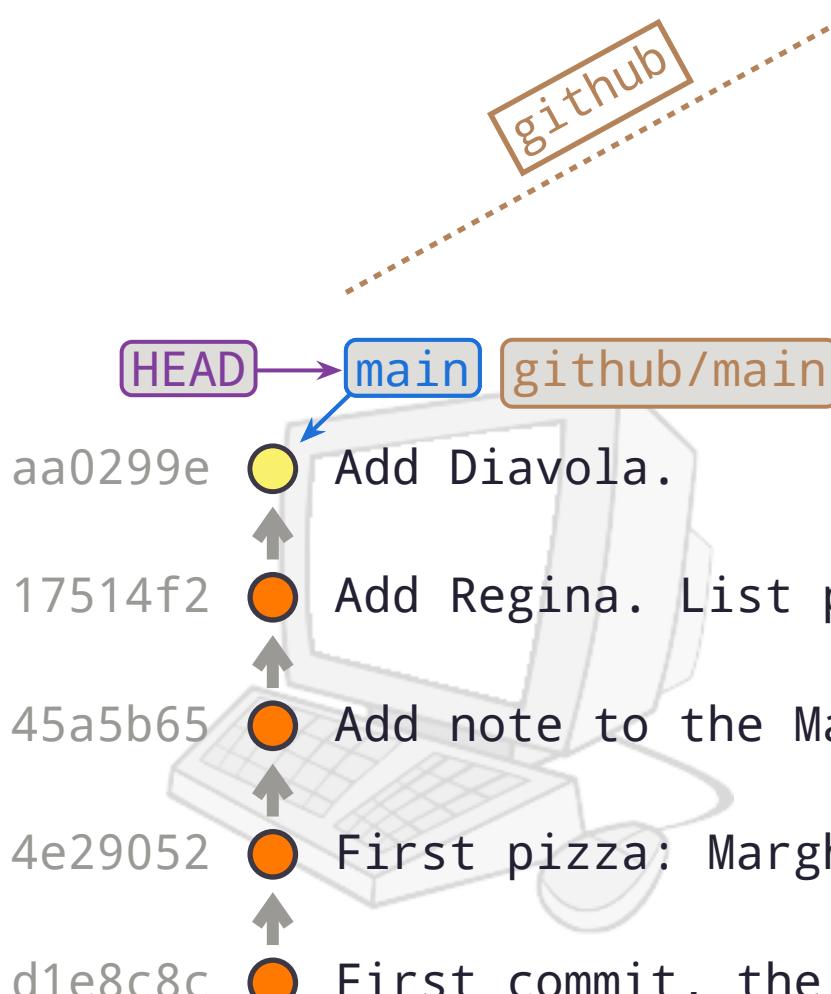
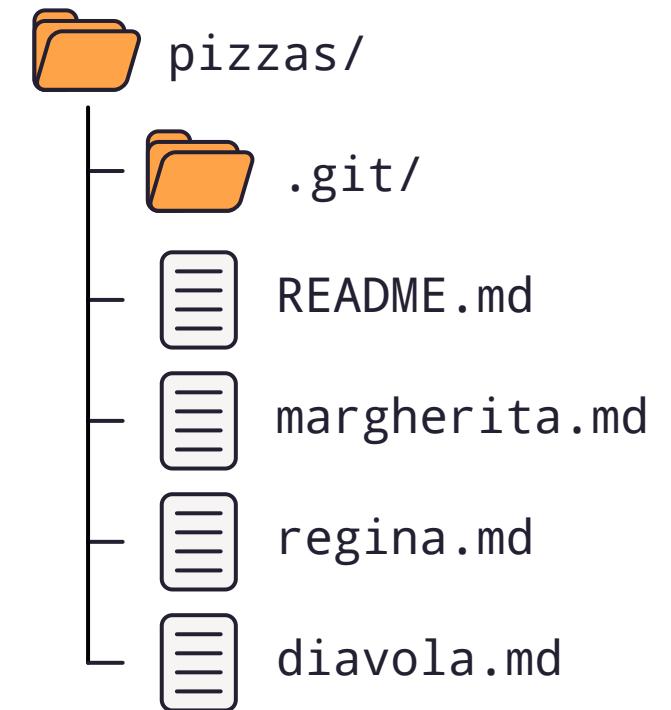
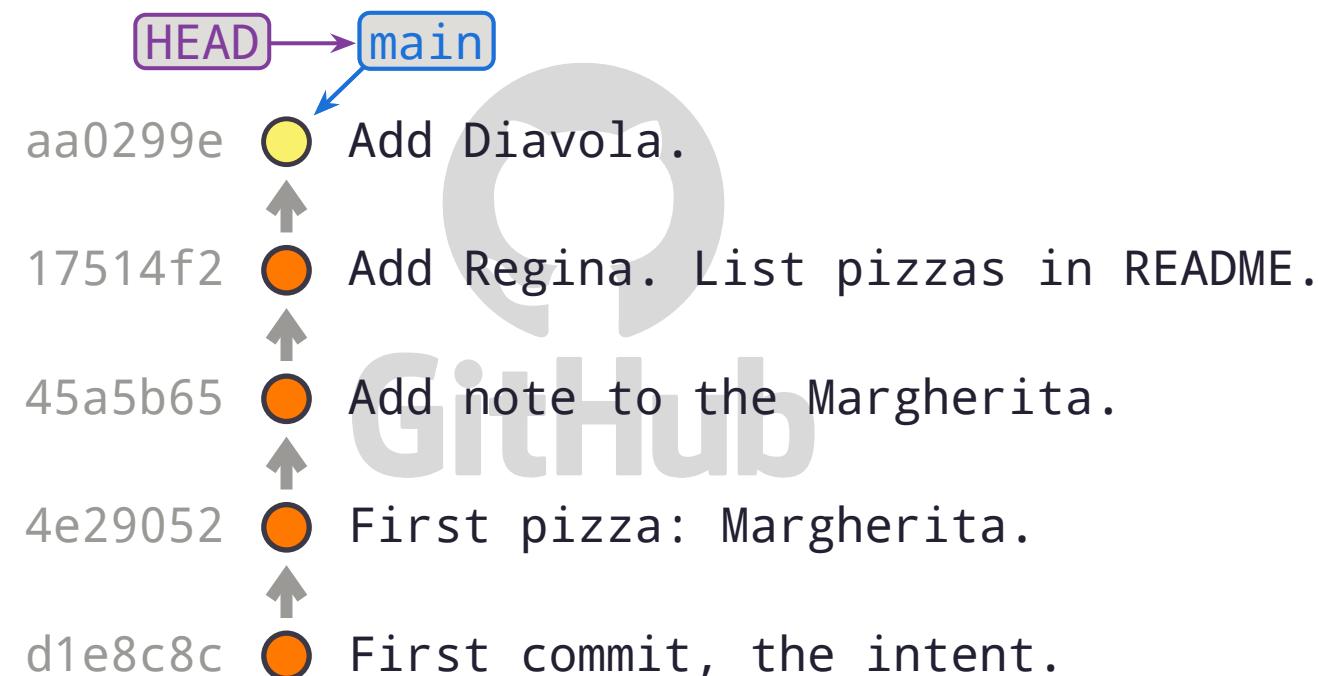


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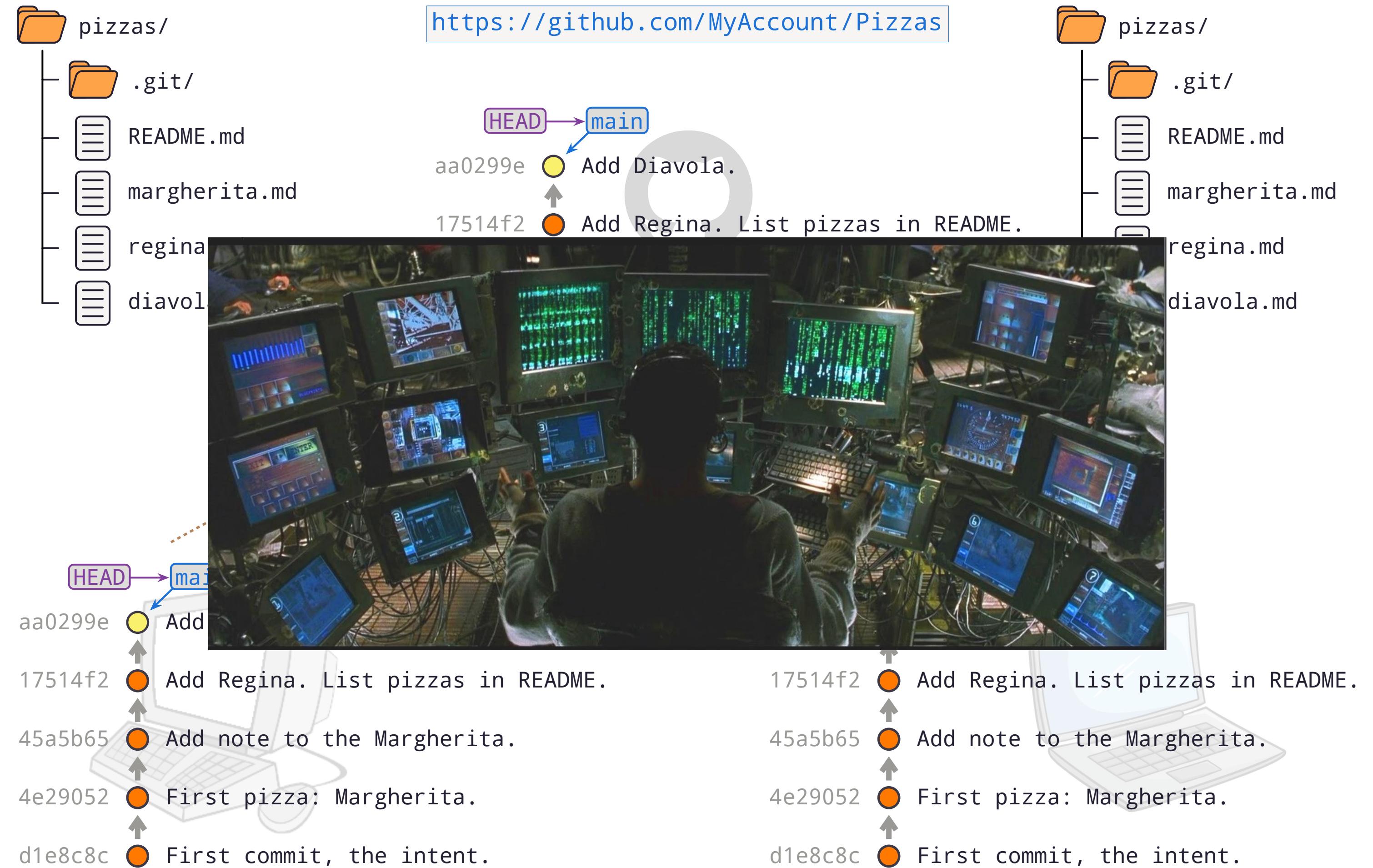


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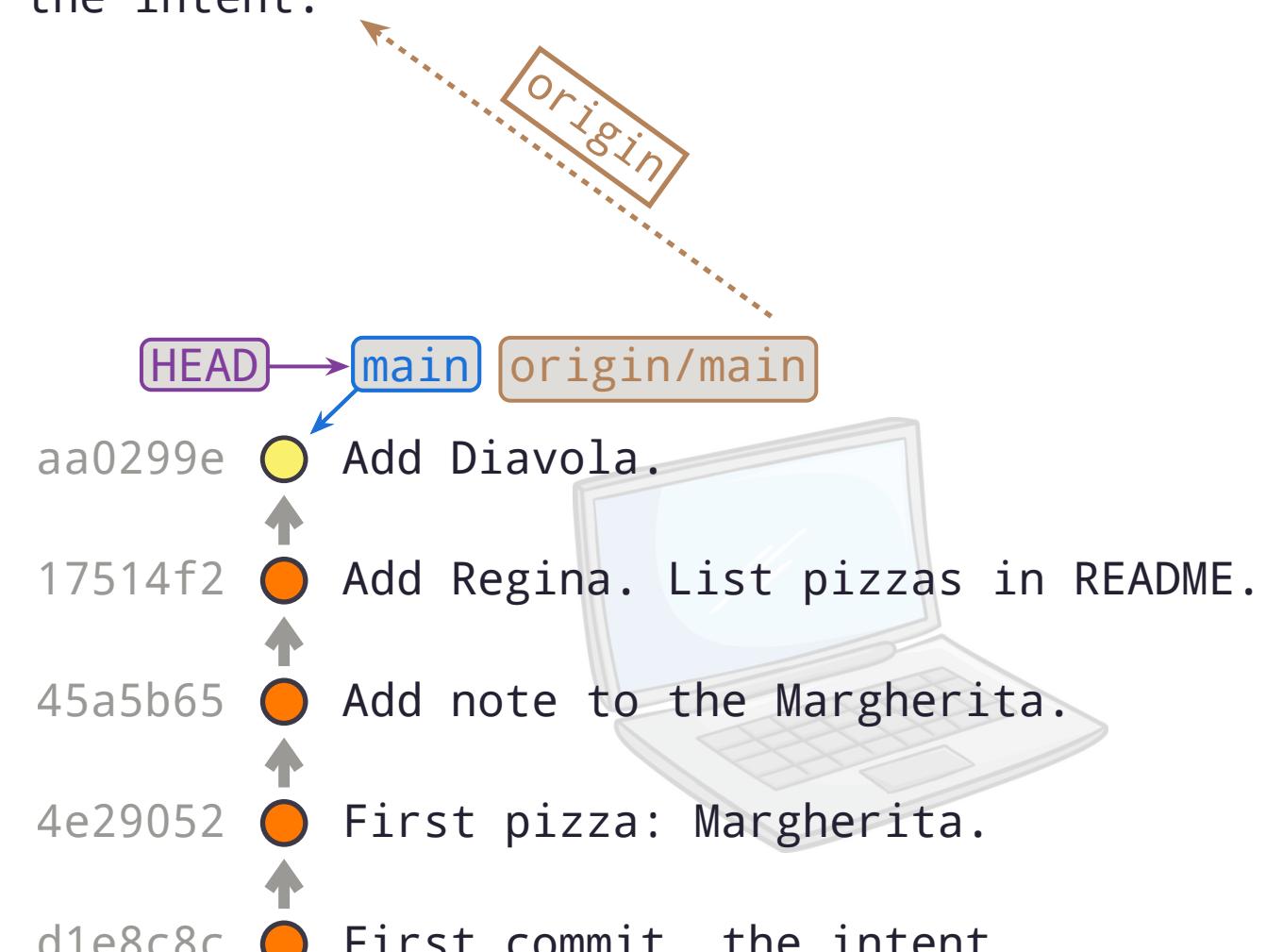
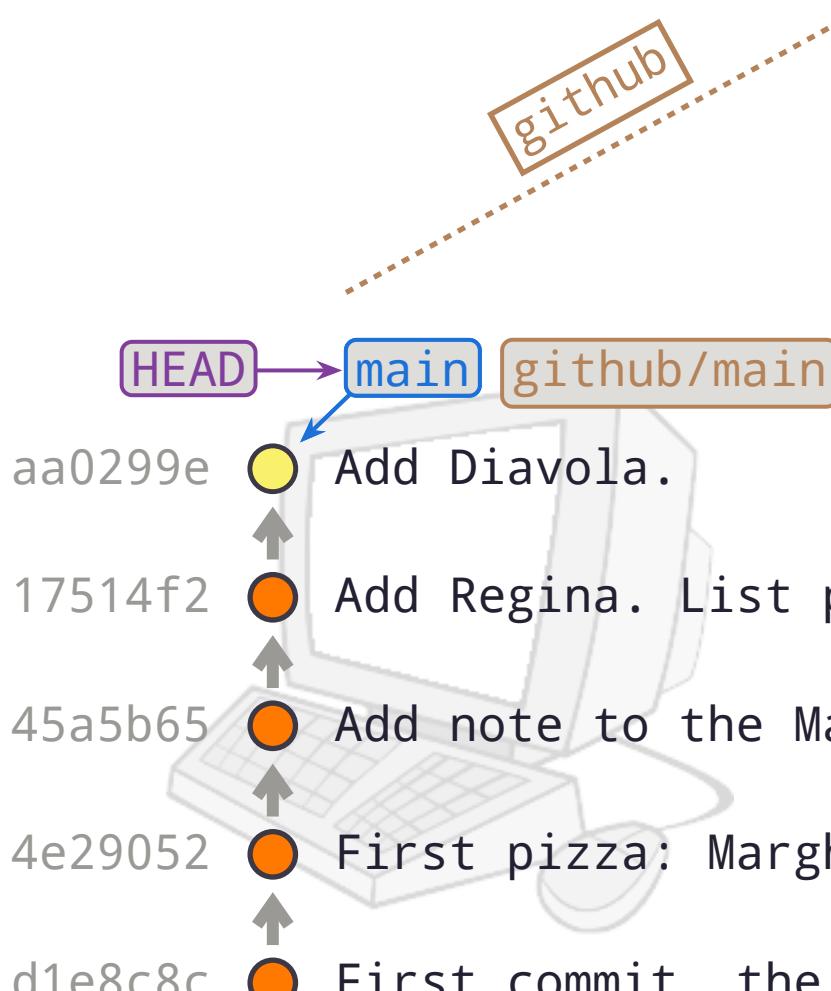
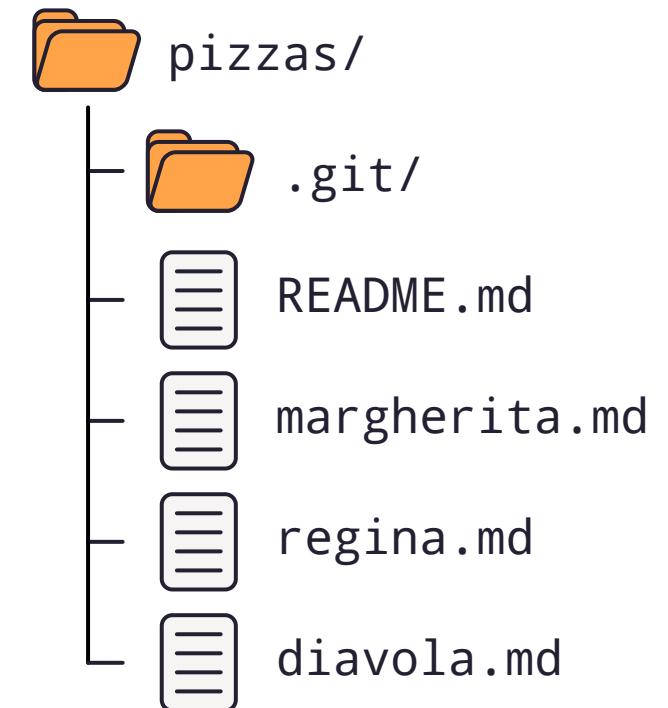
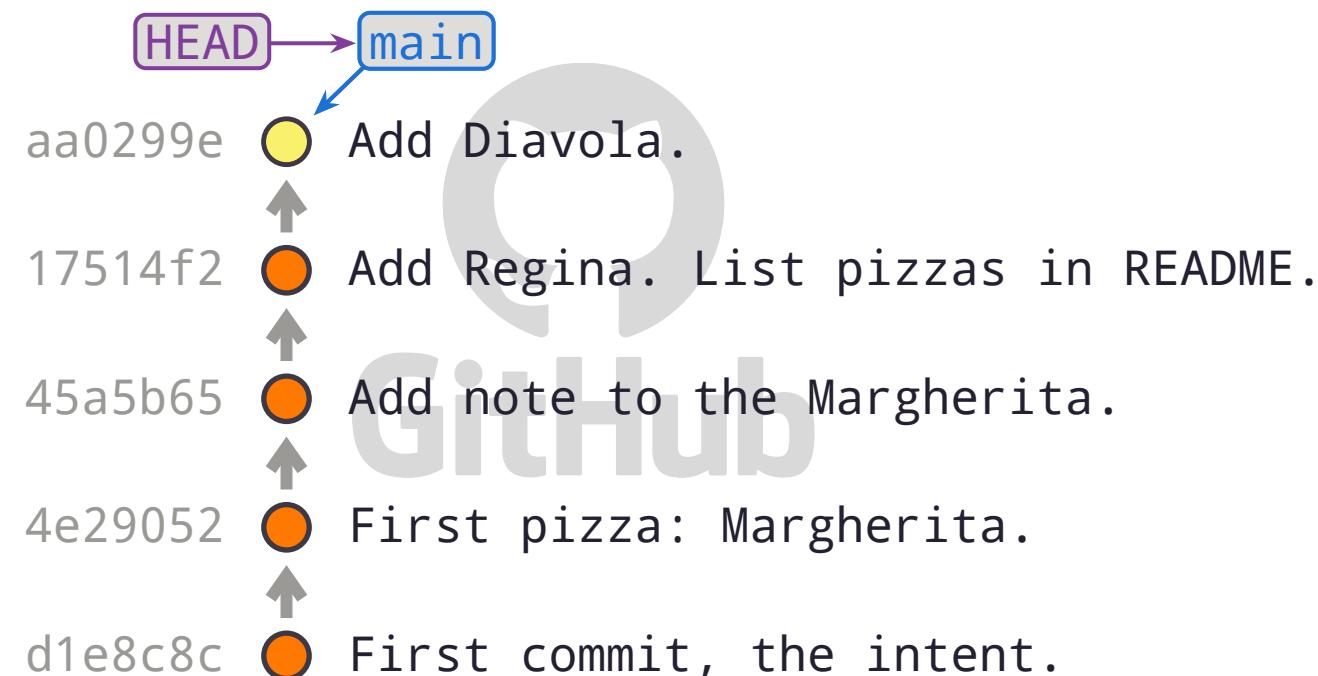


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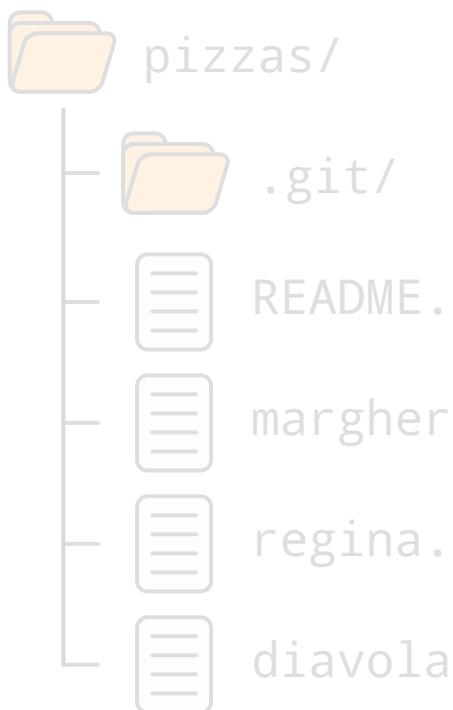


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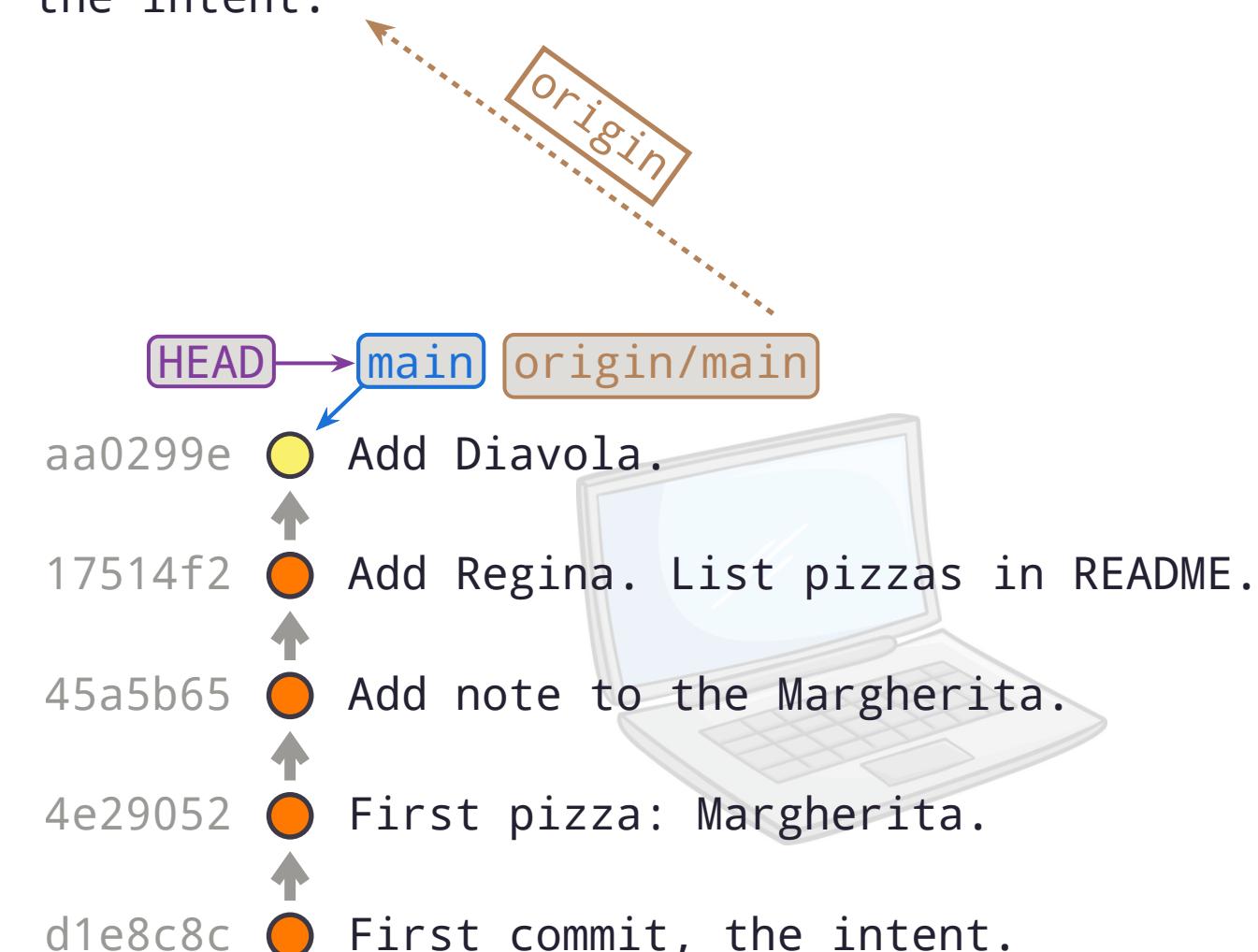
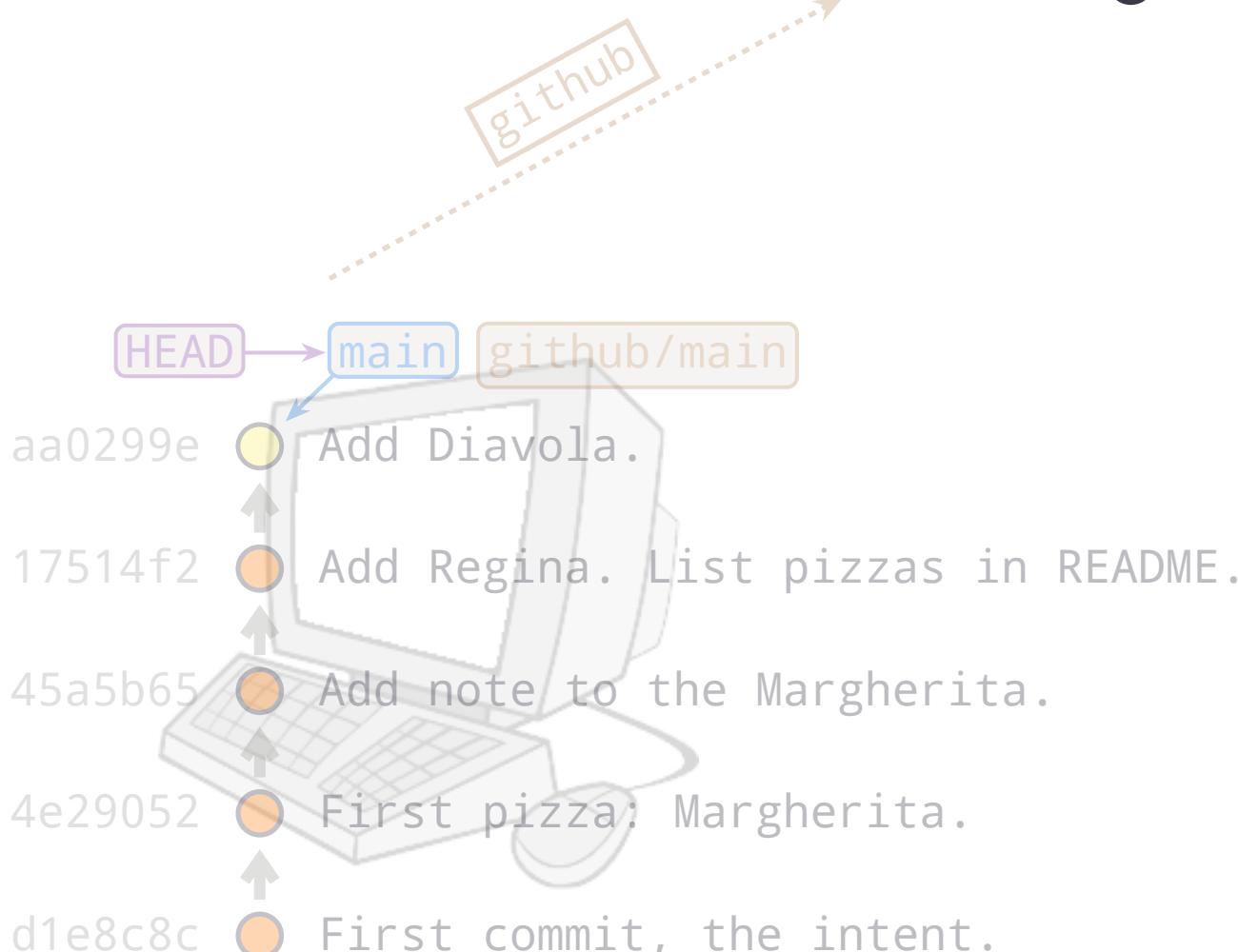
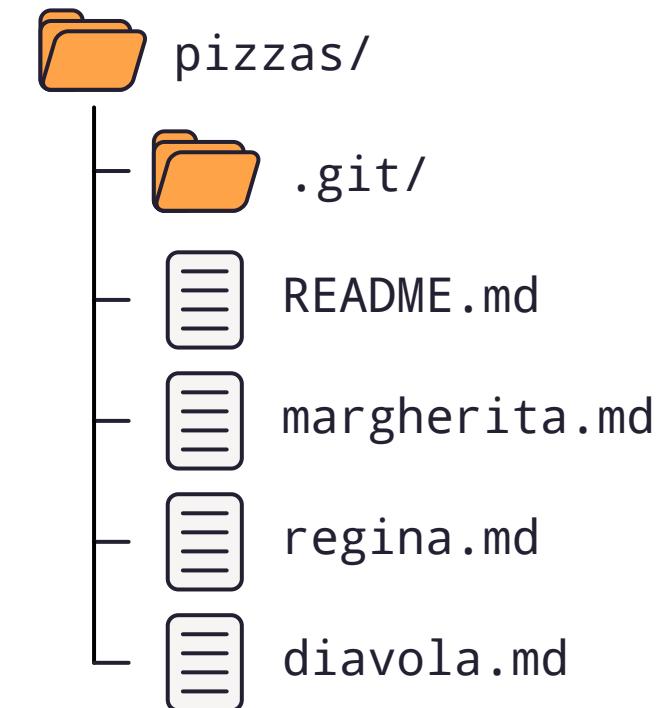
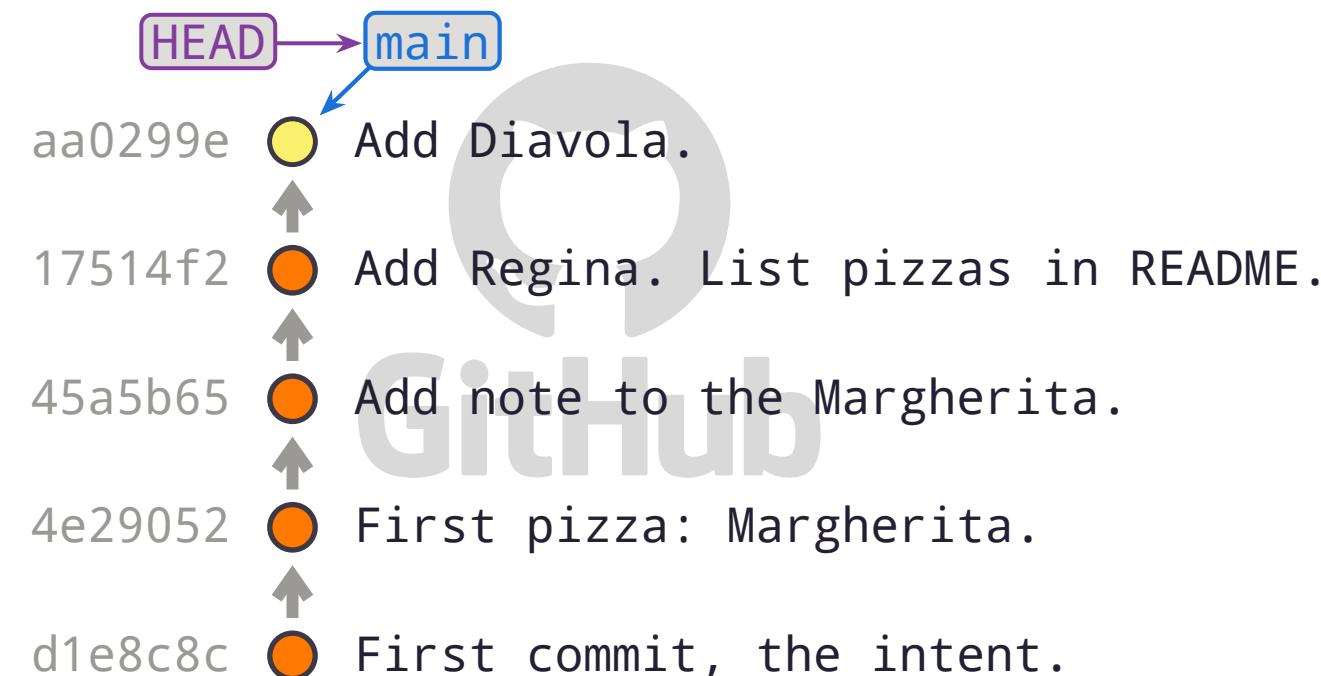


Collaborate

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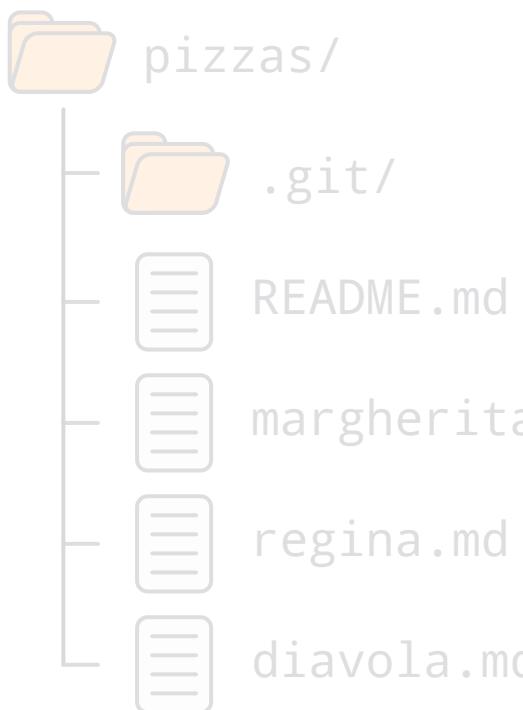


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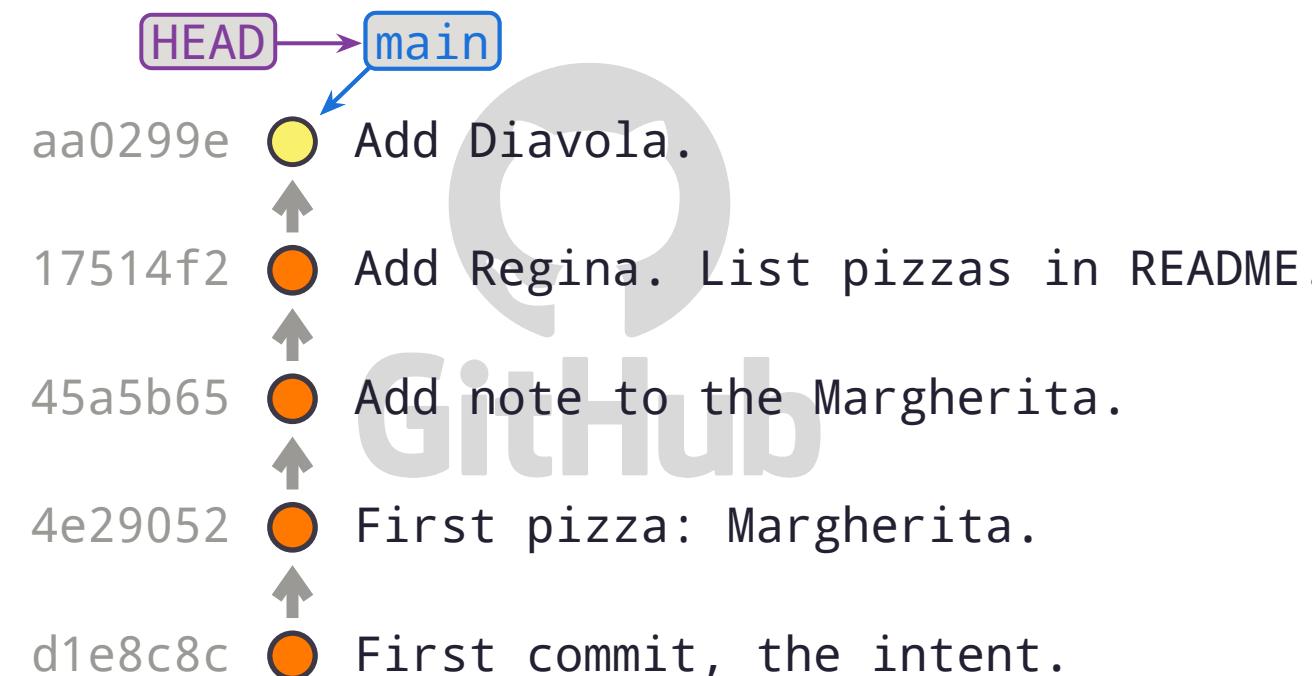


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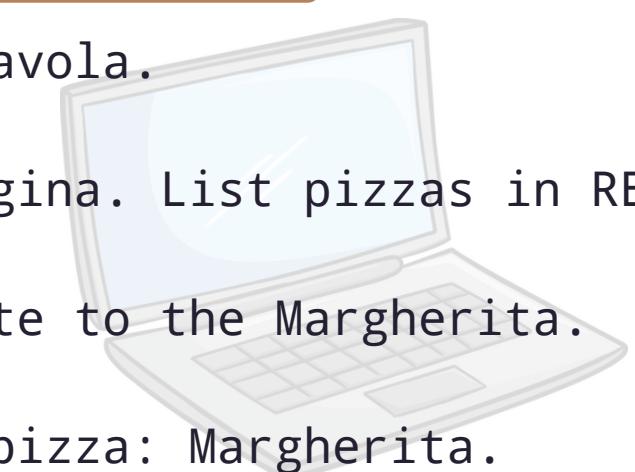
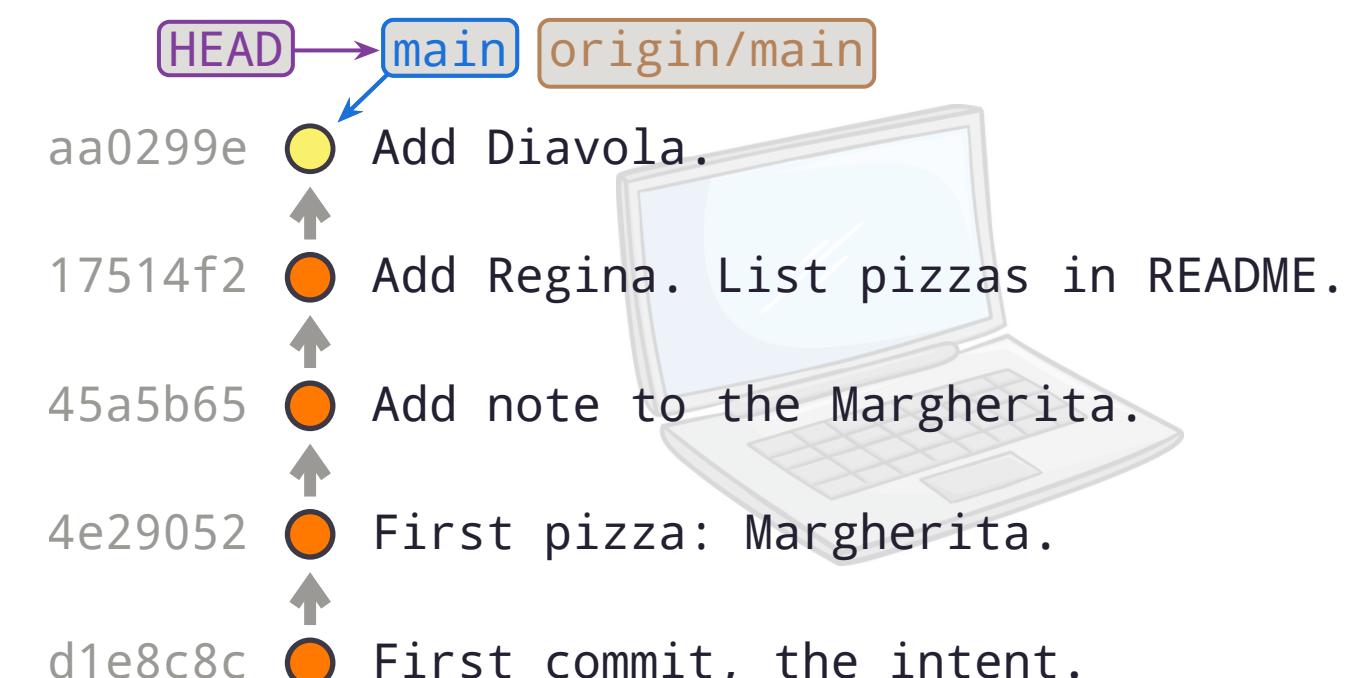
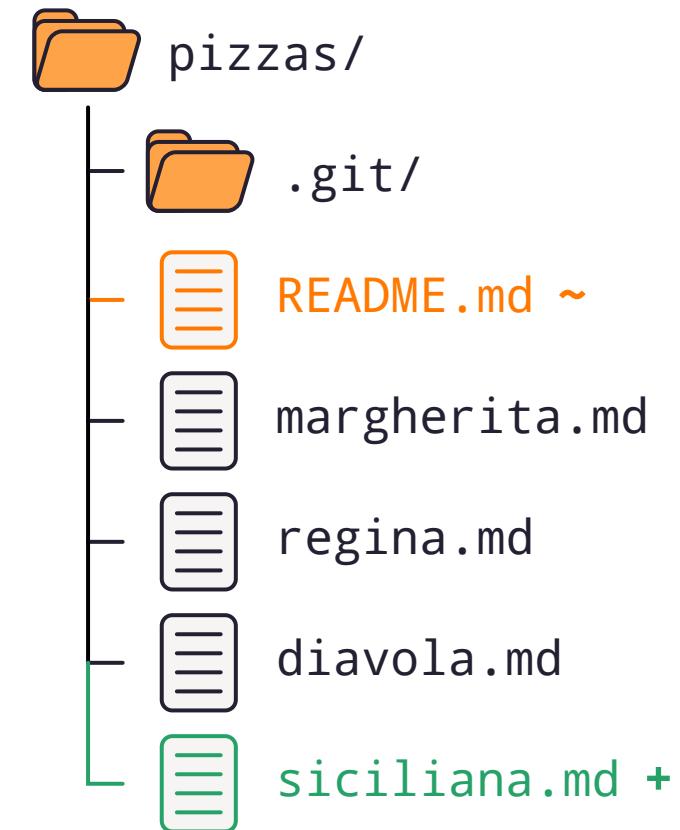
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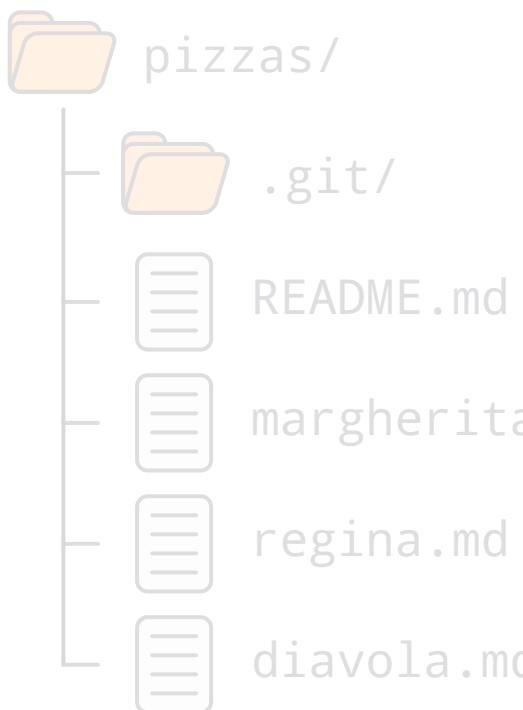


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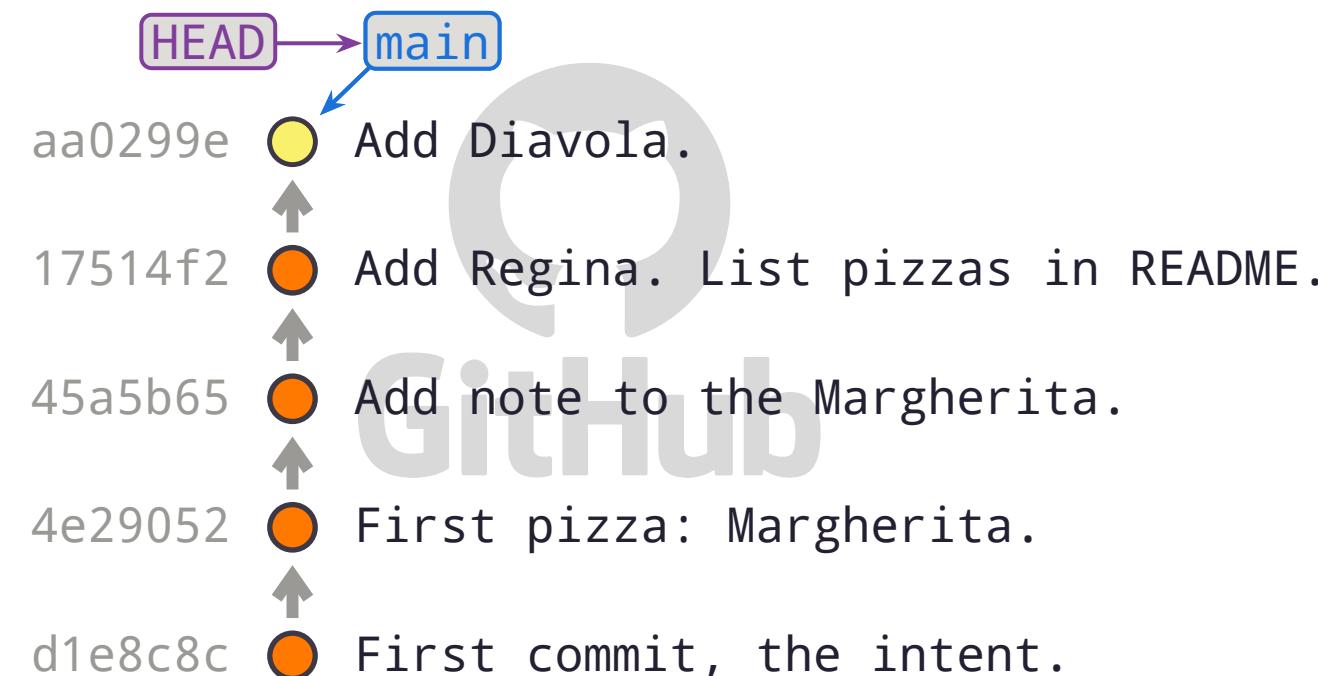


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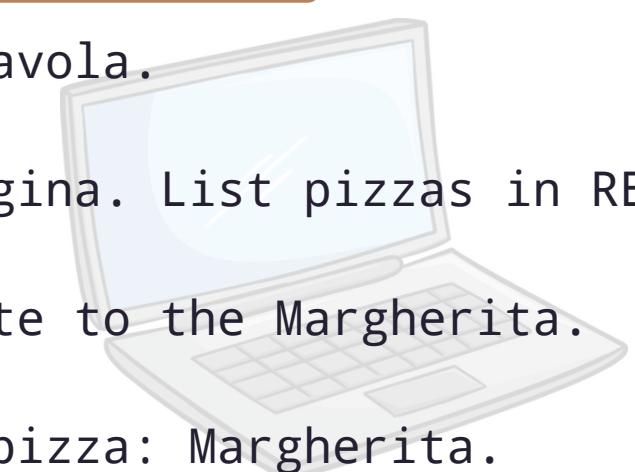
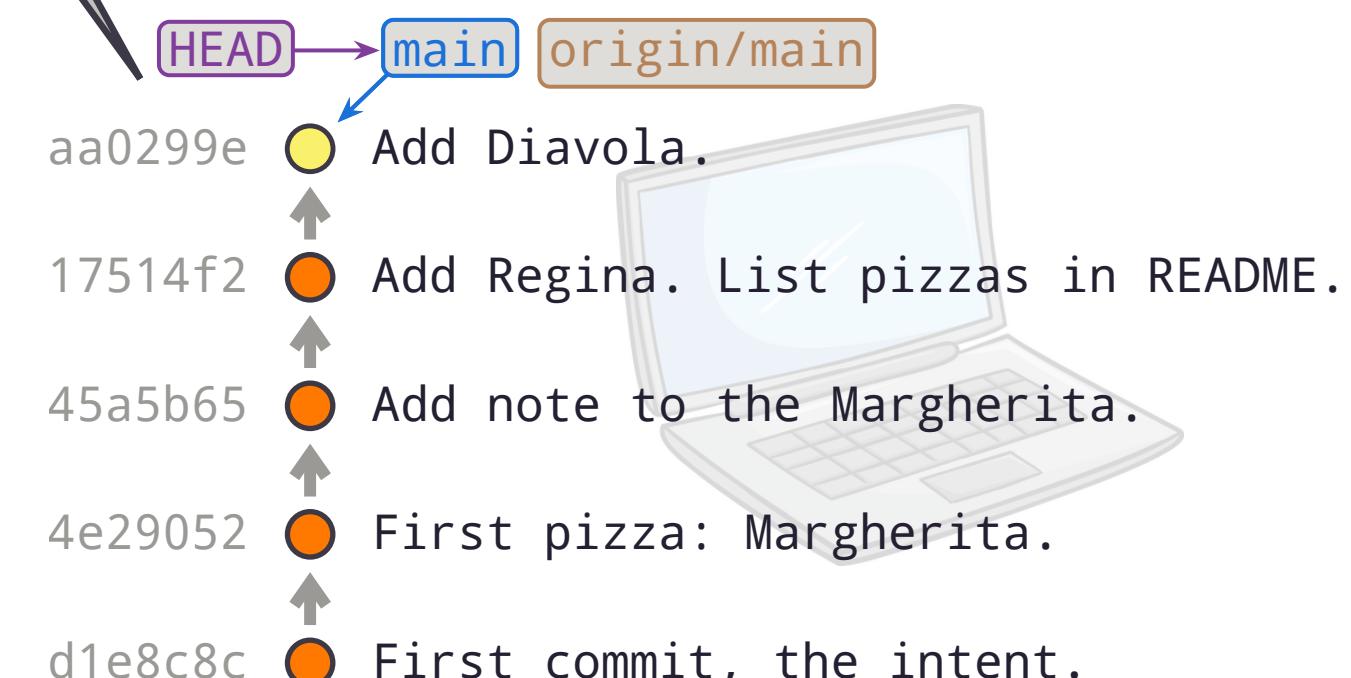
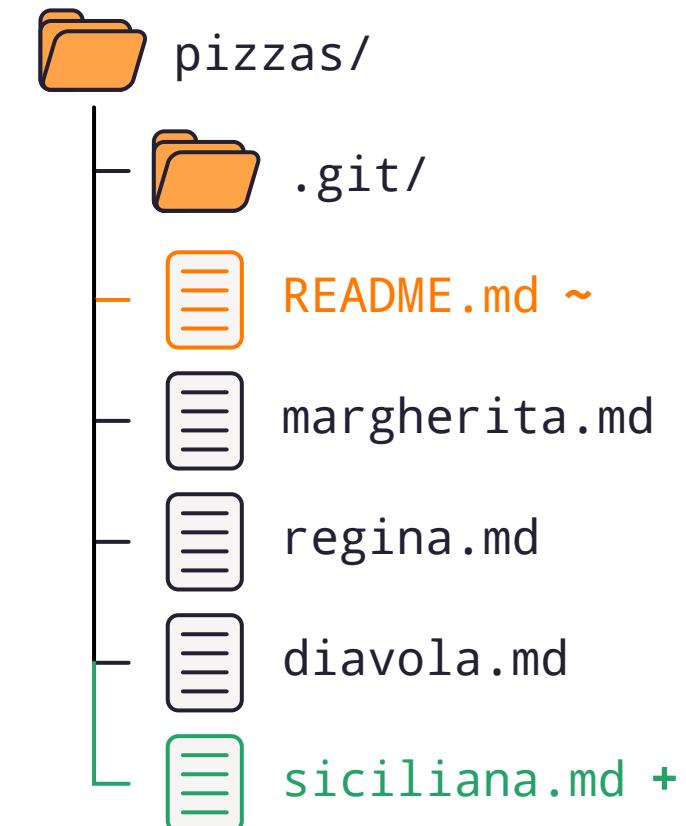
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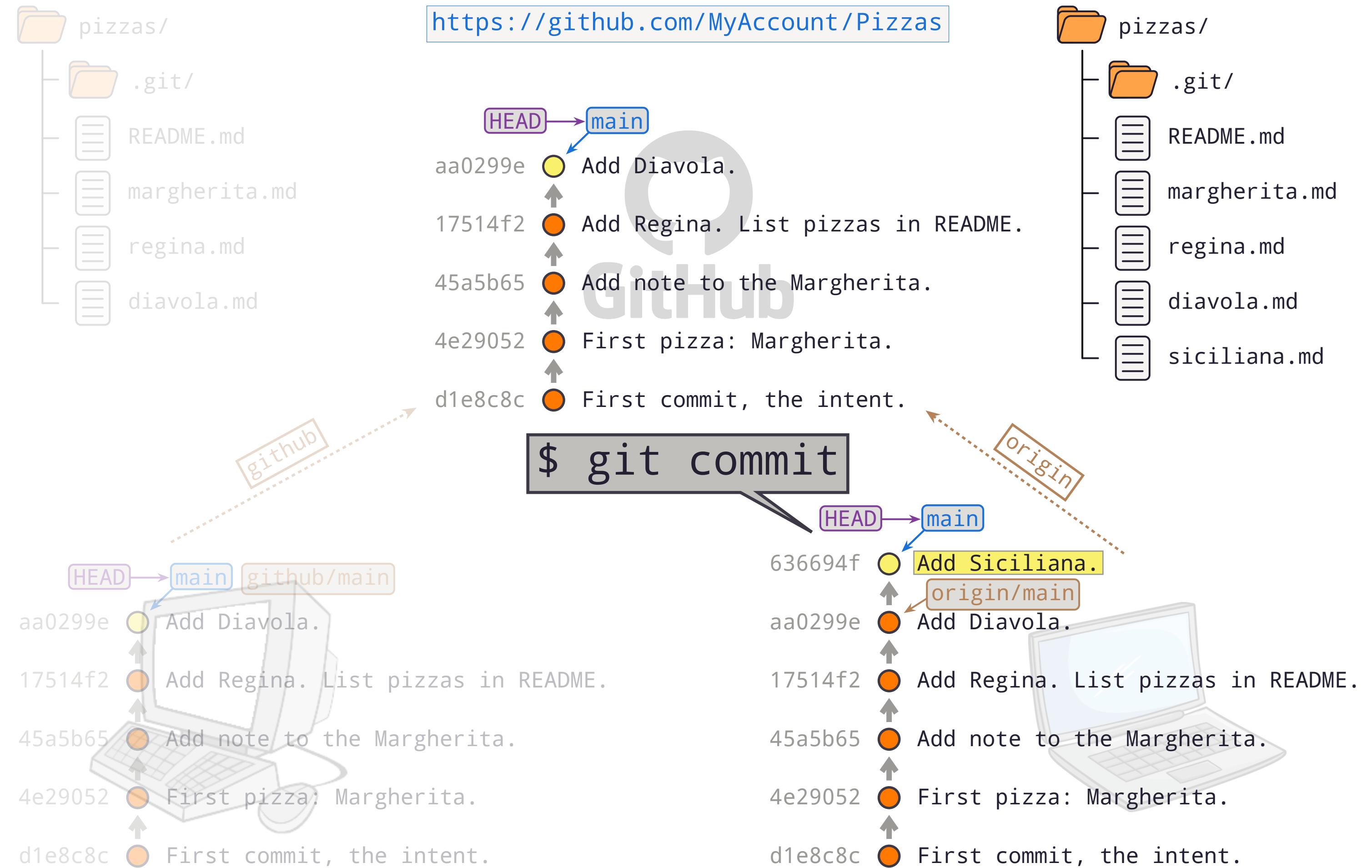


\$ git commit



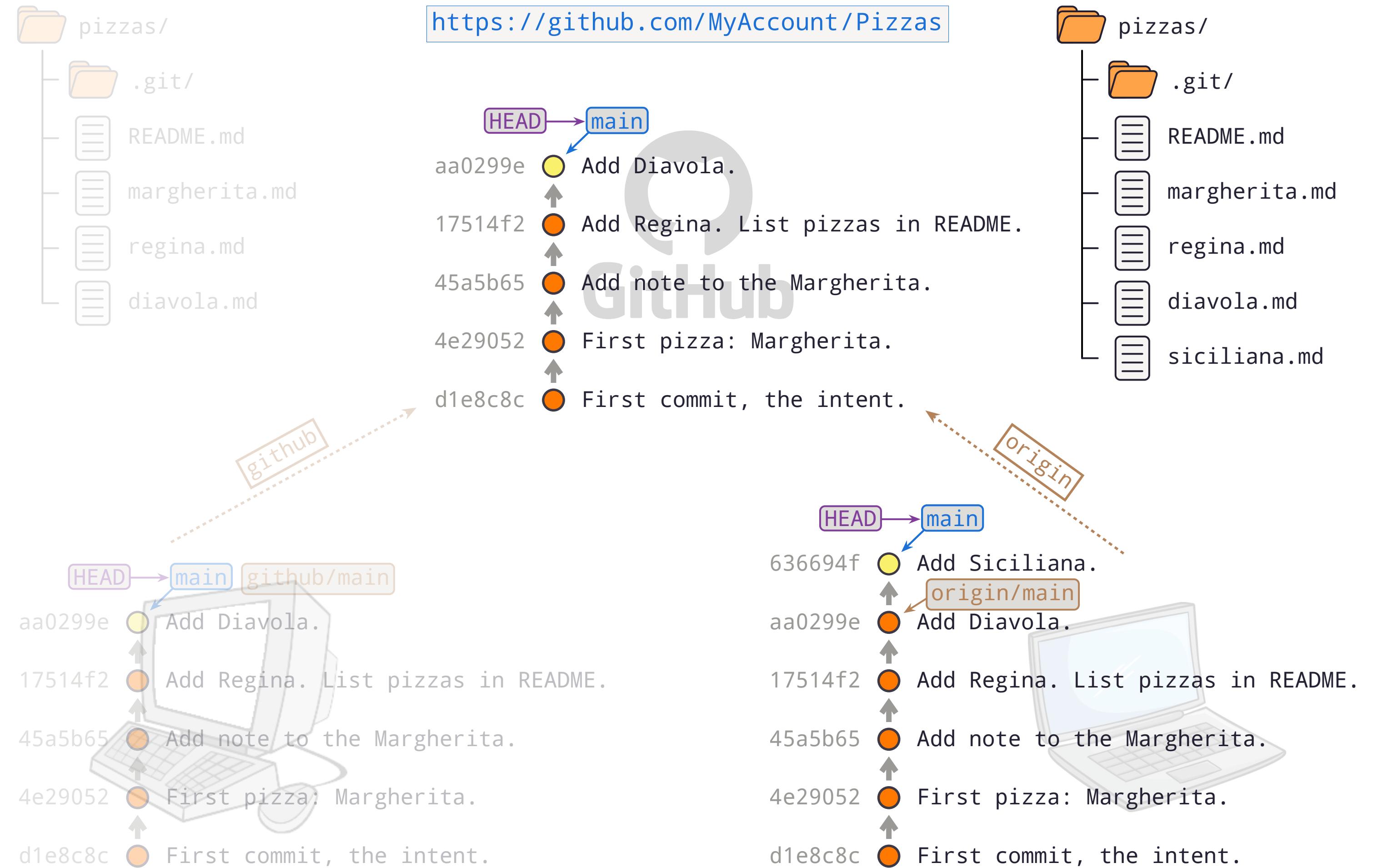
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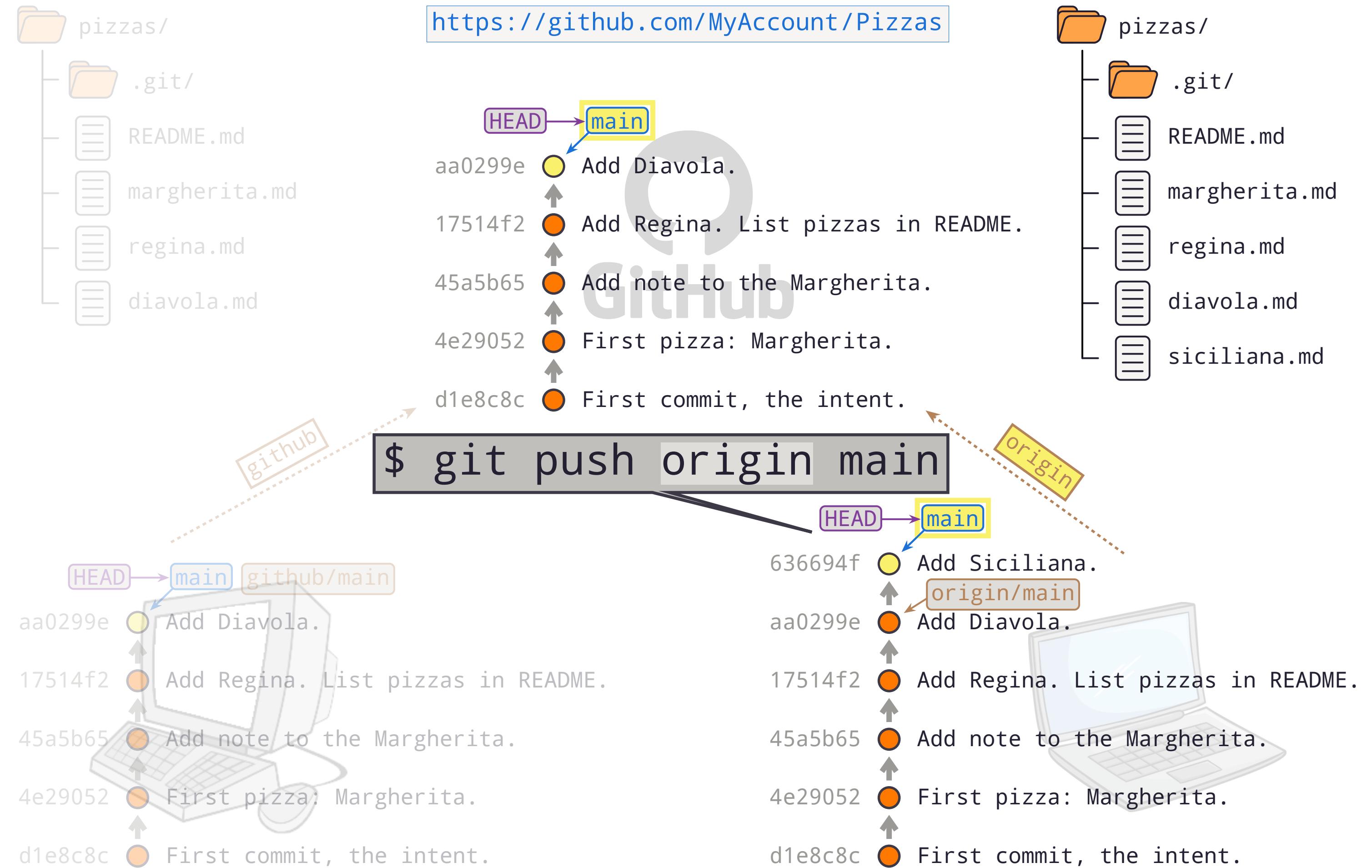
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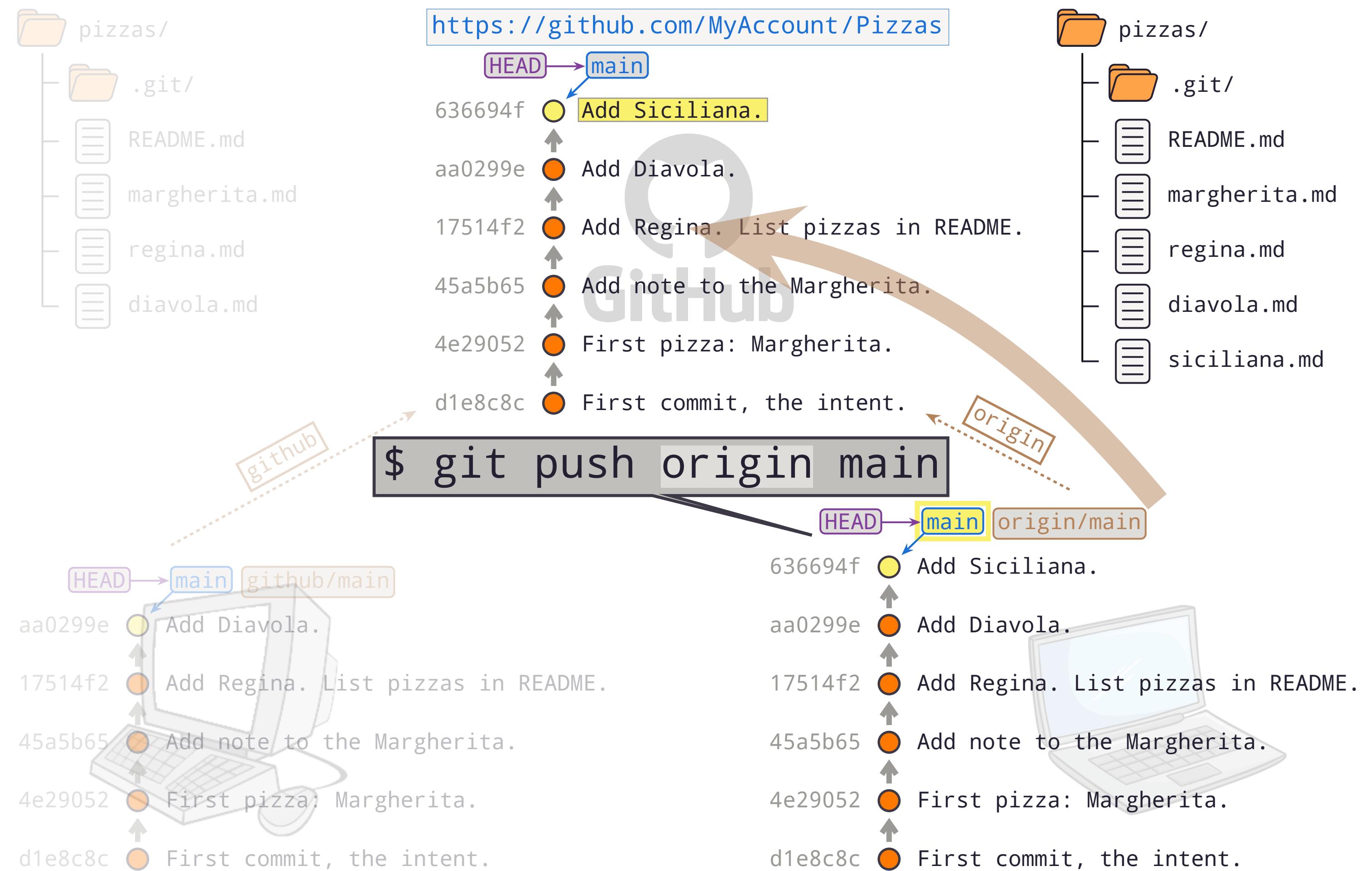
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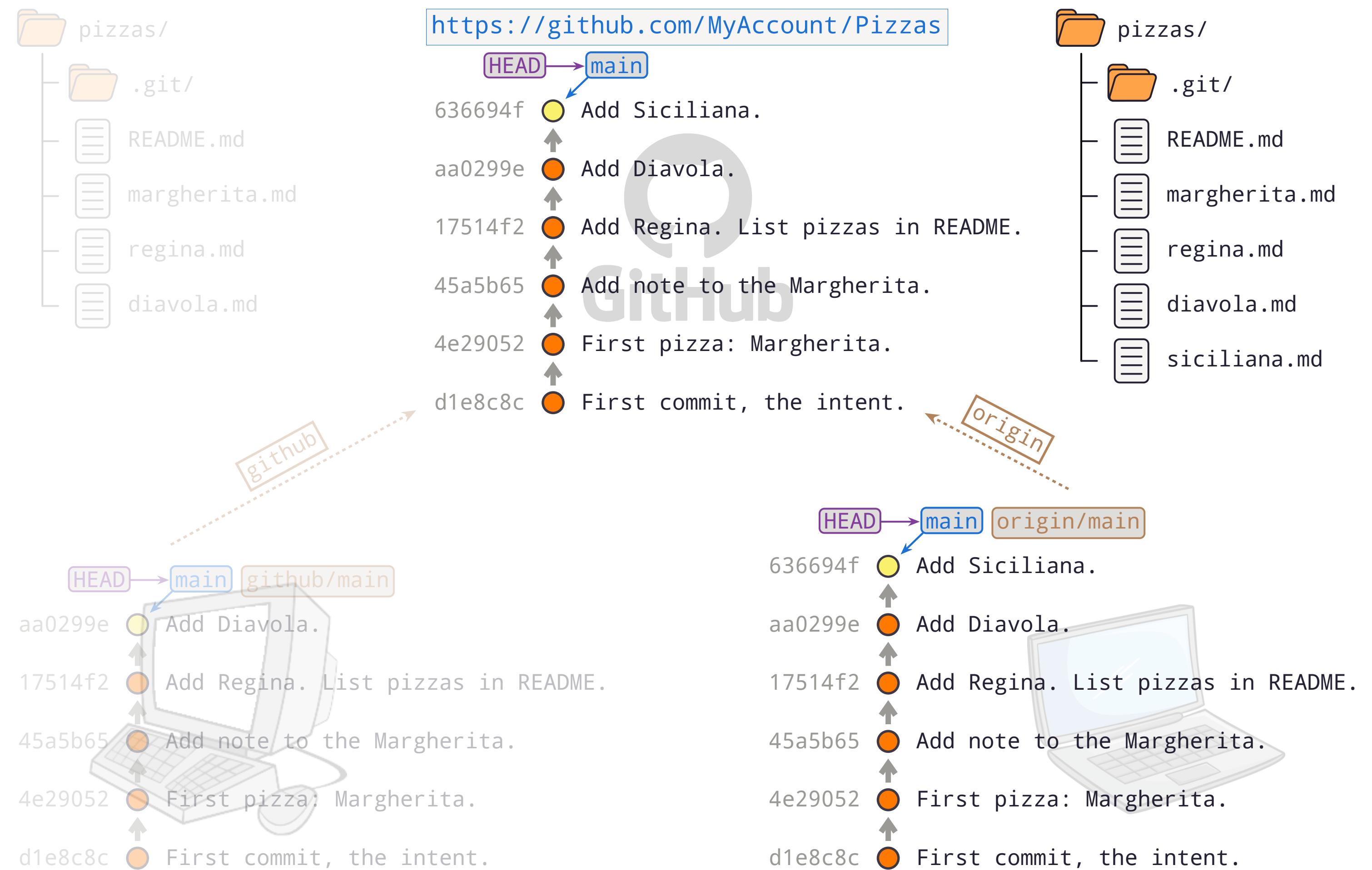
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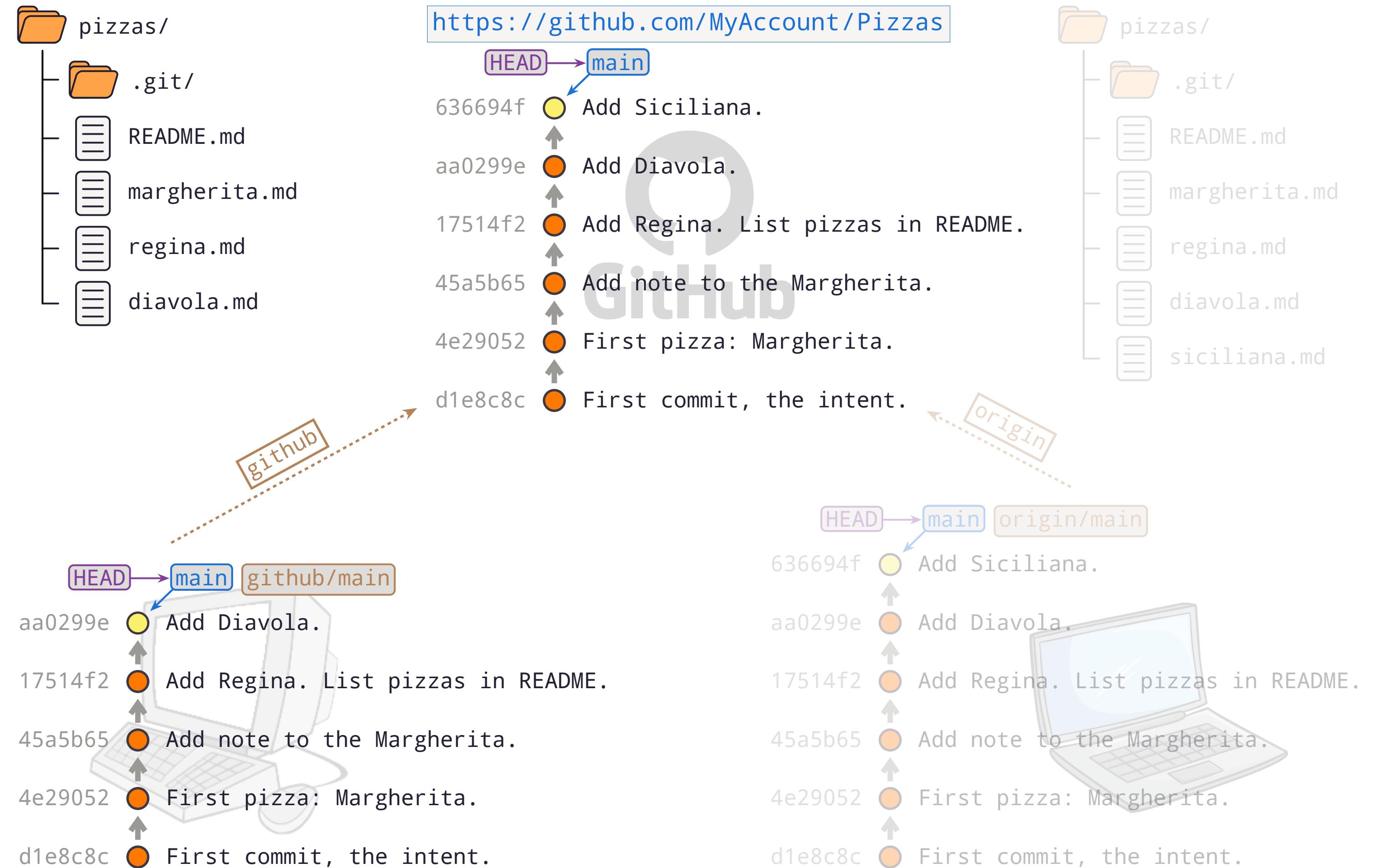
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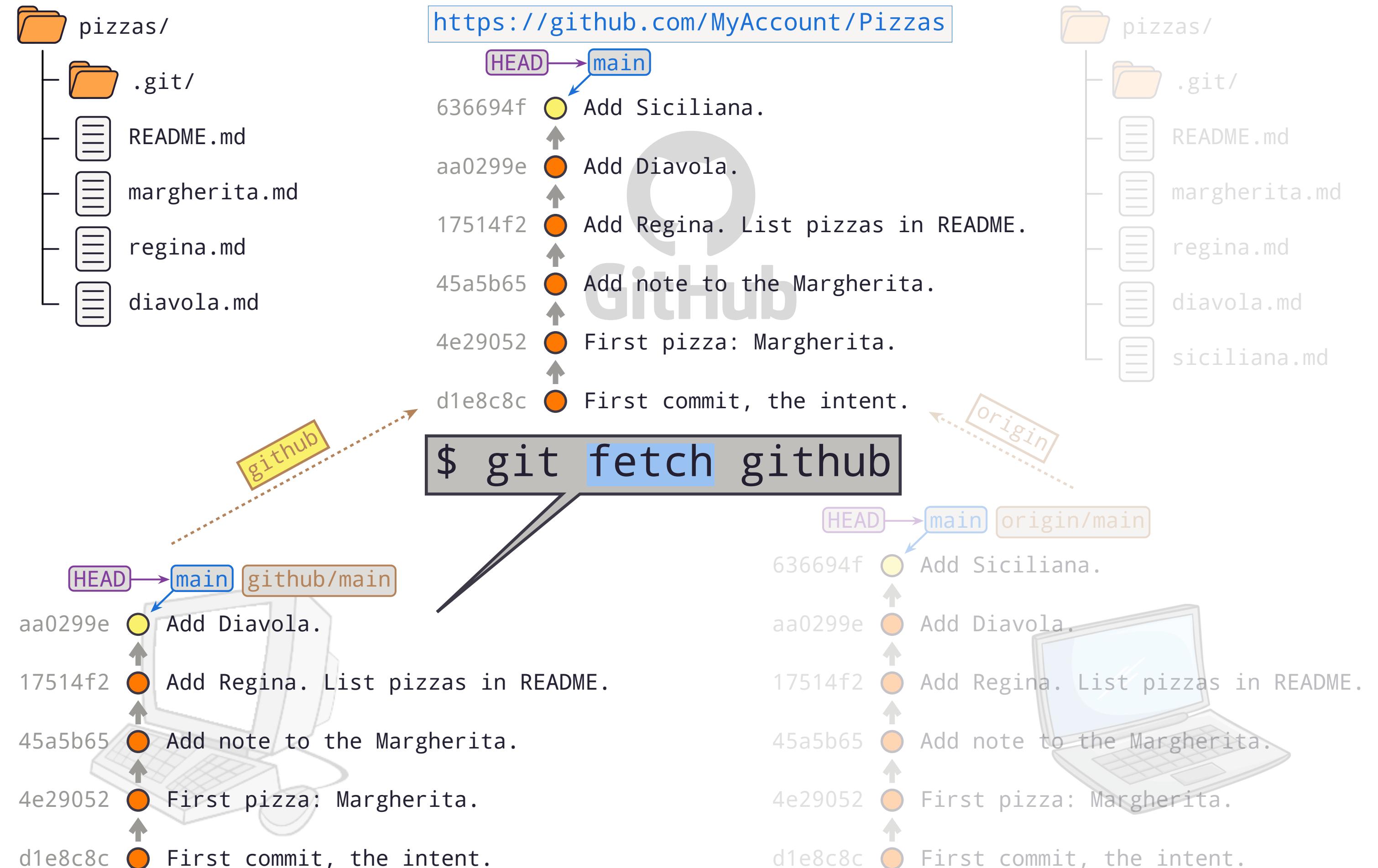
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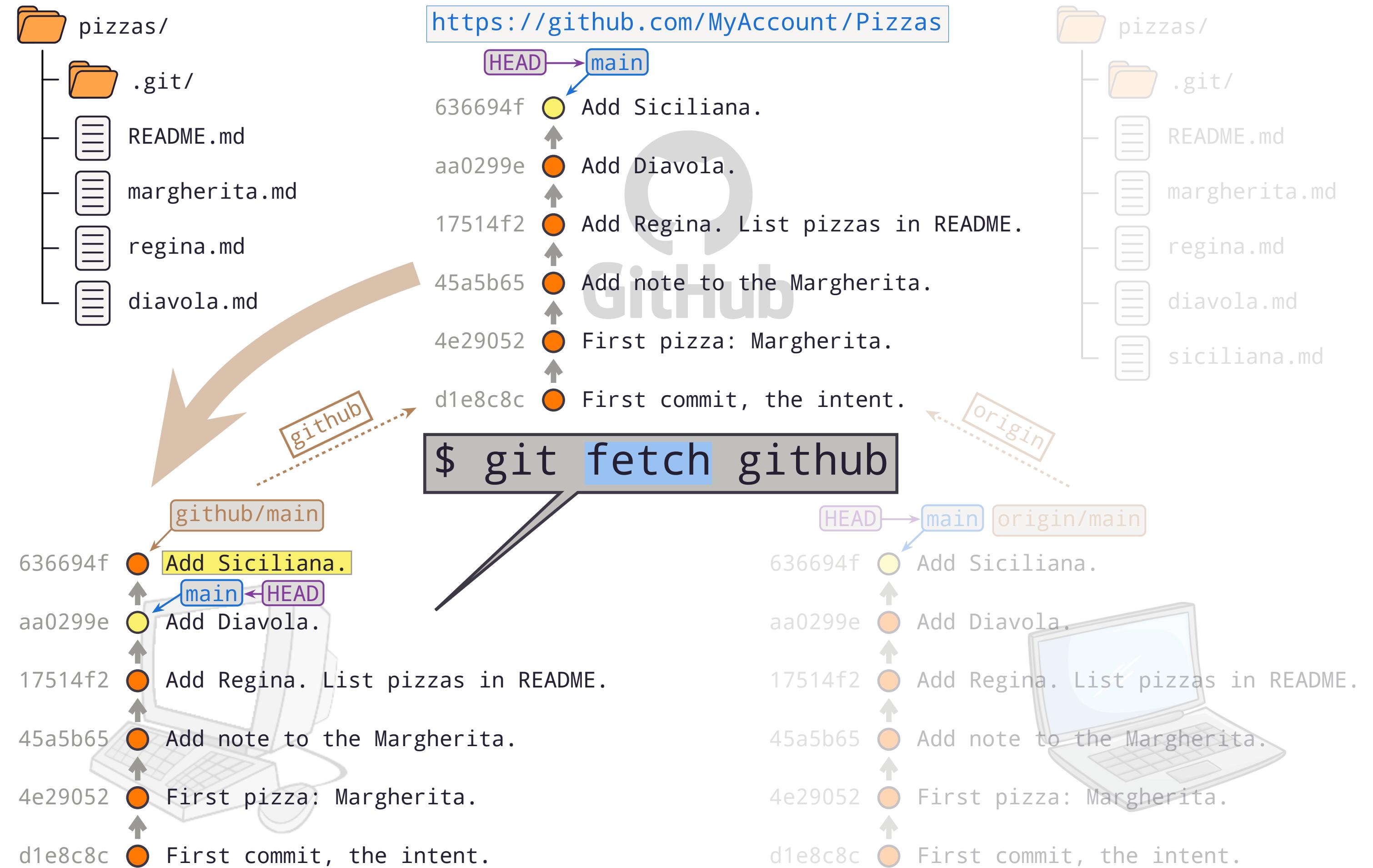
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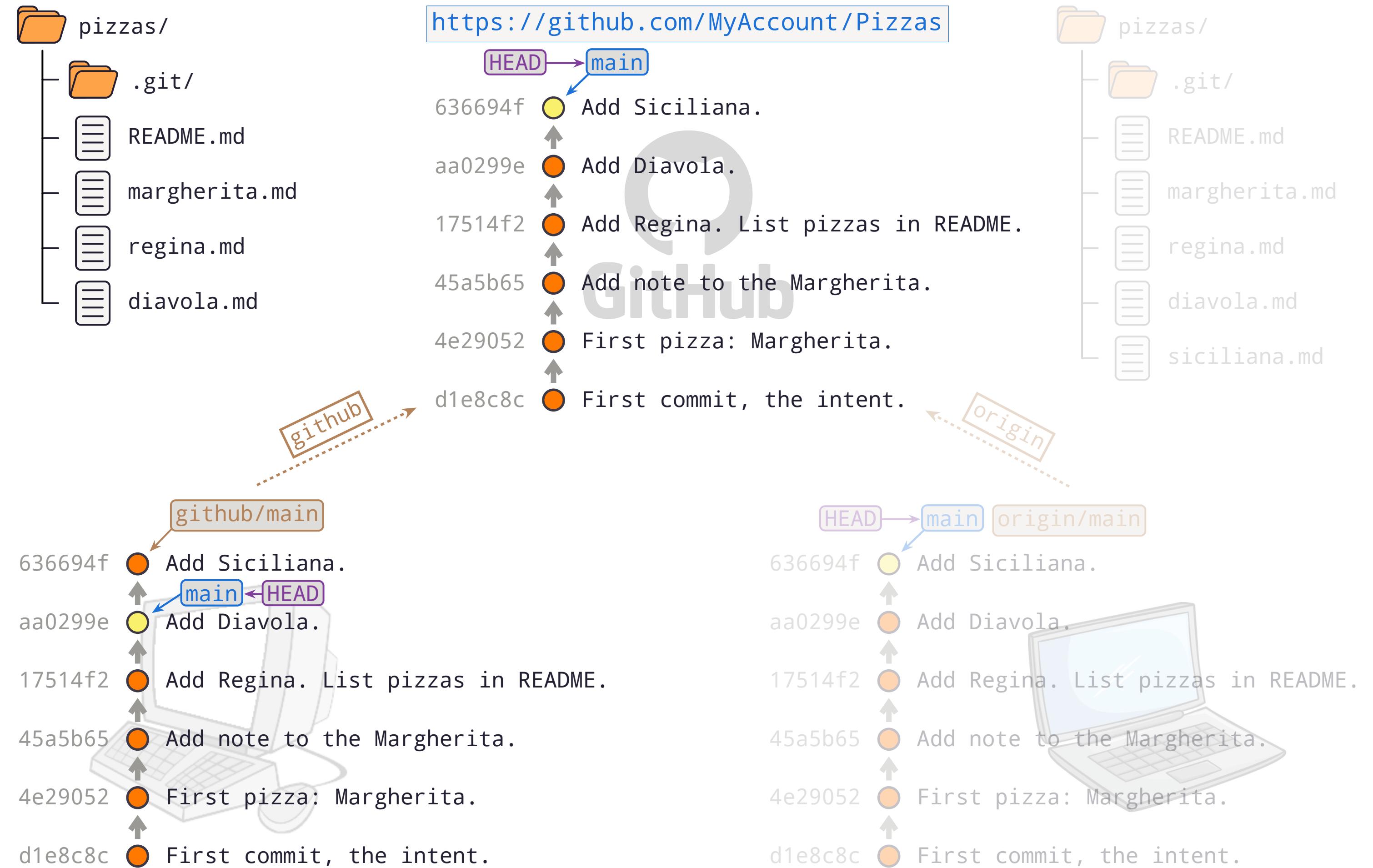
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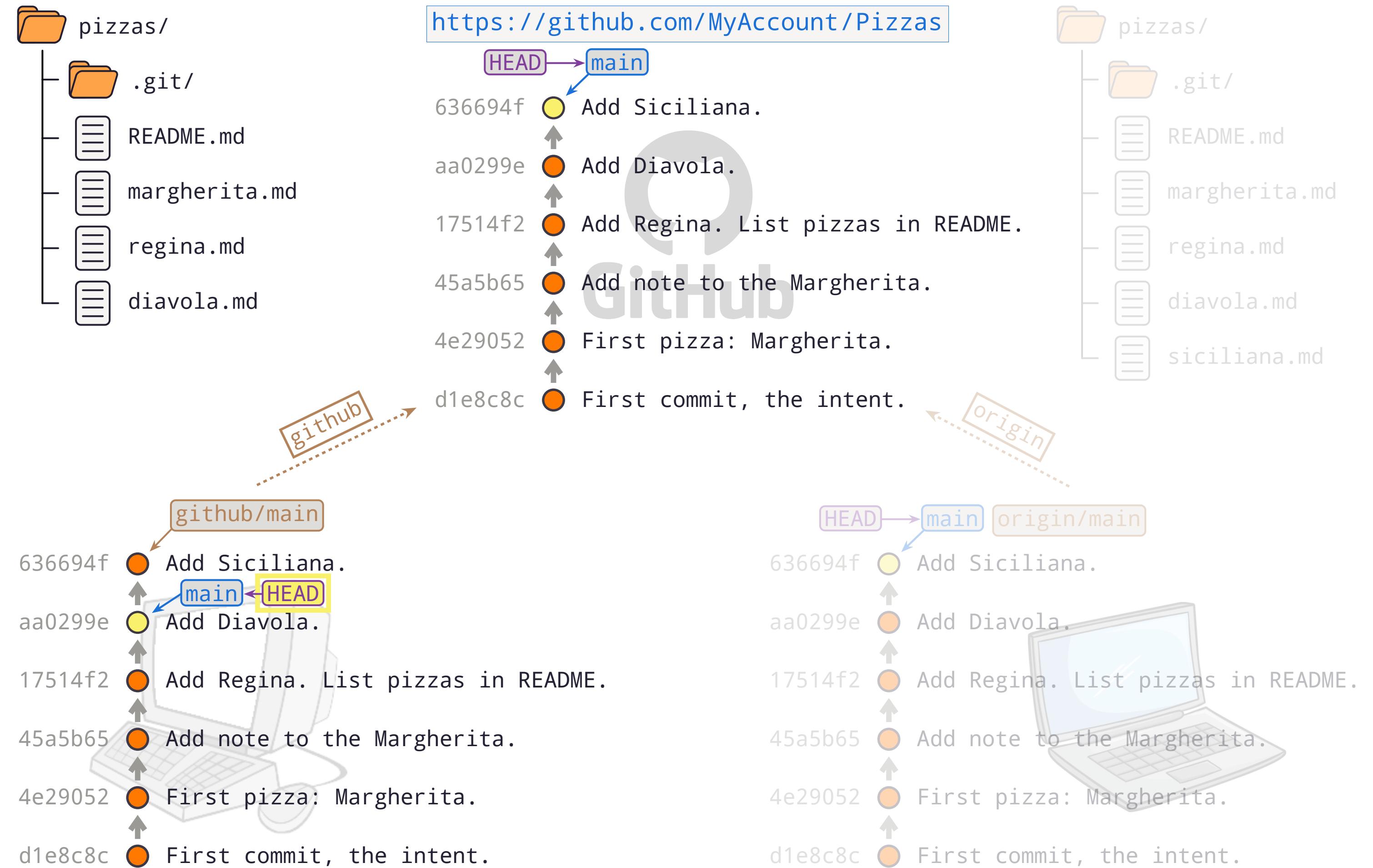
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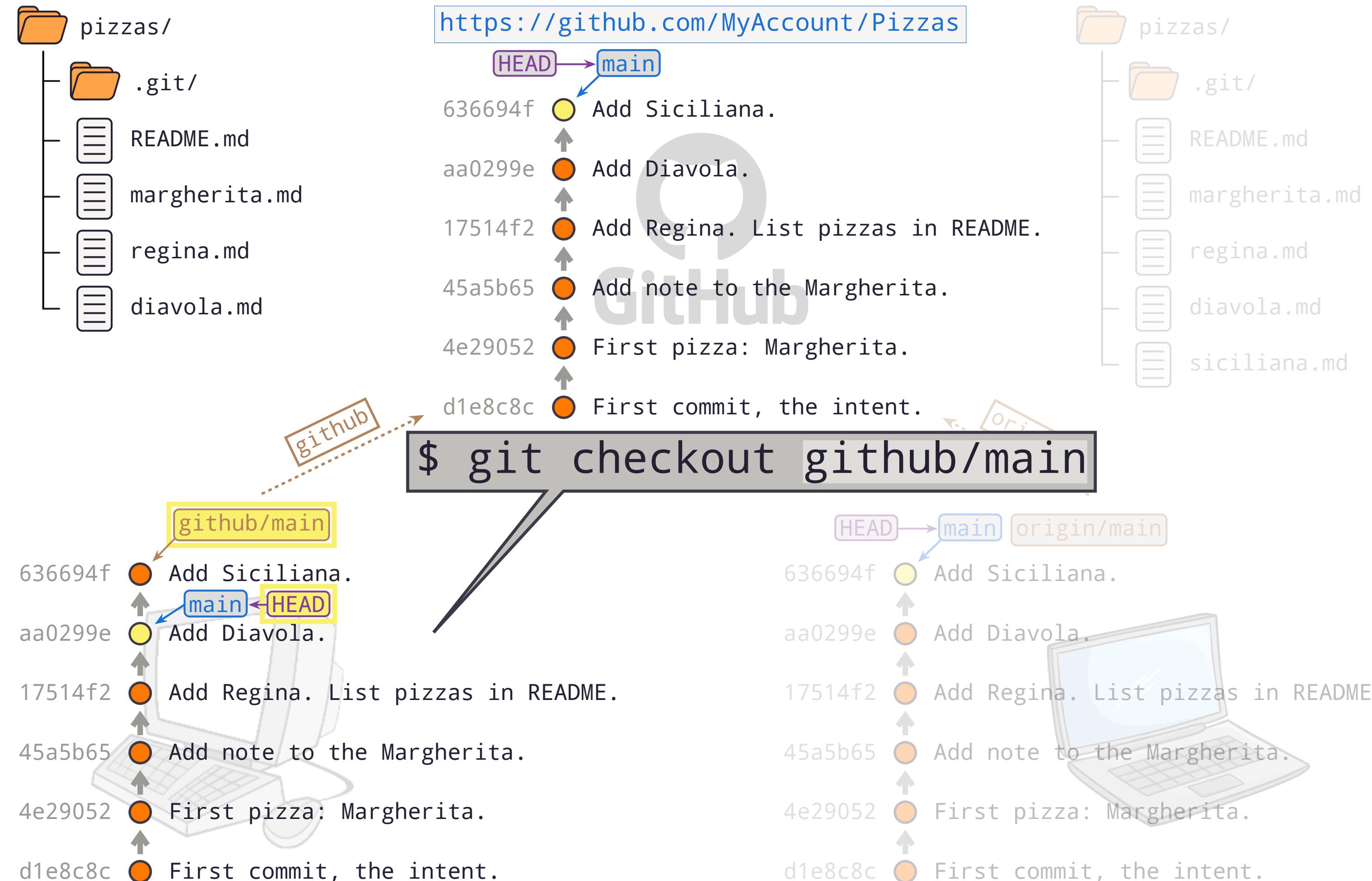
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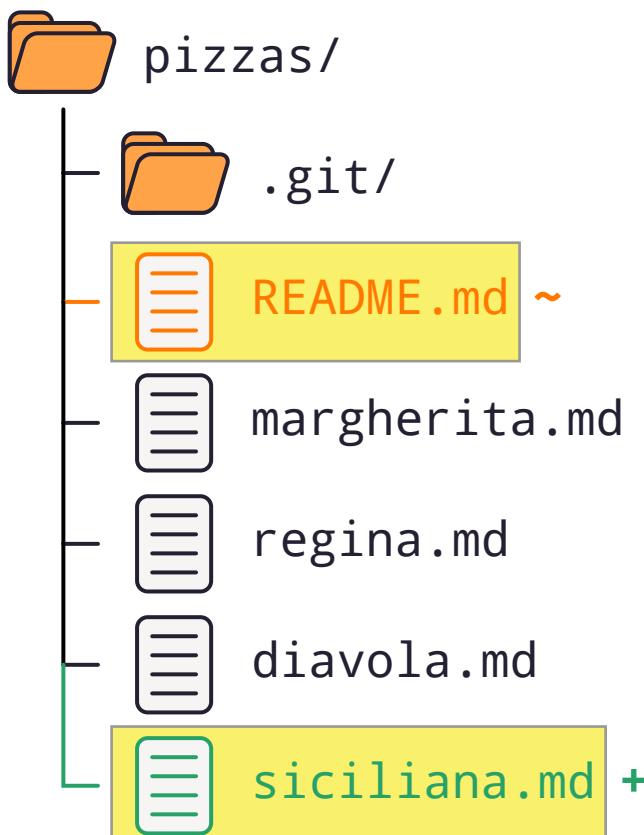
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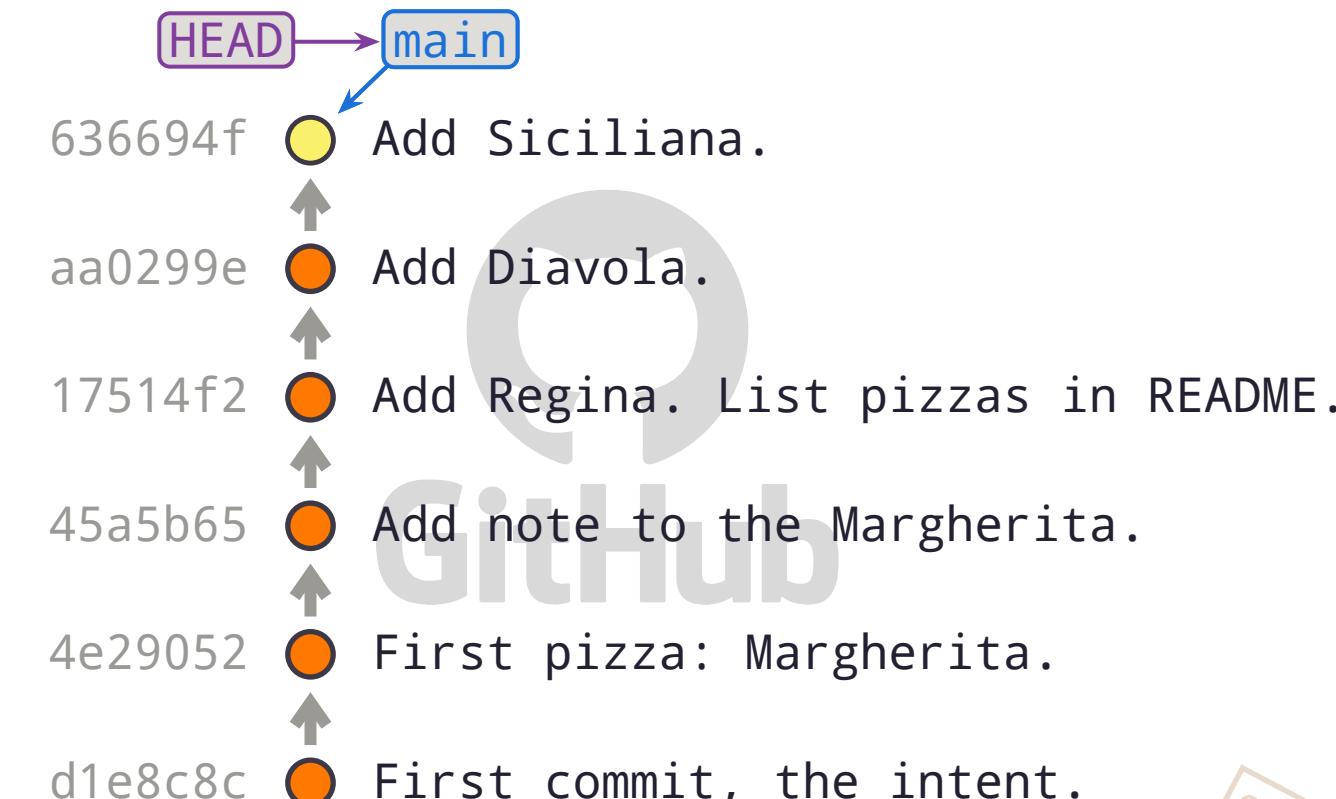


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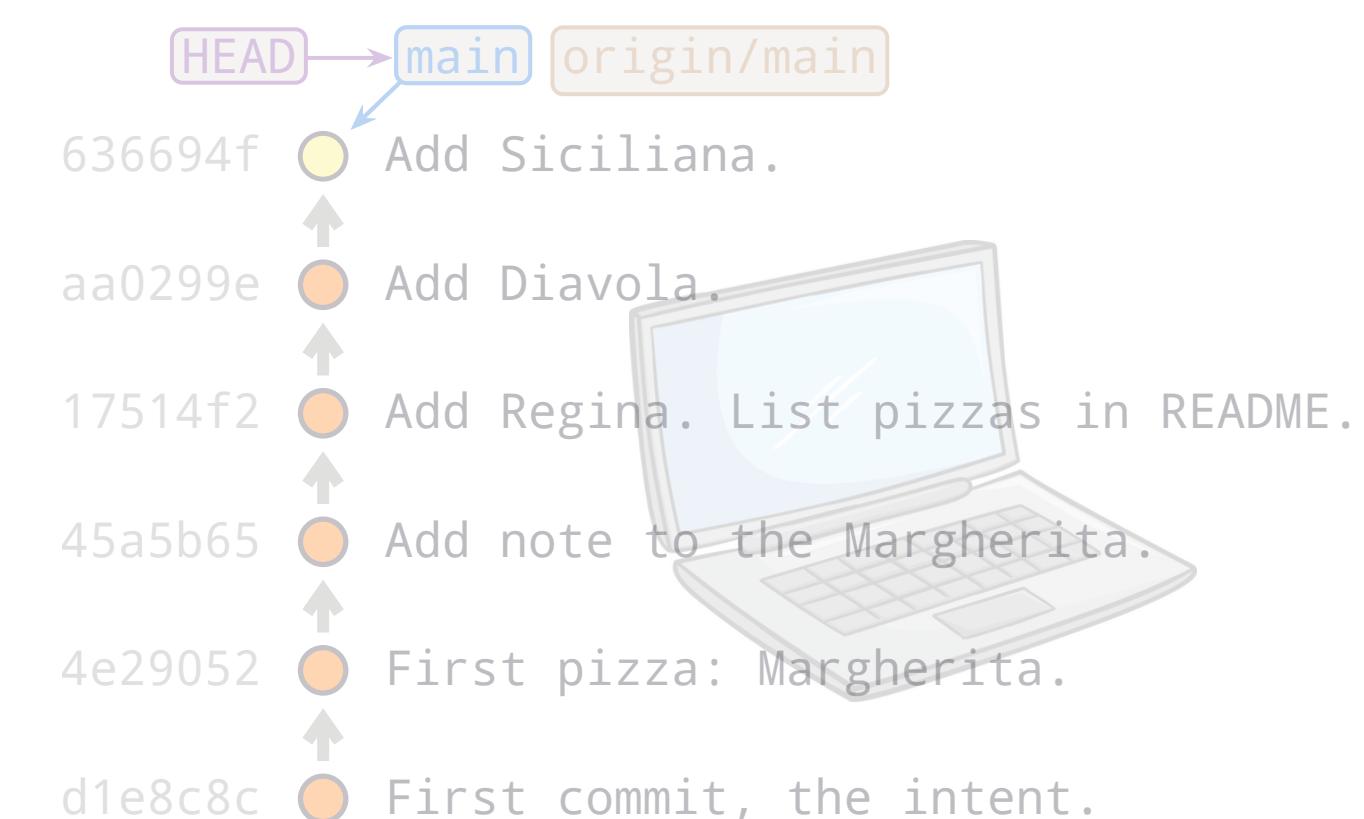
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<https://github.com/MyAccount/Pizzas>

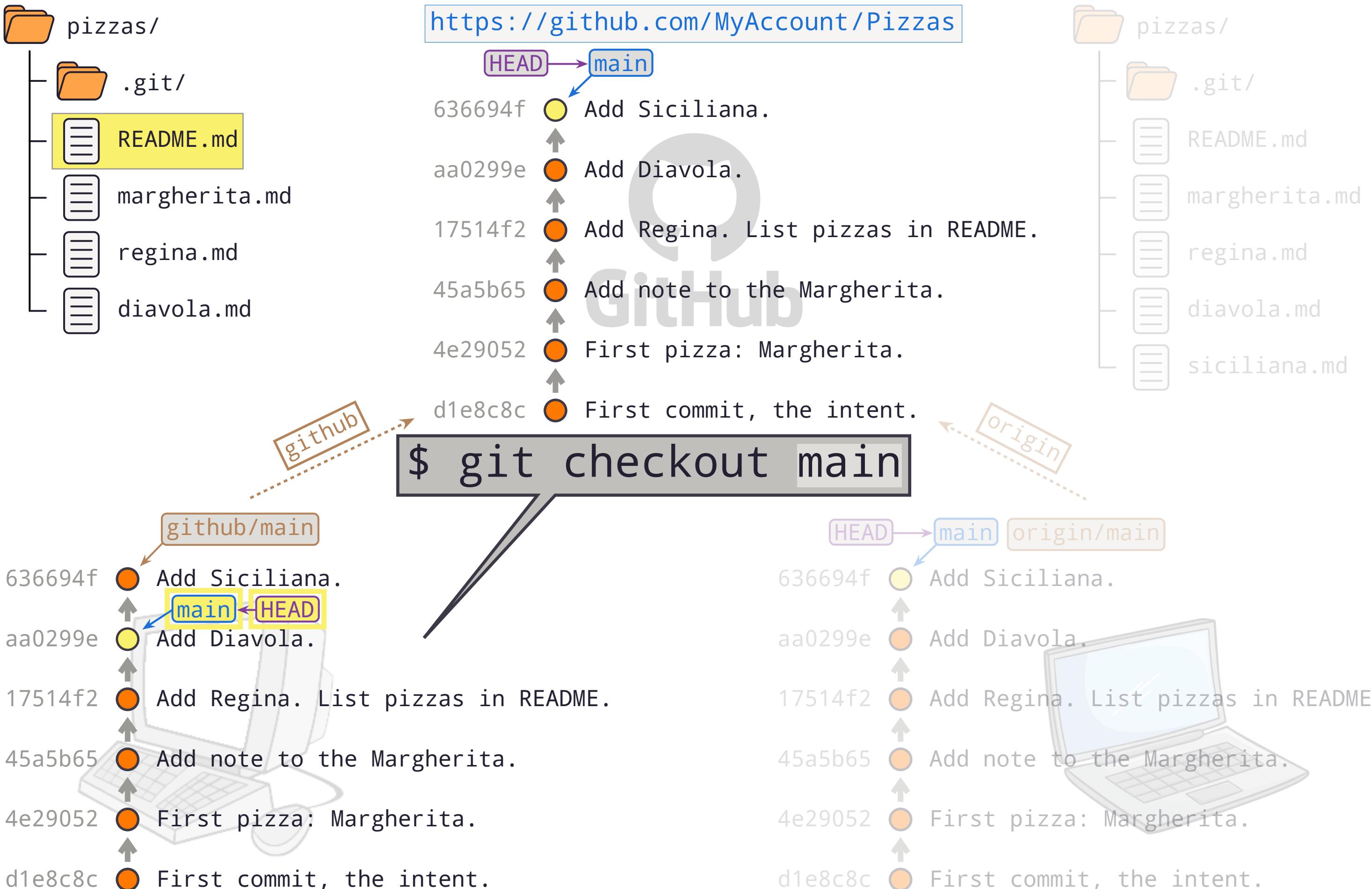


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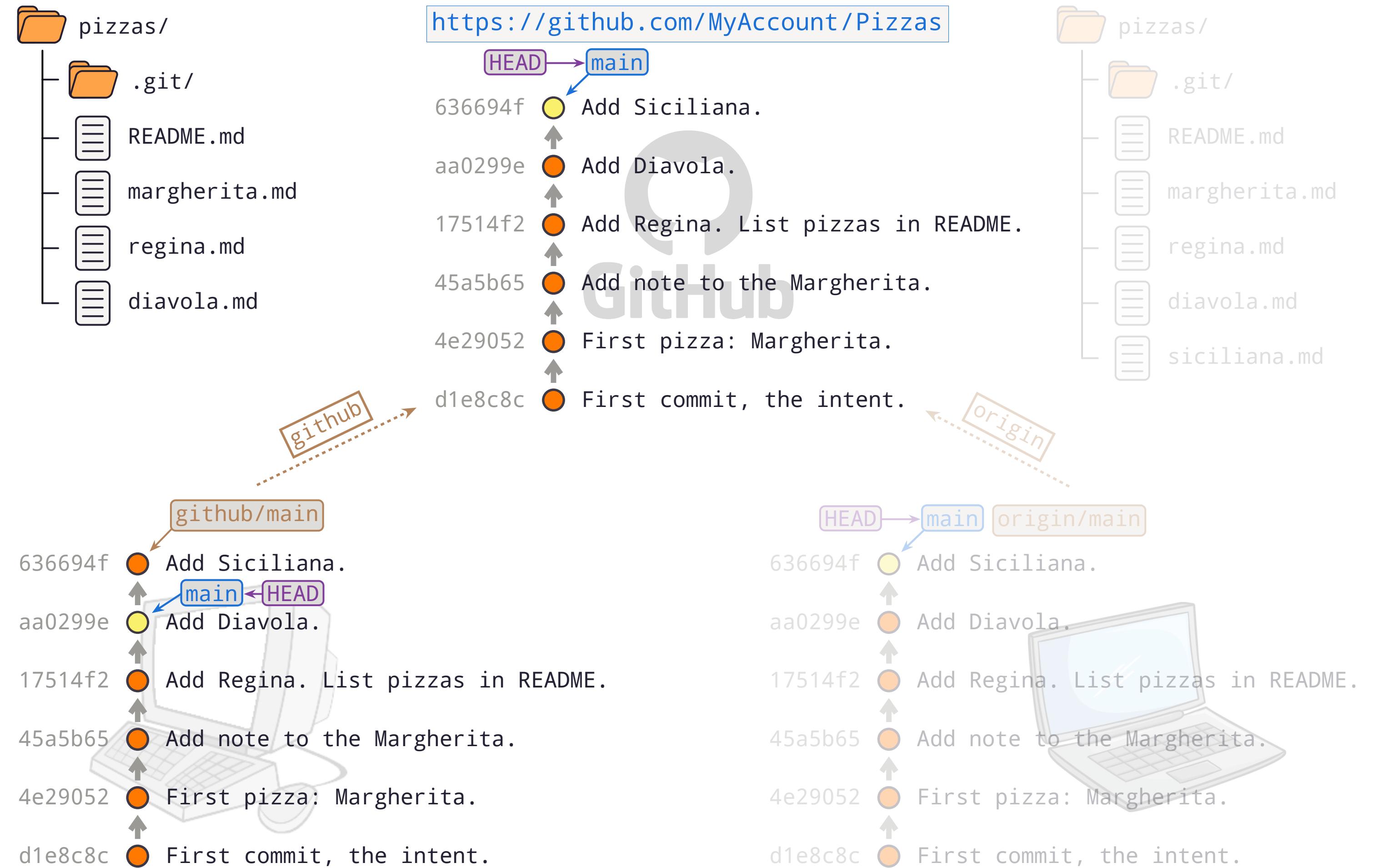
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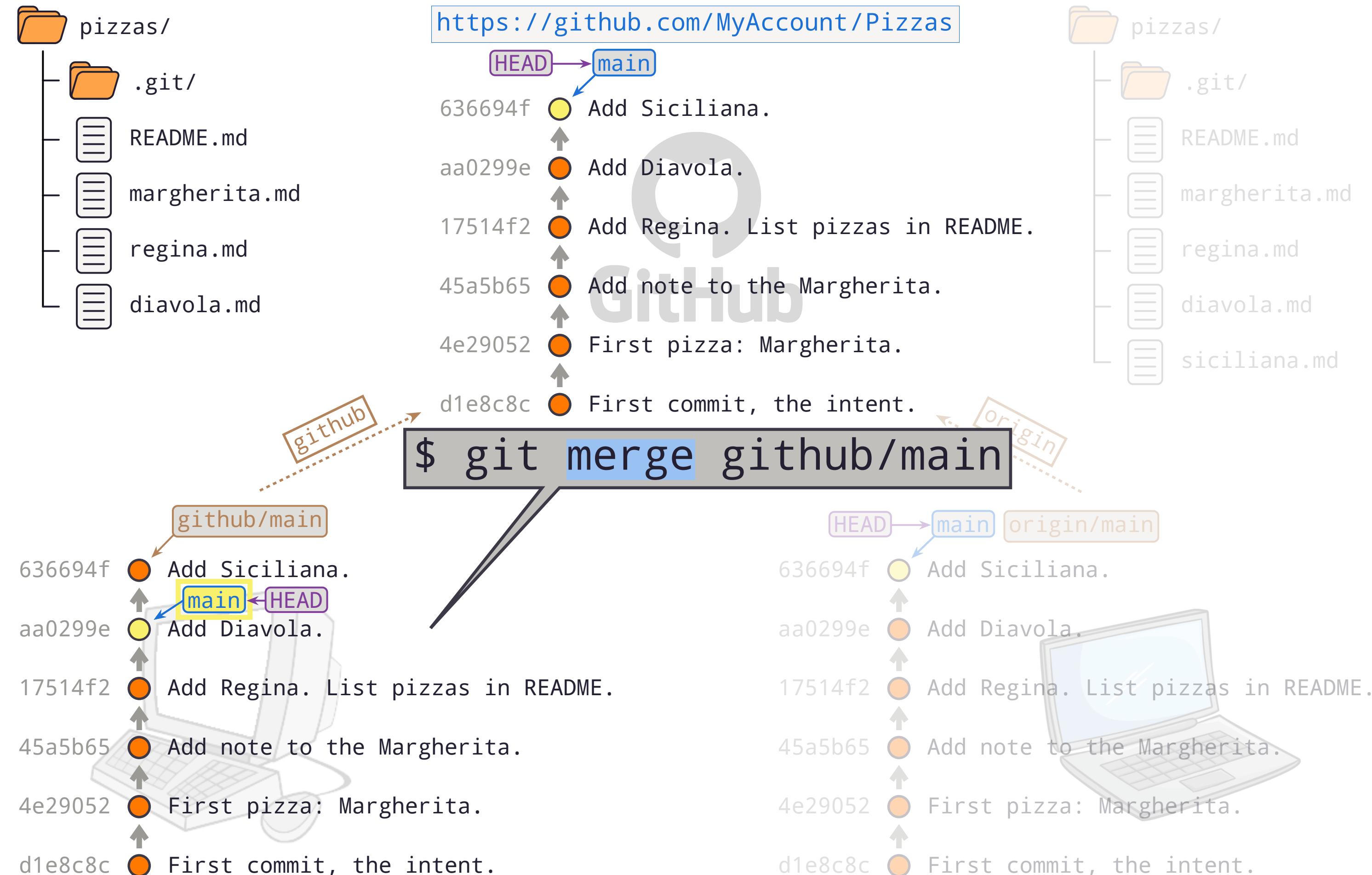
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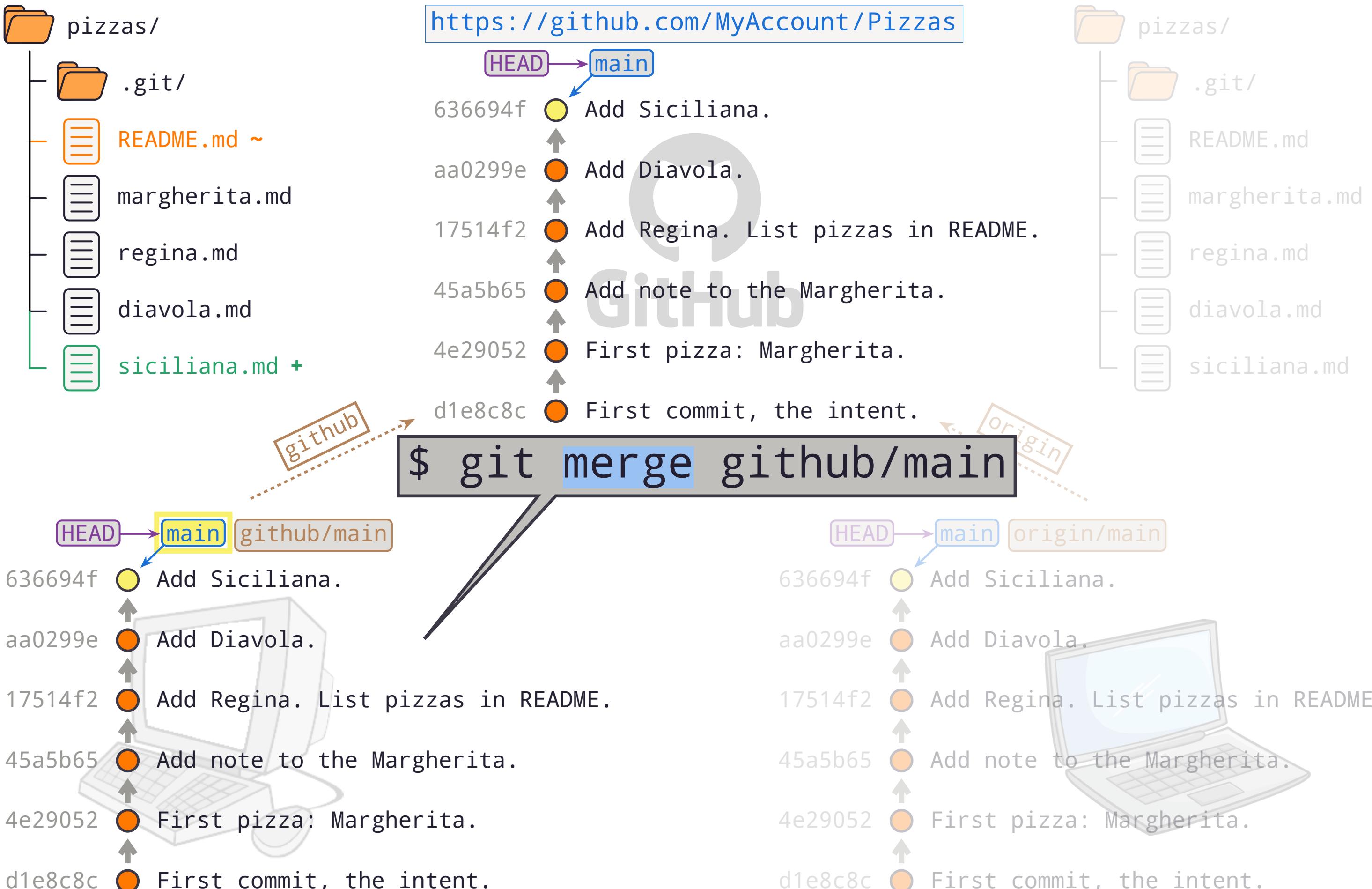
Collaborate

You're not Alone.



Collaborate

You're not Alone.



Collaborate

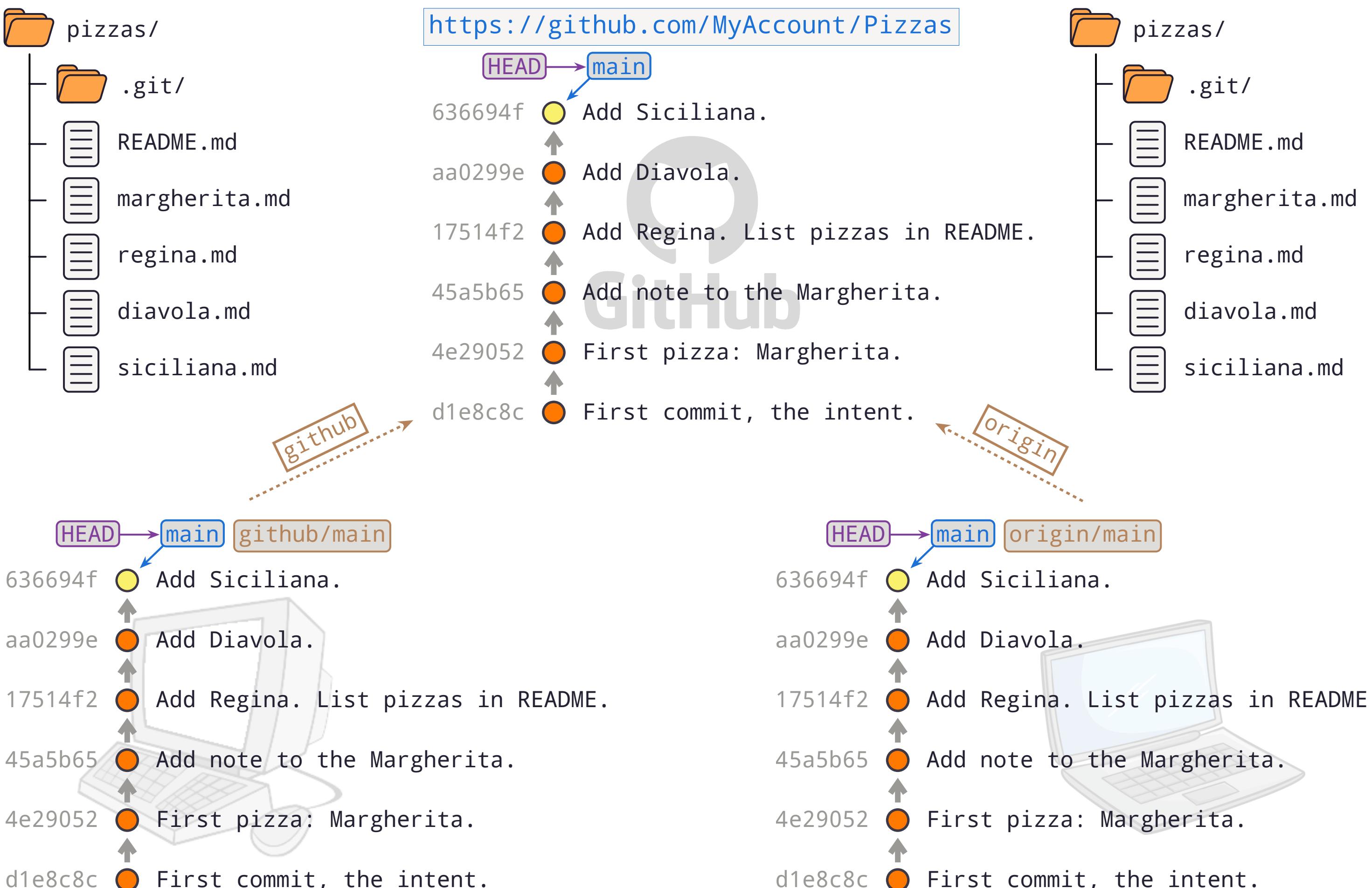
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Collaboration Divergence

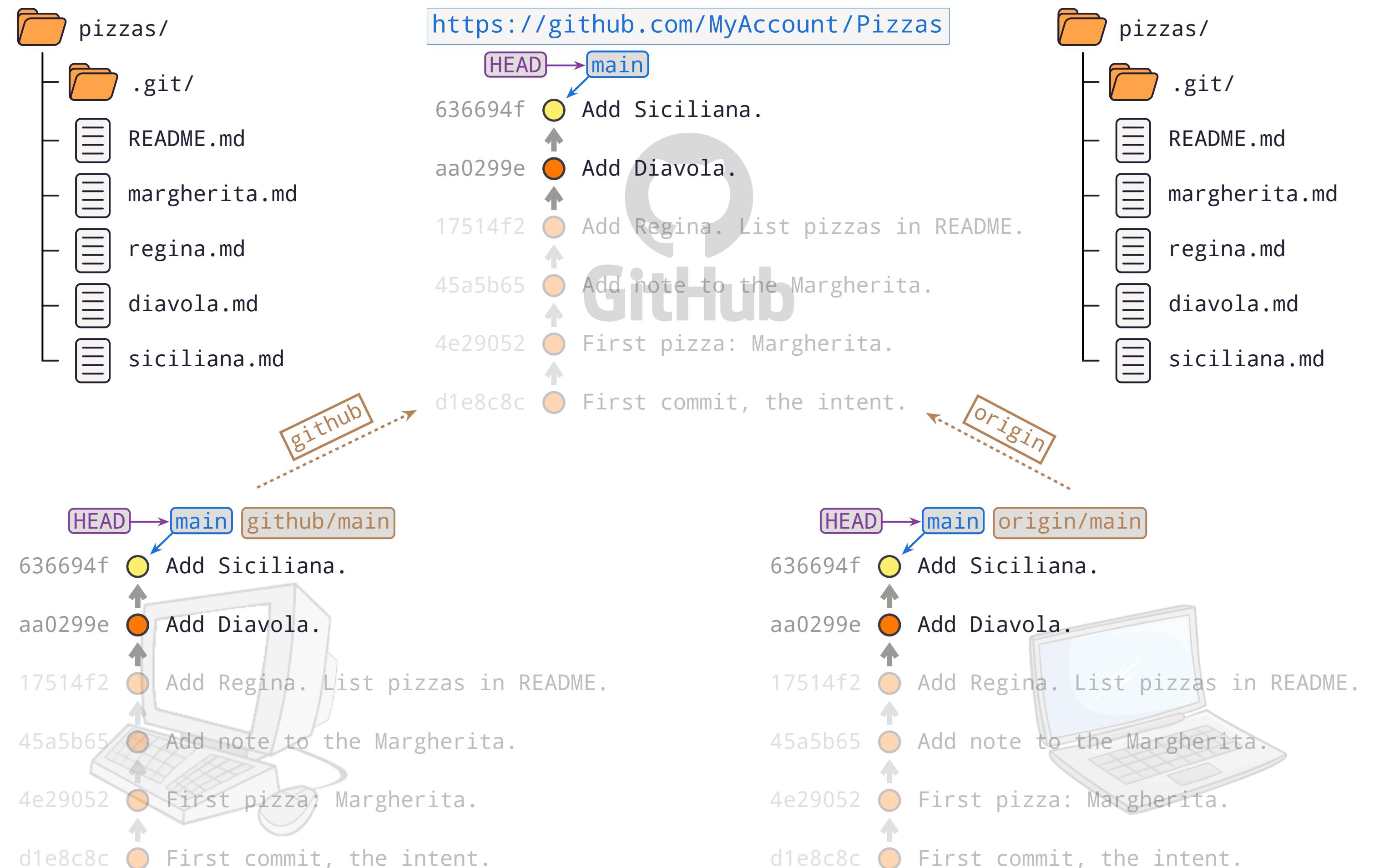
Collaborate

When you Diverge



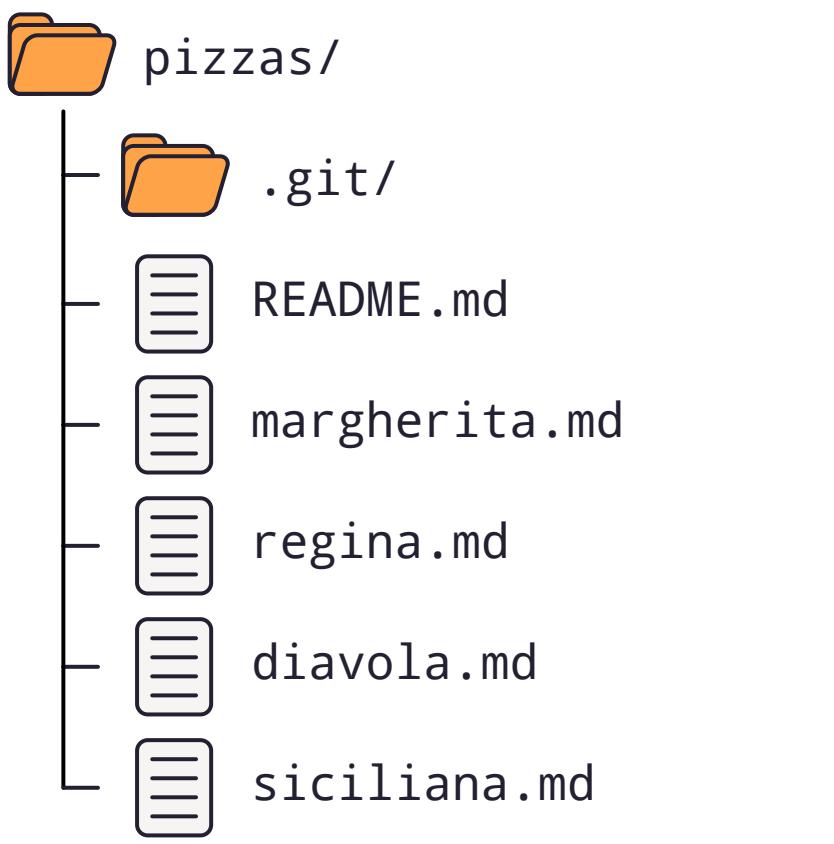
Collaborate

When you Diverge

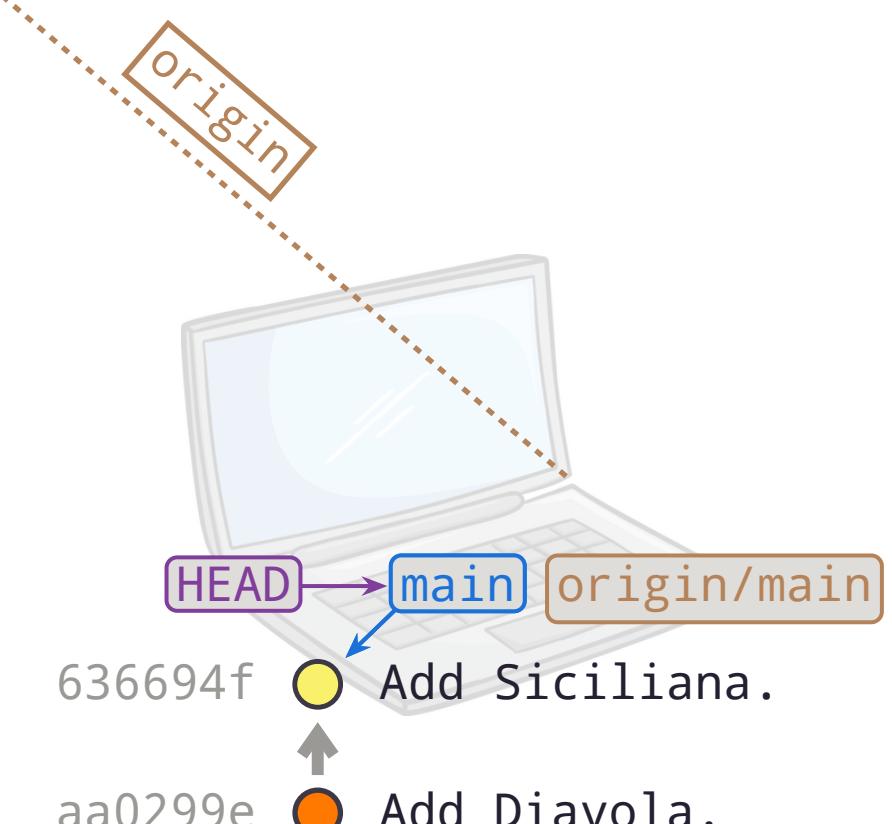
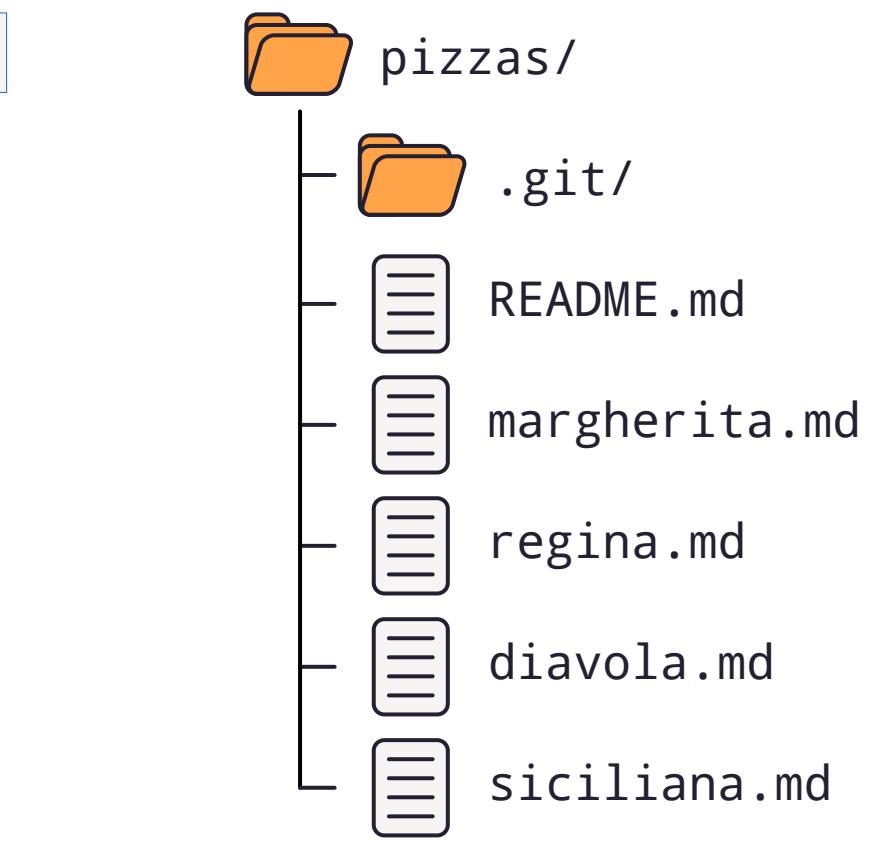
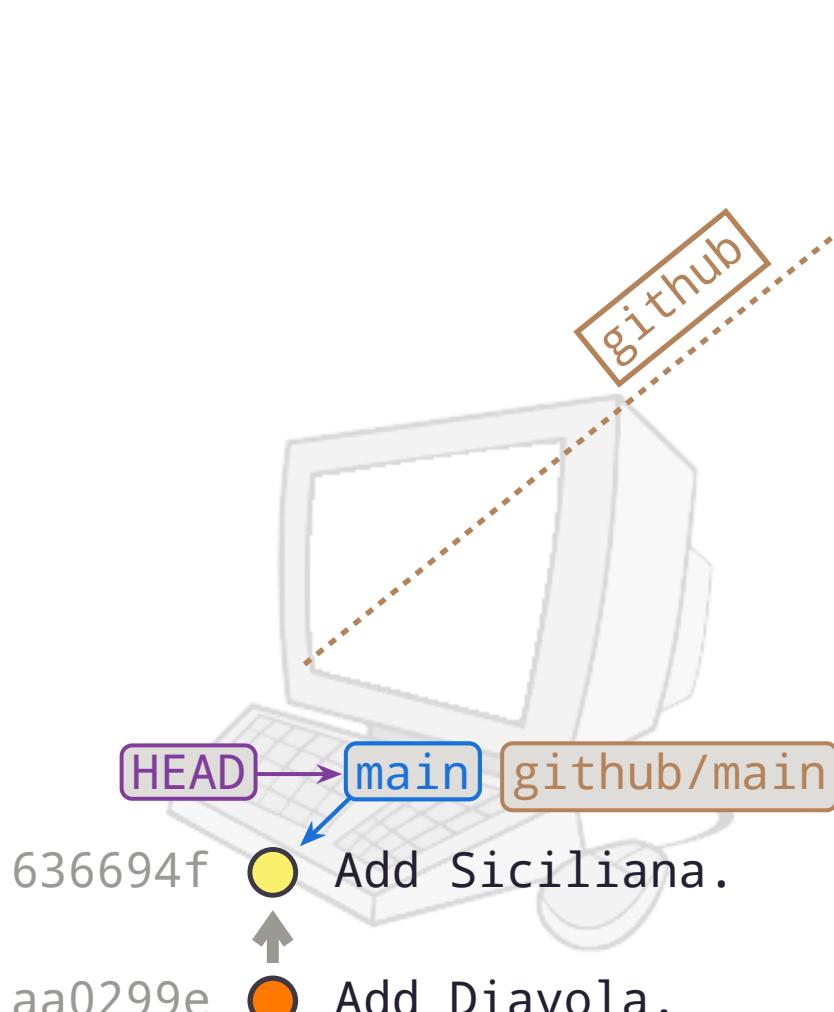
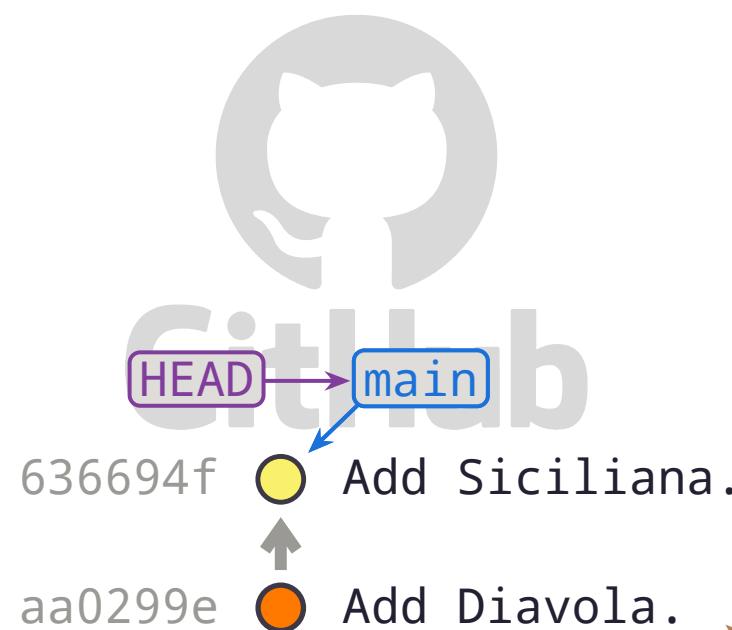


Collaborate

When you Diverge

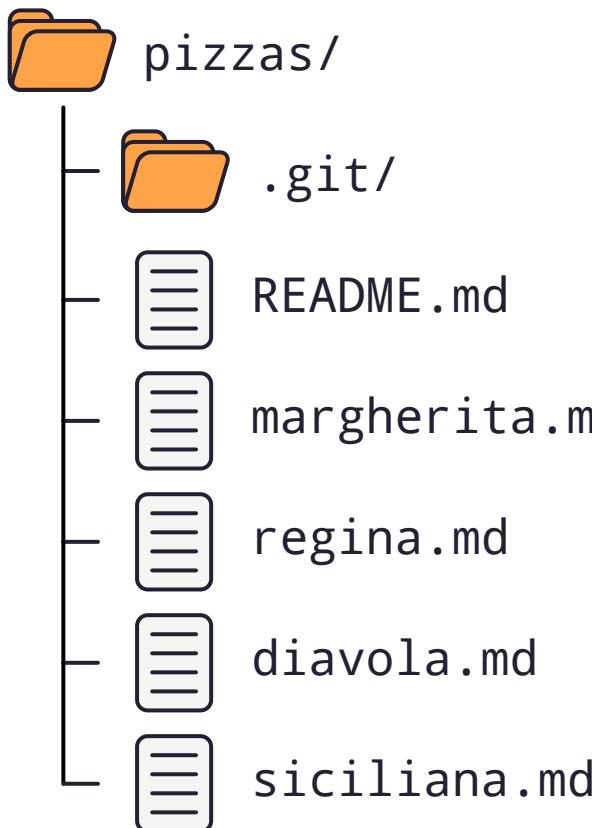


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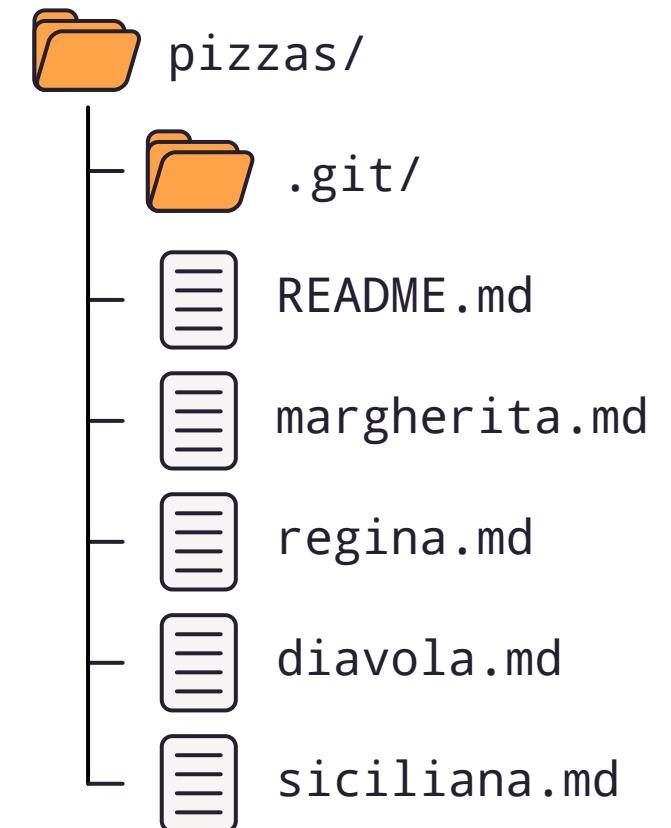
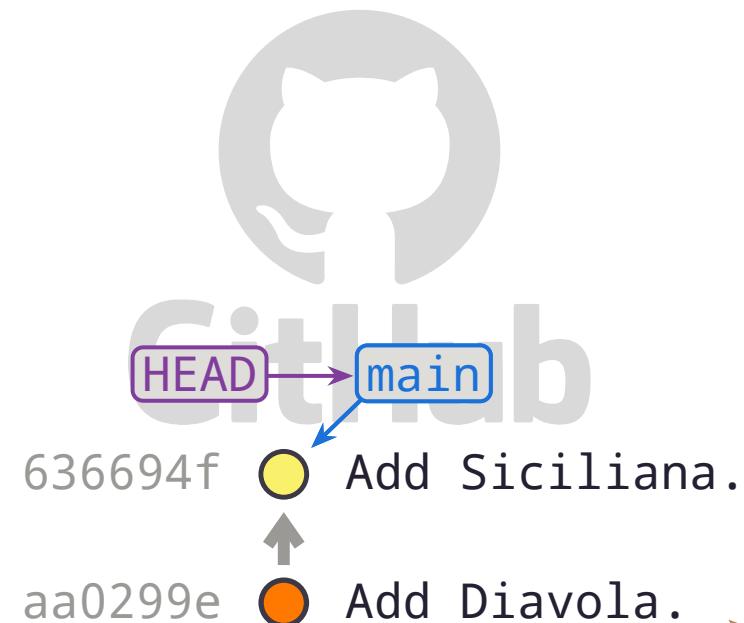


Collaborate

When you Diverge

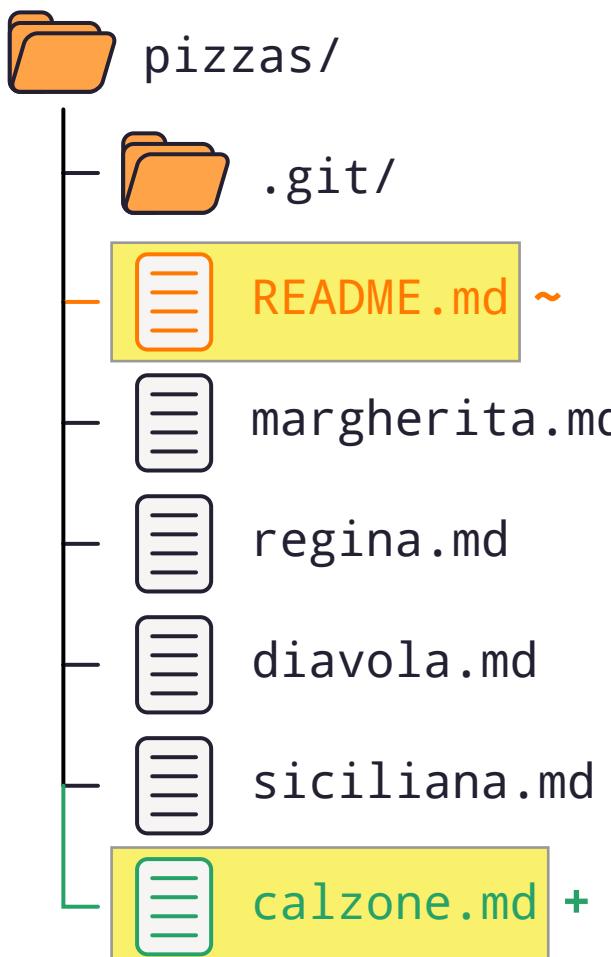


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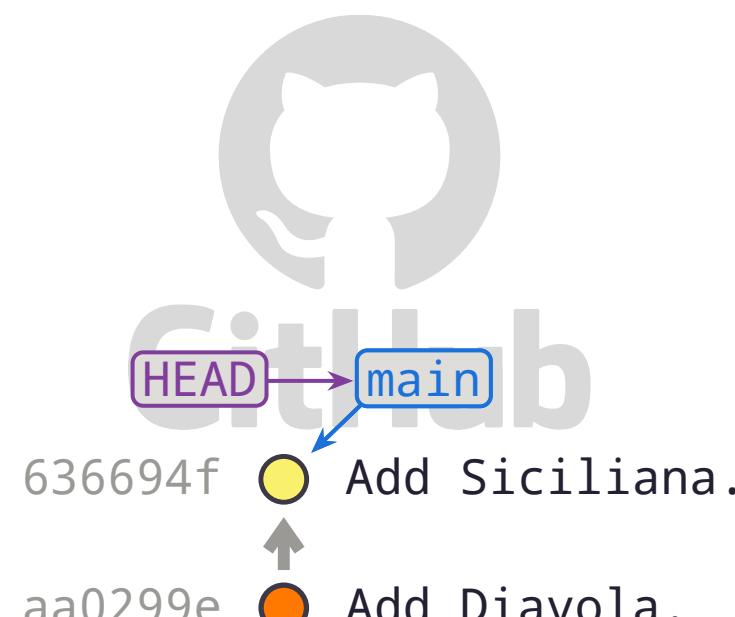


Collaborate

When you Diverge

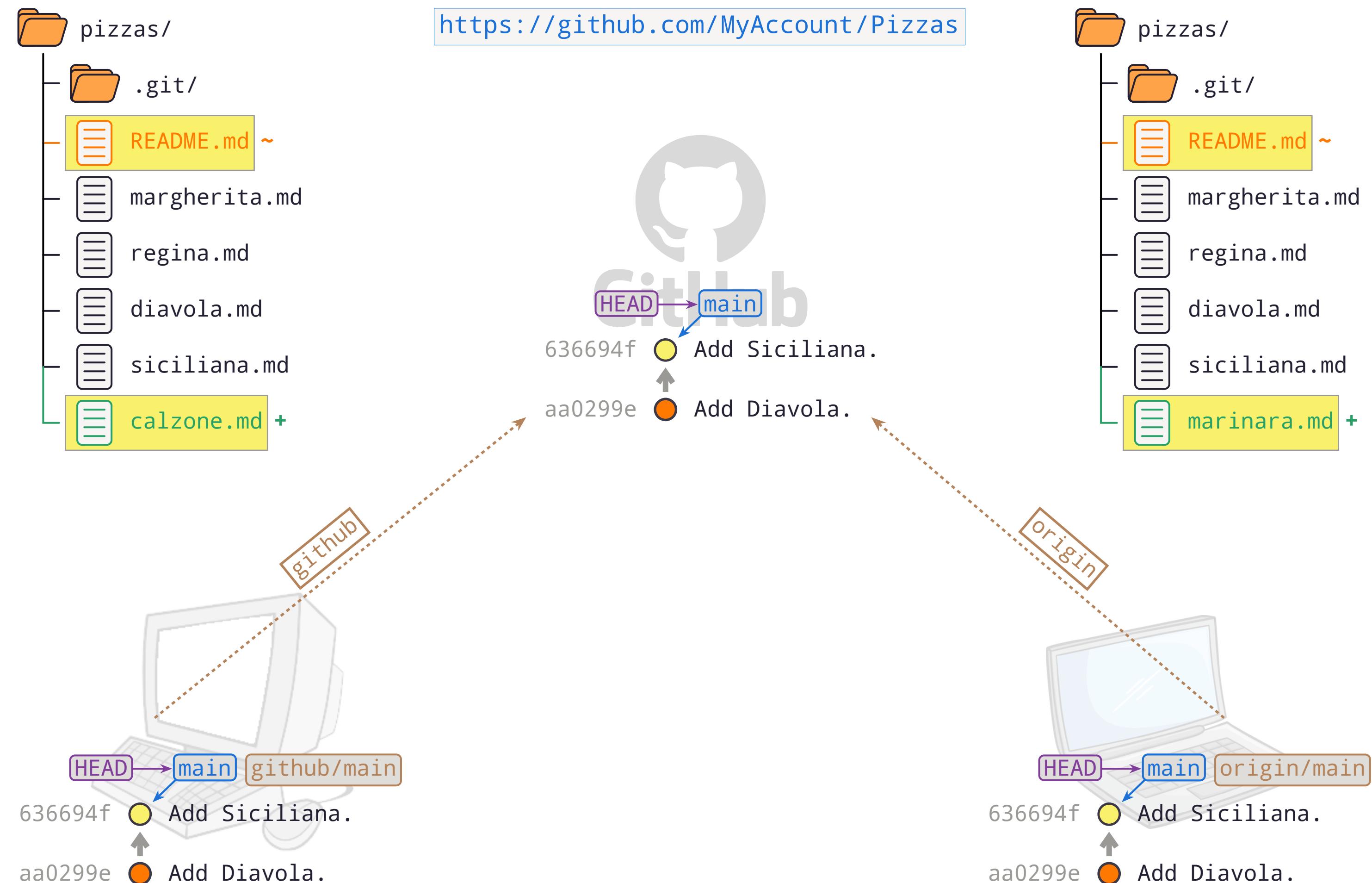


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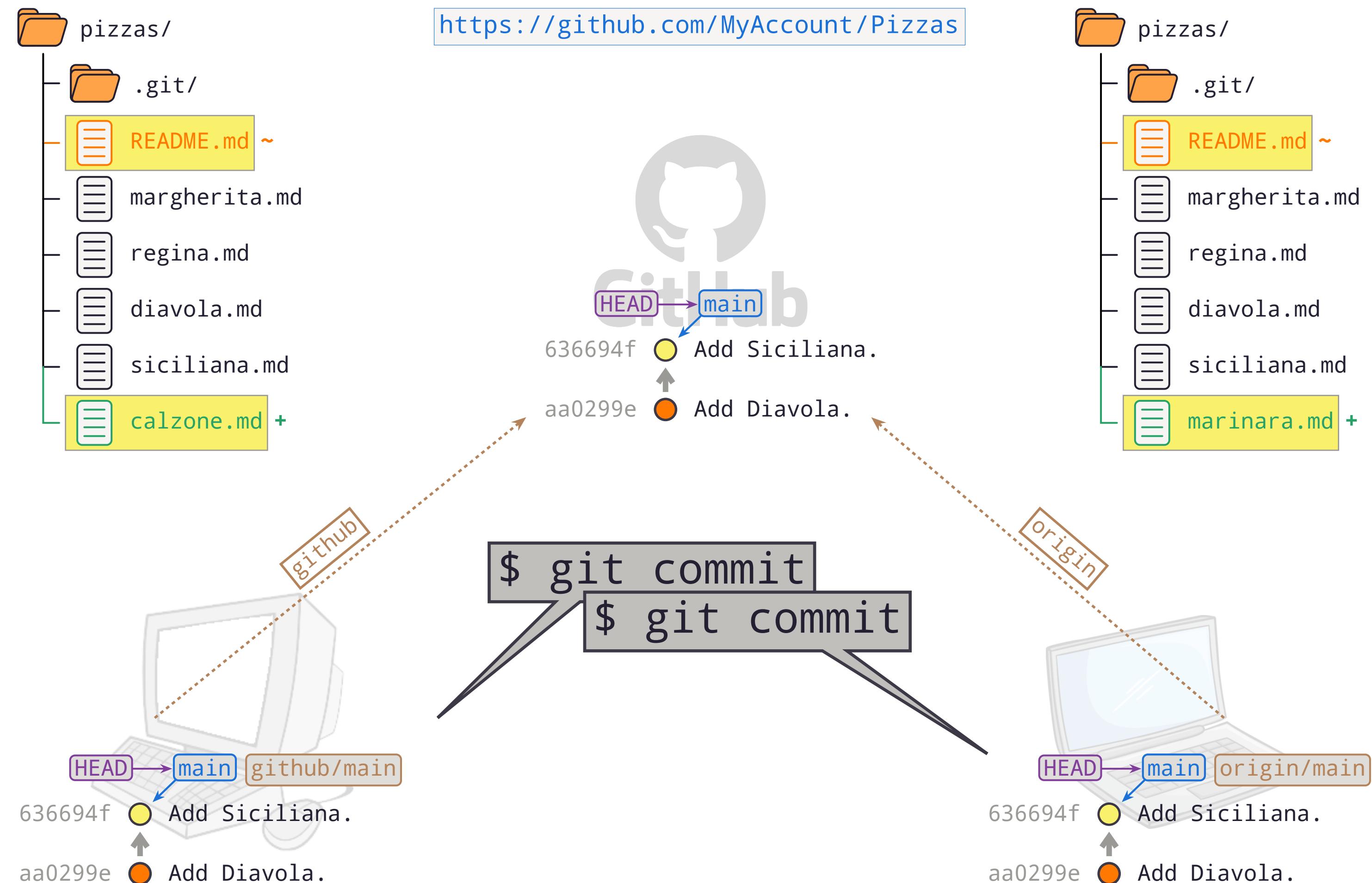
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When you Diverge



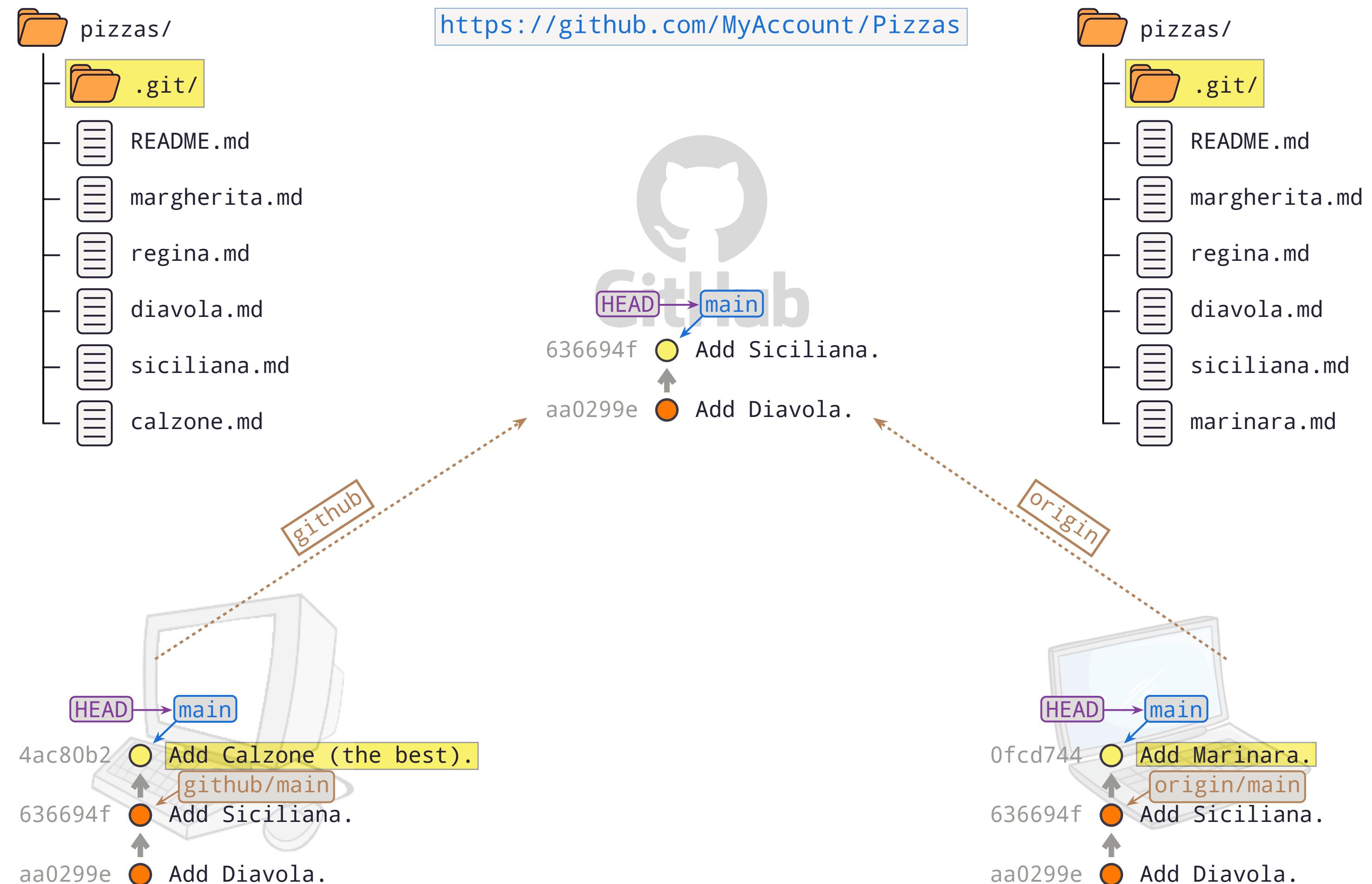
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When you Diverge



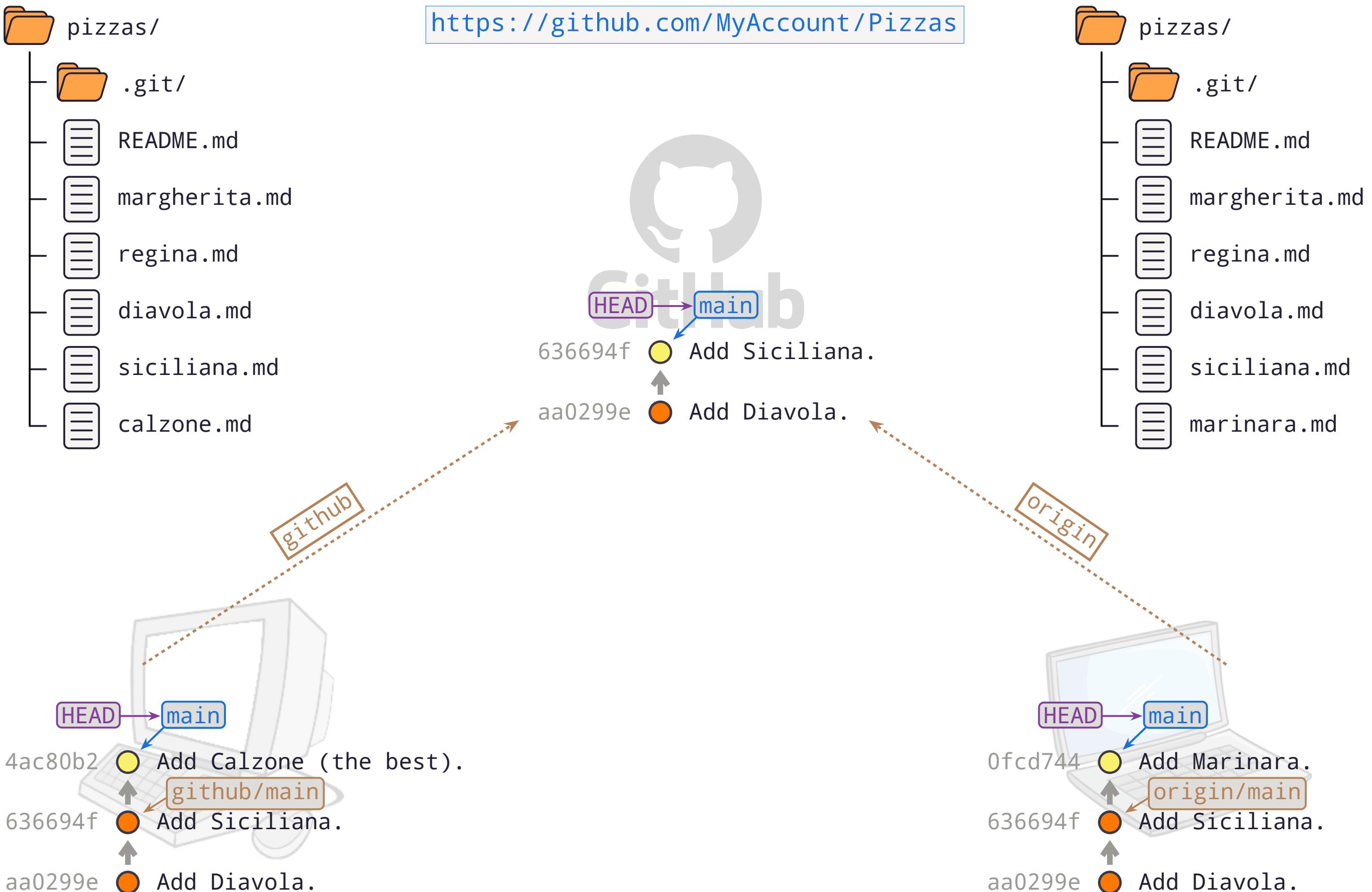
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When you Diverge



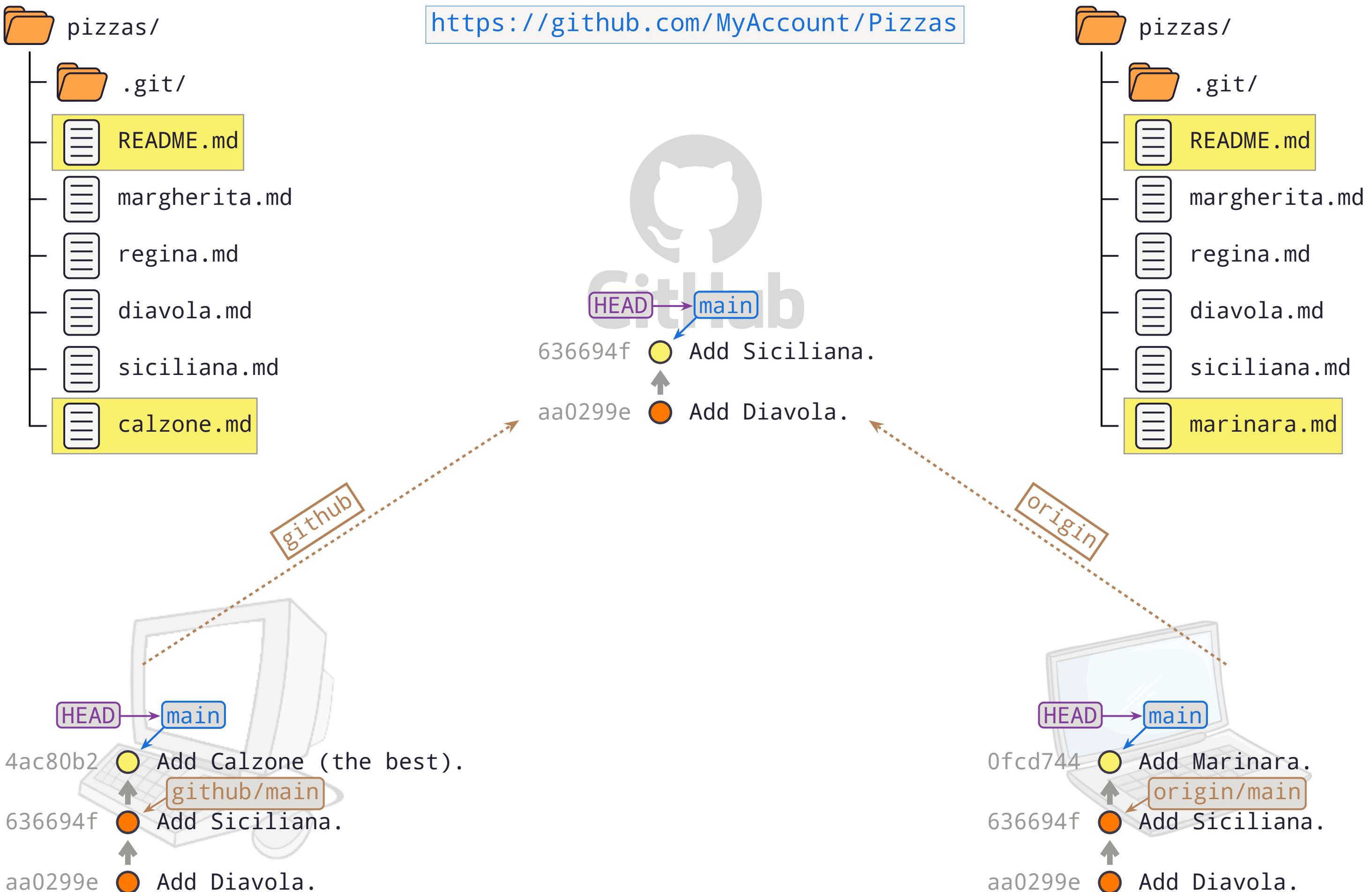
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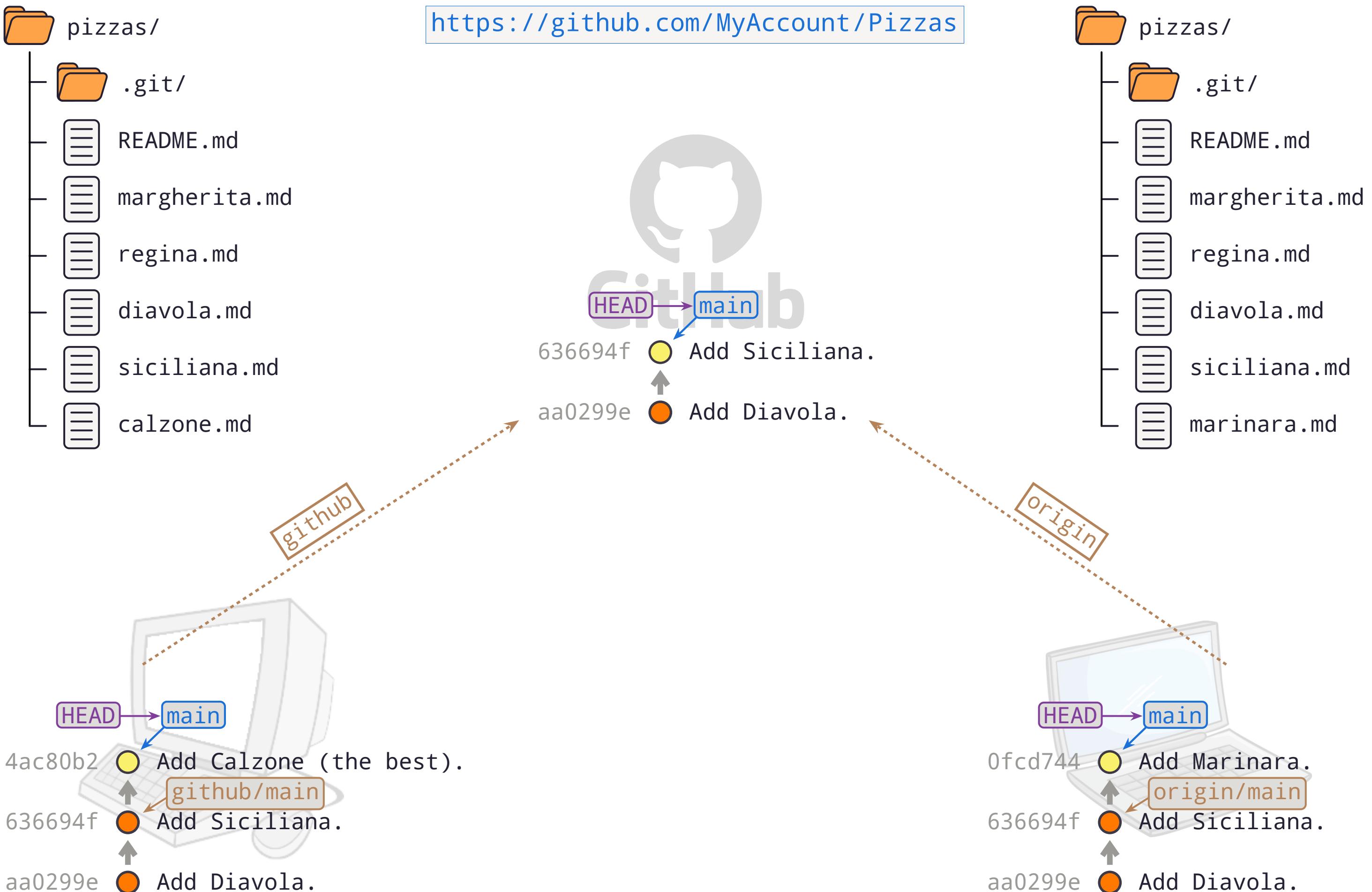
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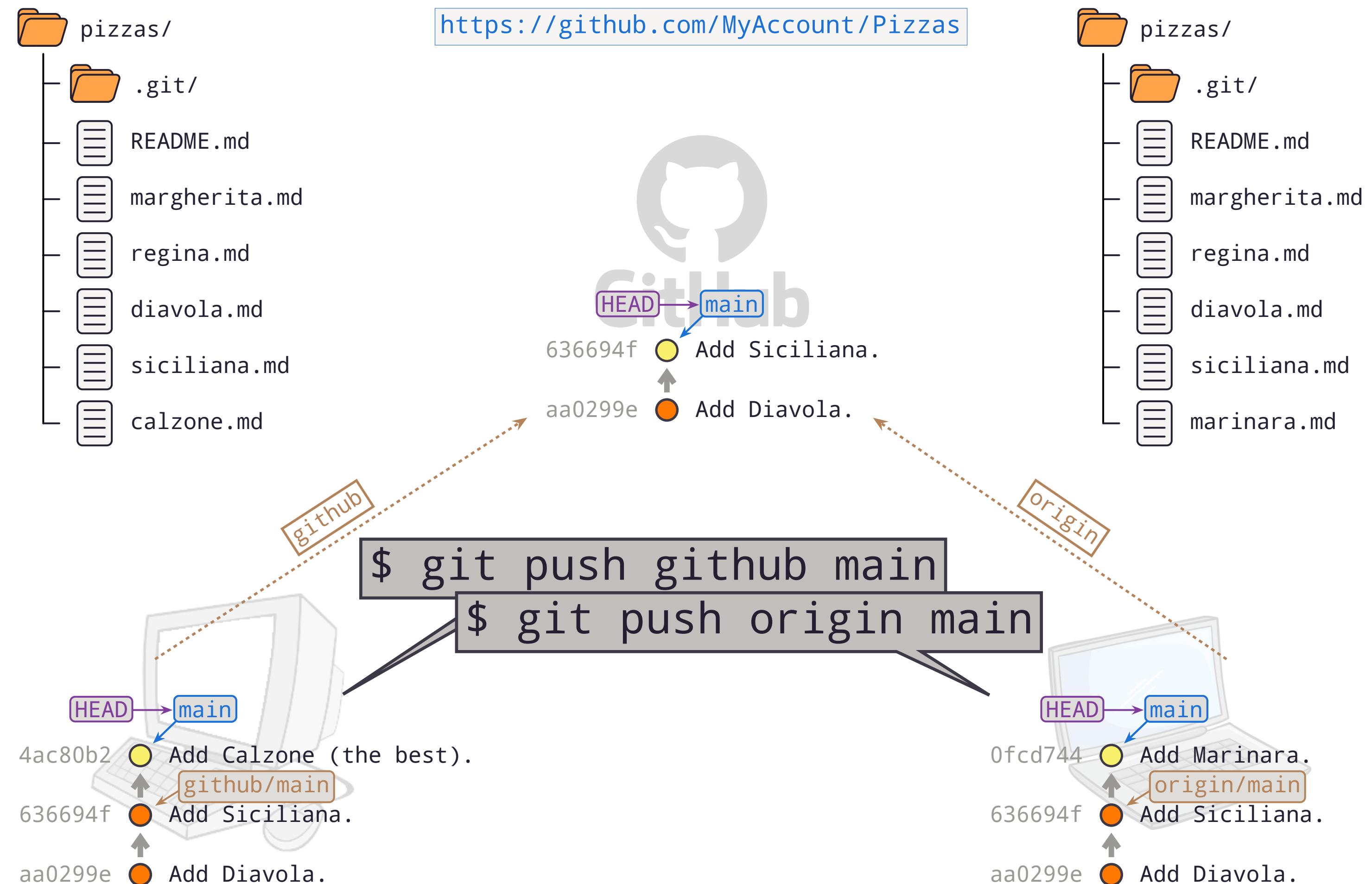
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When you Diverge



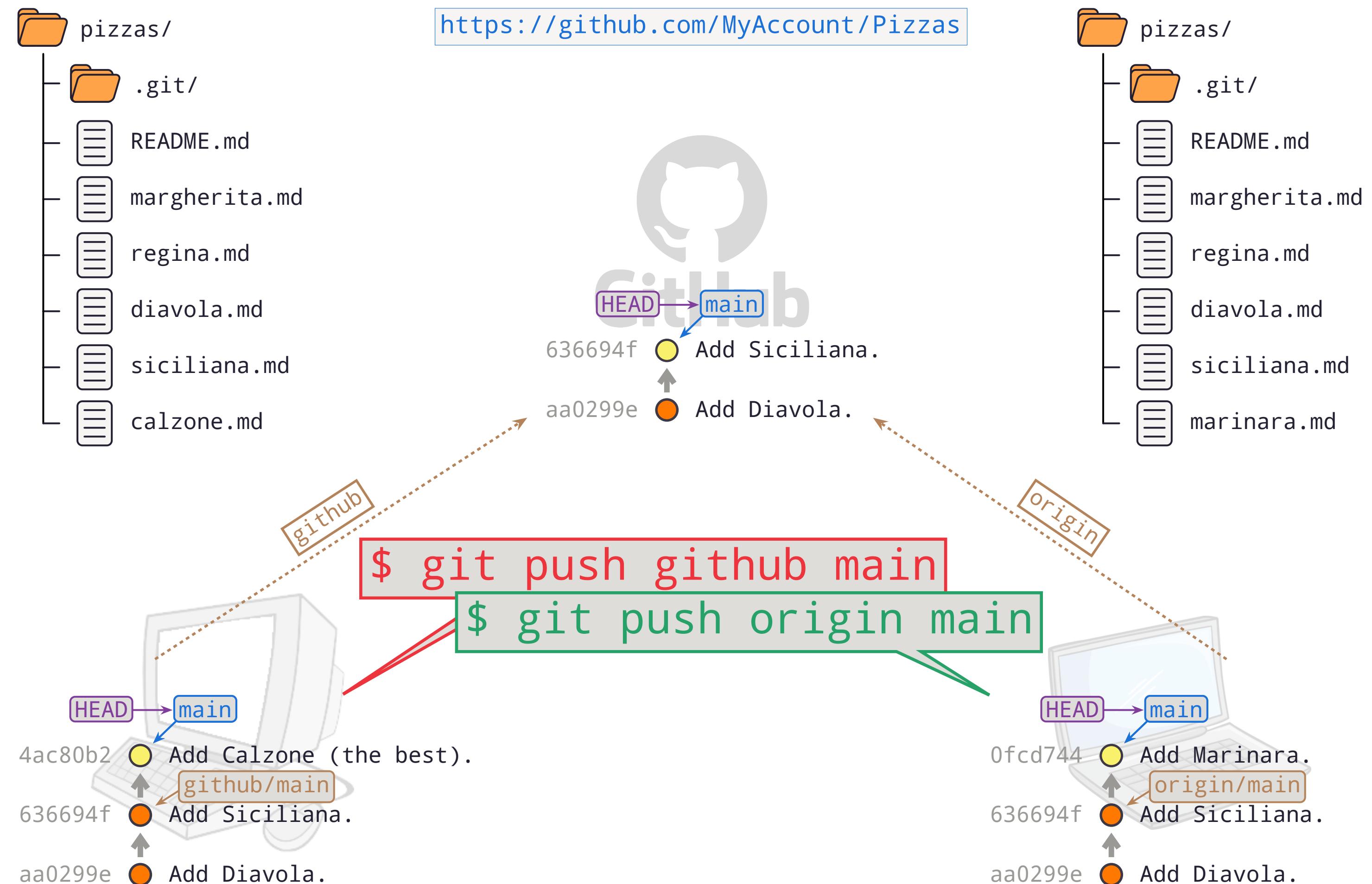
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When you Diverge



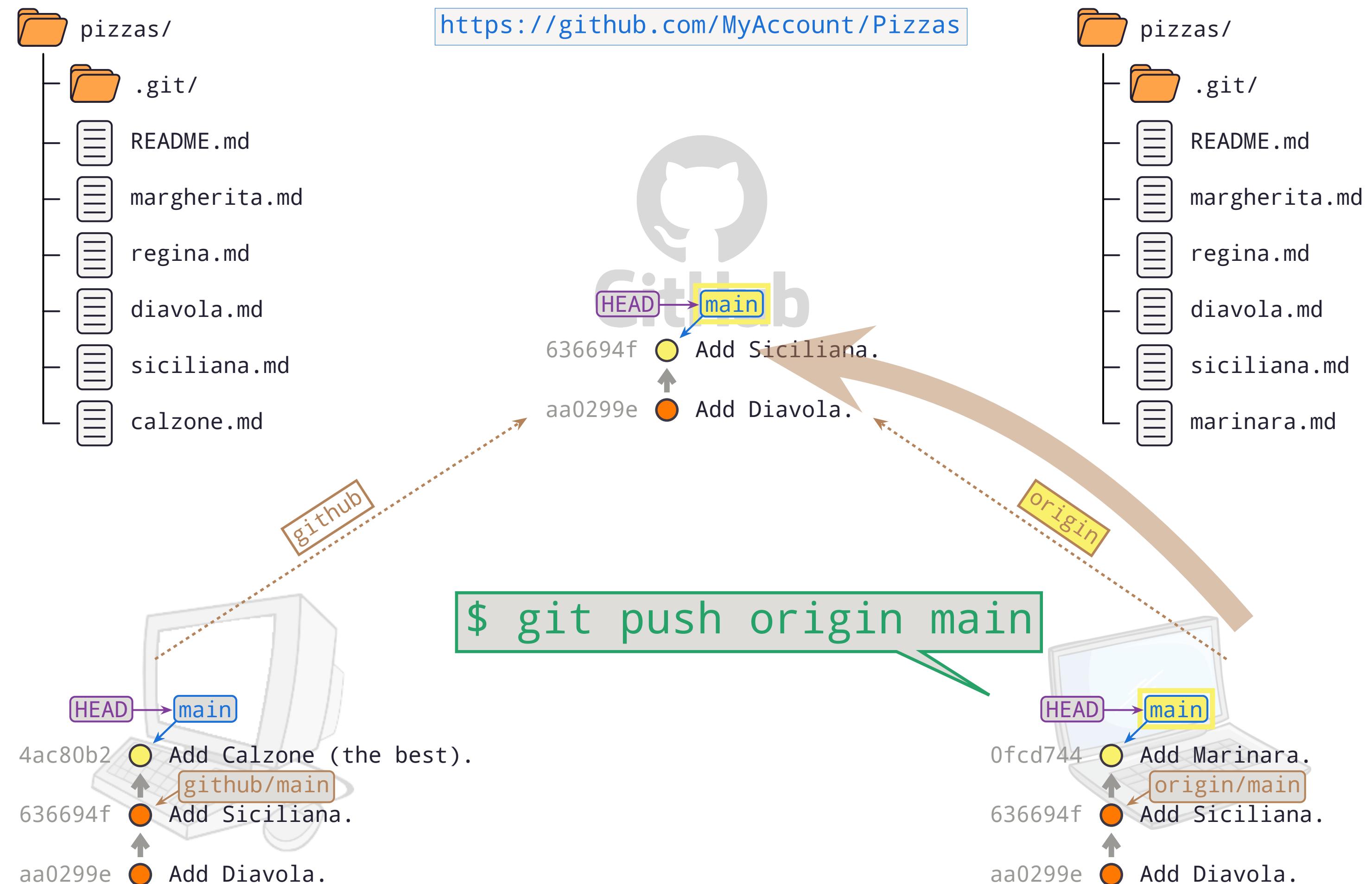
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When you Diverge



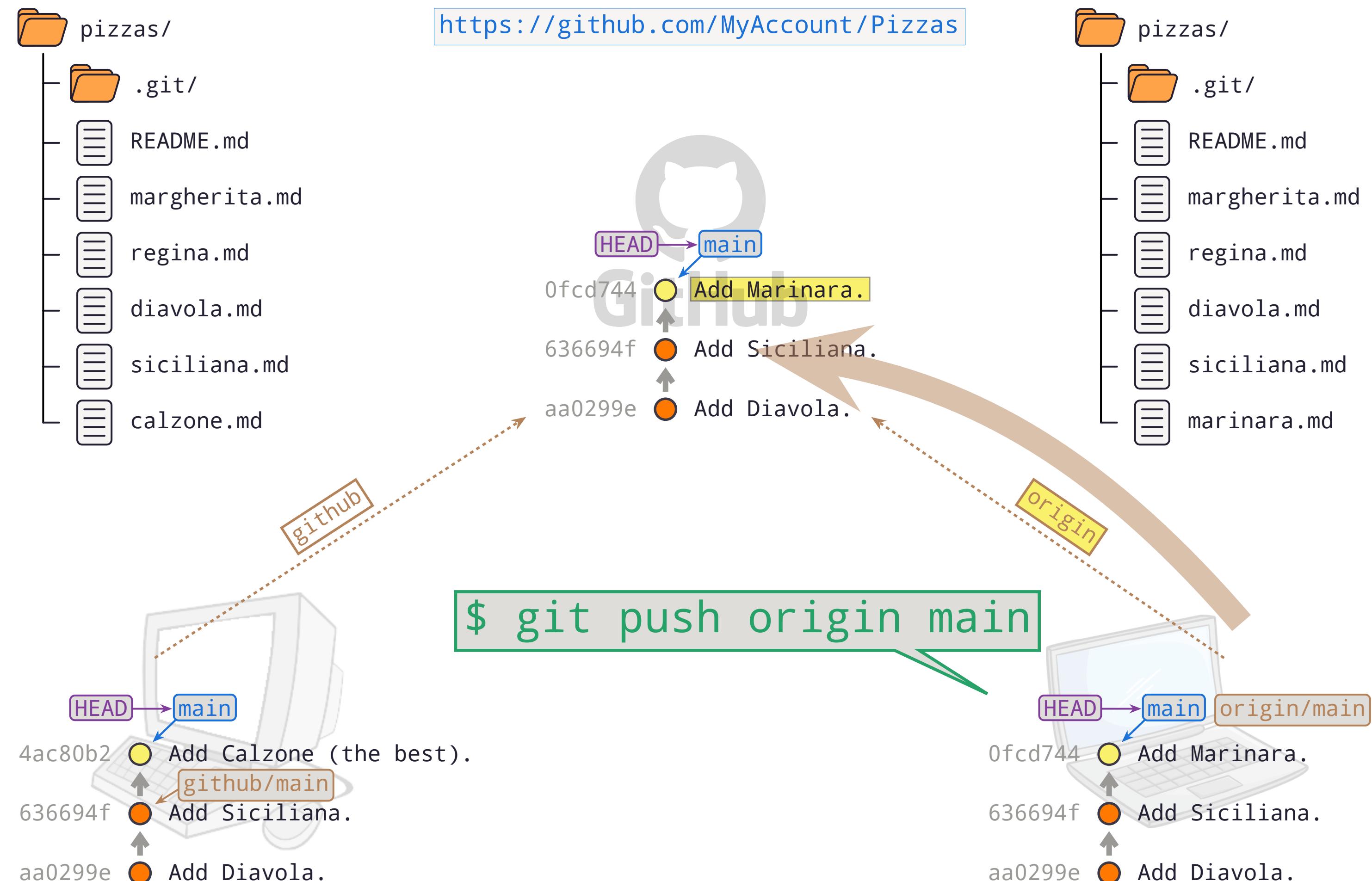
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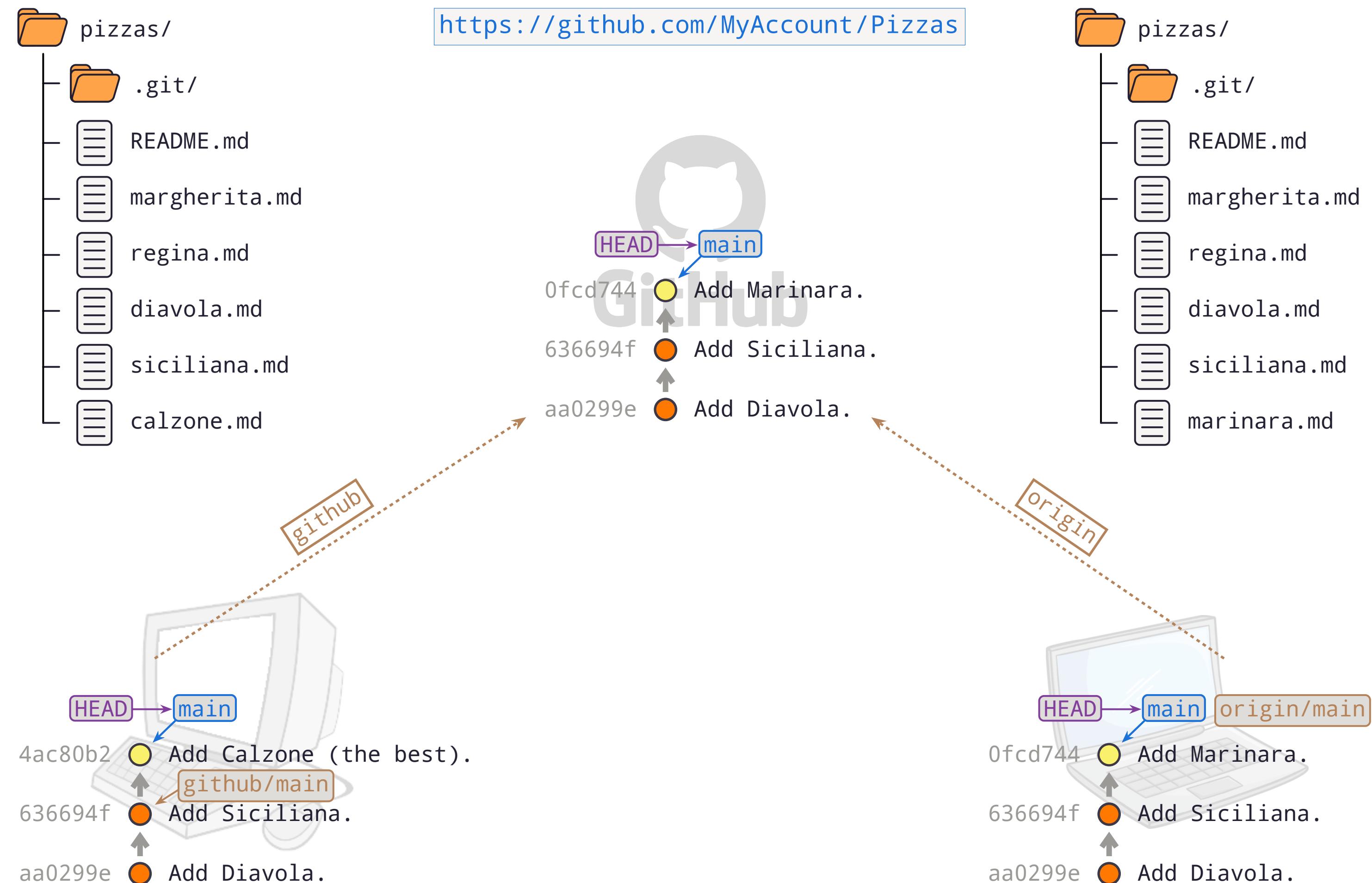
Collaborate

When you Diverge



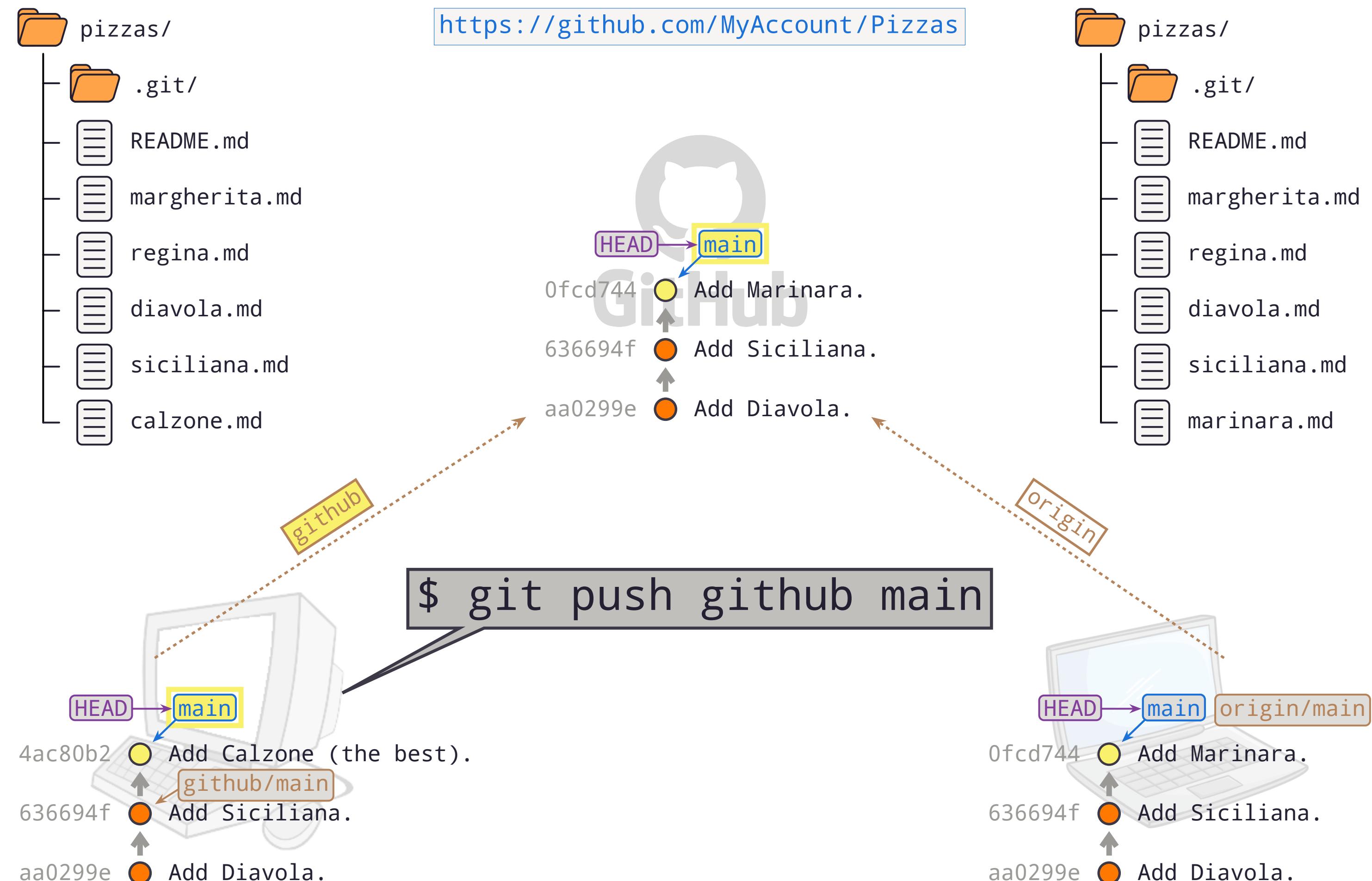
Collaborate

When you Diverge



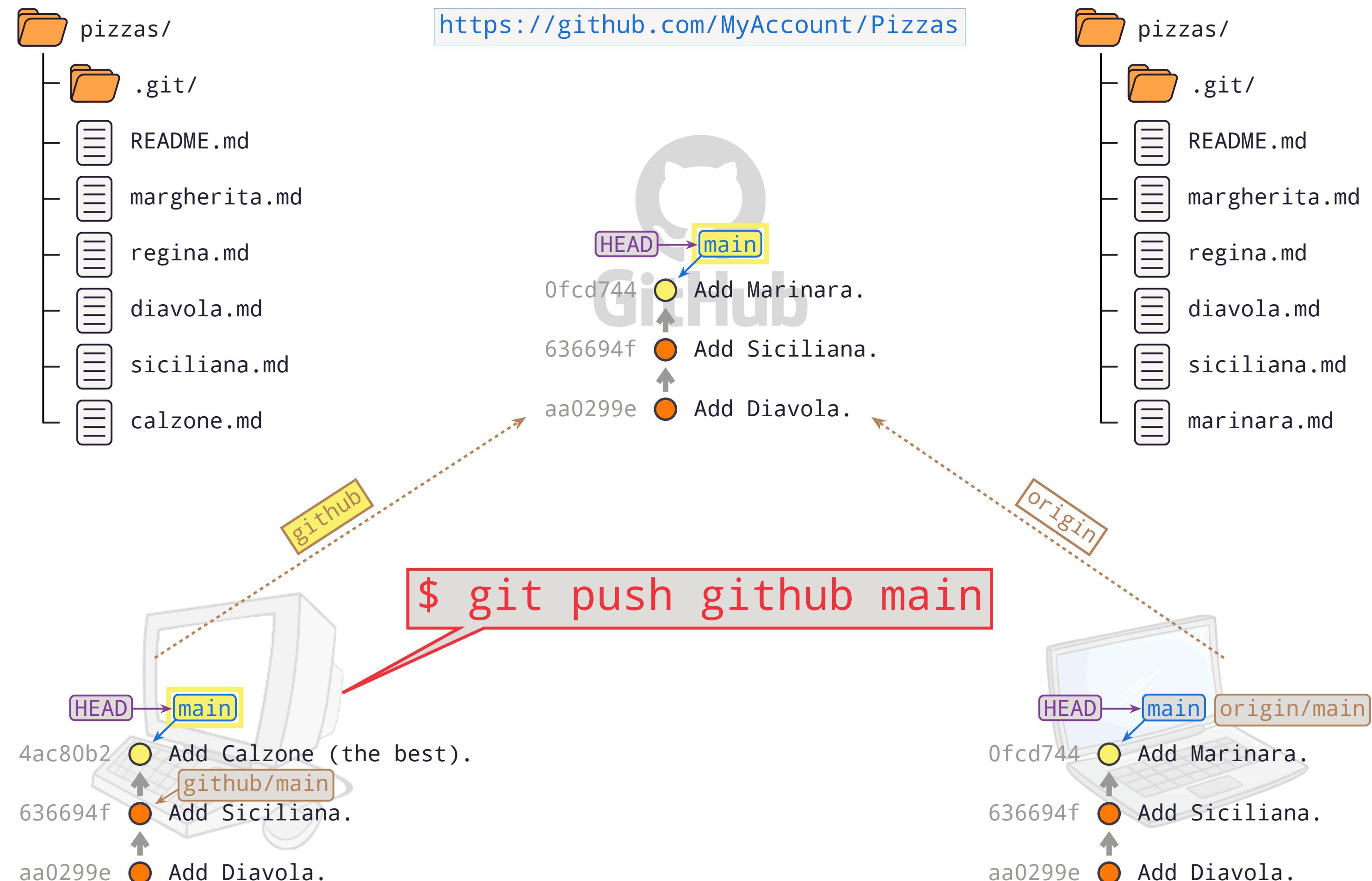
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When you Diverge



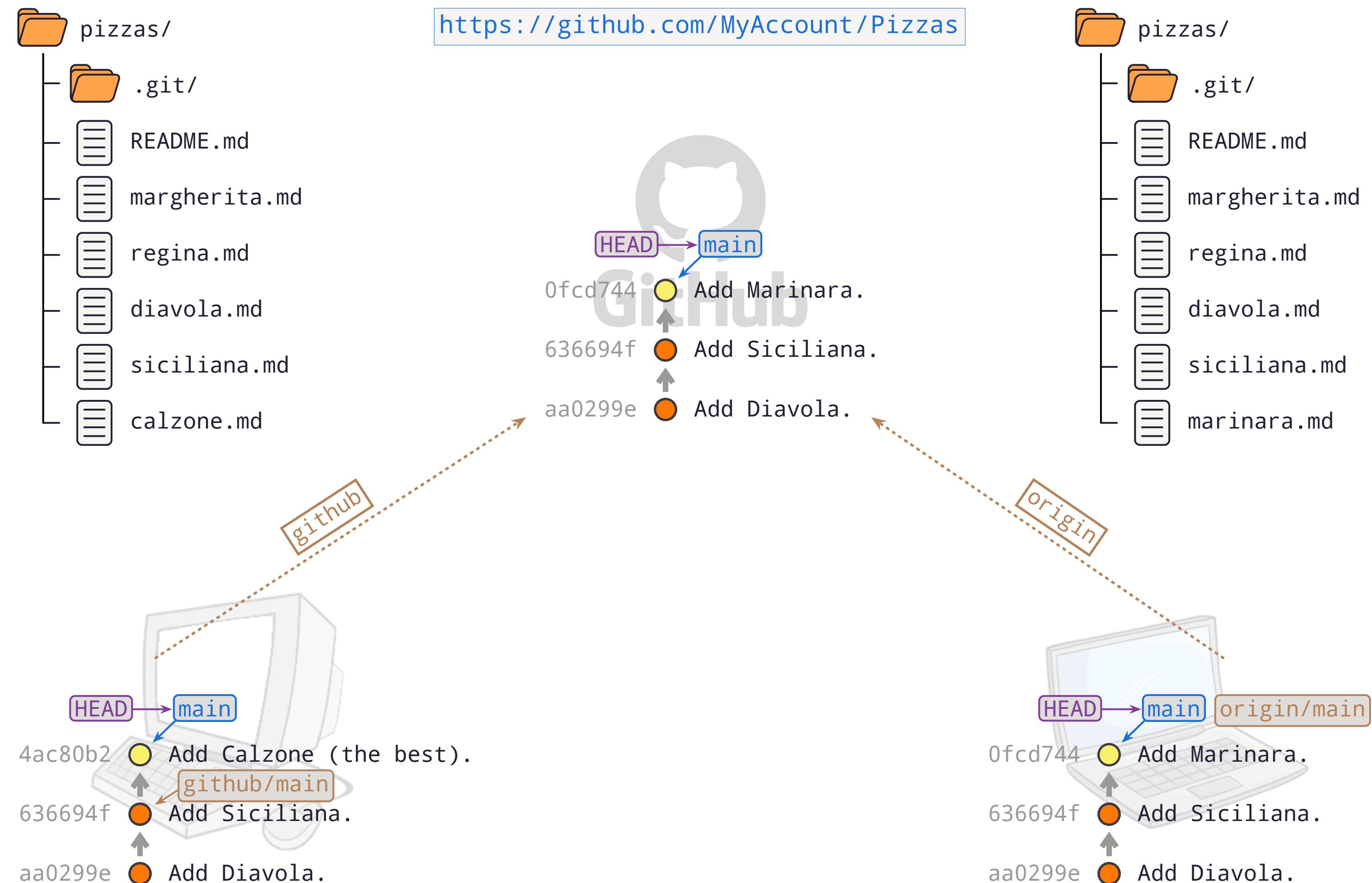
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When you Diverge



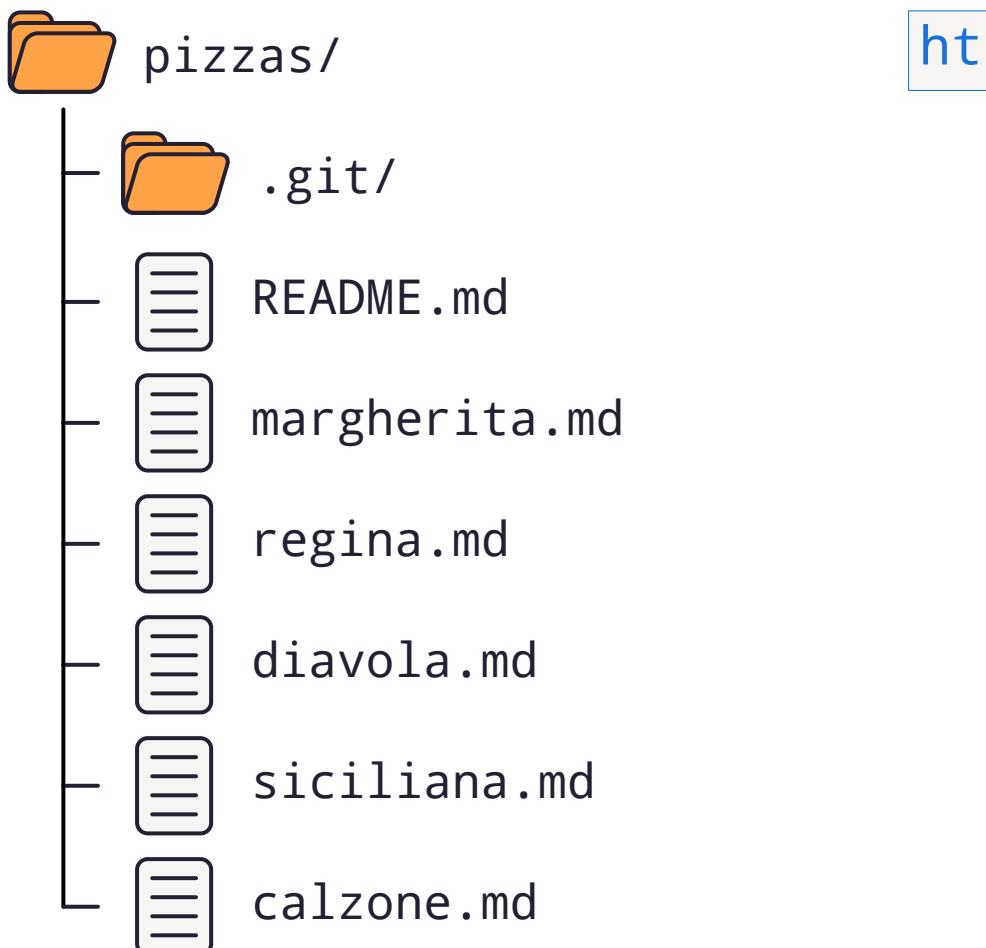
Collaborate

When you Diverge

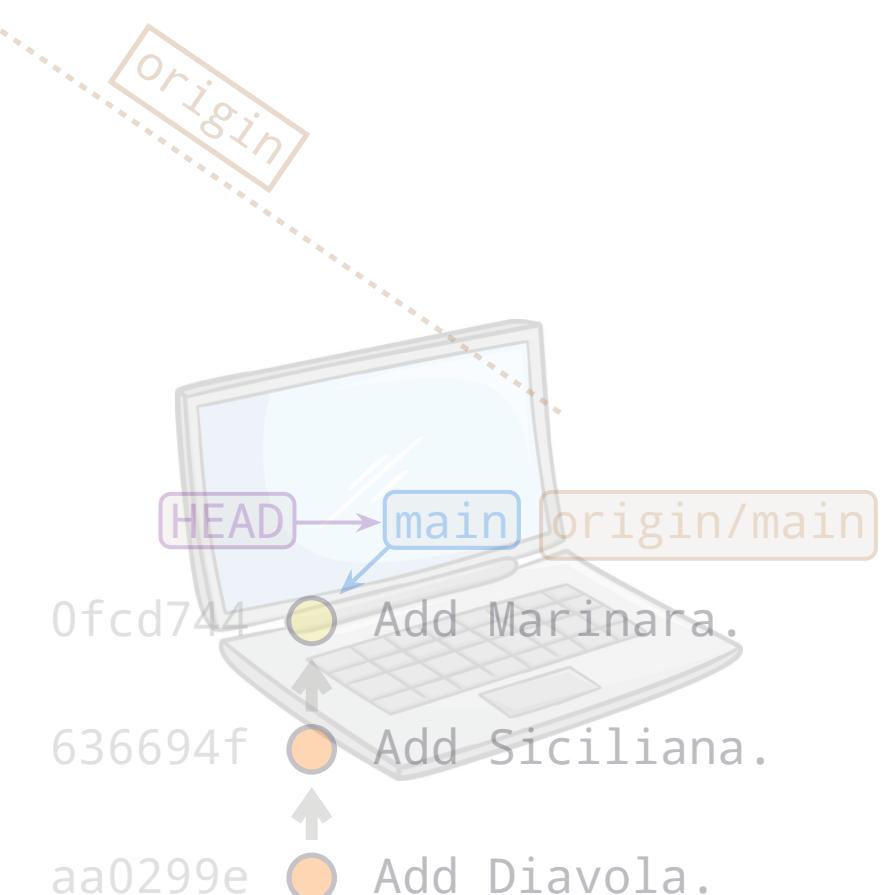
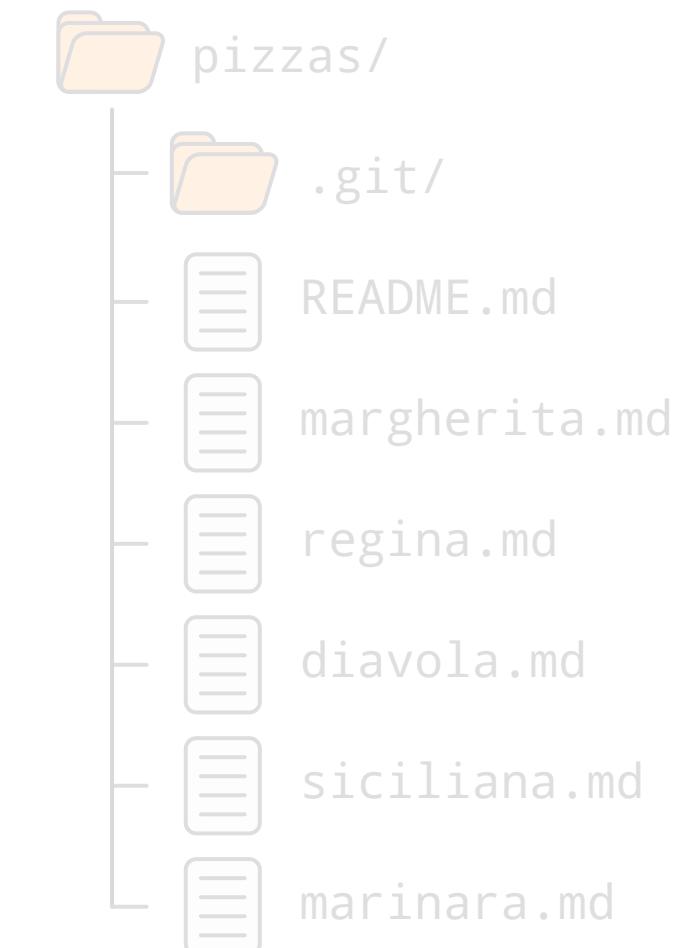
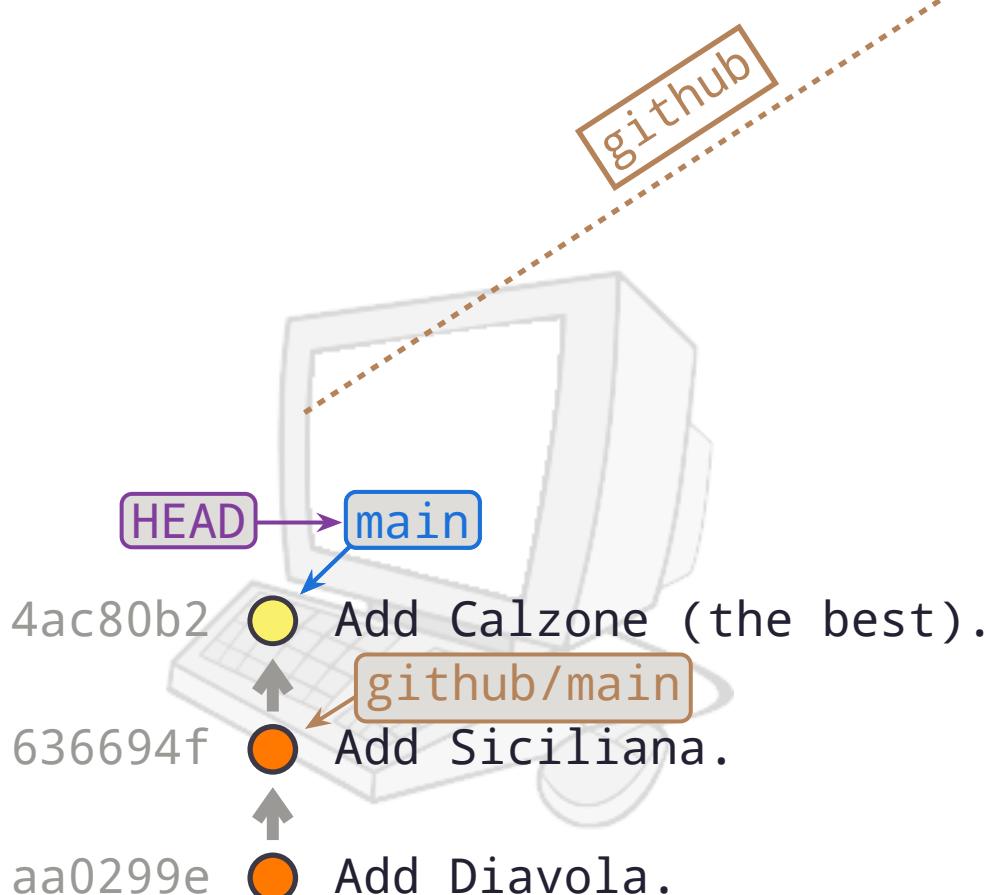
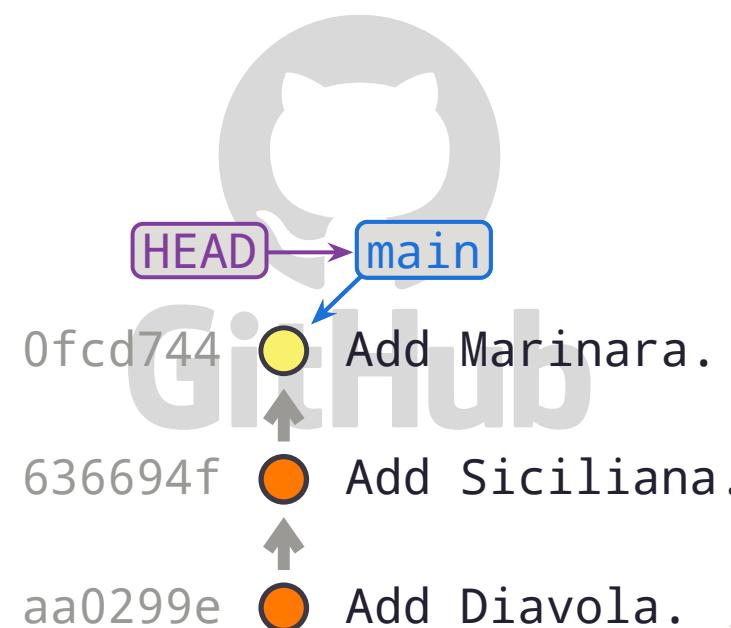


Collaborate

When you Diverge

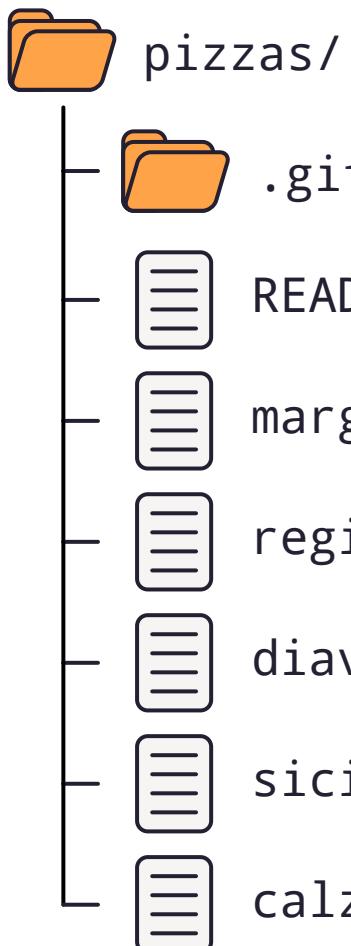


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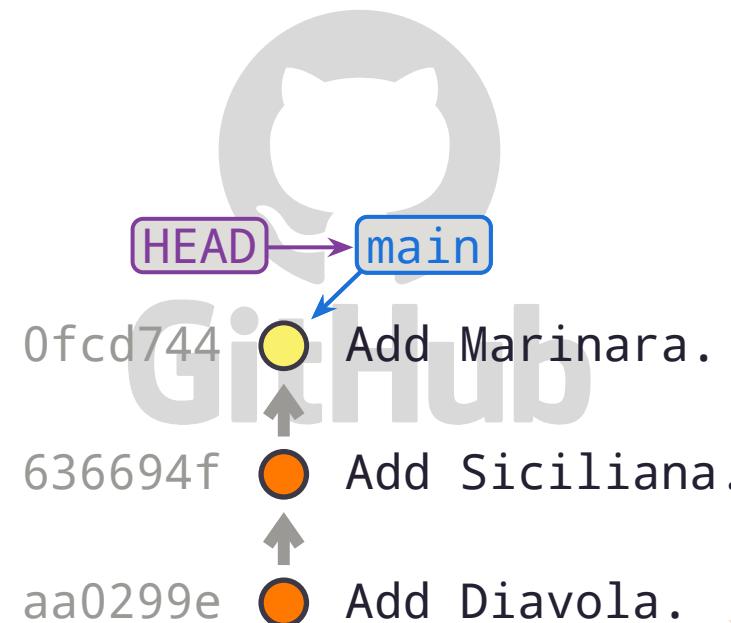


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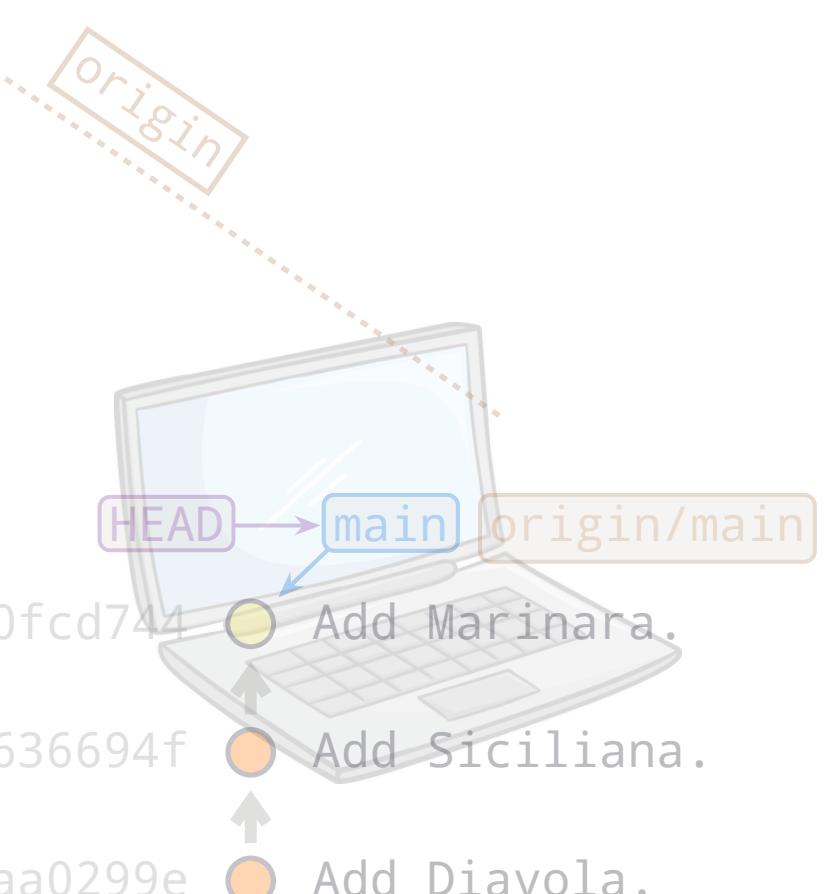
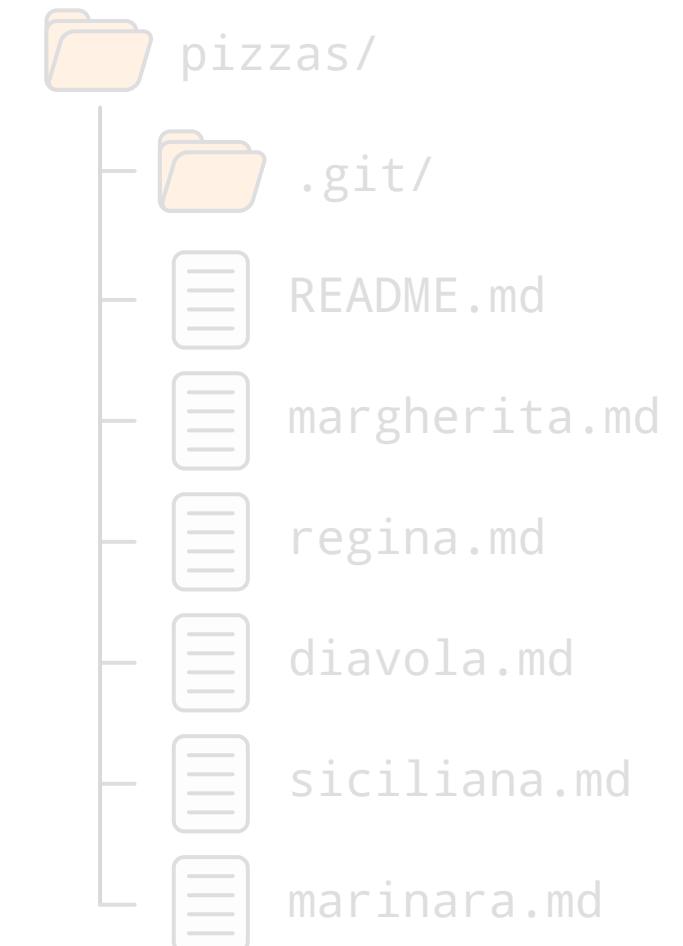
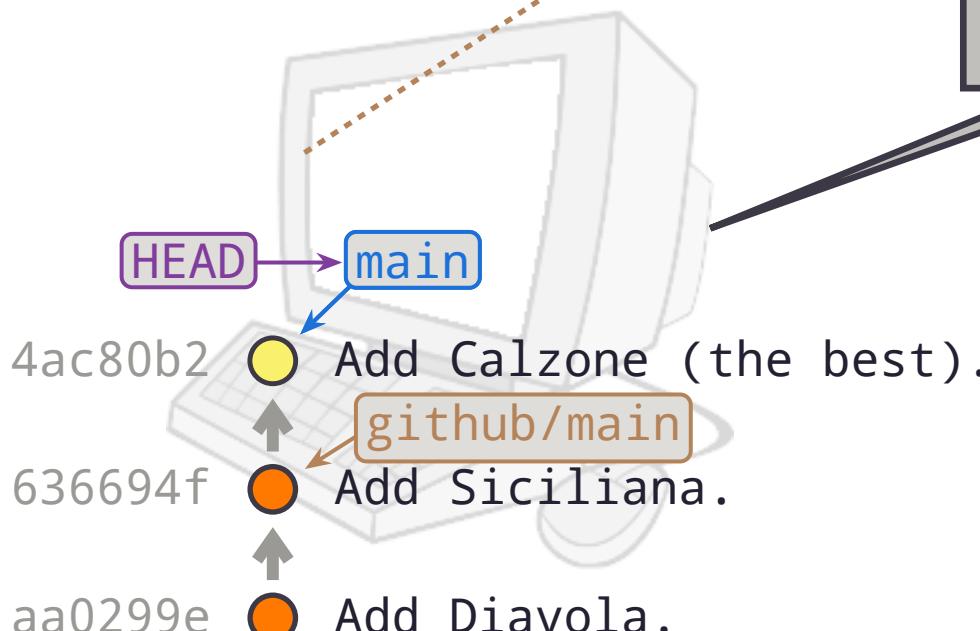
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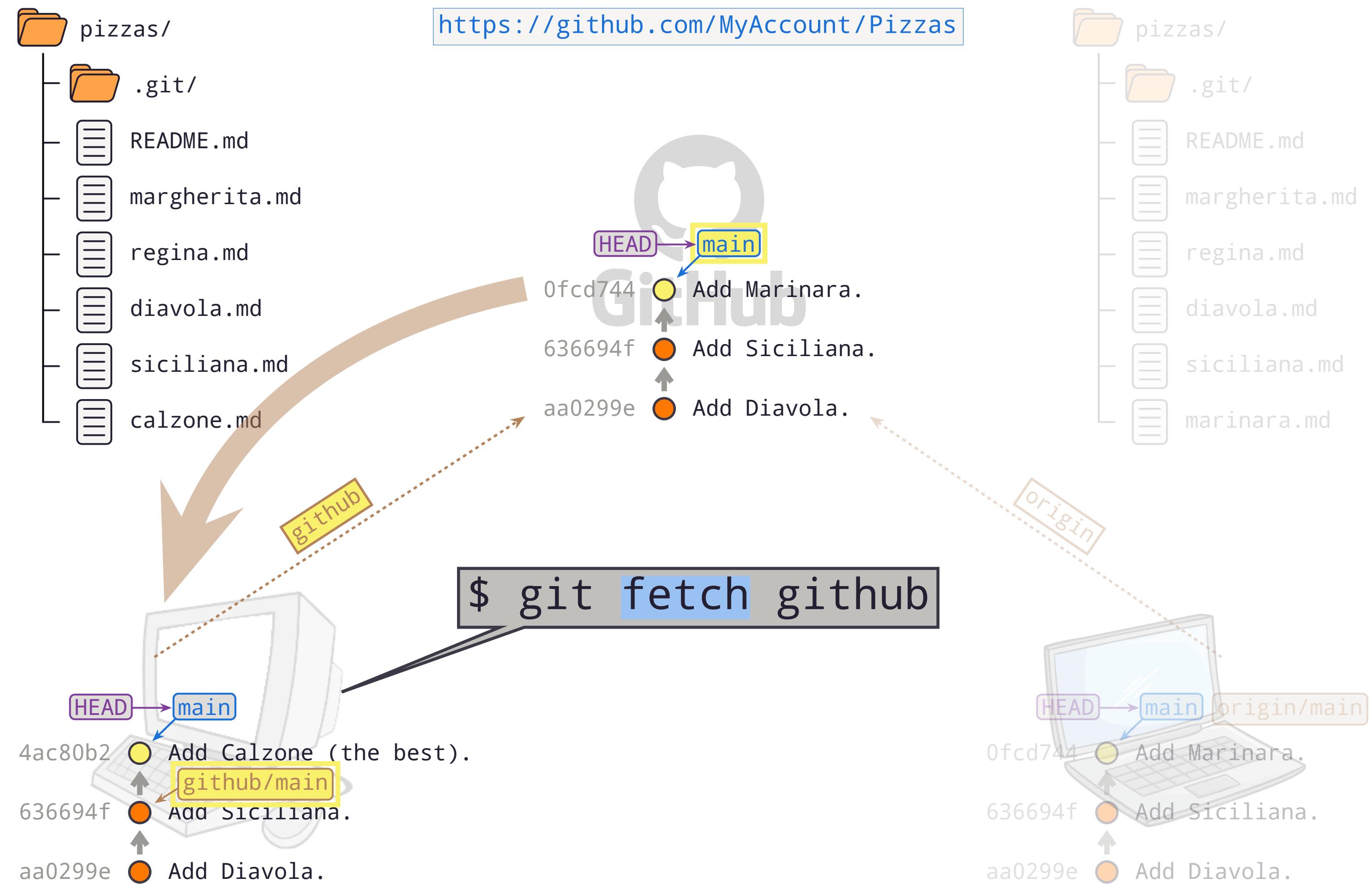


\$ git fetch github



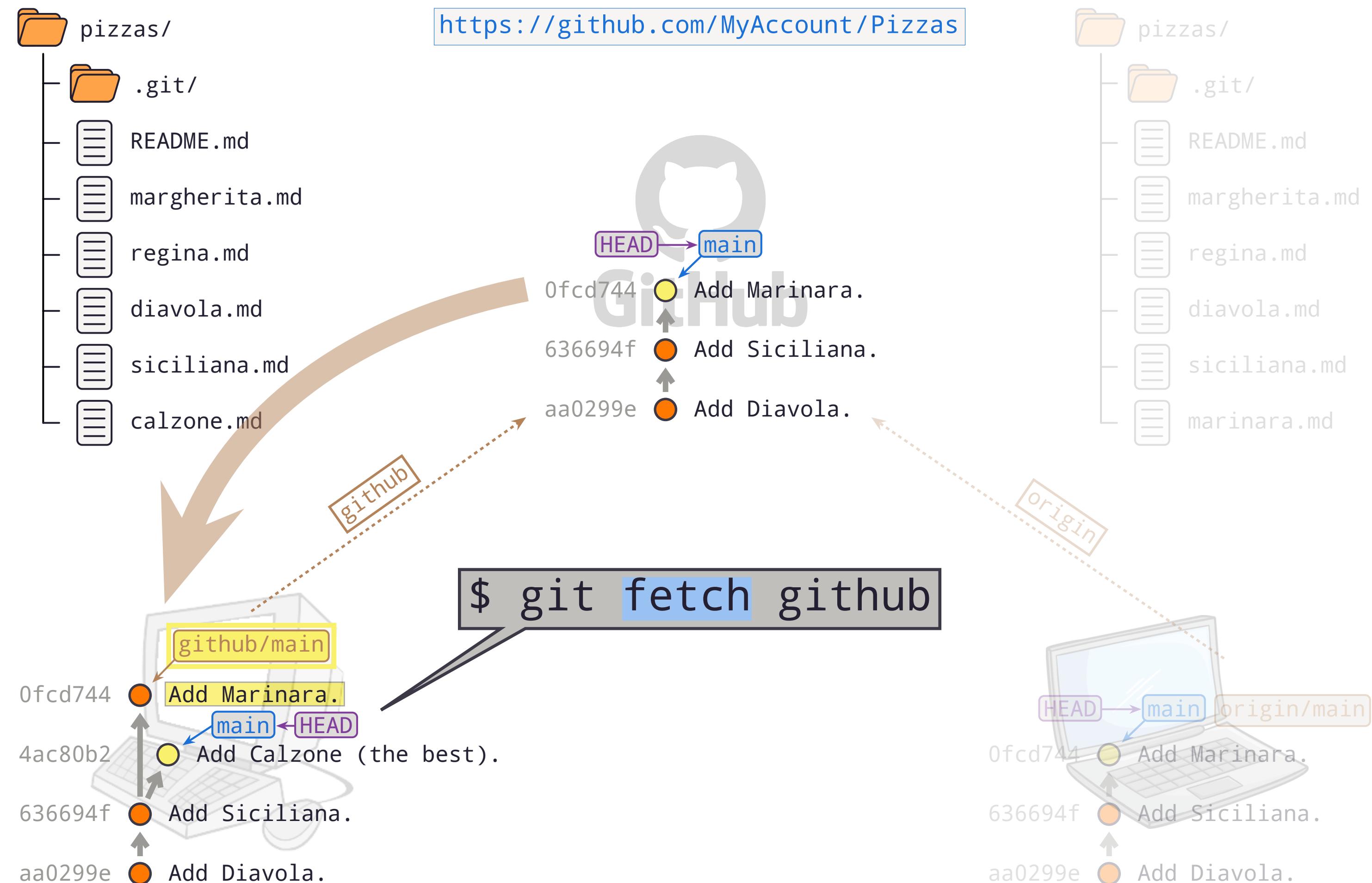
Collaborate

When you Diverge



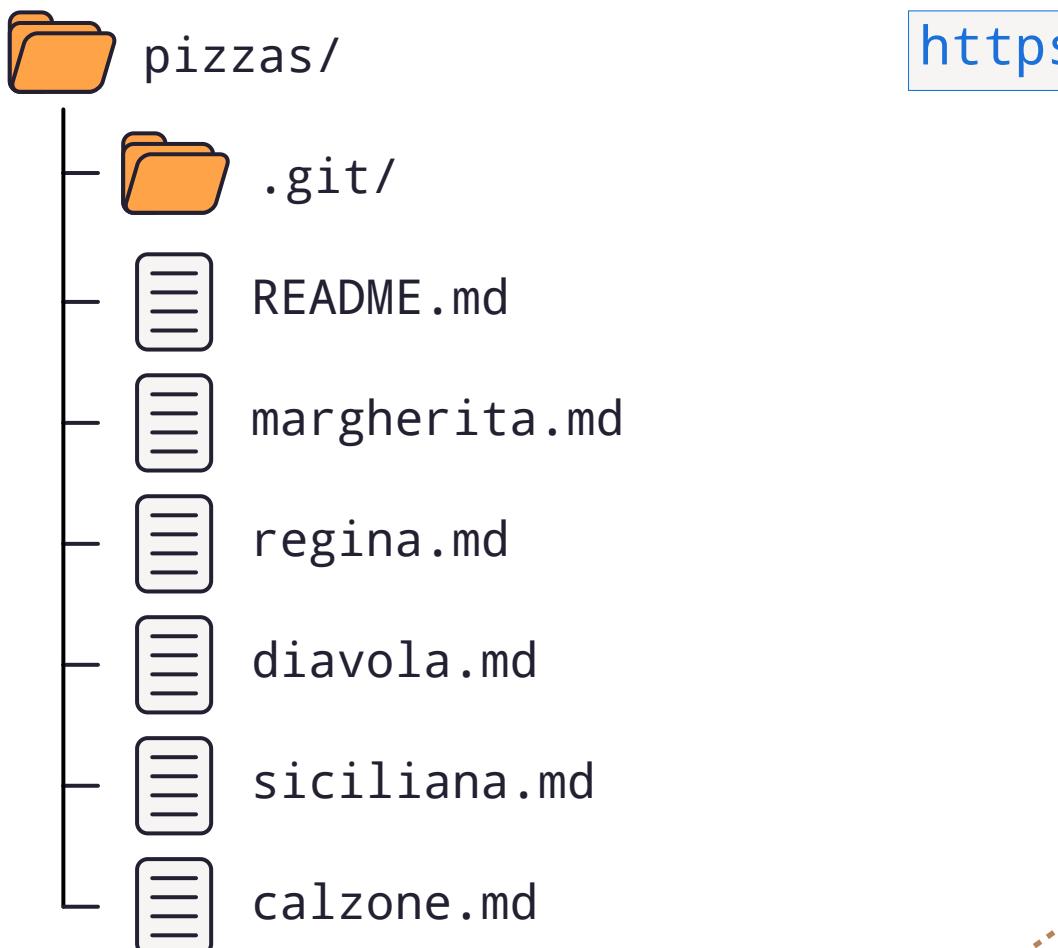
Collaborate

When you Diverge

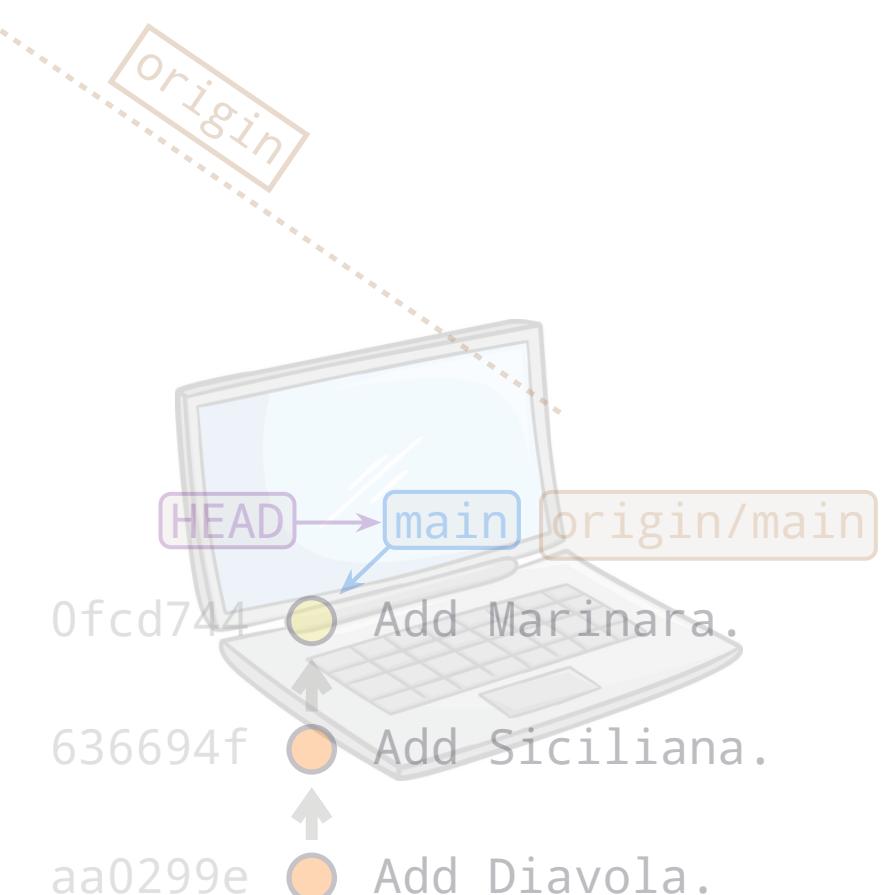
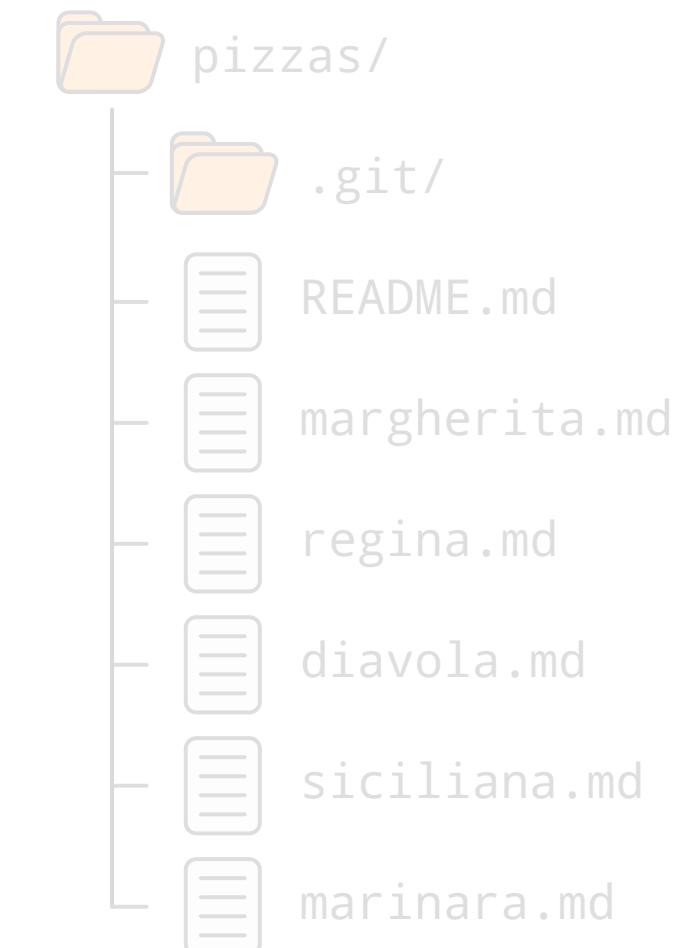
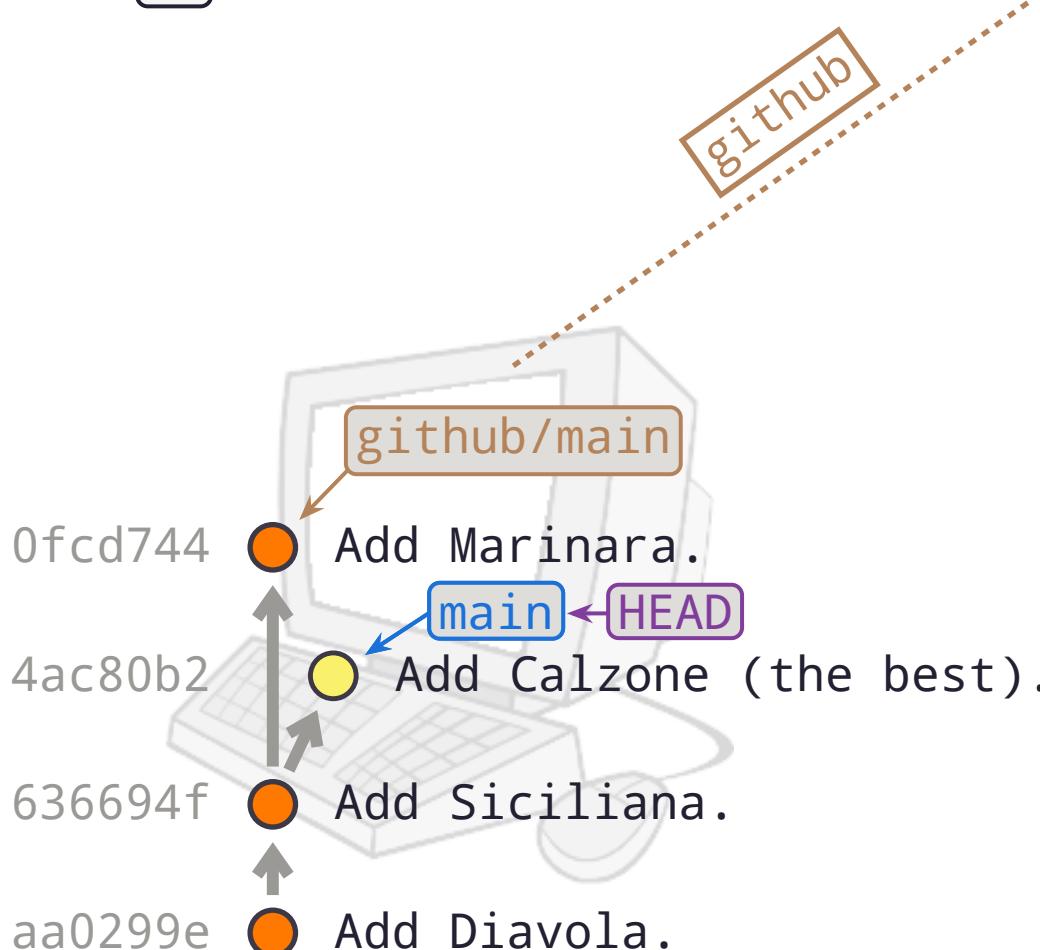
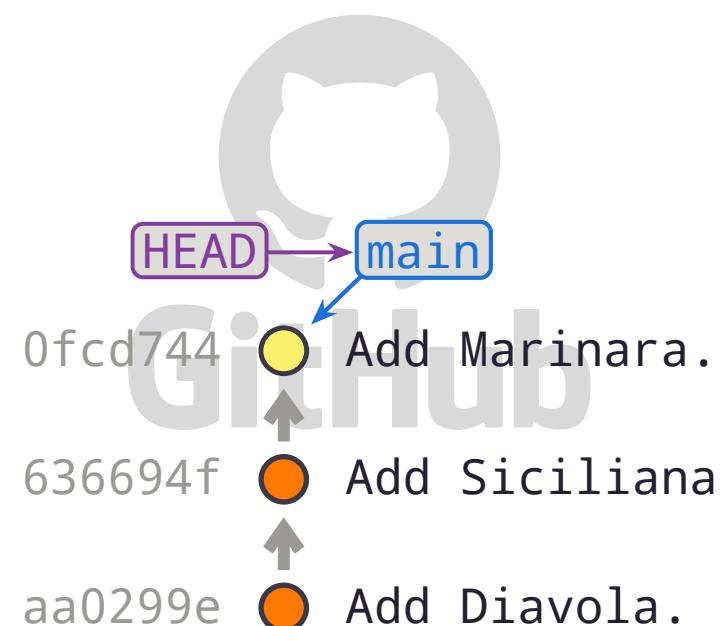


Collaborate

When you Diverge

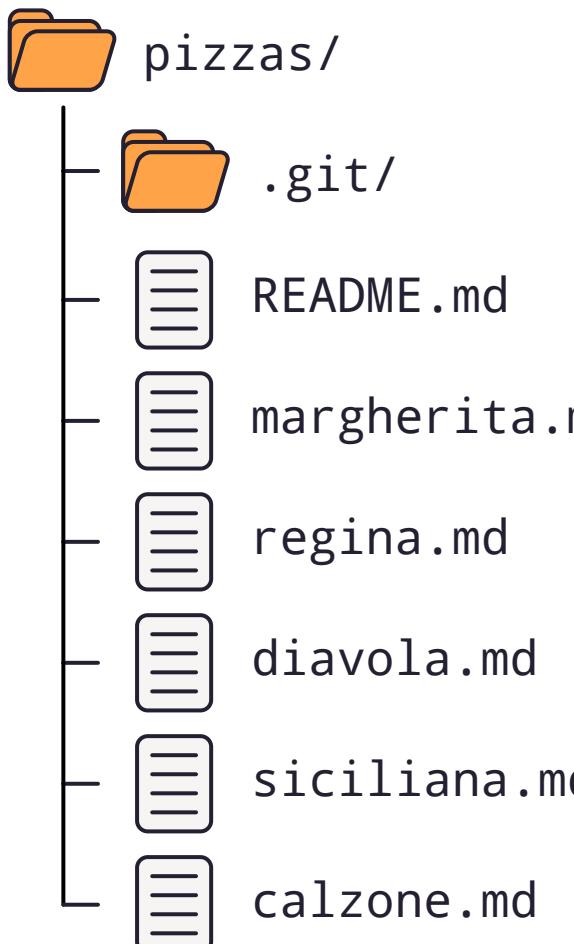


<https://github.com/MyAccount/Pizzas>

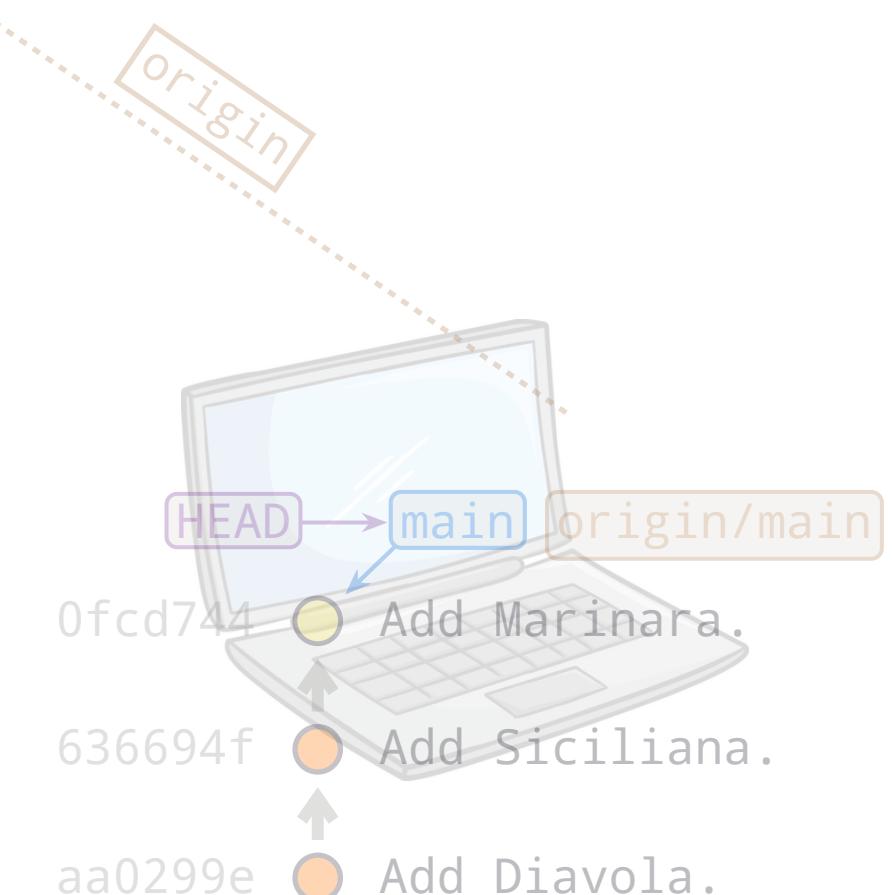
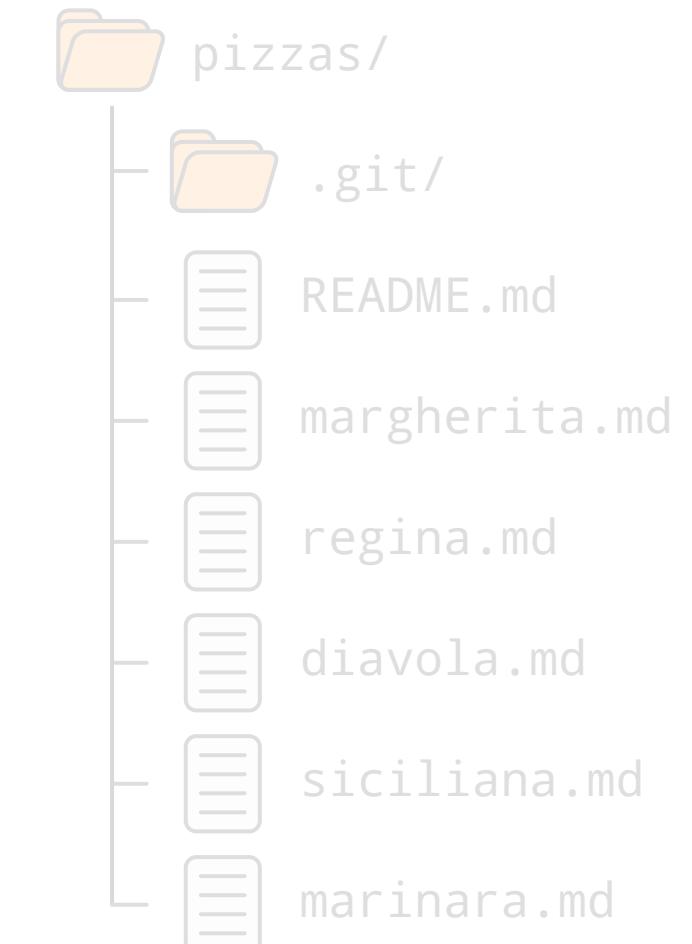
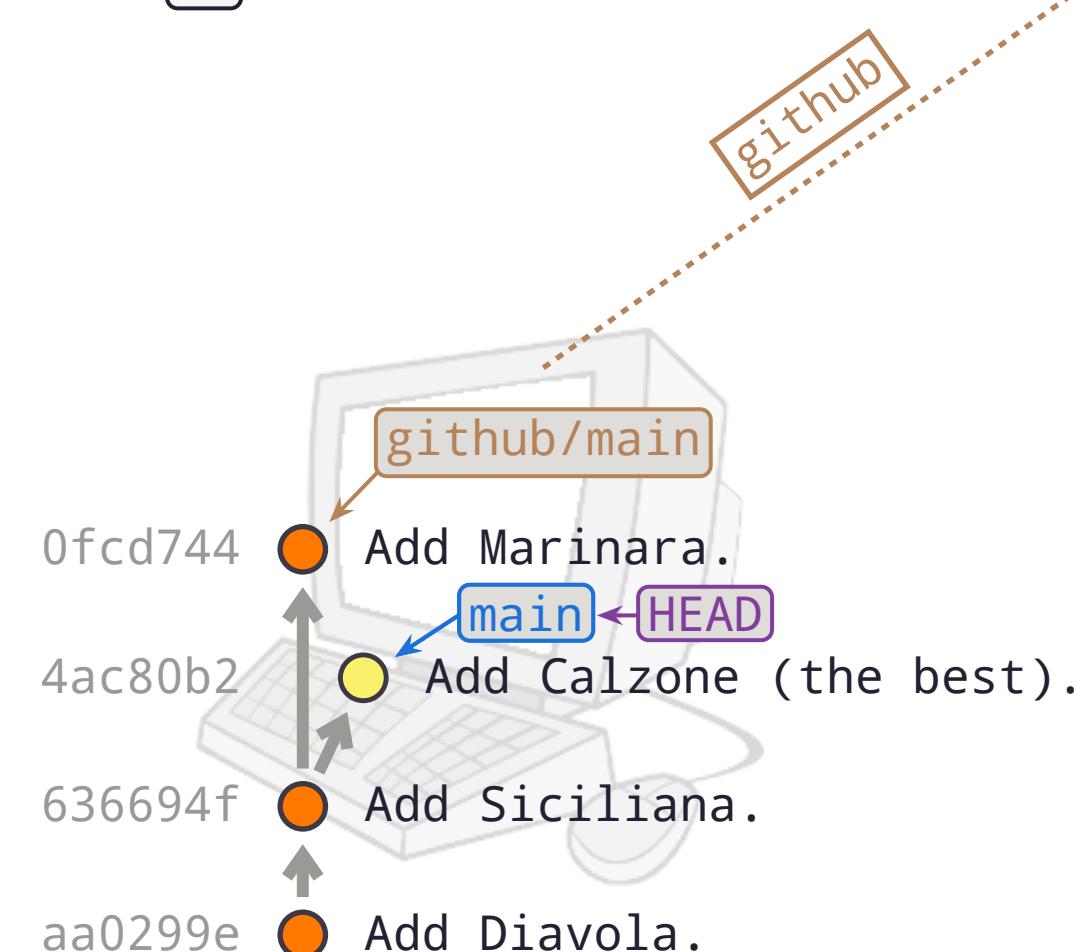
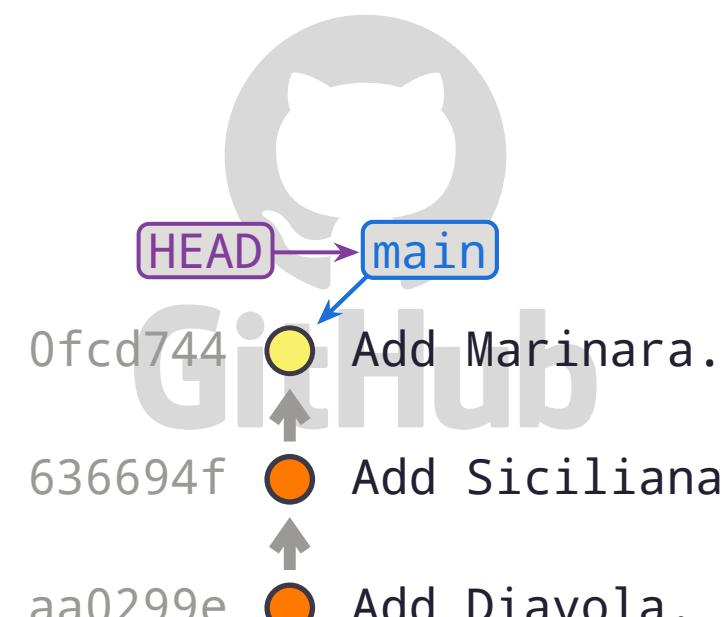


Collaborate

When you Diverge

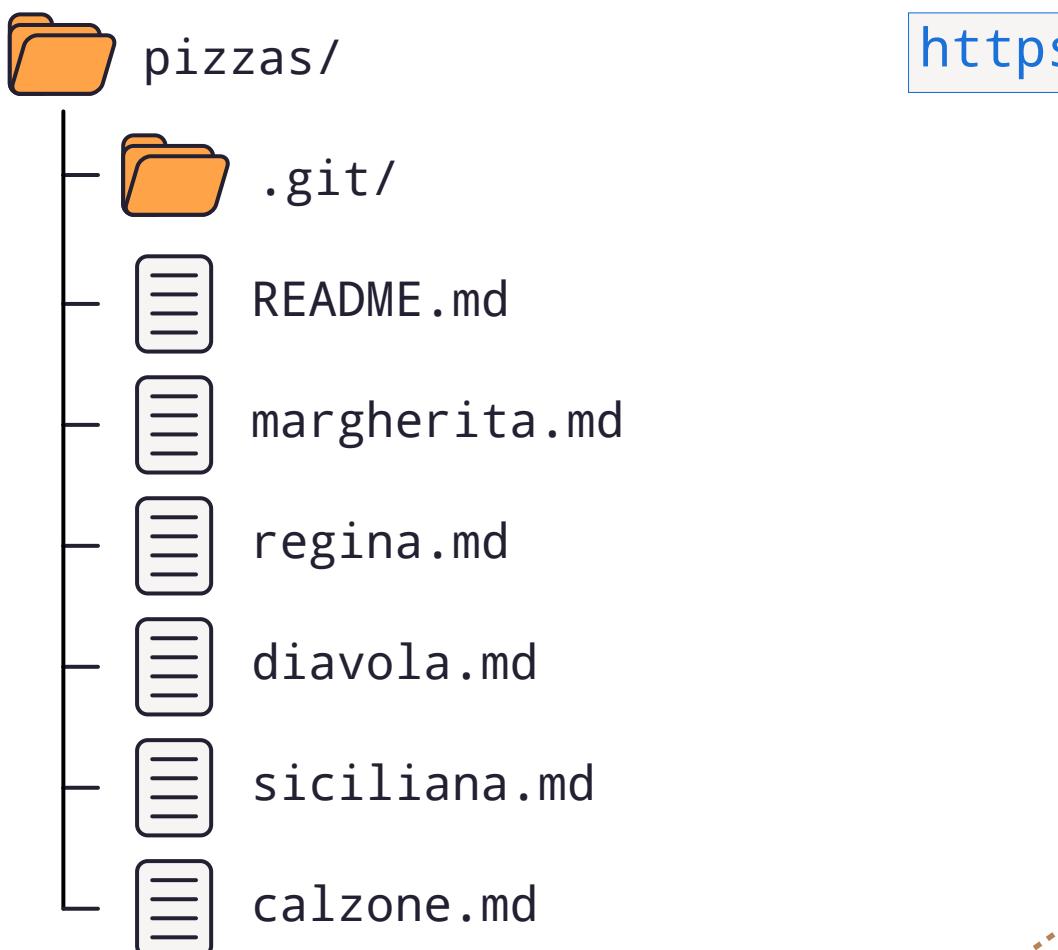


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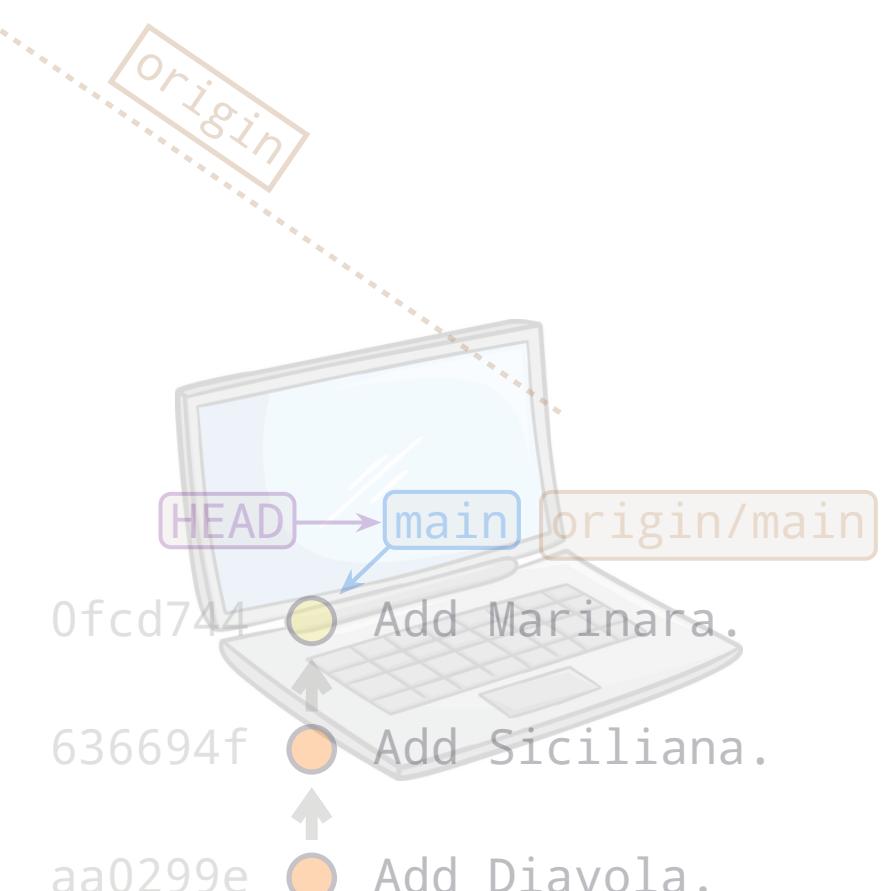
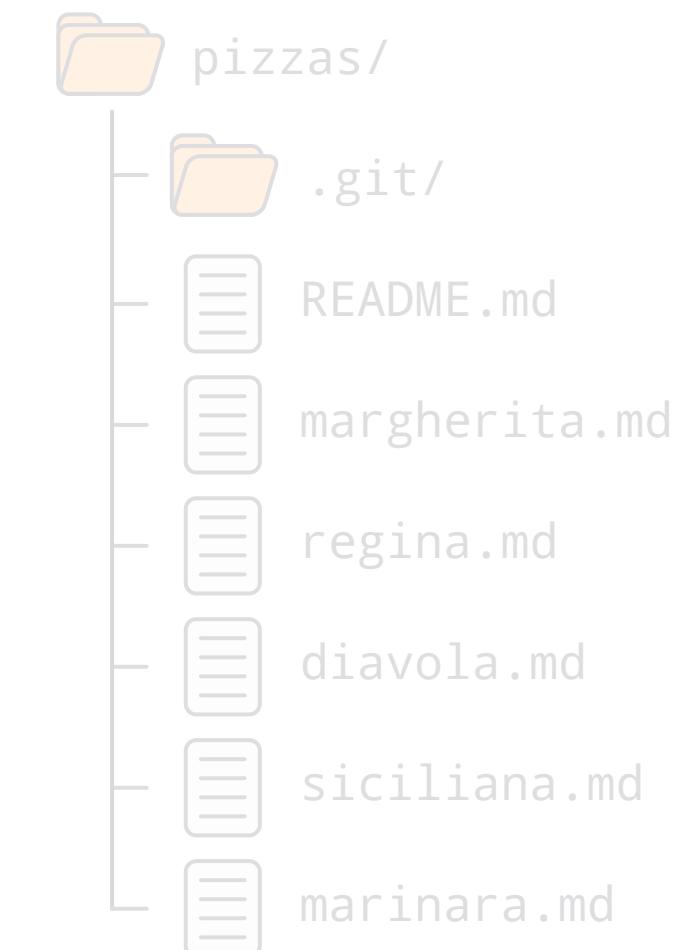
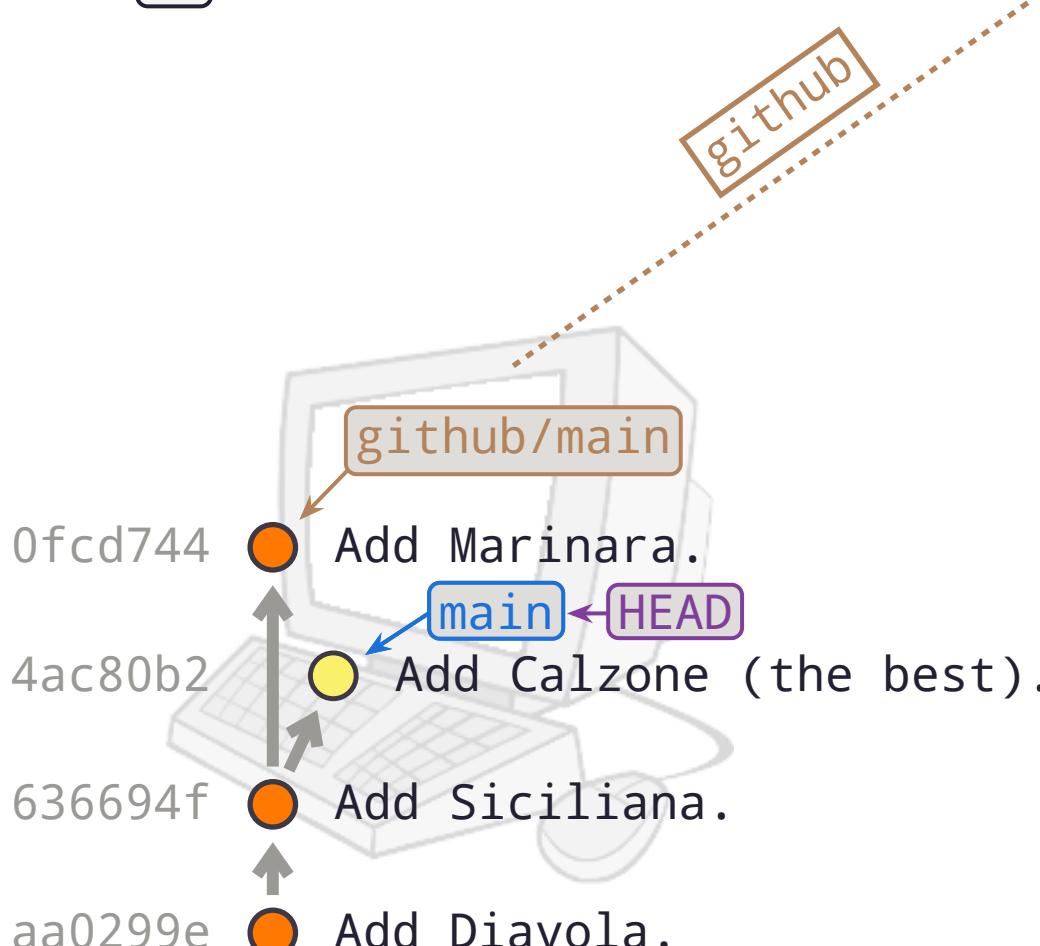
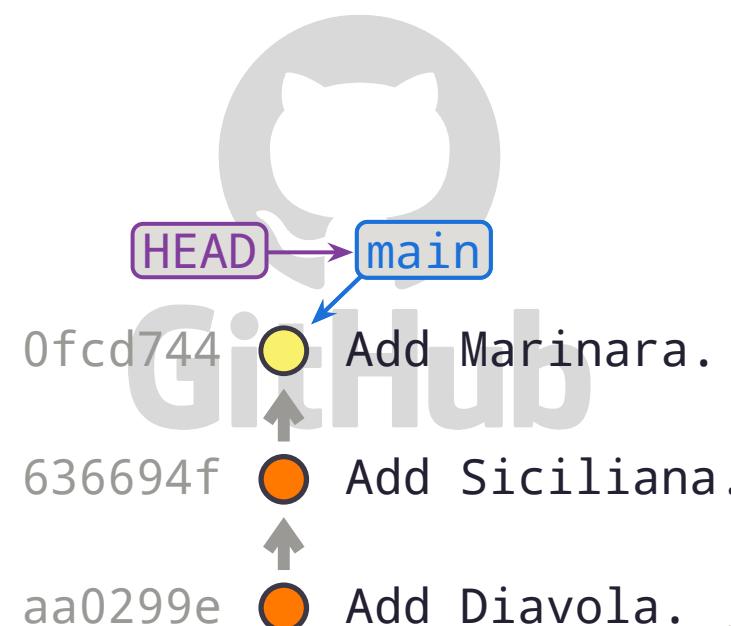


Collaborate

When you Diverge

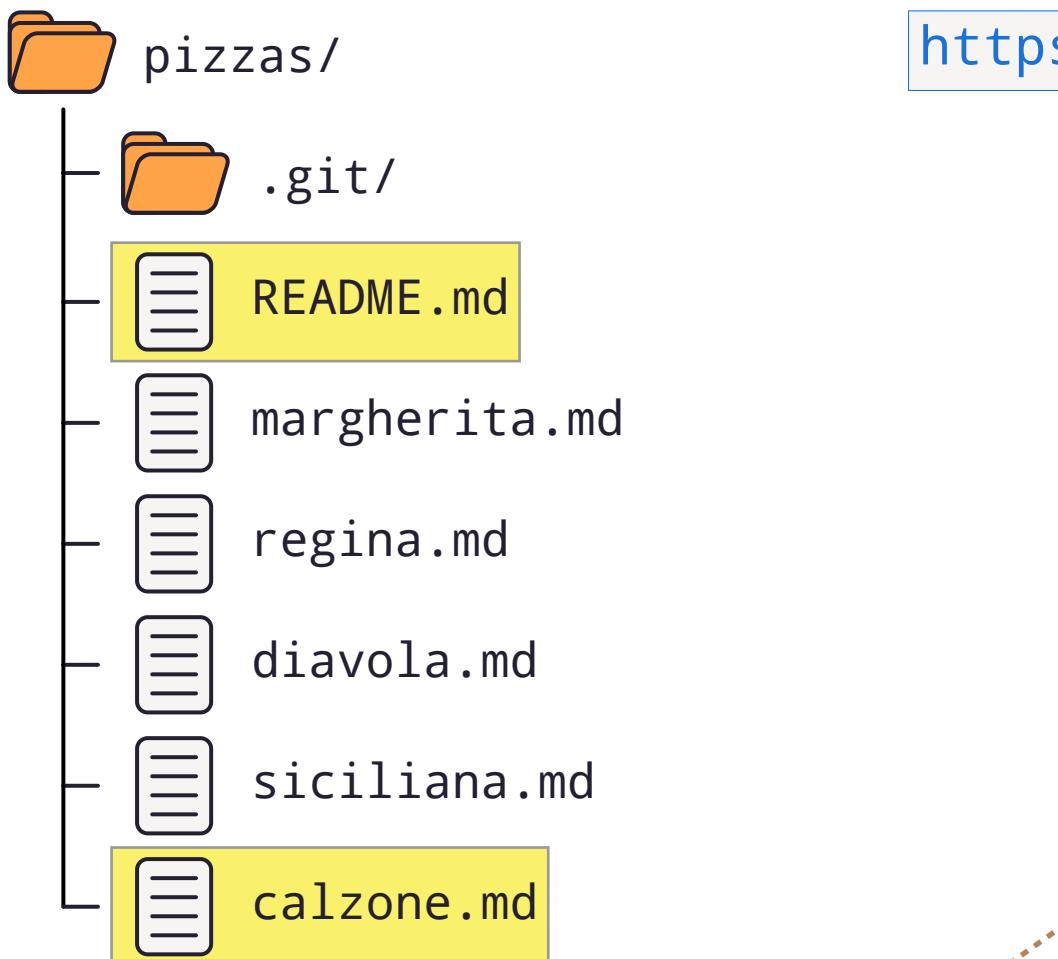


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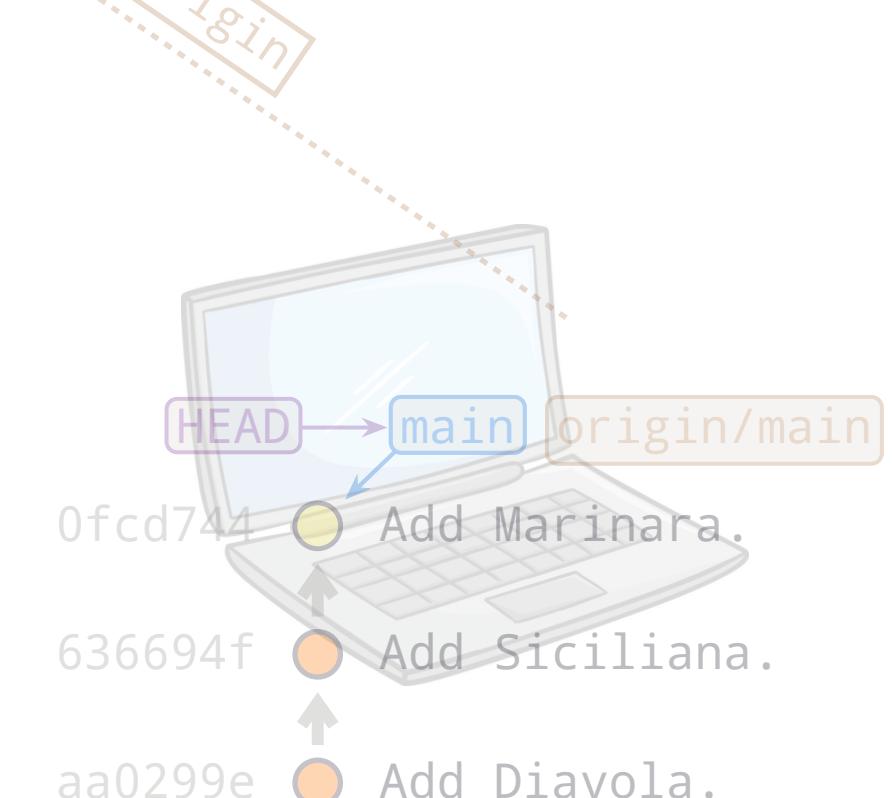
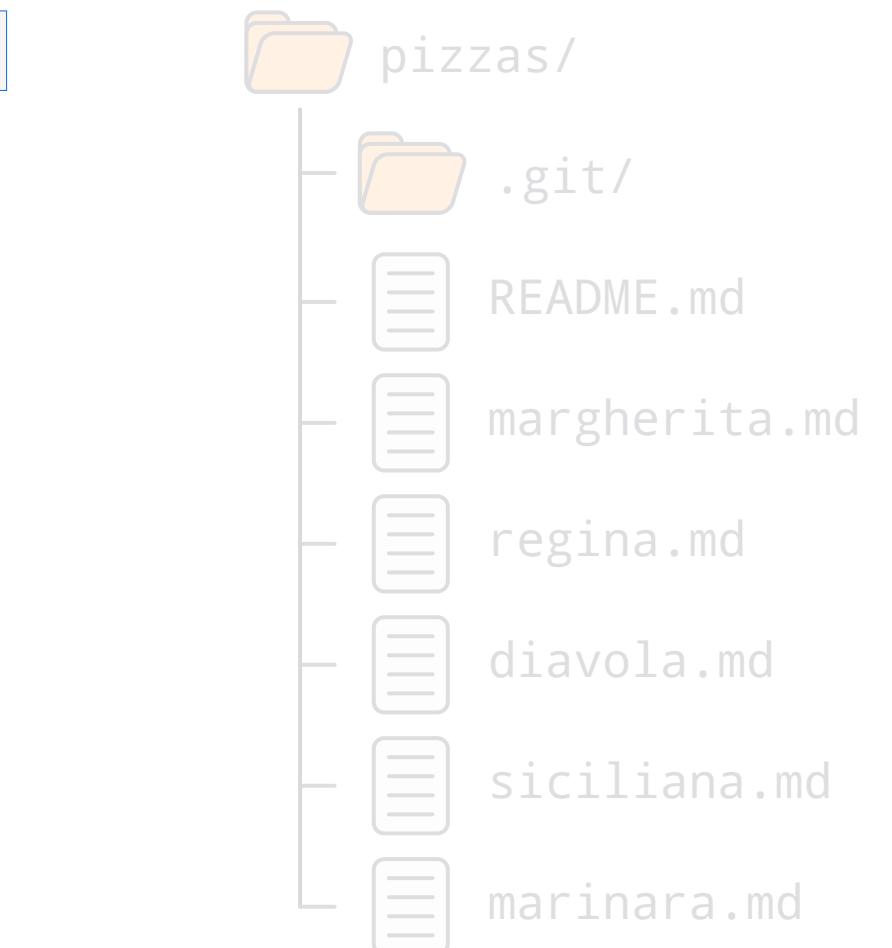
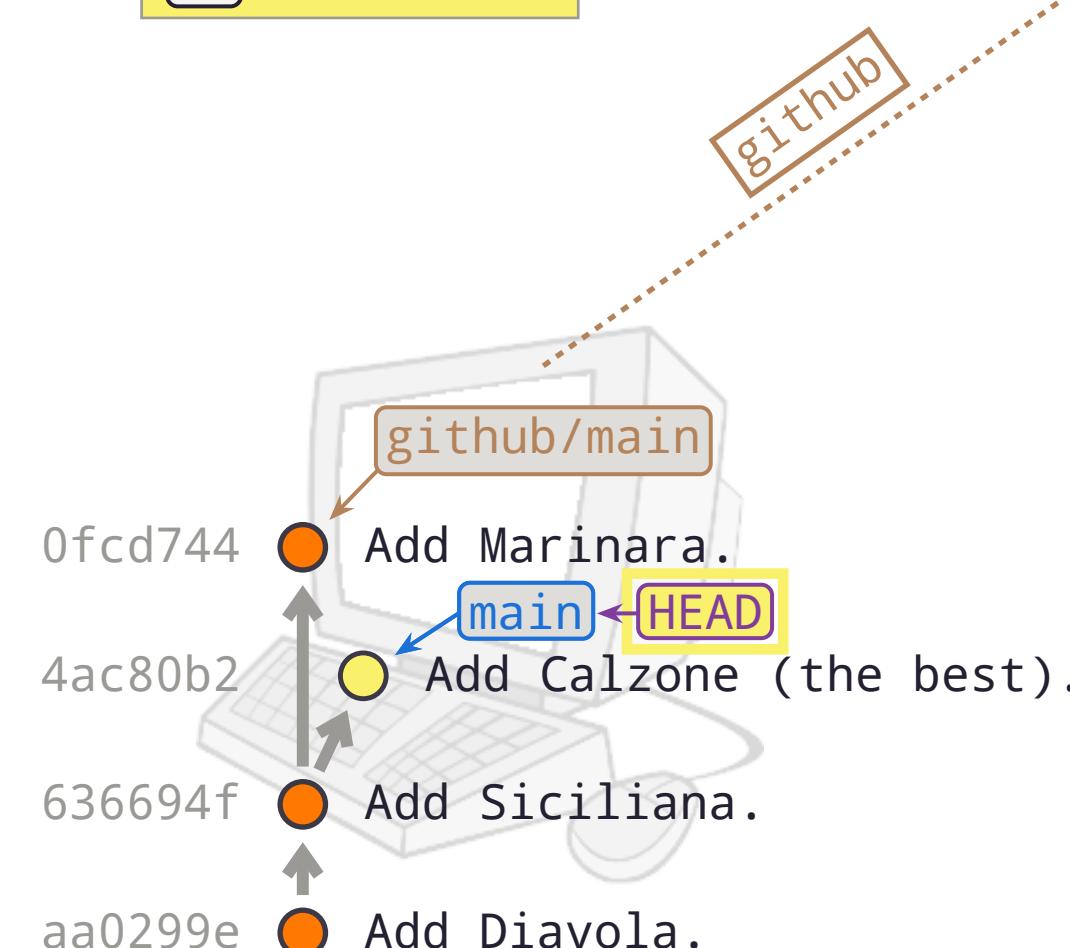
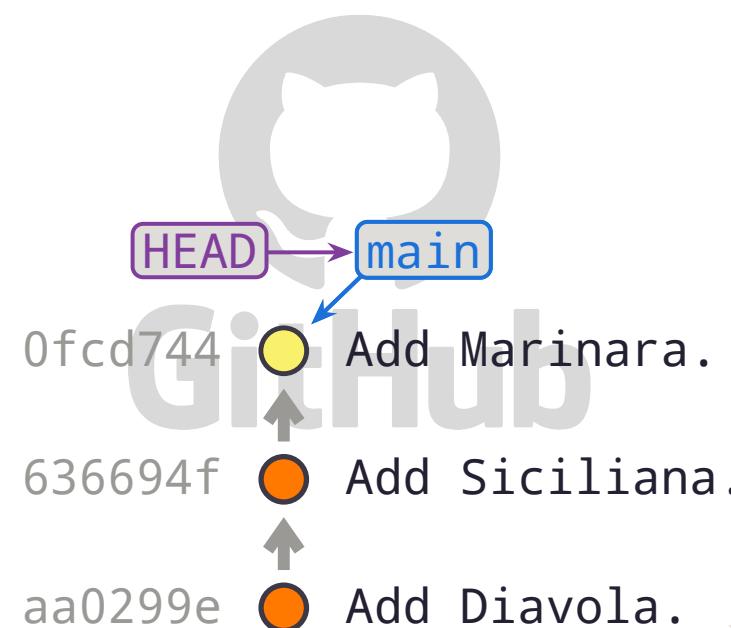


Collaborate

When you Diverge



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



Collaborate

When you Diverge



pizzas/



.git/



README.md



margherita.md



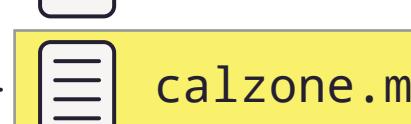
regina.md



diavola.md

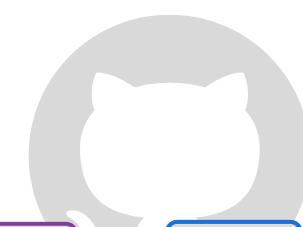


siciliana.md



calzone.md

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



HEAD → main

0fc744 Add Marinara.
636694f Add Siciliana.
aa0299e Add Diavola.

github

\$ git checkout github/main

0fc744

Add Marinara.

4ac80b2

main

HEAD

Add Calzone (the best).

636694f

Add Siciliana.

aa0299e

Add Diavola.



pizzas/



.git/

README.md
margherita.md
regina.md
diavola.md
siciliana.md

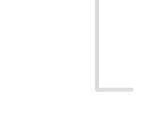
marinara.md



marinara.md



marinara.md



marinara.md

origin



HEAD → main origin/main

0fc744

Add Marinara.

636694f

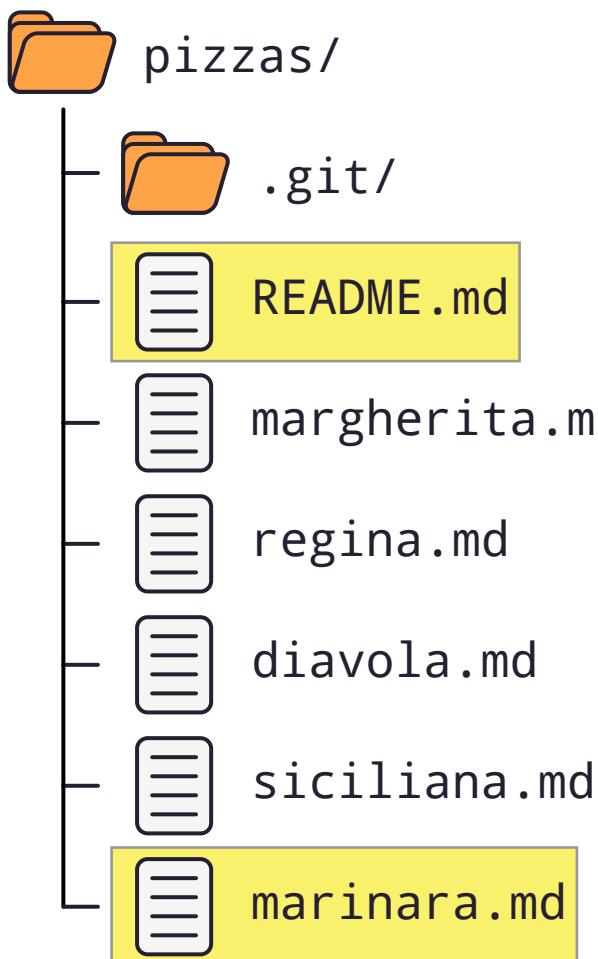
Add Siciliana.

aa0299e

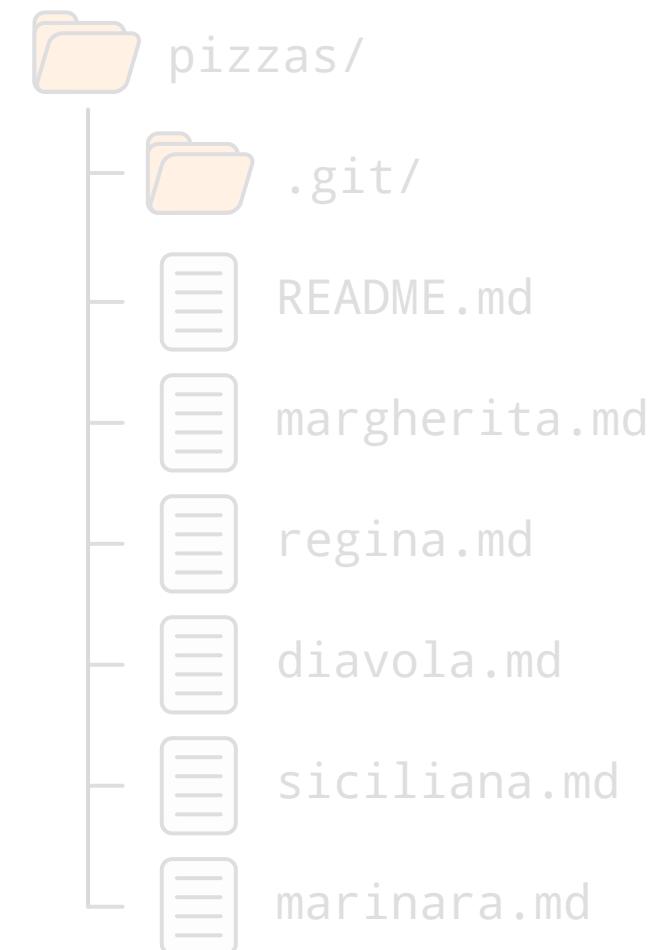
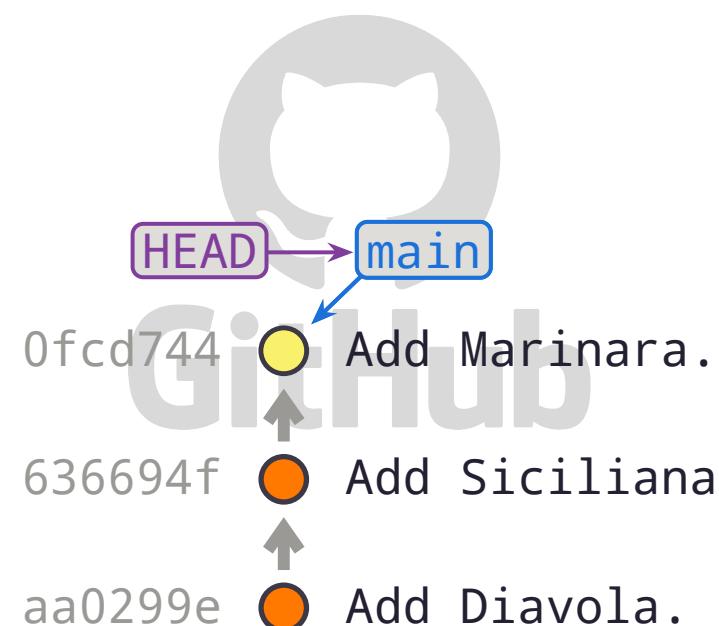
Add Diavola.

Collaborate

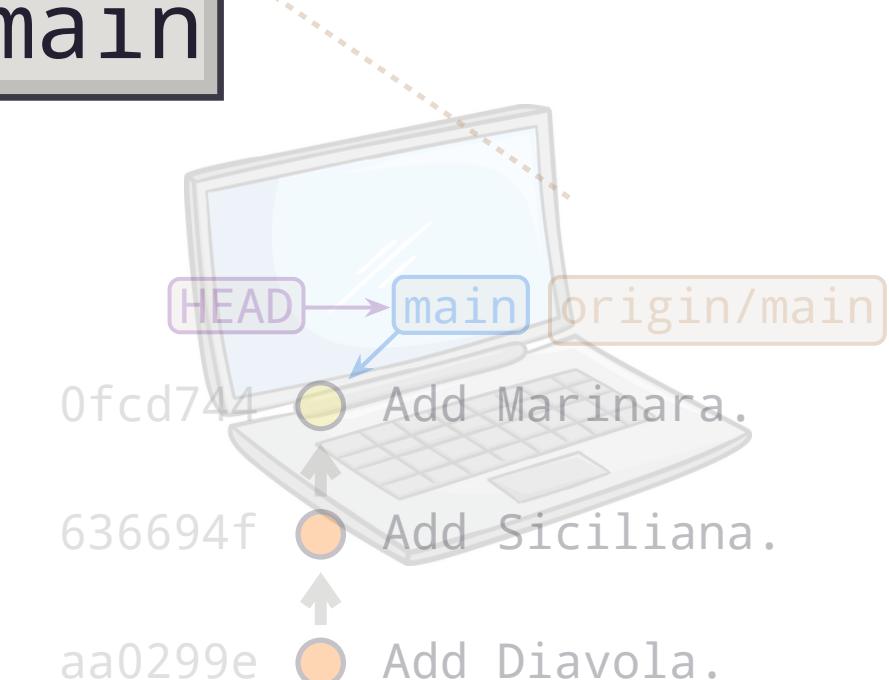
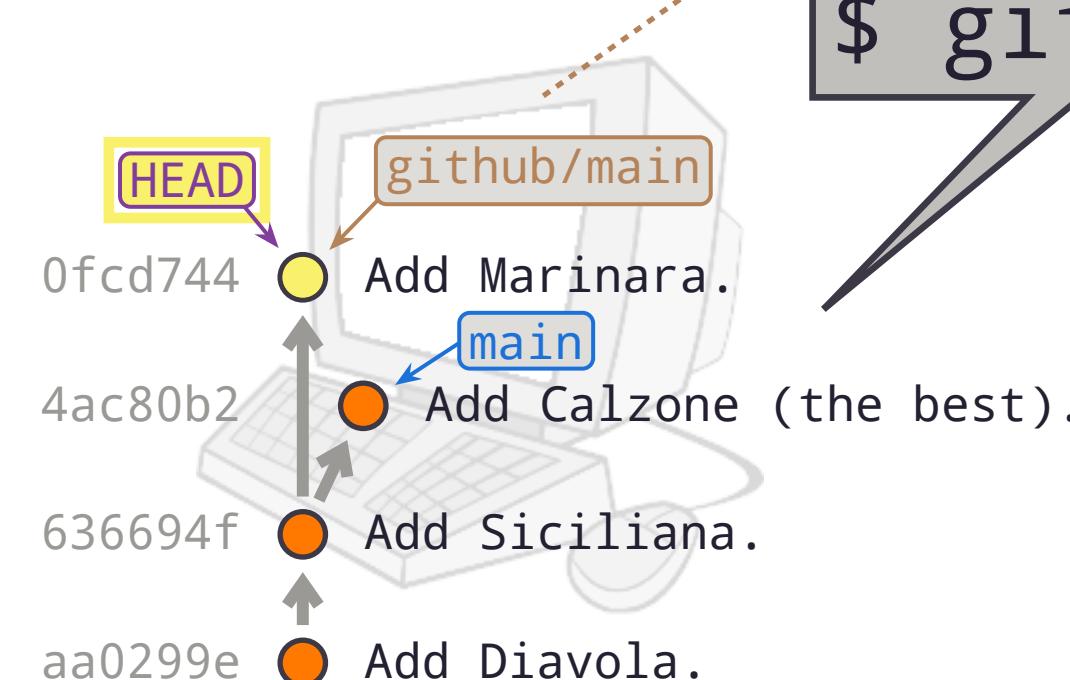
When you Diverge



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

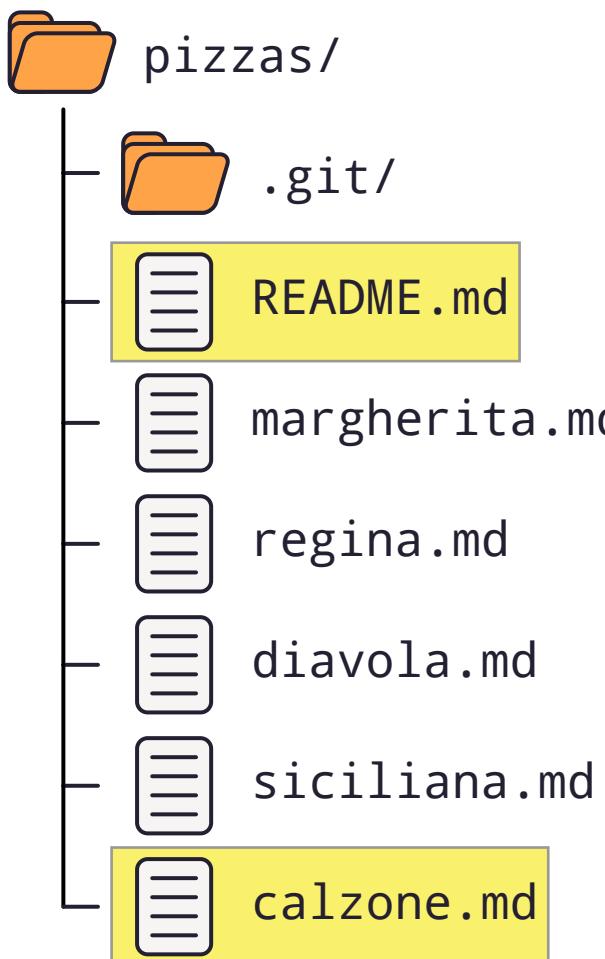


\$ git checkout github/main

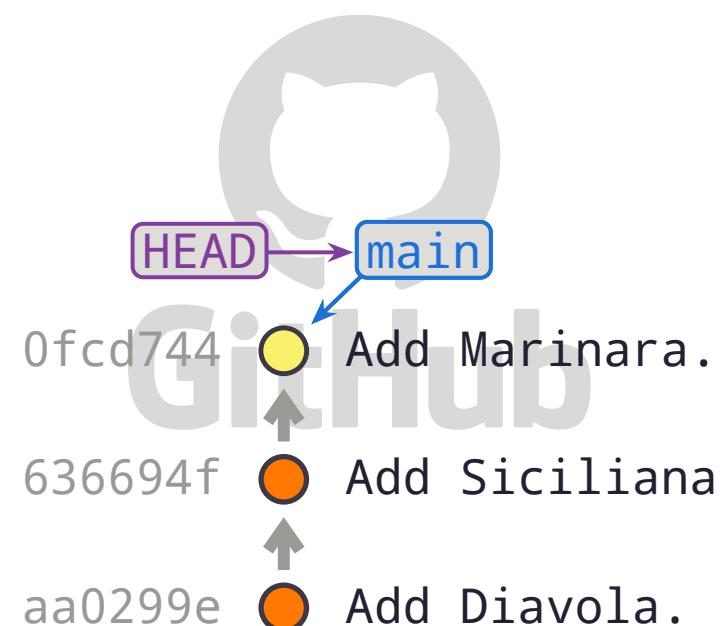


Collaborate

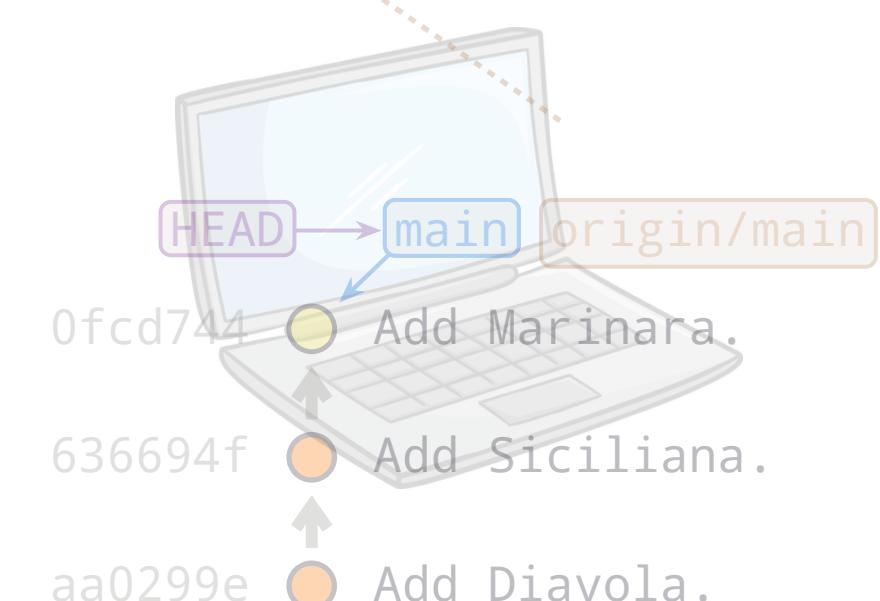
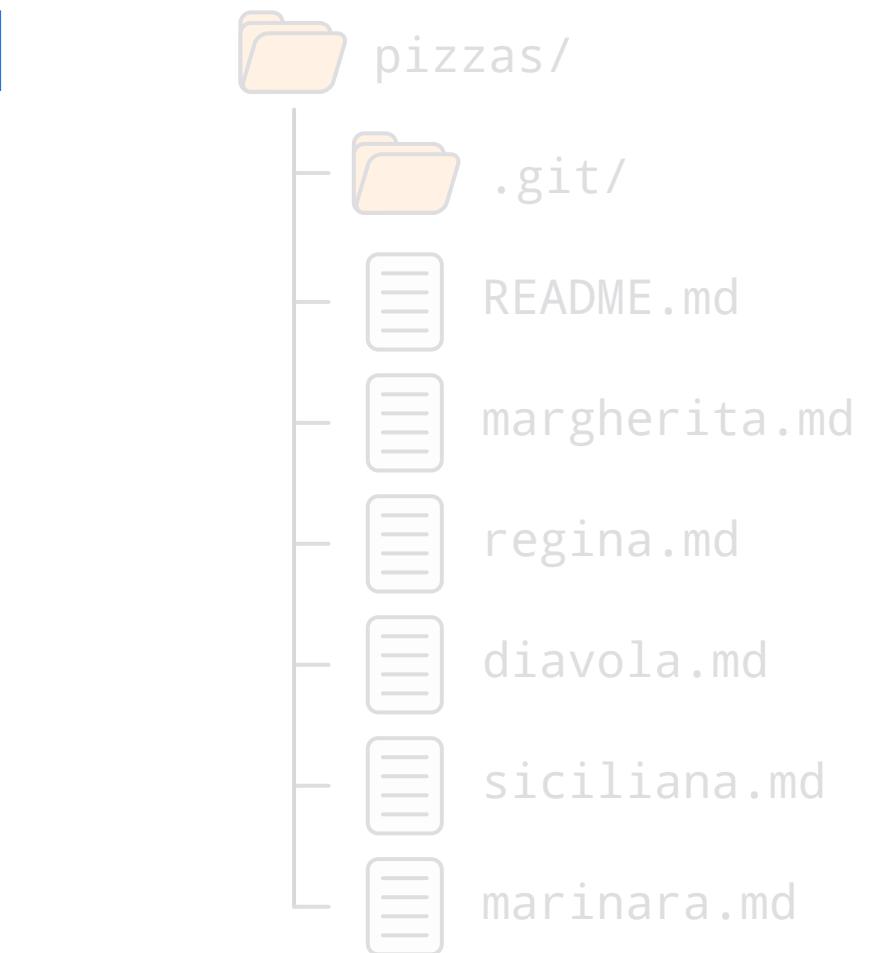
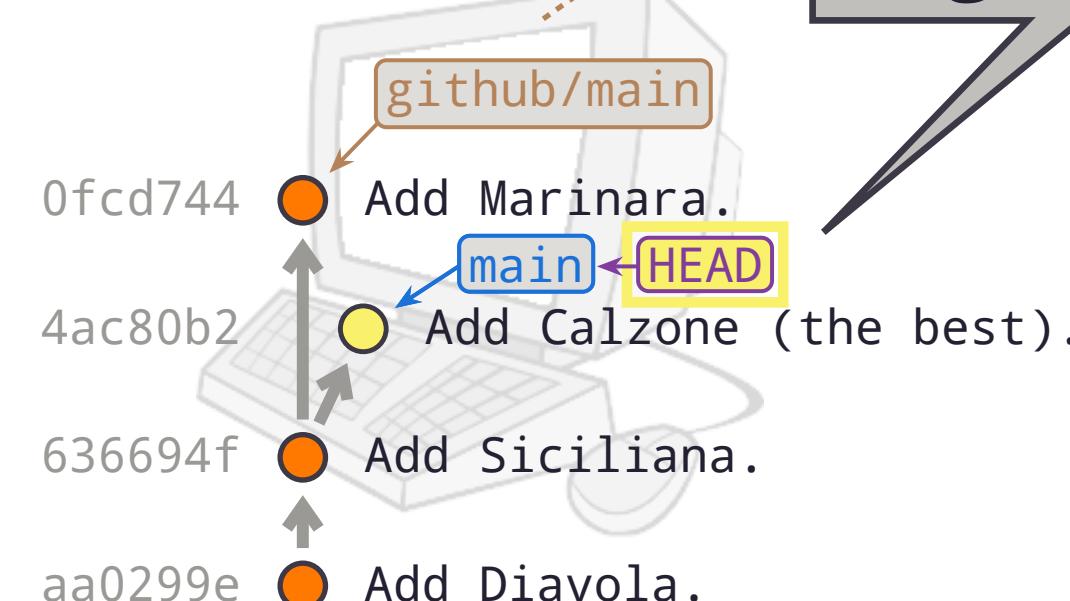
When you Diverge



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

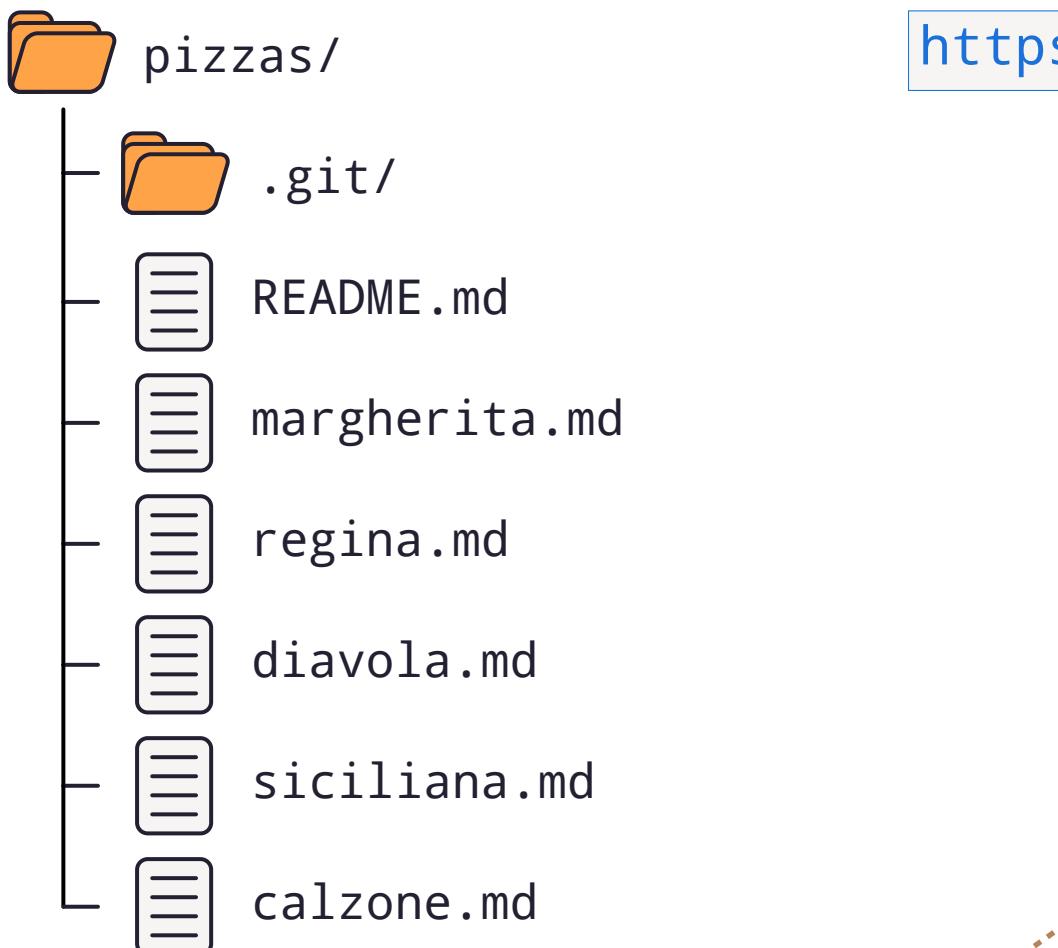


```
$ git checkout main
```

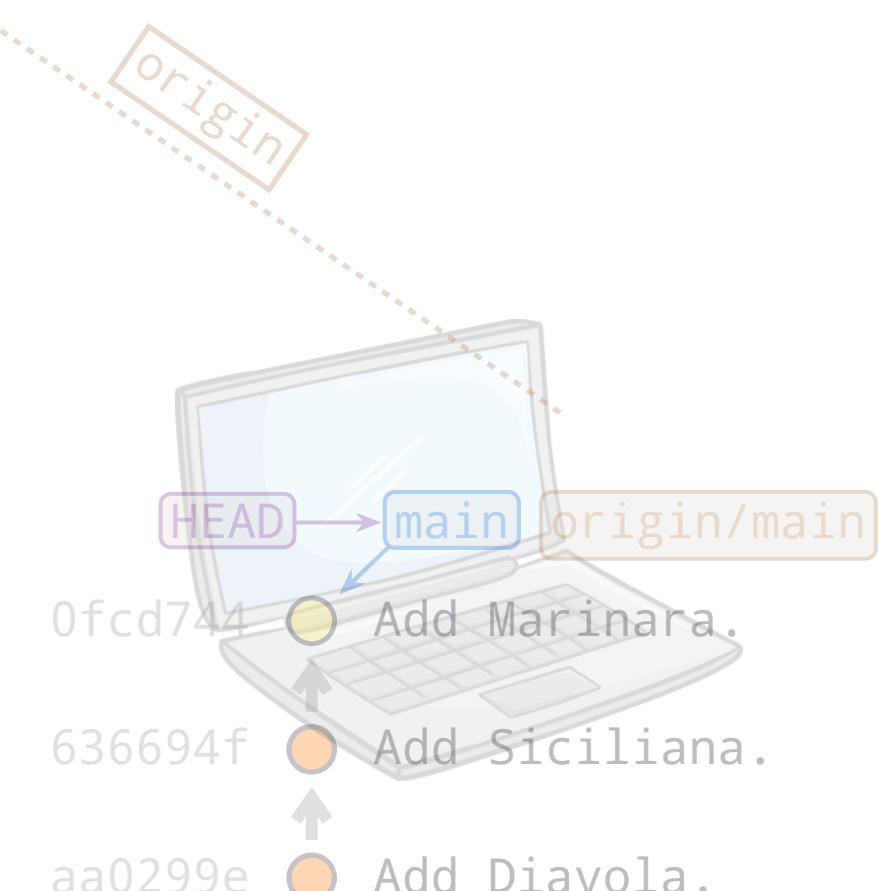
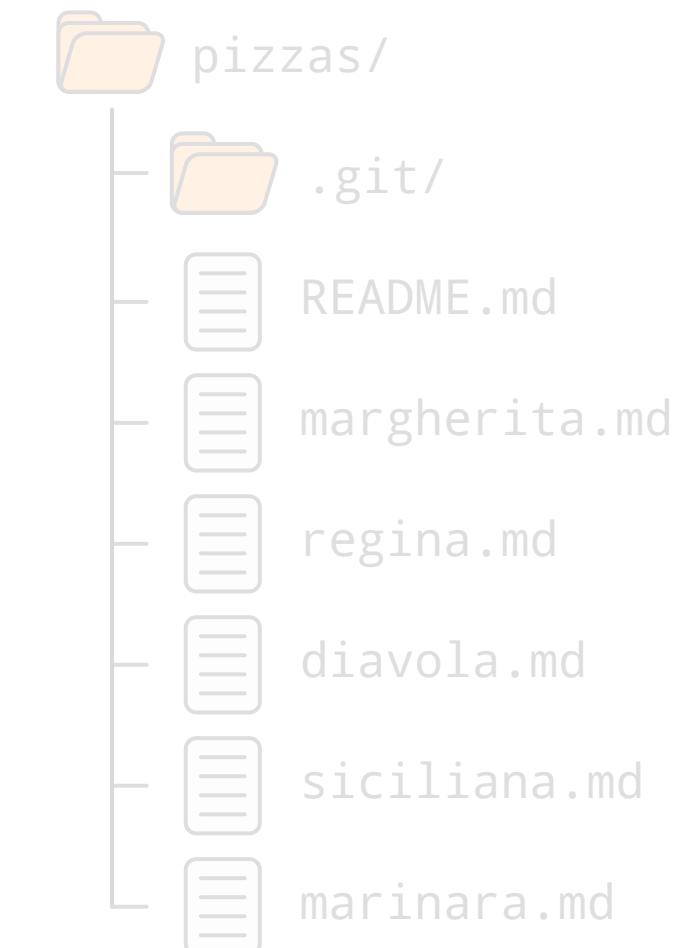
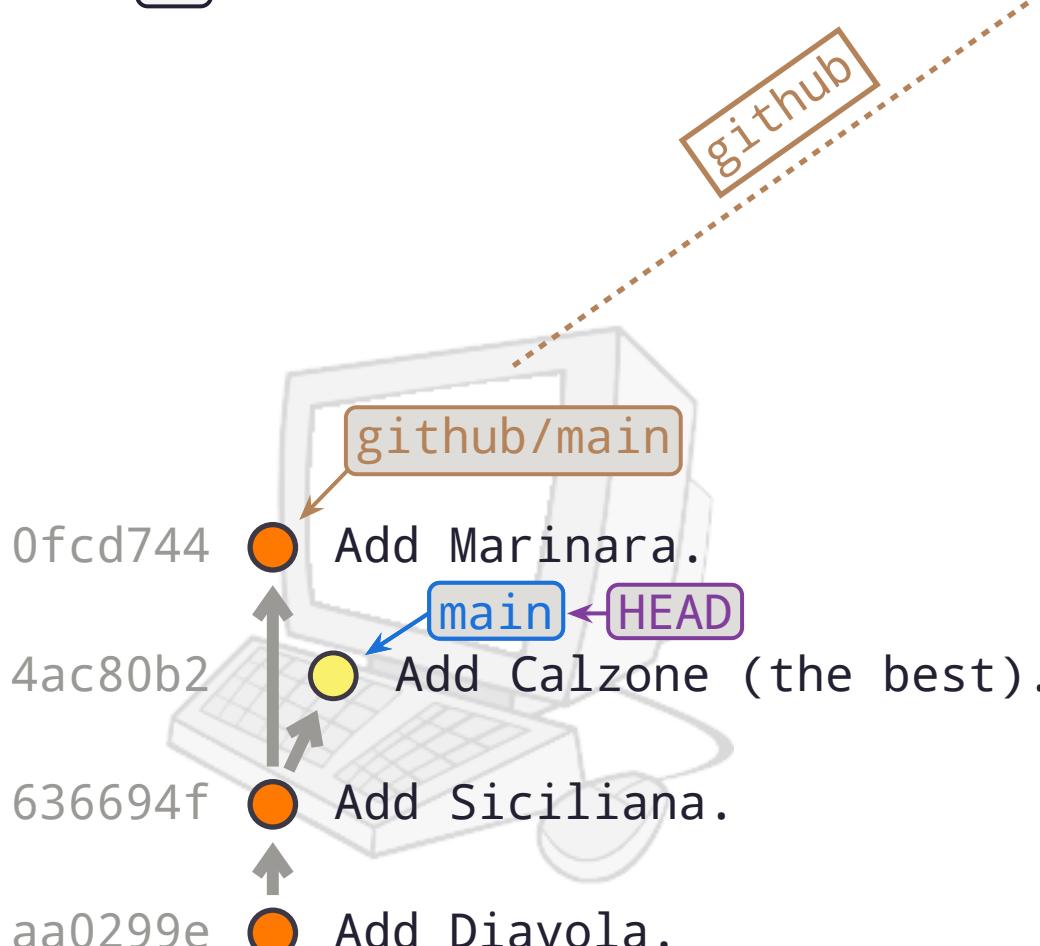
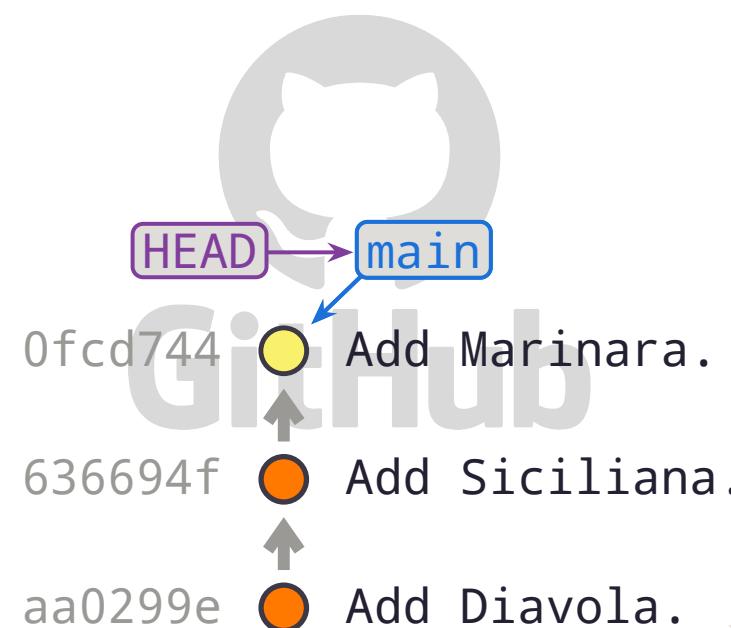


Collaborate

When you Diverge



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



Collaborate

When you Diverge



pizzas/



.git/



README.md



margherita.md



regina.md



diavola.md

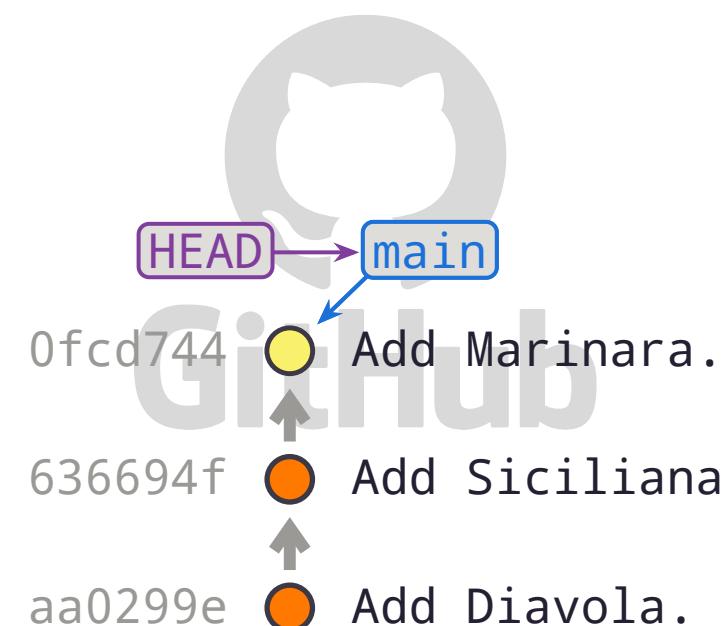


siciliana.md

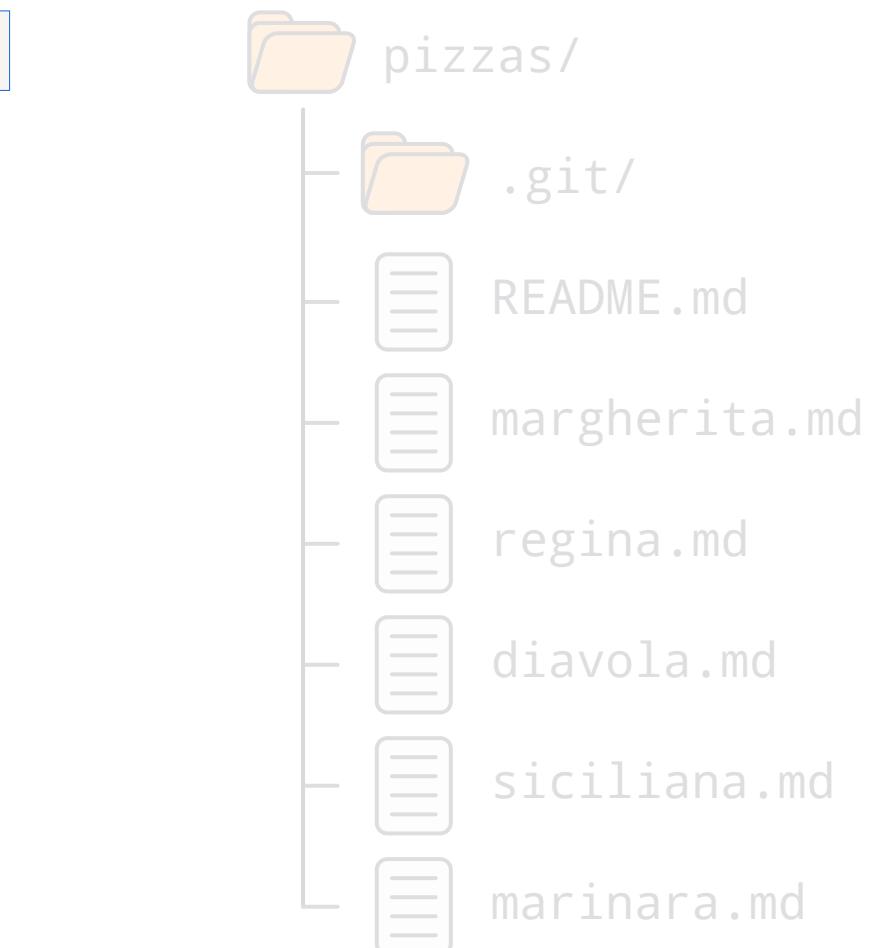


calzone.md

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

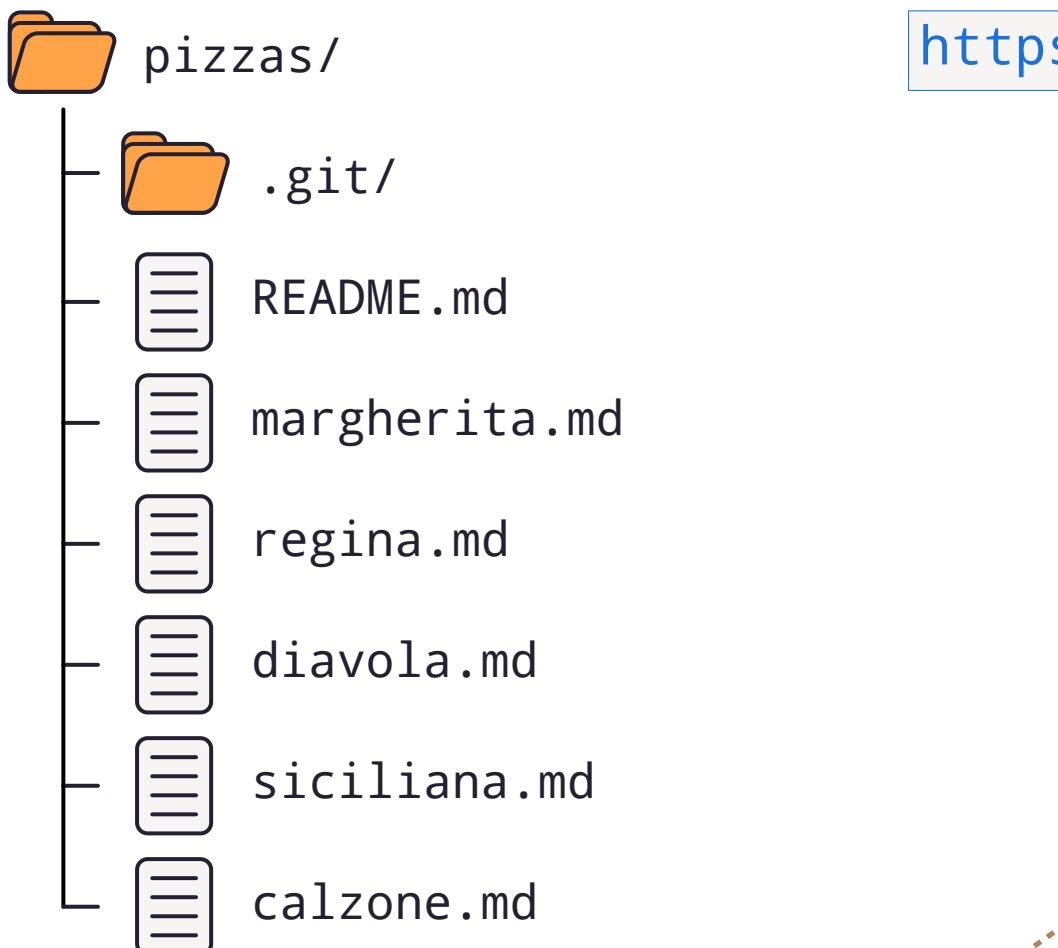


\$ git push github main

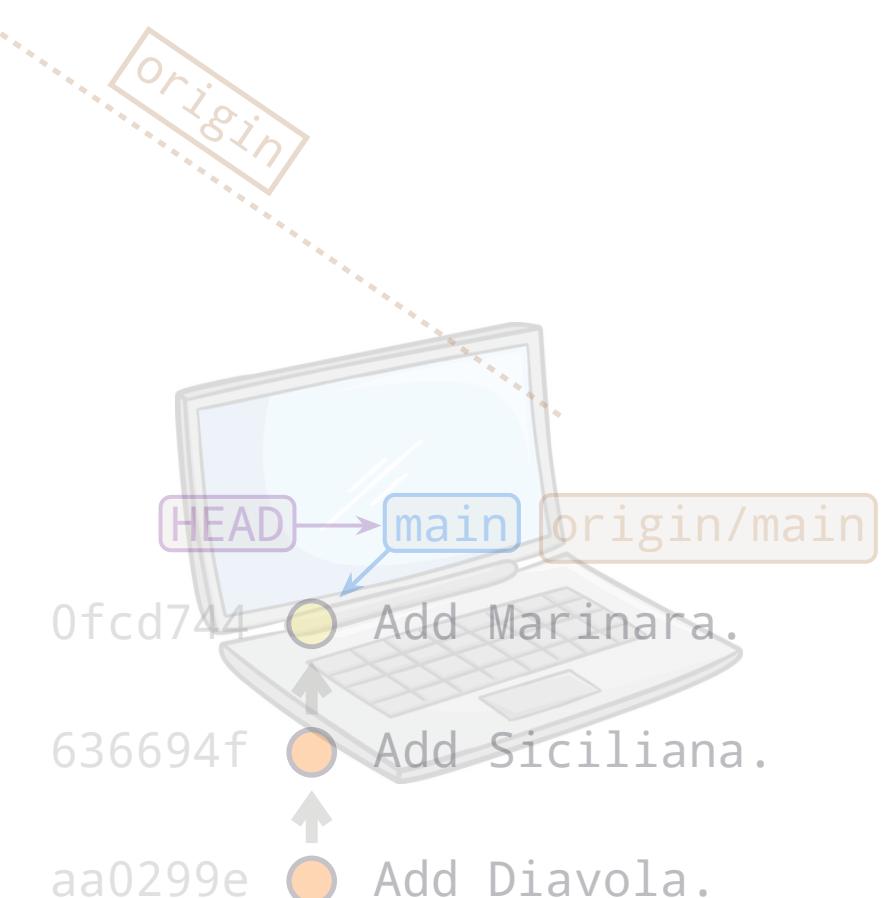
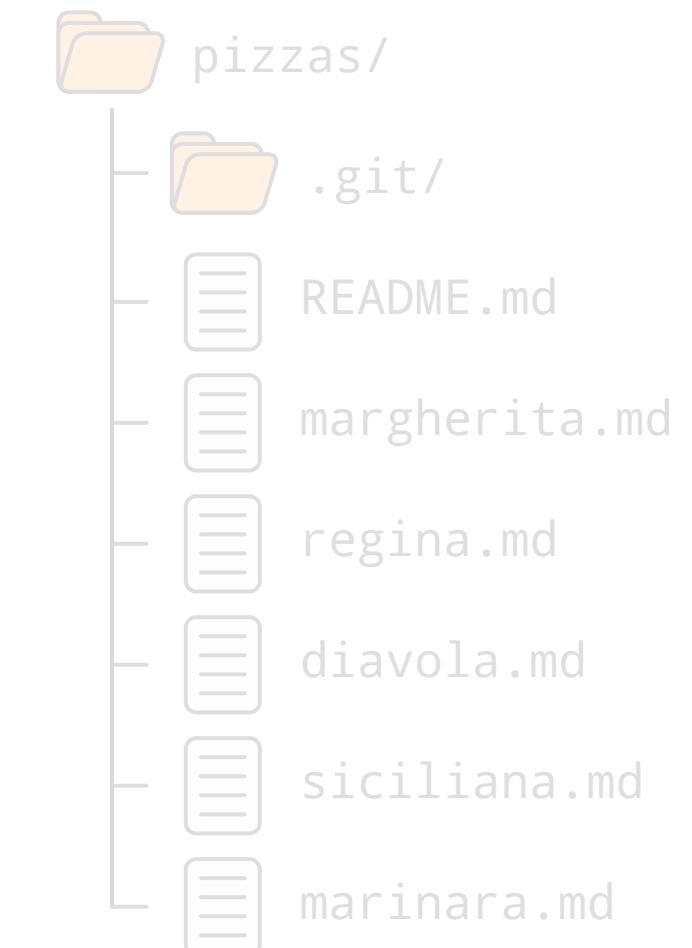
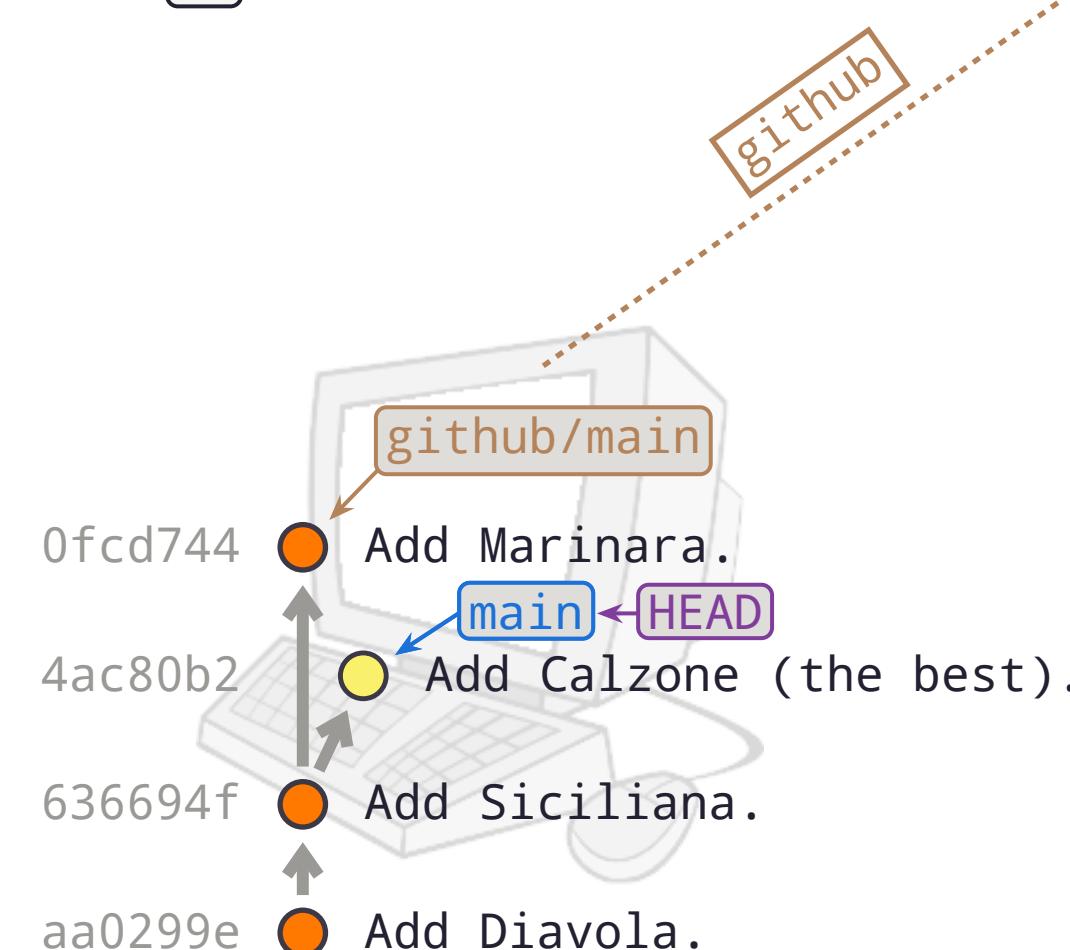
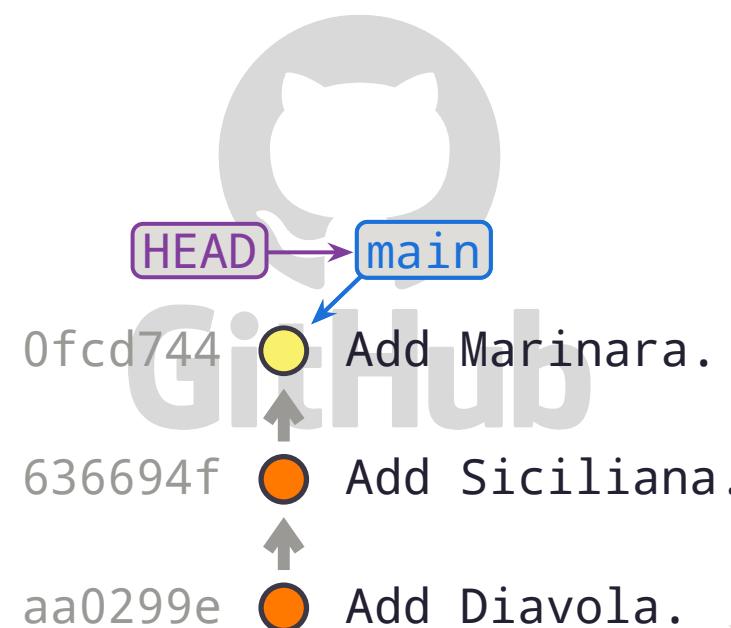


Collaborate

When you Diverge



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



Collaborate

When you Diverge



pizzas/



.git/



README.md



margherita.md



regina.md



diavola.md

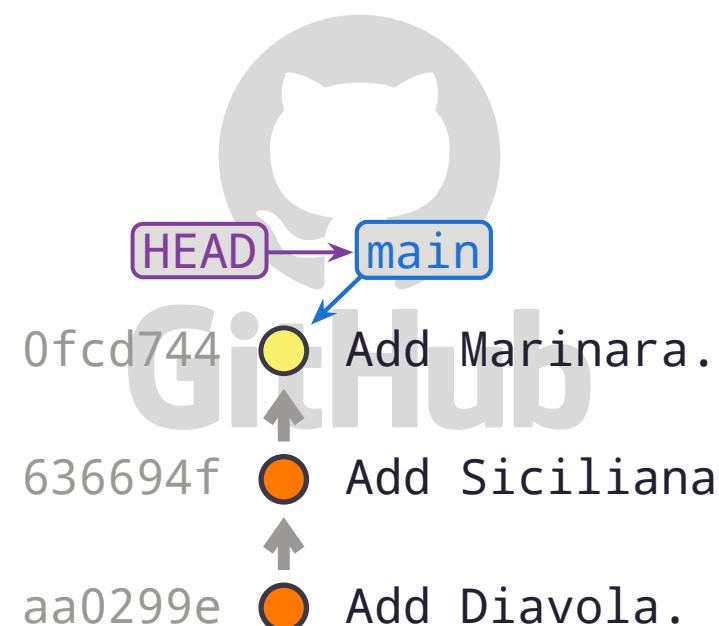


siciliana.md



calzone.md

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



0fc744

github/main

Add Marinara.

4ac80b2

main

HEAD

HEAD

636694f

Add Siciliana.

aa0299e

Add Diavola.



pizzas/



.git/



README.md



margherita.md



regina.md



diavola.md



siciliana.md



marinara.md

0fc744

origin/main

HEAD

main

636694f

Add Siciliana.

aa0299e

Add Diavola.

Conflicts



Resolve Conflicts

What a “Conflict” Means

Resolve Conflicts

What a “Conflict” Means

README.md <MY_VERSION>

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- __Regina__: `./regina.md`

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no change

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no conflicts
(happy zone)
:-)

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- __Regina__: `./regina.md`
- + - __Siciliana__: `./siciliana.md`

change on one side

Resolve Conflicts

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Resolve Conflicts

What a “Conflict” Means

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- __Regina__: `./regina.md`
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README.md <THEIR_VERSION>

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- __Margerita__: `./margerita.md`
- __Regina__: `./regina.md`
- __Siciliana__: `./siciliana.md`

Resolve Conflicts

What a “Conflict” Means

~ README.md <MY_VERSION>

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- + - __Calzone__: `./calzone.md`
- __Diavola__: `./diavola.md`
- __Margerita__: `./margerita.md`
- __Regina__: `./regina.md`
- __Siciliana__: `./siciliana.md`

~ README.md <THEIR_VERSION>

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- __Margerita__: `./margerita.md`
- + - __Marinara__: `./marinara.md`
- __Regina__: `./regina.md`
- __Siciliana__: `./siciliana.md`

change on both sides

Resolve Conflicts

What a “Conflict” Means

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- __Margerita__: `./margerita.md`
- __Regina__: `./regina.md`
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~ README.md <THEIR_VERSION>

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disjoint lines

Resolve Conflicts

What a “Conflict” Means

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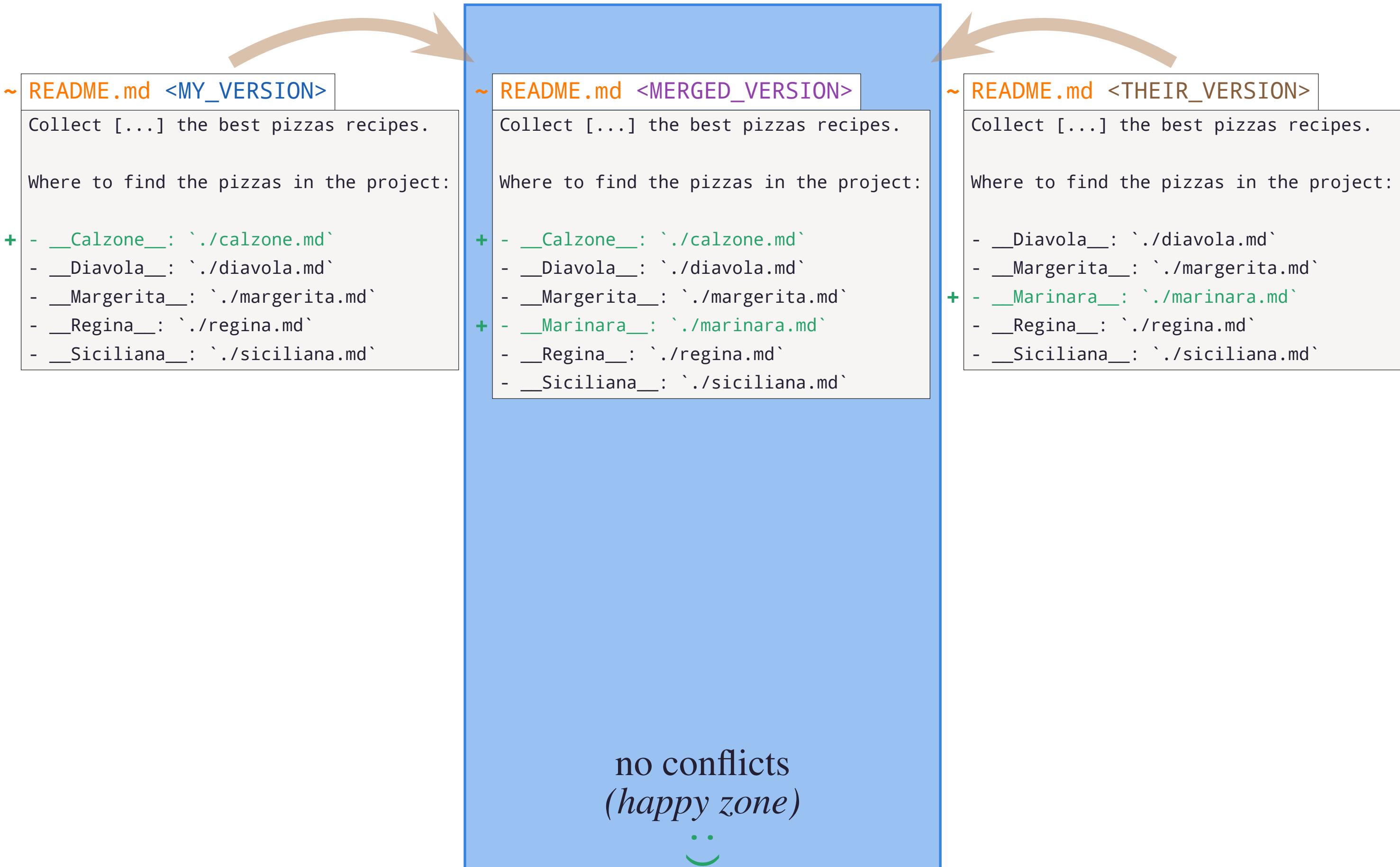
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(happy zone)
:-)

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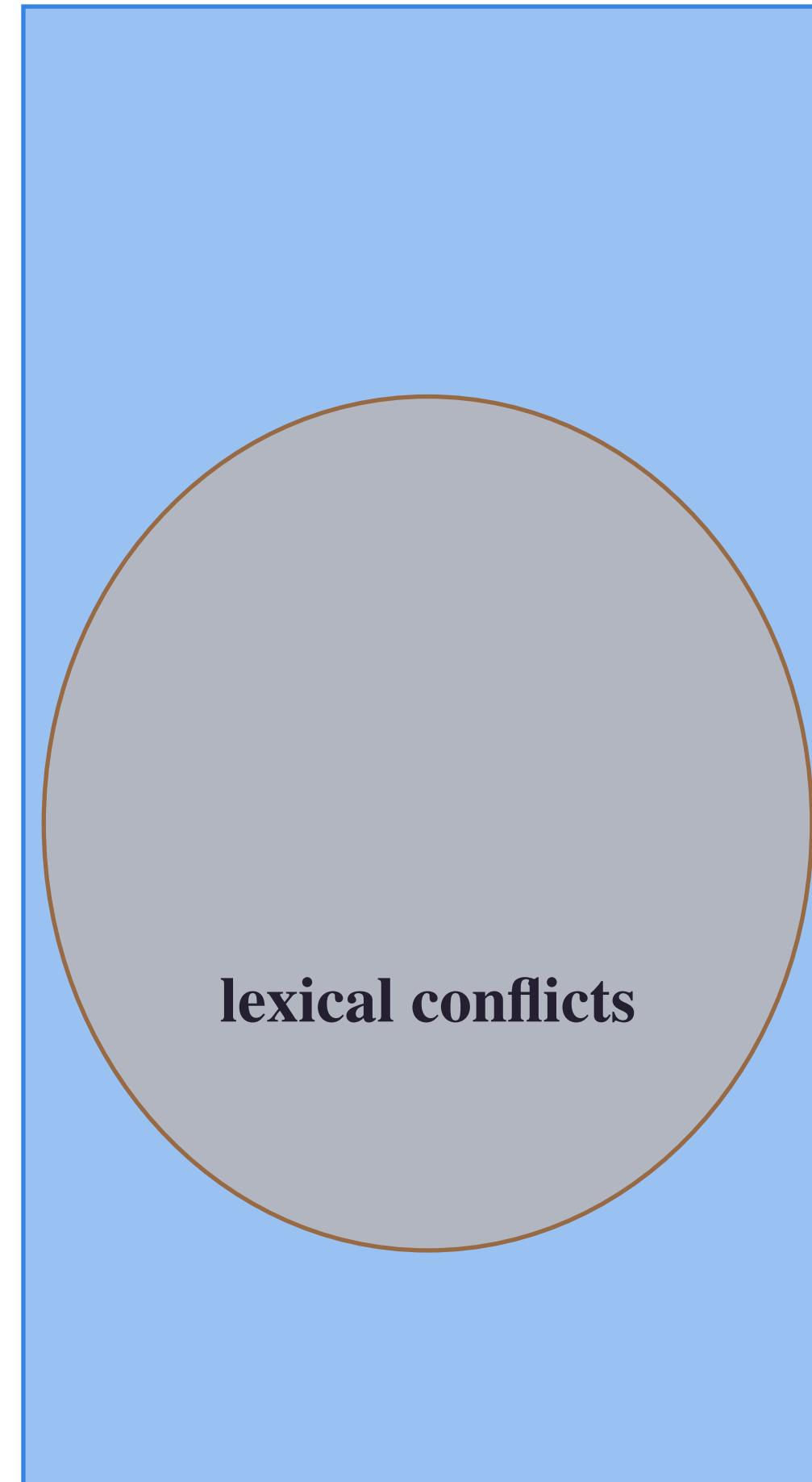
Resolve Conflicts

What a “Conflict” Means



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

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lexical conflicts

Resolve Conflicts

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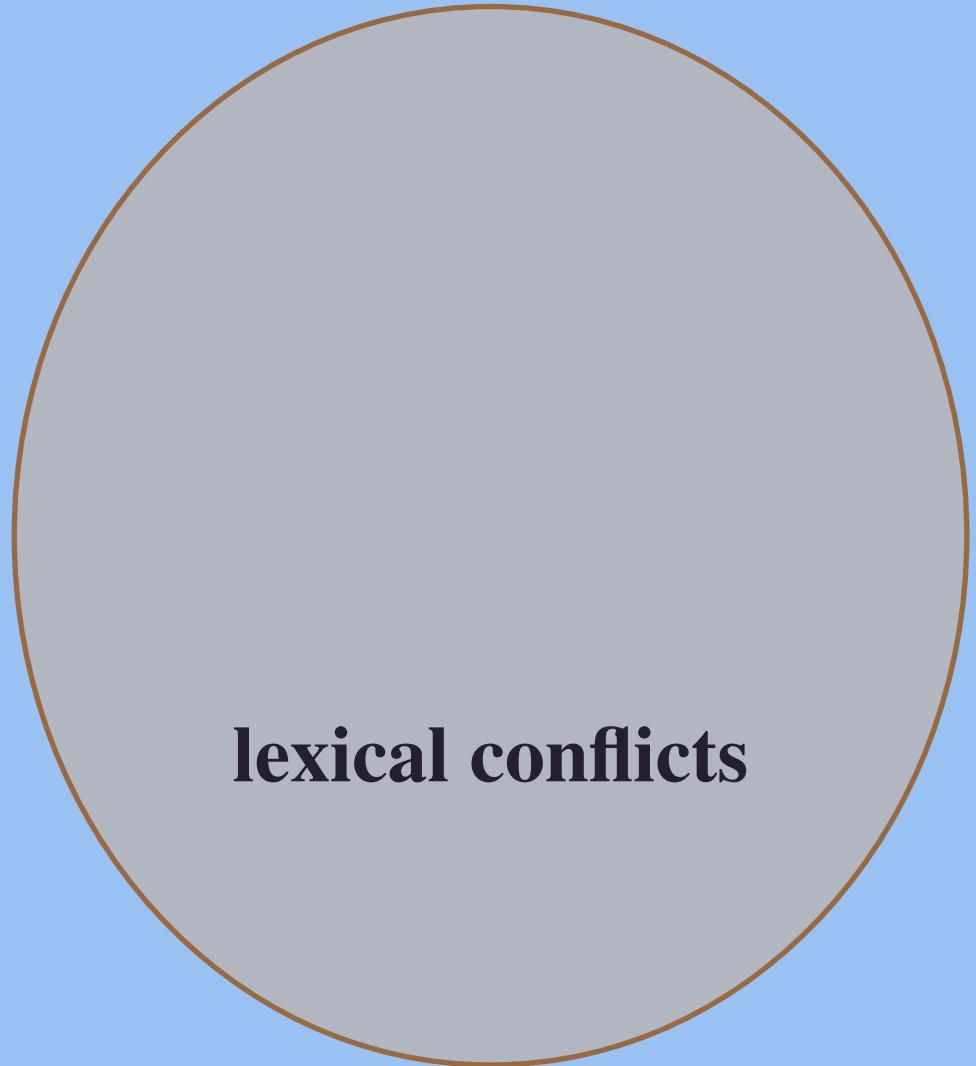
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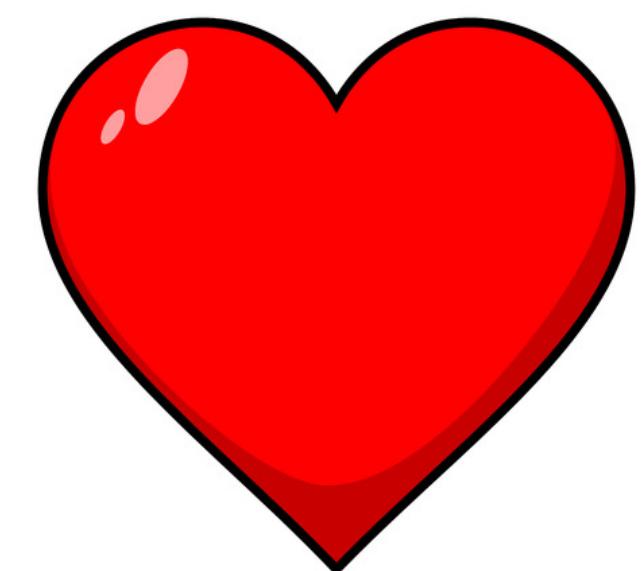
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! same lines !

lexical conflicts

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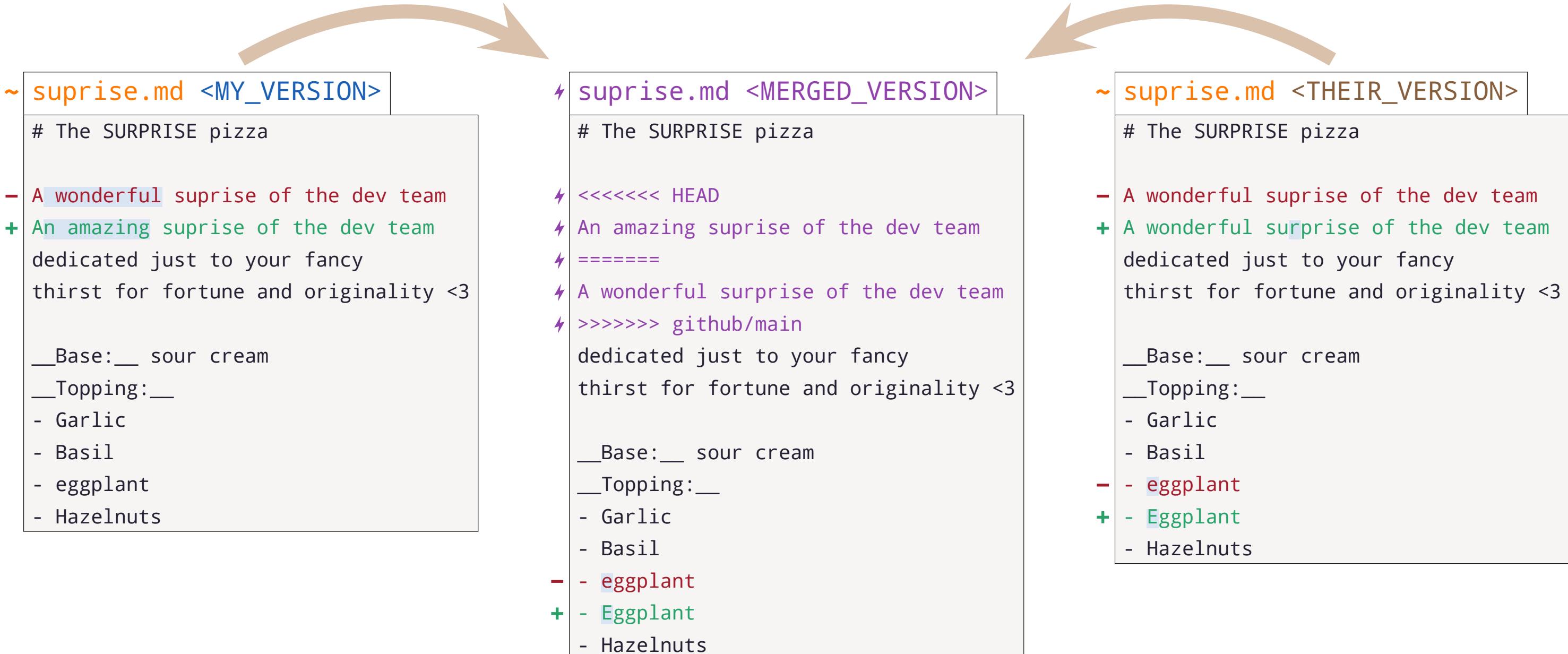
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lexical conflicts
>> git conflicts <<



Resolve Conflicts

What a “Conflict” Means



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⚡ suprise.md <MERGED_VERSION>

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Think, think, think.

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- Garlic
- Basil
- - eggplant
+ - Eggplant
- Hazelnuts
```



Human, you are in charge now.

Resolve Conflicts

What a “Conflict” Means

suprise.md <MY_VERSION>

```
# The SURPRISE pizza

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

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

suprise.md <MERGED_VERSION>

```
# The SURPRISE pizza

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

suprise.md <THEIR_VERSION>

```
# The SURPRISE pizza

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



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suprise.md <MY_VERSION>

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```

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__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- Hazelnuts

suprise.md <THEIR_VERSION>

```
# The SURPRISE pizza
```

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__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- Hazelnuts

Resolve Conflicts

What a “Conflict” Means

suprise.md <MY_VERSION>

```
# The SURPRISE pizza
```

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thirst for fortune and originality <3

```
__Base:__ sour cream
```

```
__Topping:__
```

- Garlic
- Basil
- Eggplant
- Hazelnuts

semantic conflicts

suprise.md <THEIR_VERSION>

```
# The SURPRISE pizza
```

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

```
__Base:__ sour cream
```

```
__Topping:__
```

- Garlic
- Basil
- Eggplant
- 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
dedicated just to your fancy
thirst for fortune and originality <3

__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- Hazelnuts

semantic conflicts

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

```
# The SURPRISE pizza
```

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

__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- + Bacon
- 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
dedicated just to your fancy
thirst for fortune and originality <3

```
__Base:__ sour cream
```

```
__Topping:__
```

- Garlic
- Basil
- Eggplant
- Hazelnuts

semantic conflicts
disjoint lines

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

```
# The SURPRISE pizza
```

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

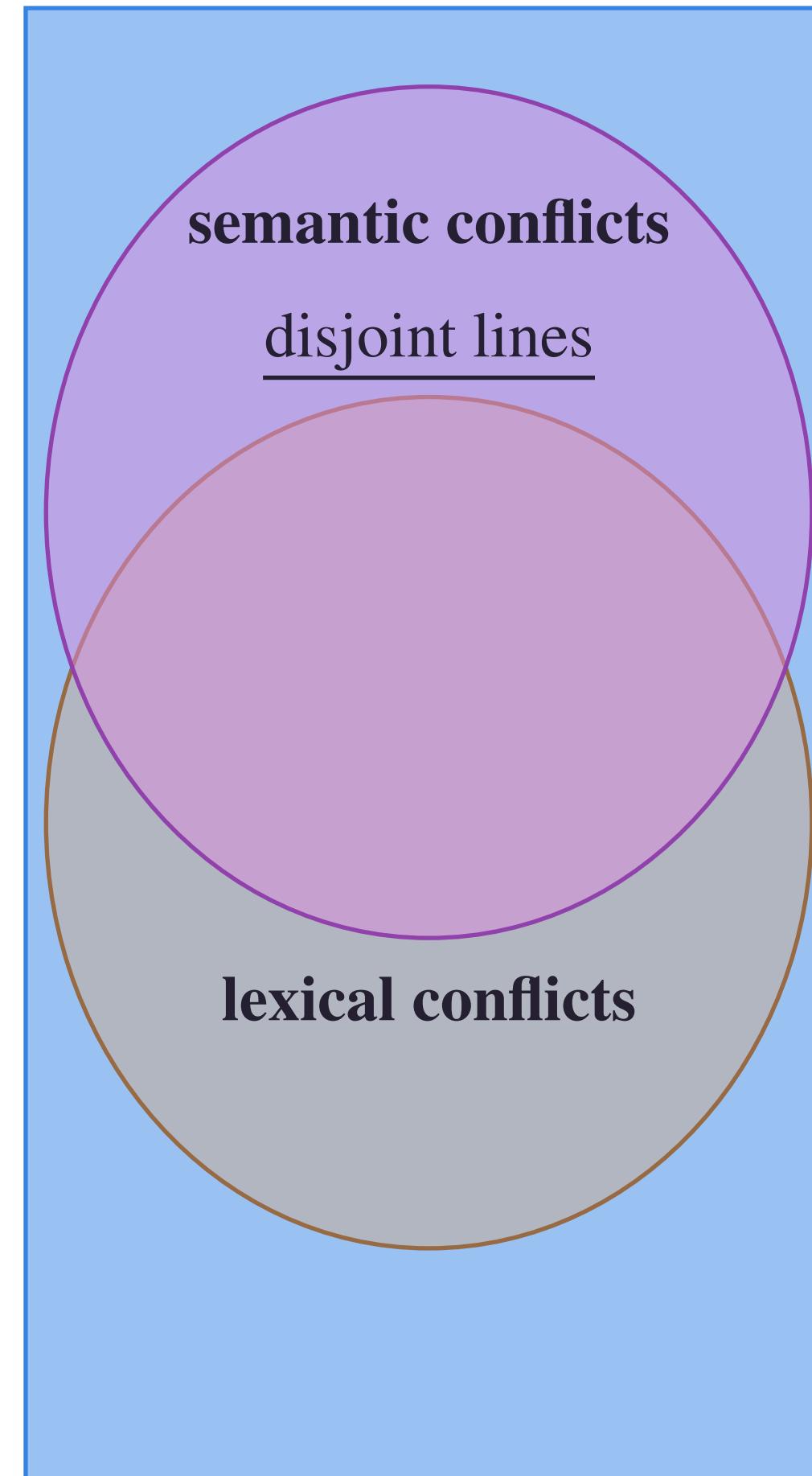
```
__Base:__ sour cream
```

```
__Topping:__
```

- Garlic
- Basil
- Eggplant
- Bacon
- 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
dedicated just to your fancy
thirst for fortune and originality <3

__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- Hazelnuts

~ **surprise.md <THEIR_VERSION>**

The SURPRISE pizza

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

__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- Bacon
- Hazelnuts

Resolve Conflicts

What a “Conflict” Means

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

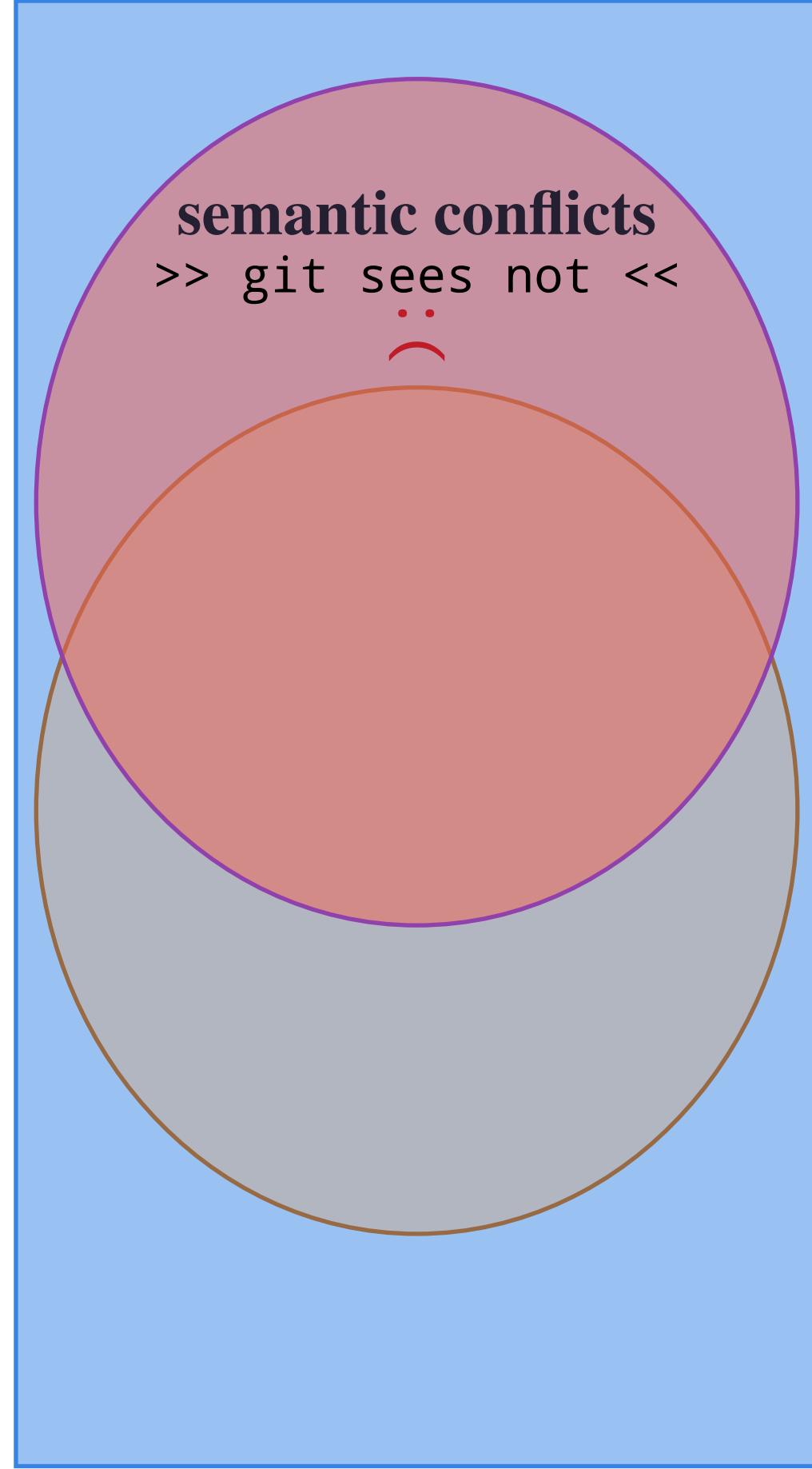
```
- # The SURPRISE pizza
+ # The SURPRISE vegetarian pizza
```

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

__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- Hazelnuts



semantic conflicts

>> git sees not <<



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

```
# The SURPRISE pizza
```

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

__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- + Bacon
- Hazelnuts

Resolve Conflicts

What a “Conflict” Means

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

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

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__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- Hazelnuts

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

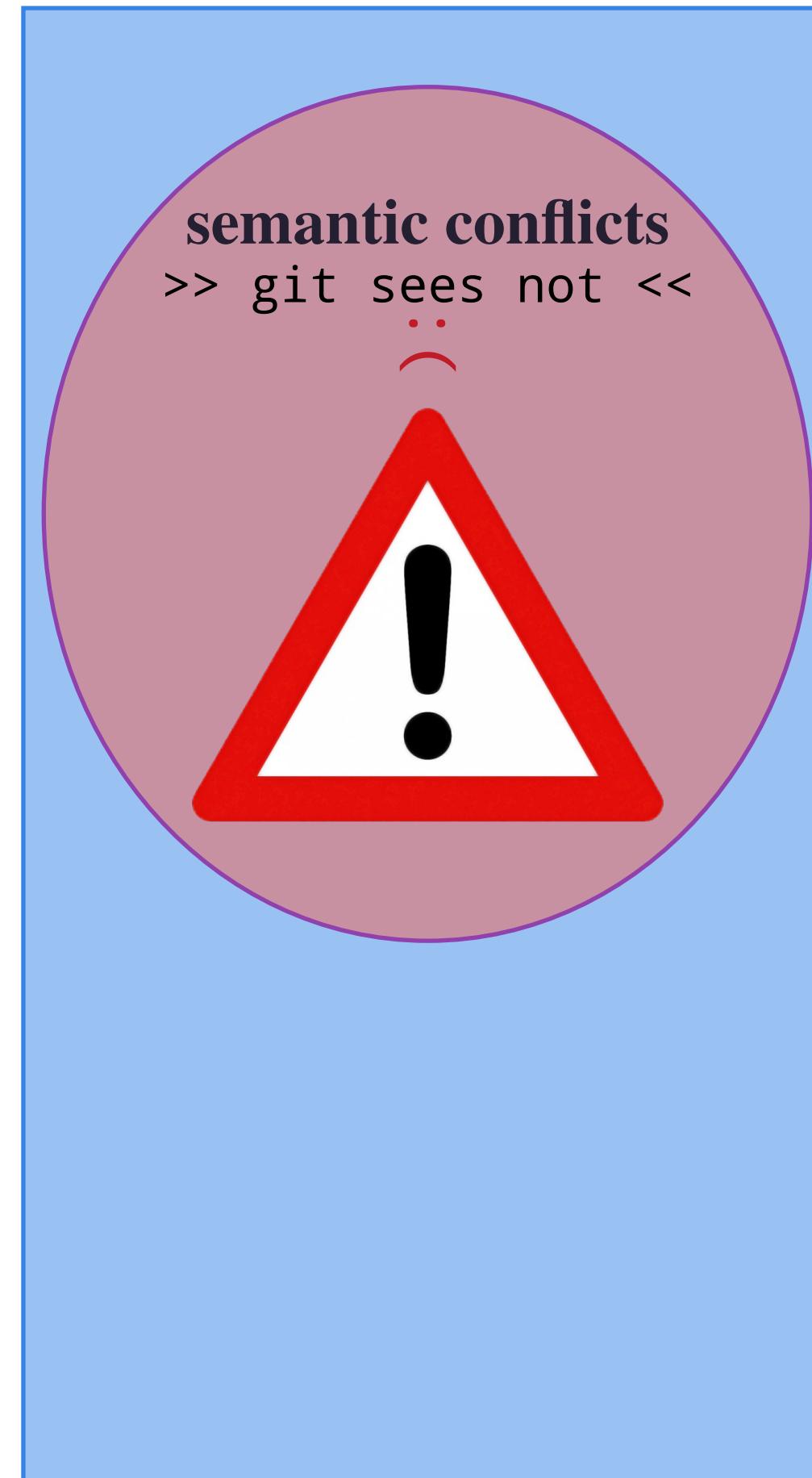
```
# The SURPRISE pizza
```

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

__Base:__ sour cream

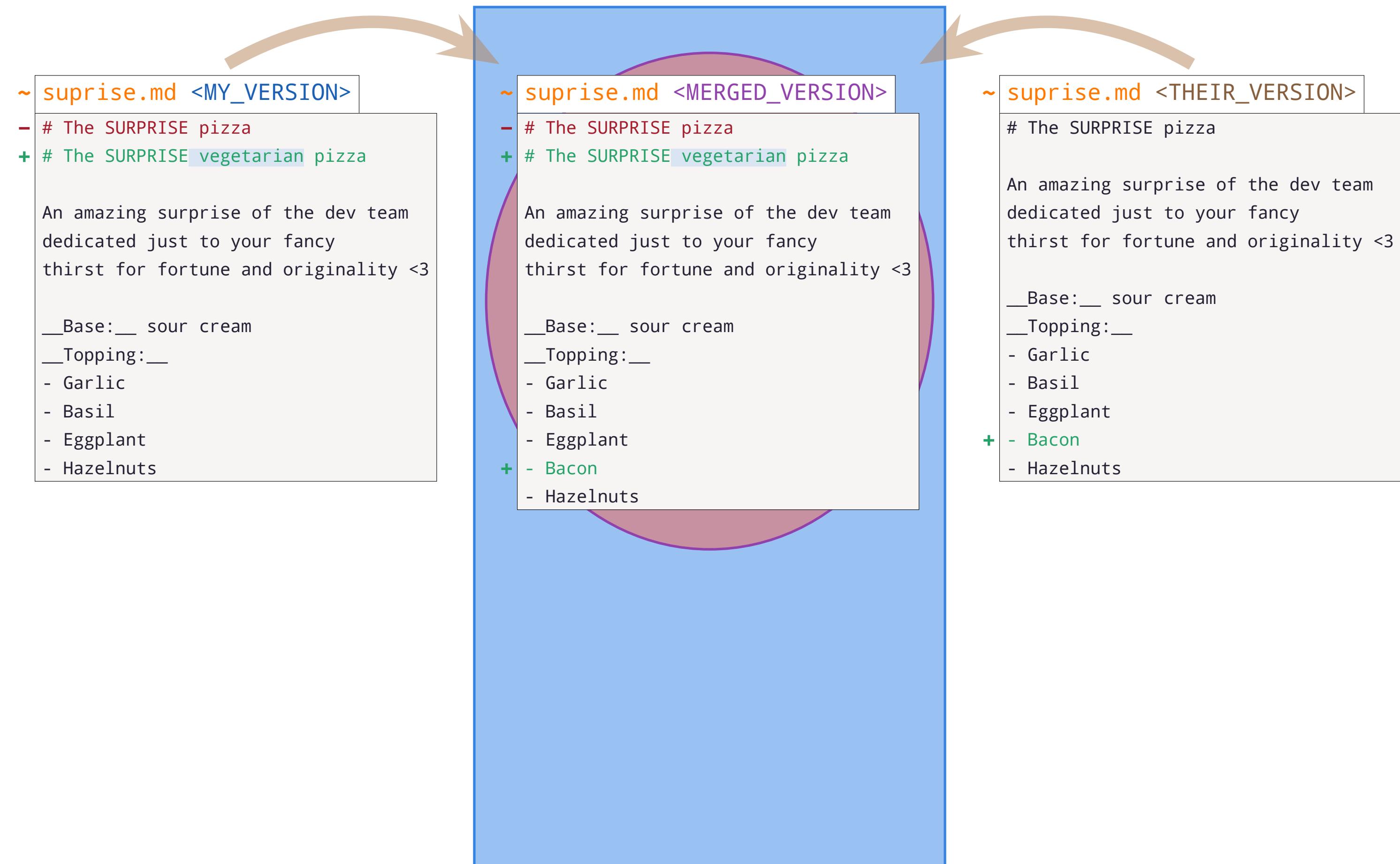
__Topping:__

- Garlic
- Basil
- Eggplant
- + - Bacon
- Hazelnuts



Resolve Conflicts

What a “Conflict” Means



Resolve Conflicts

What a “Conflict” Means

~ surprise.md <MY_VERSION>

- # The SURPRISE pizza
+ # The SURPRISE vegetarian pizza

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

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

surprise.md <MERGED_VERSION>

The SURPRISE vegetarian pizza

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

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

~ surprise.md <THEIR_VERSION>

The SURPRISE pizza

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

__Base:__ sour cream
__Topping:__
- Garlic
- Basil
- Eggplant
+ - Bacon
- Hazelnuts

Resolve Conflicts

What a “Conflict” Means

suprise.md <MY_VERSION>

```
# The SURPRISE vegetarian pizza
```

An amazing surprise of the dev team
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__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- Bacon
- Hazelnuts

suprise.md <MERGED_VERSION>

```
# 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
- Bacon
- Hazelnuts

suprise.md <THEIR_VERSION>

```
# 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
- Bacon
- Hazelnuts



Resolve Conflicts

What a “Conflict” Means

suprise.md <MY_VERSION>

```
# The SURPRISE vegetarian pizza
```

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

__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- Bacon
- Hazelnuts

suprise.md <THEIR_VERSION>

```
# The SURPRISE vegetarian pizza
```

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

__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- Bacon
- Hazelnuts



Resolve Conflicts

What a “Conflict” Means

suprise.md <MY_VERSION>

```
# The SURPRISE pizza
```

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

__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- Hazelnuts

suprise.md <THEIR_VERSION>

```
# The SURPRISE pizza
```

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

__Base:__ sour cream

__Topping:__

- Garlic
- Basil
- Eggplant
- Hazelnuts

So keep this in mind:

Resolve Conflicts

What a “Conflict” Means

suprise.md <MY_VERSION>

```
# The SURPRISE pizza
```

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

```
__Base:__ sour cream
```

```
__Topping:__
```

- Garlic
- Basil
- Eggplant
- Hazelnuts

suprise.md <THEIR_VERSION>

```
# The SURPRISE pizza
```

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

```
__Base:__ sour cream
```

```
__Topping:__
```

- Garlic
- Basil
- Eggplant
- Hazelnuts

no conflicts
(happy zone)
:-)

Resolve Conflicts

What a “Conflict” Means

suprise.md <MY_VERSION>

```
# The SURPRISE pizza
```

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

```
__Base:__ sour cream
```

```
__Topping:__
```

- Garlic
- Basil
- Eggplant
- Hazelnuts

suprise.md <THEIR_VERSION>

```
# The SURPRISE pizza
```

An amazing surprise of the dev team
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>

```
# The SURPRISE pizza

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

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

semantic conflicts
-> git sees not <<



lexical conflicts
-> git conflicts <<



no conflicts
(*happy zone*)



suprise.md <THEIR_VERSION>

```
# The SURPRISE pizza

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

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

Resolve Conflicts

What a “Conflict” Means

surprise.md <MY_VERSION>

```
# The SURPRISE pizza

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

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

surprise.md <THEIR_VERSION>

```
# The SURPRISE pizza

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

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



Resolve Conflicts

What a “Conflict” Means

suprise.md <MY_VERSION>

```
# The SURPRISE pizza
```

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

```
__Base:__ sour cream
```

```
__Topping:__
```

- Garlic
- Basil
- Eggplant
- Hazelnuts

suprise.md <THEIR_VERSION>

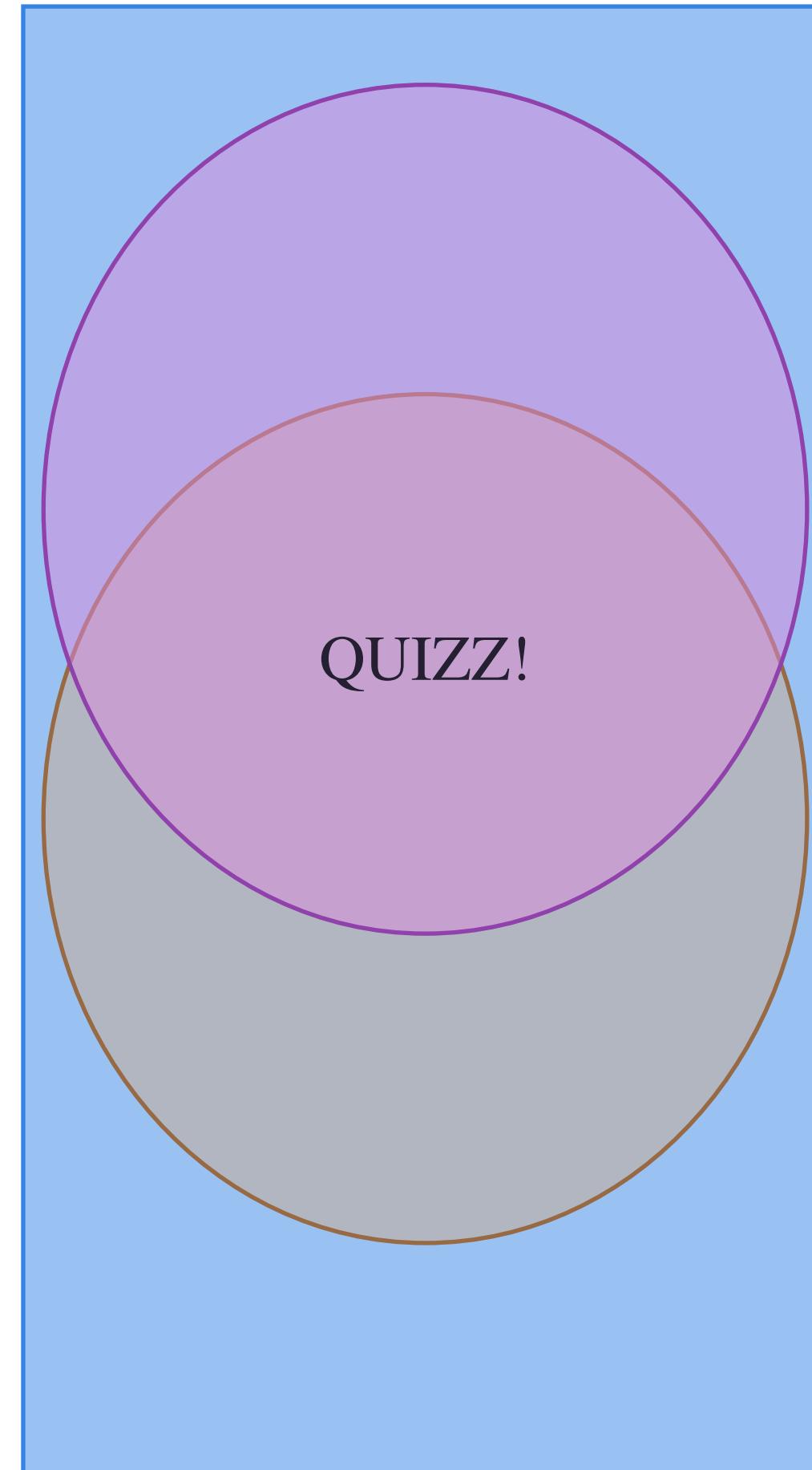
```
# The SURPRISE pizza
```

An amazing surprise of the dev team
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>**

```
# The SURPRISE pizza
```

An amazing surprise of the dev team
dedicated just to your fancy

- **thirst for fortune and originality <3**
+ **craave for fortune and originality <3**

Base:__ sour cream

Topping:__

- Garlic
- Basil
- Eggplant
- Hazelnuts

~ **suprise.md <THEIR_VERSION>**

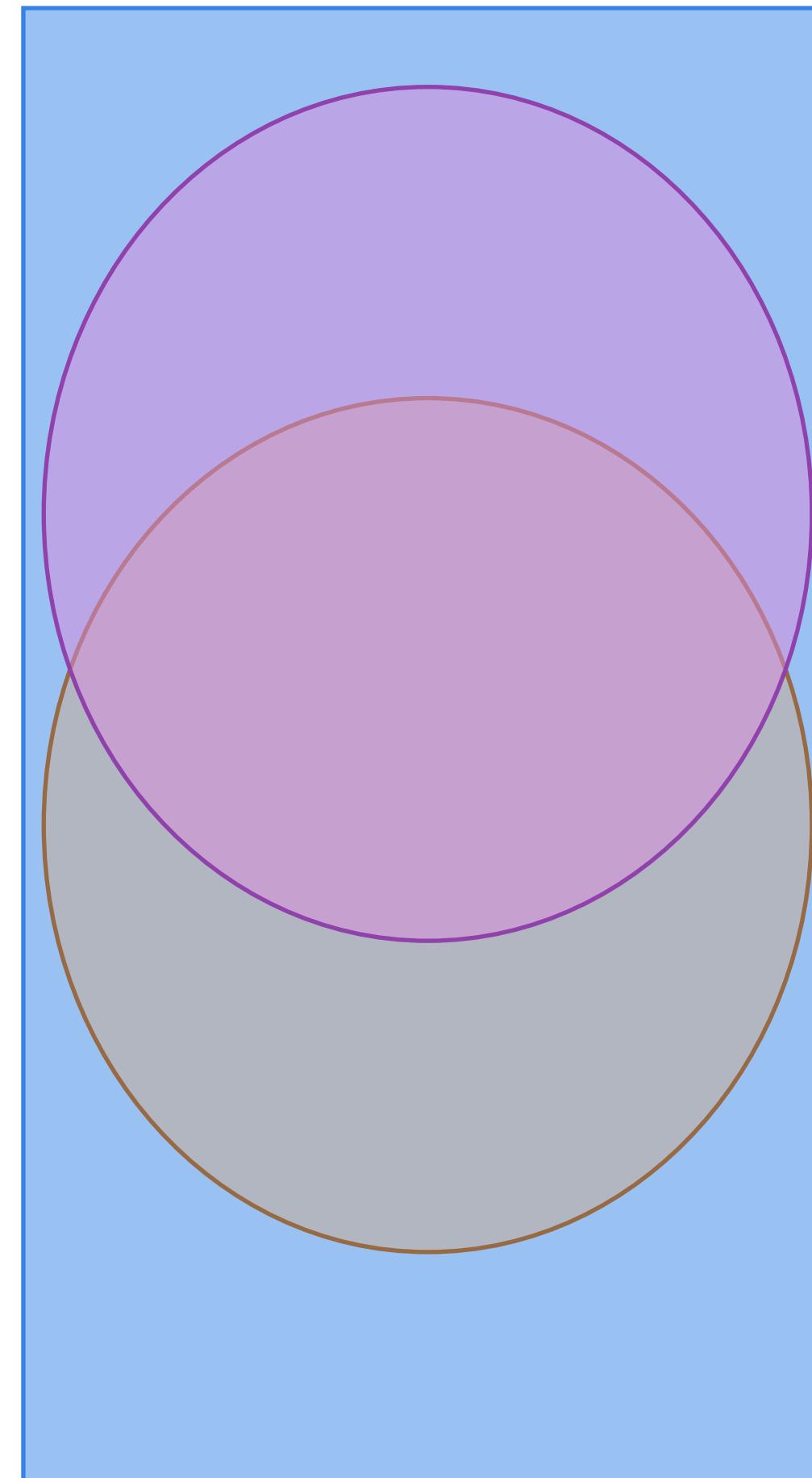
```
# The SURPRISE pizza
```

An amazing surprise of the dev team
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>**

```
# The SURPRISE pizza

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

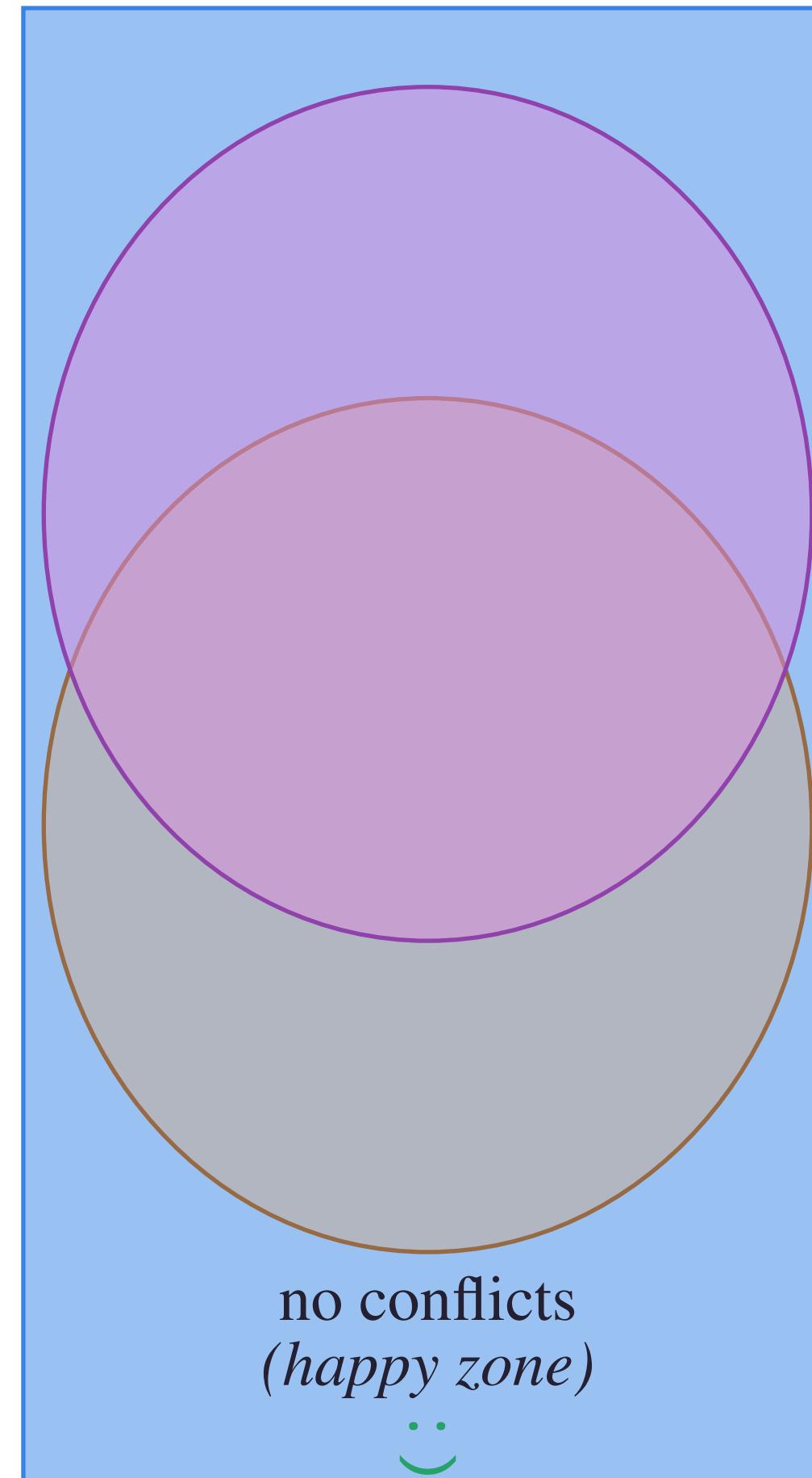
__Base:__ sour cream
__Topping:__
- Garlic
- Basil
- Eggplant
- Hazelnuts
```

~ **suprise.md <THEIR_VERSION>**

```
# The SURPRISE pizza

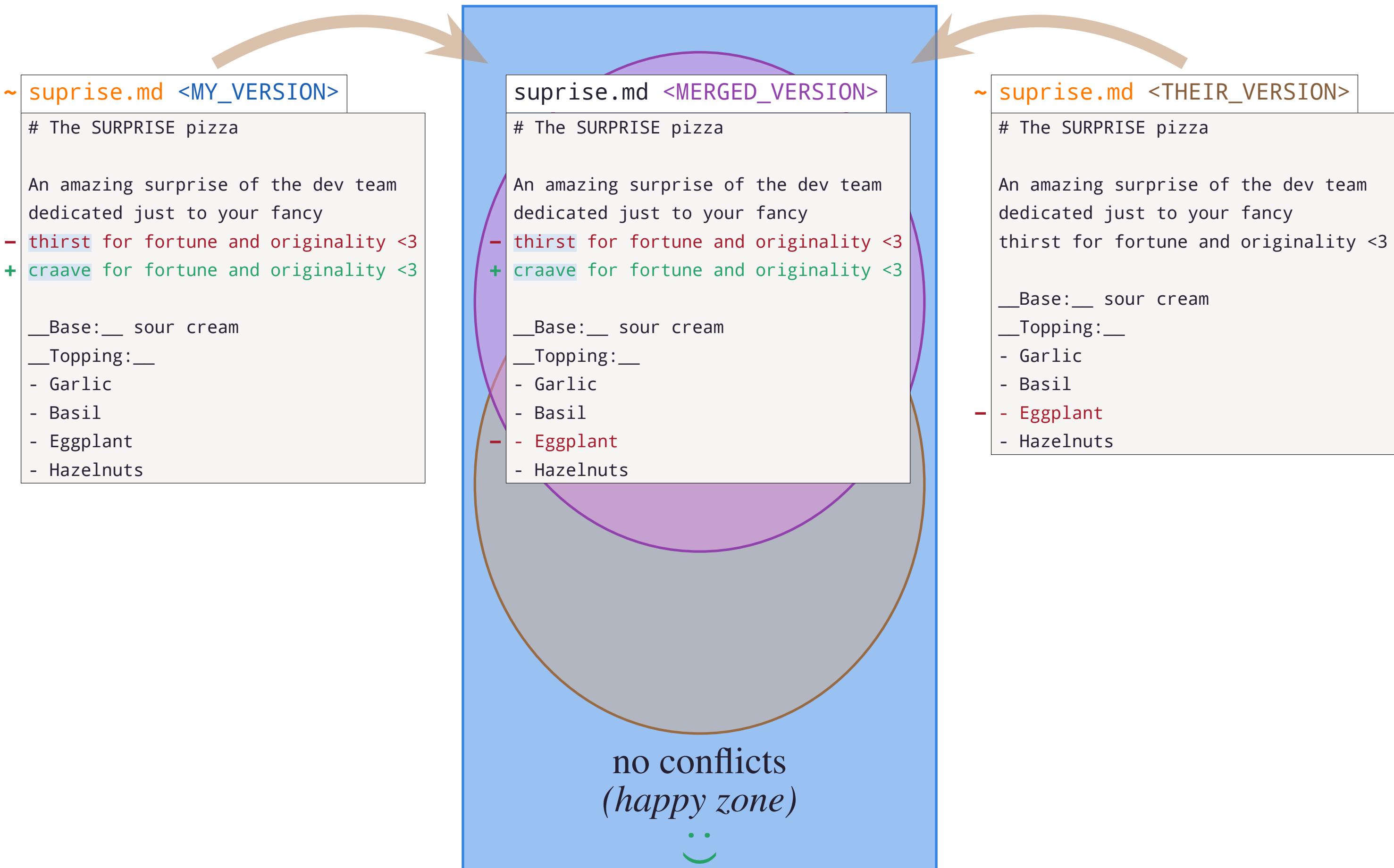
An amazing surprise of the dev team
dedicated just to your fancy
thirst for fortune and originality <3

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



Resolve Conflicts

What a “Conflict” Means



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
+ craave for fortune and originality <3

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

`suprise.md <MERGED_VERSION>`

```
# The SURPRISE pizza

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

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

~ `suprise.md <THEIR_VERSION>`

```
# The SURPRISE pizza

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

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

no conflicts
(*happy zone*)
:-)

Resolve Conflicts

What a “Conflict” Means

suprise.md <MY_VERSION>

```
# The SURPRISE pizza

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

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

suprise.md <MERGED_VERSION>

```
# The SURPRISE pizza

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

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

suprise.md <THEIR_VERSION>

```
# The SURPRISE pizza

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craave for fortune and originality <3

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

no conflicts
(*happy zone*)
:-)

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
craave for fortune and originality <3

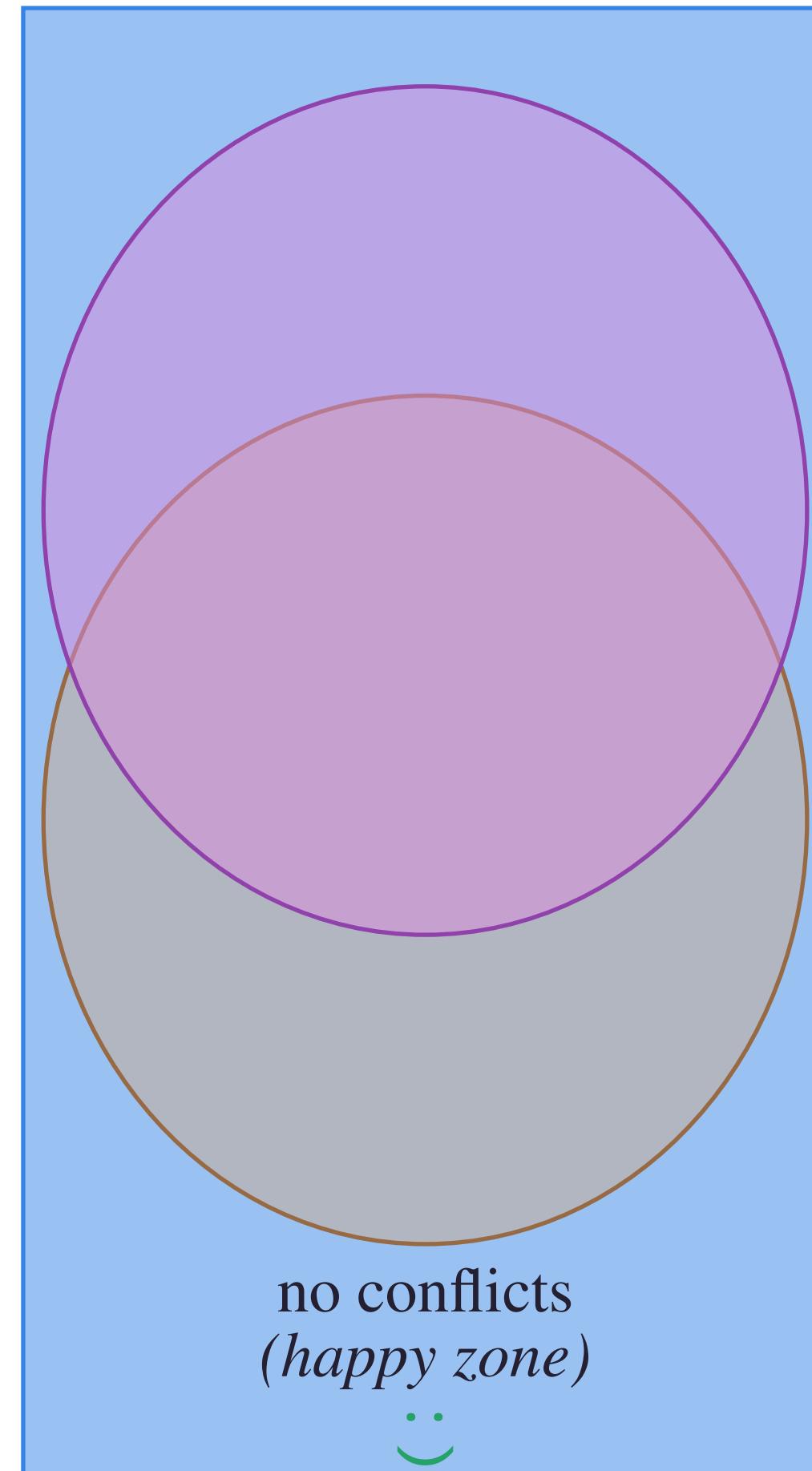
__Base:__ sour cream
__Topping:__
- Garlic
- Basil
- Hazelnuts
```

suprise.md <THEIR_VERSION>

```
# The SURPRISE pizza

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

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



Resolve Conflicts

What a “Conflict” Means

~ **surprise.md <MY_VERSION>**

```
# The SURPRISE pizza

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

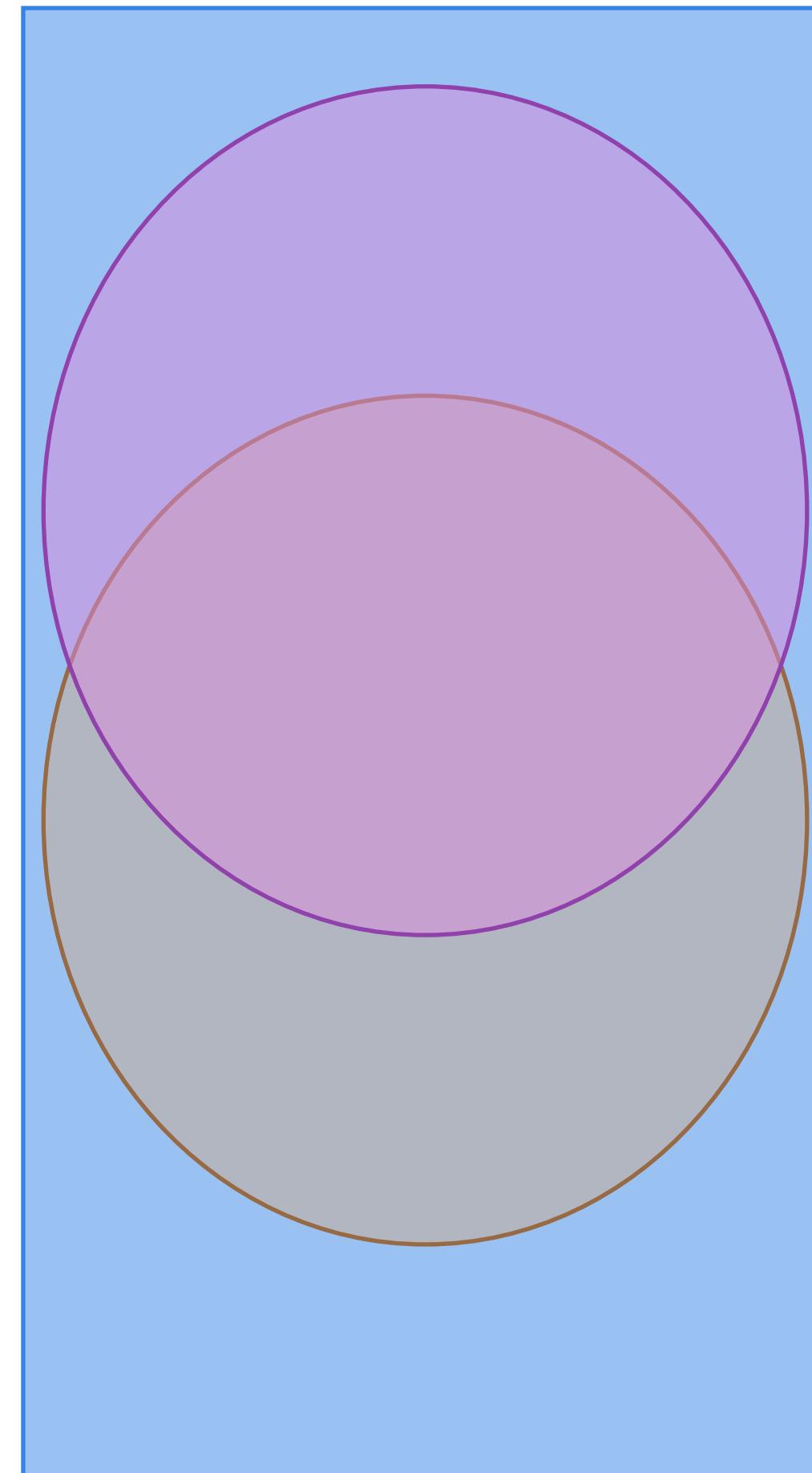
- __Base:__ sour cream
+ __Base:__ Sour cream
__Topping:__
- Garlic
- Basil
- Eggplant
- Hazelnuts
```

~ **surprise.md <THEIR_VERSION>**

```
# The SURPRISE pizza

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

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



Resolve Conflicts

What a “Conflict” Means

~ `surprise.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`

+ `_Base:__ Sour cream`

`_Topping:__`

- Garlic

- Basil

- Eggplant

- Hazelnuts

~ `surprise.md <THEIR_VERSION>`

```
# The SURPRISE pizza
```

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

- `_Base:__ sour cream`

+ `_Base:__ Sour Cream`

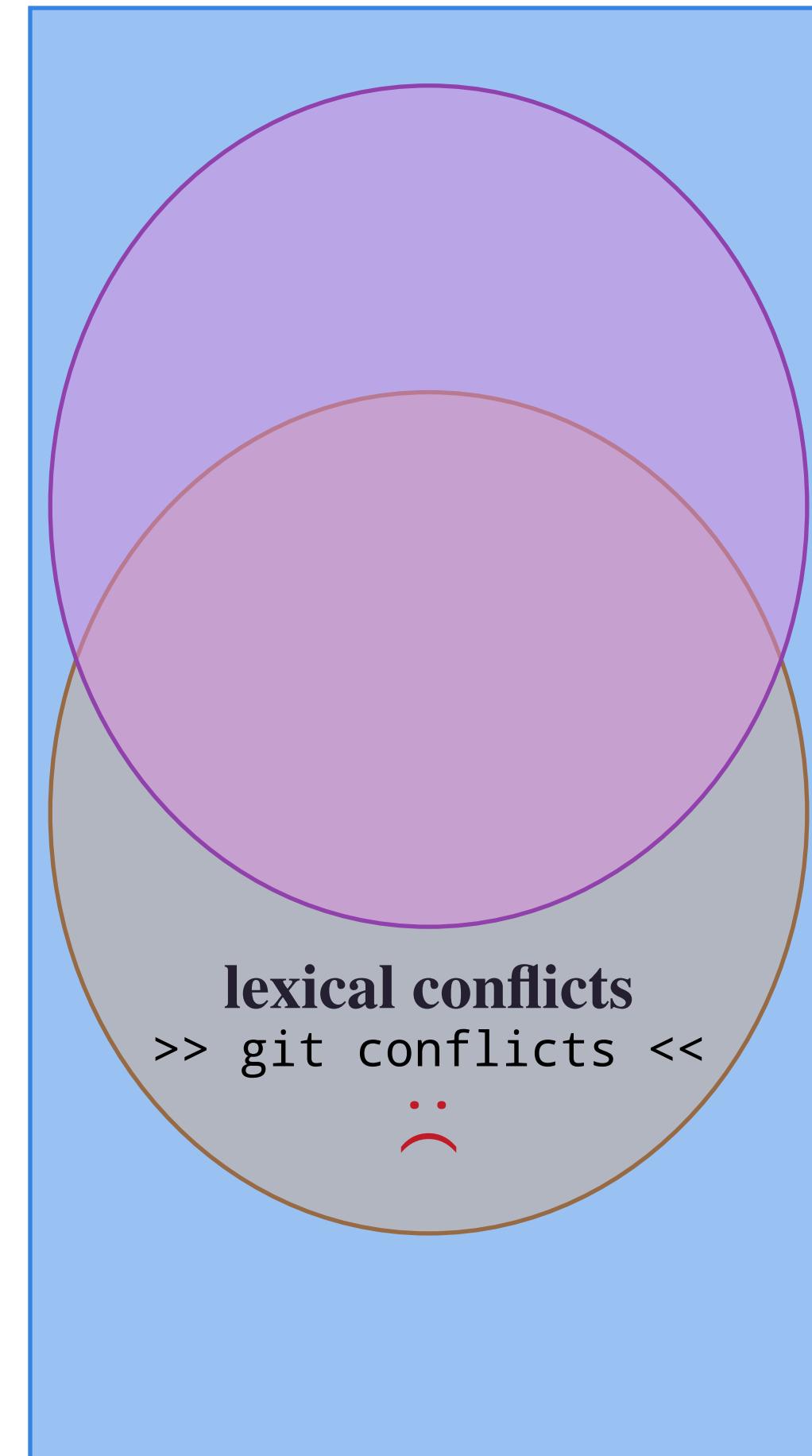
`_Topping:__`

- Garlic

- Basil

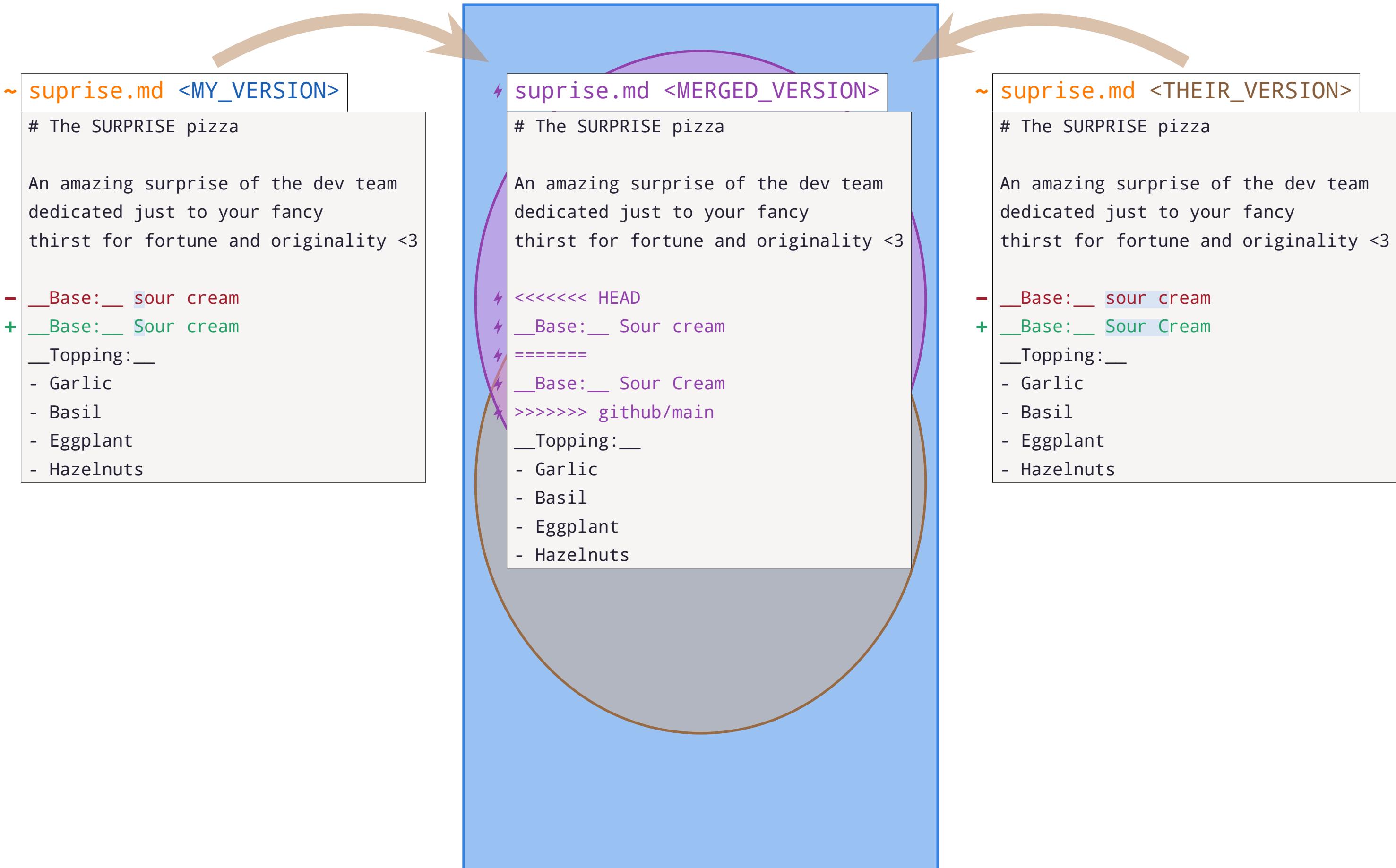
- Eggplant

- Hazelnuts



Resolve Conflicts

What a “Conflict” Means



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
+ __Base:__ Sour cream
__Topping:__
- Garlic
- Basil
- Eggplant
- Hazelnuts
```

⚡ suprise.md <MERGED_VERSION>

```
# The SURPRISE pizza

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

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



Think, think, think.

Resolve Conflicts

What a “Conflict” Means

~ surprise.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

+ __Base:__ Sour cream

__Topping:__

- Garlic

- Basil

- Eggplant

- Hazelnuts

⚡ surprise.md <MERGED_VERSION>

```
# The SURPRISE pizza

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

__Base:__ Sour Cream

__Topping:__

- Garlic

- Basil

- Eggplant

- Hazelnuts

~ surprise.md <THEIR_VERSION>

```
# The SURPRISE pizza
```

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

- __Base:__ sour cream

+ __Base:__ Sour Cream

__Topping:__

- Garlic

- Basil

- Eggplant

- Hazelnuts



Resolve Conflicts

What a “Conflict” Means

suprise.md <MY_VERSION>

```
# The SURPRISE pizza

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

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

suprise.md <MERGED_VERSION>

```
# The SURPRISE pizza

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

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

suprise.md <THEIR_VERSION>

```
# The SURPRISE pizza

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

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



Resolve Conflicts

What a “Conflict” Means

suprise.md <MY_VERSION>

```
# The SURPRISE pizza

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

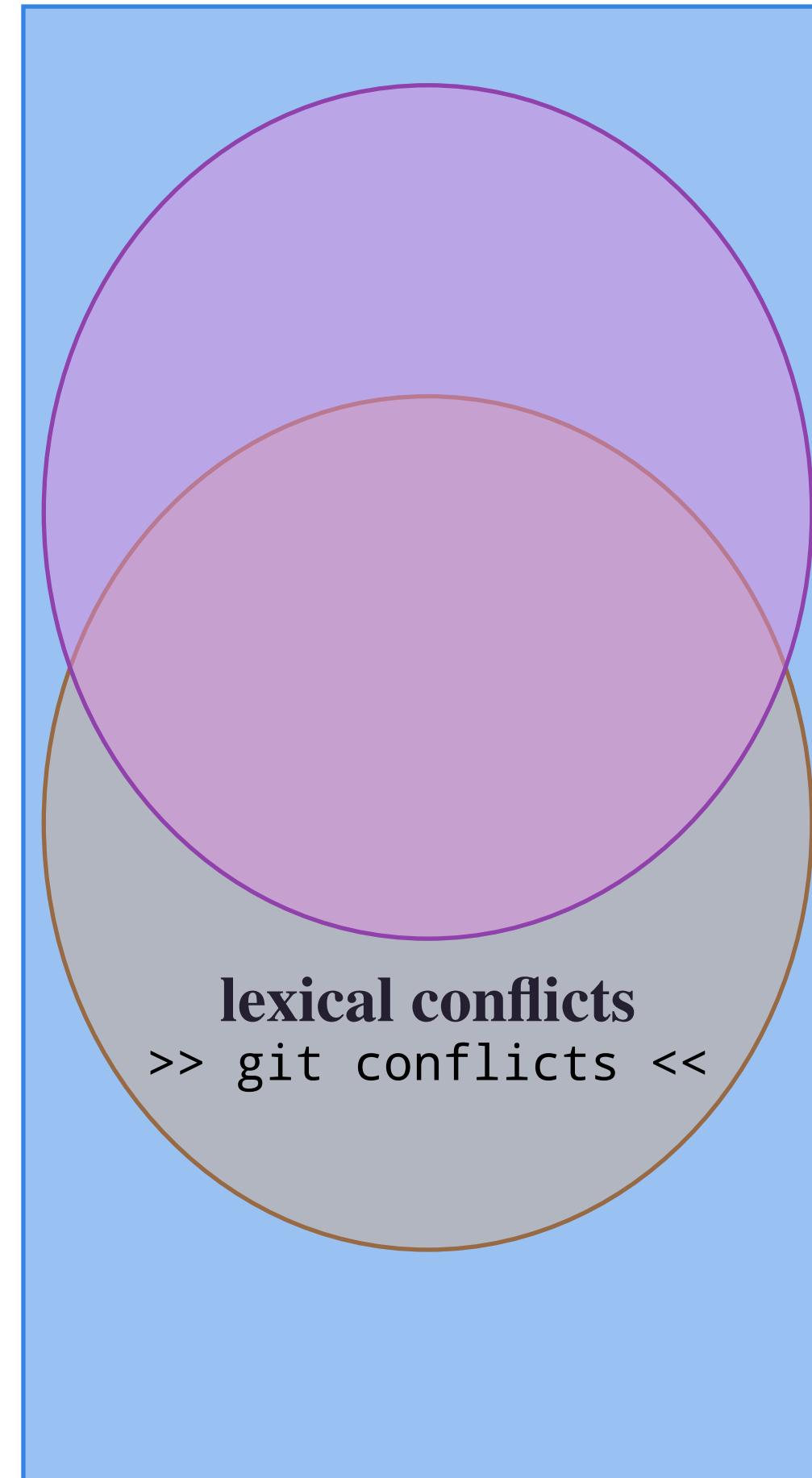
__Base:__ Sour Cream
__Topping:__
- Garlic
- Basil
- Eggplant
- Hazelnuts
```

suprise.md <THEIR_VERSION>

```
# The SURPRISE pizza

An amazing surprise of the dev team
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>

```
# The SURPRISE pizza

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

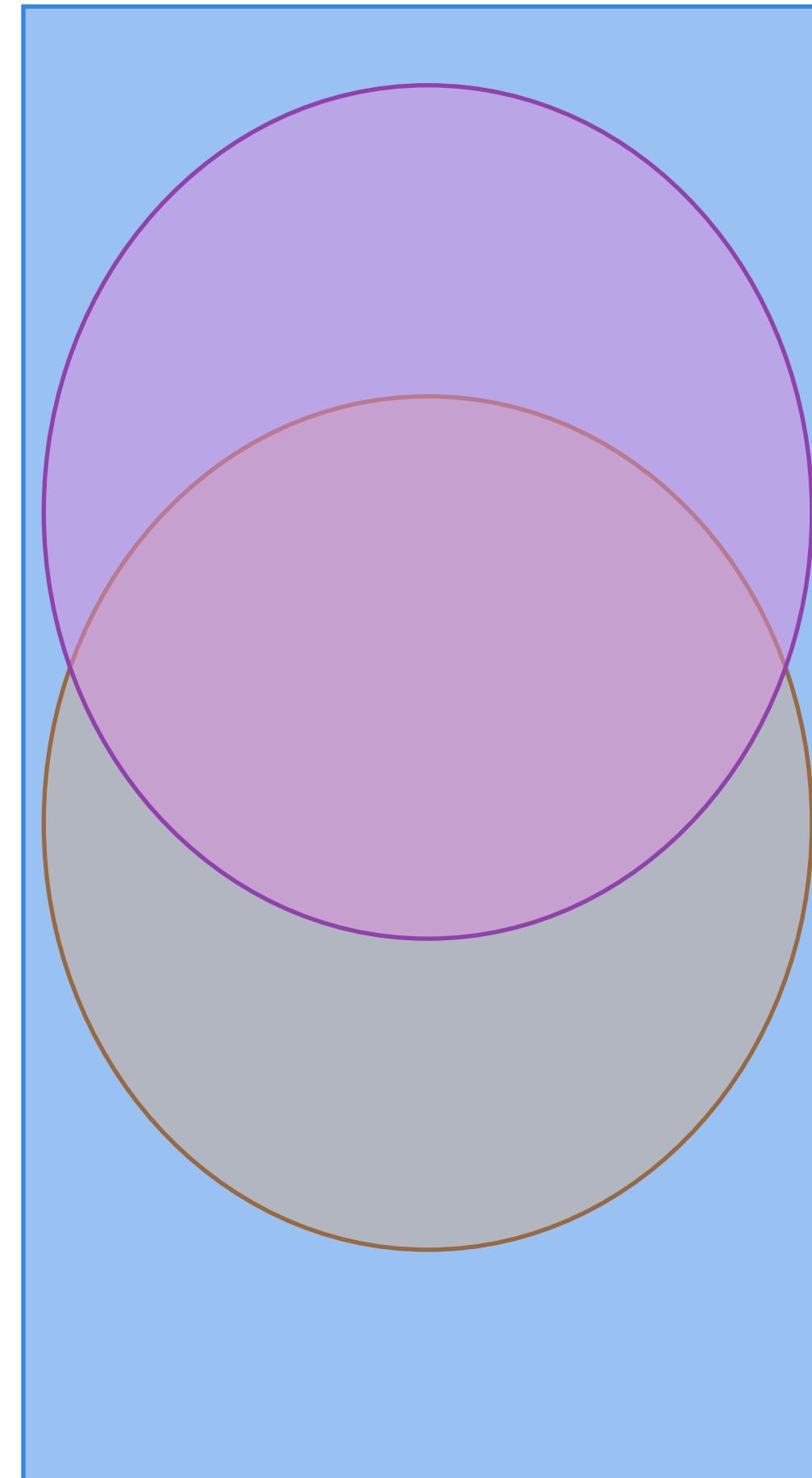
__Base:__ sour cream
__Topping:__
- Garlic
- Basil
- Eggplant
- Hazelnuts
```

~ suprise.md <THEIR_VERSION>

```
# The SURPRISE pizza

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

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



Resolve Conflicts

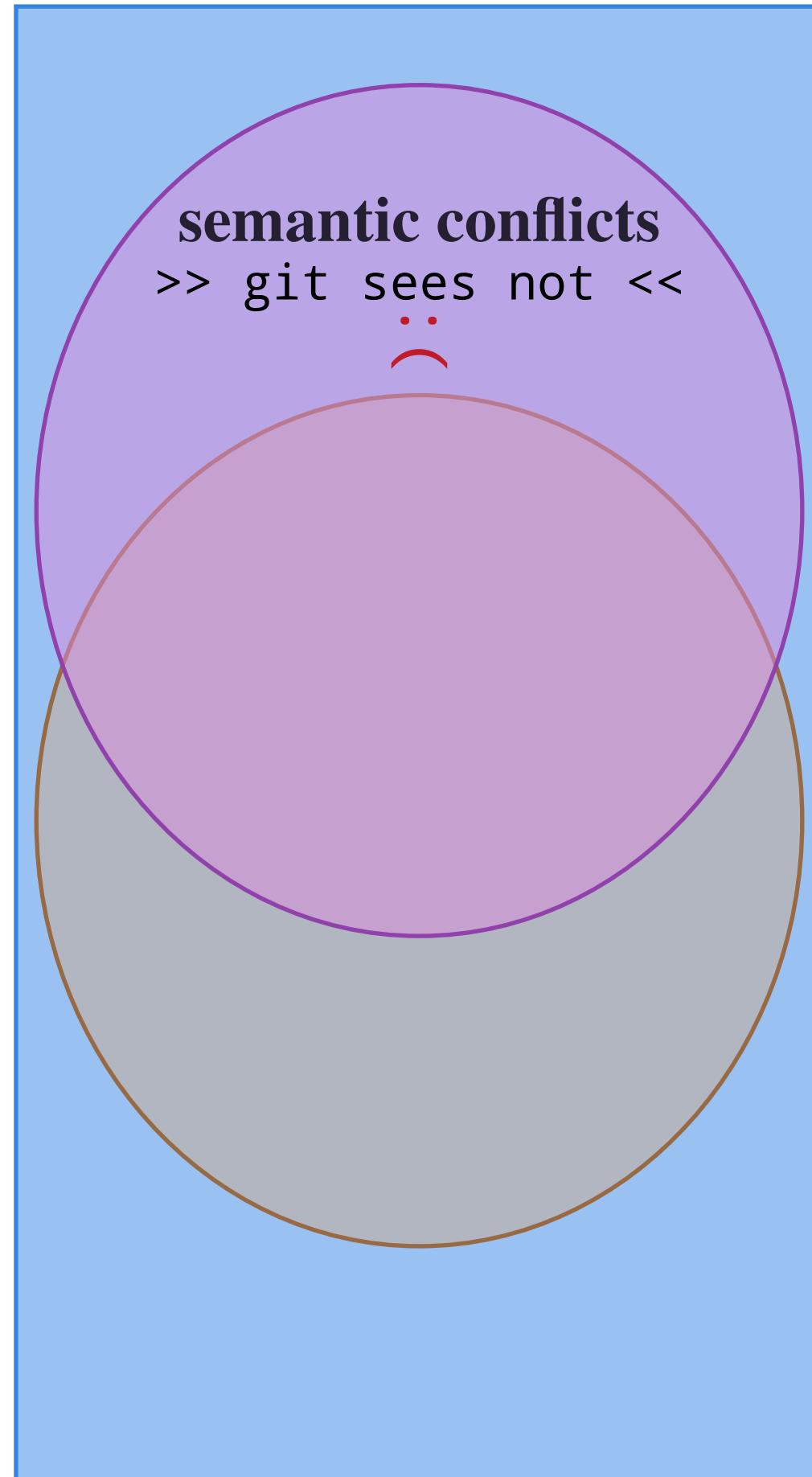
What a “Conflict” Means

suprise.md <MY_VERSION>

```
# The SURPRISE pizza

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

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



~ suprise.md <THEIR_VERSION>

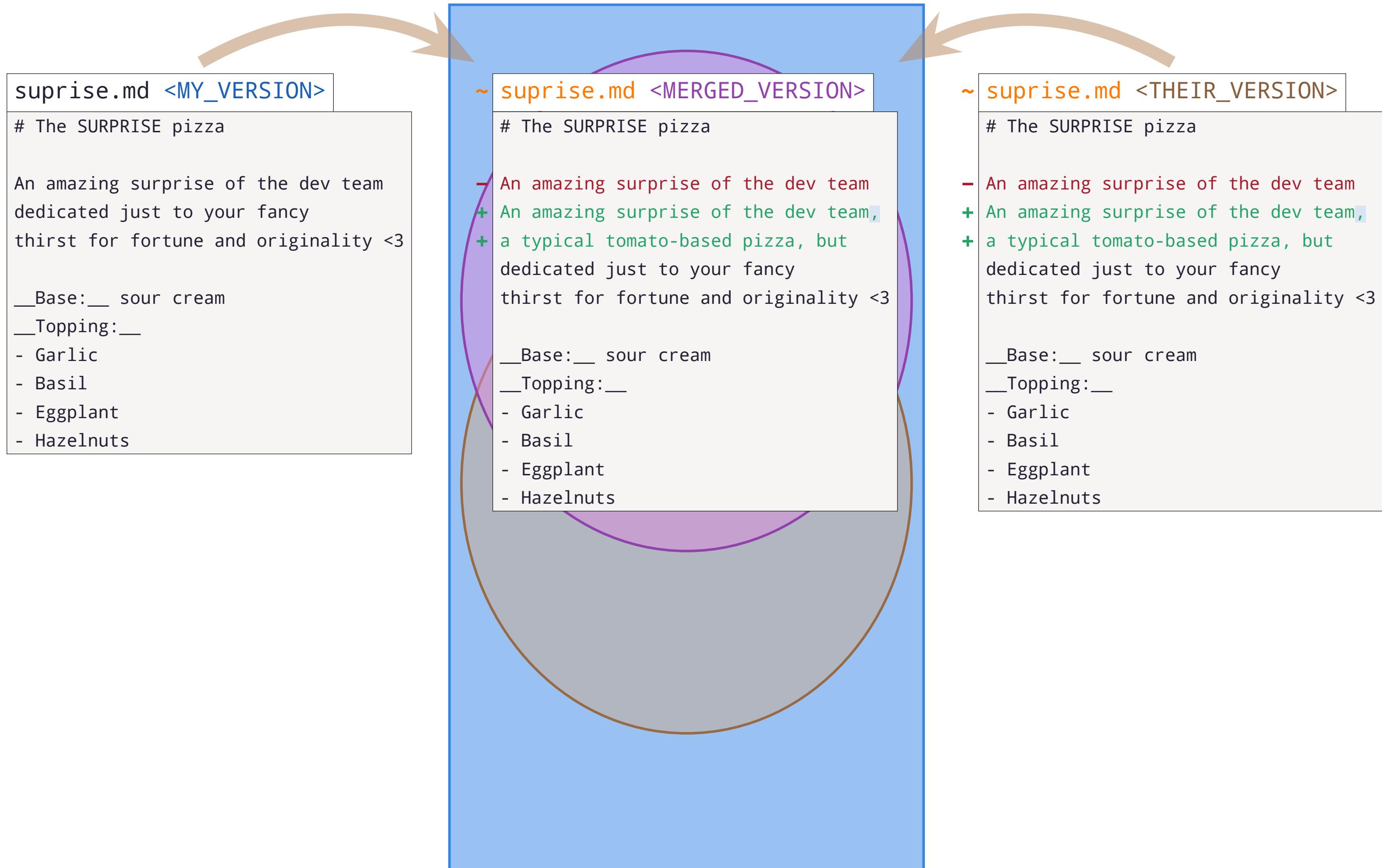
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- An amazing surprise of the dev team
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Resolve Conflicts

What a “Conflict” Means



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~ suprise.md <MERGED_VERSION>

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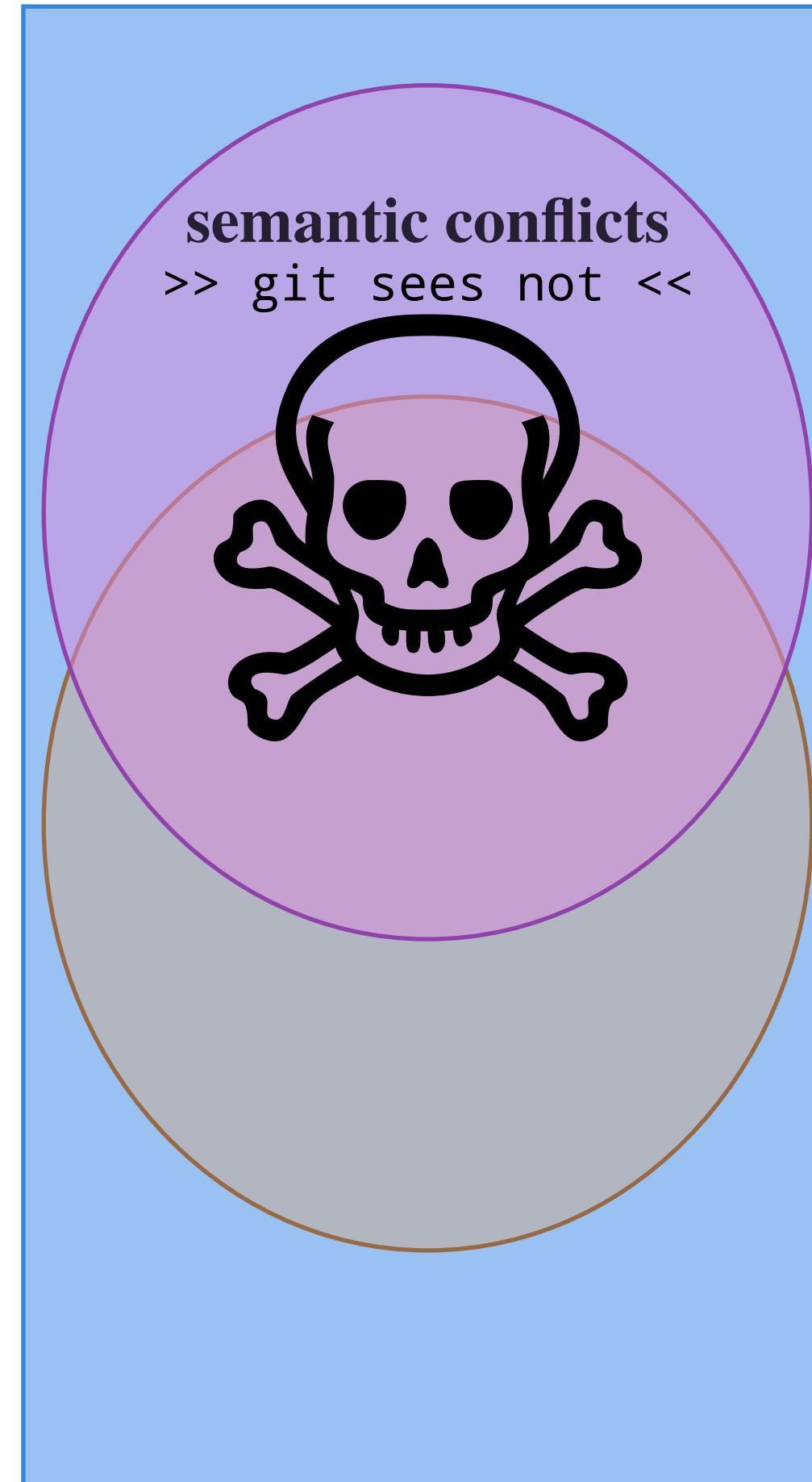
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surprise.md <THEIR_VERSION>

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Resolve Conflicts

What a “Conflict” Means

~ **surprise.md <MY_VERSION>**

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__Base:__ sour cream
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```
__Topping:__
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+ - Sweet garlic

- Basil

- Eggplant

- Hazelnuts

~ **surprise.md <THEIR_VERSION>**

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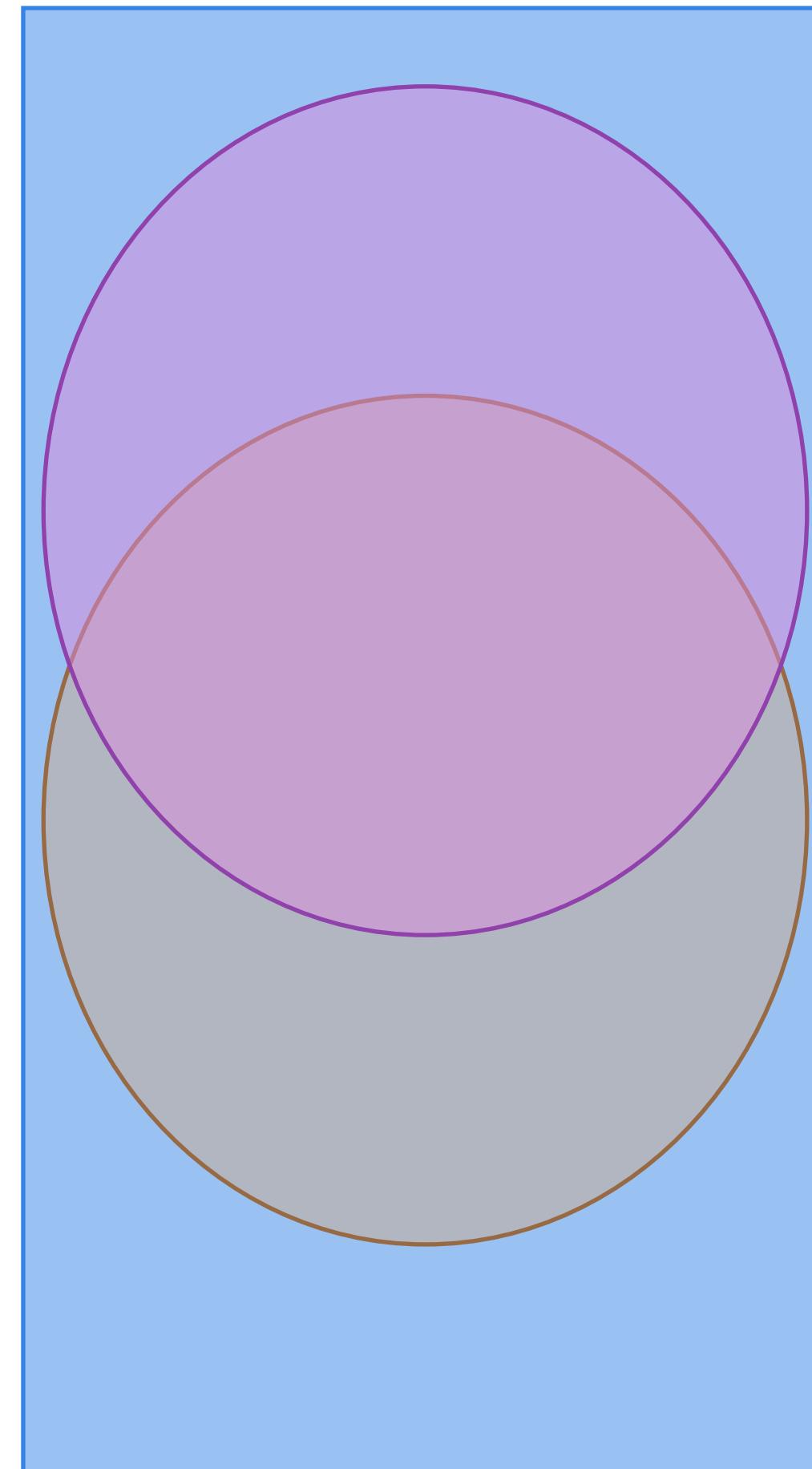
- - Garlic

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Resolve Conflicts

What a “Conflict” Means

~ **surprise.md <MY_VERSION>**

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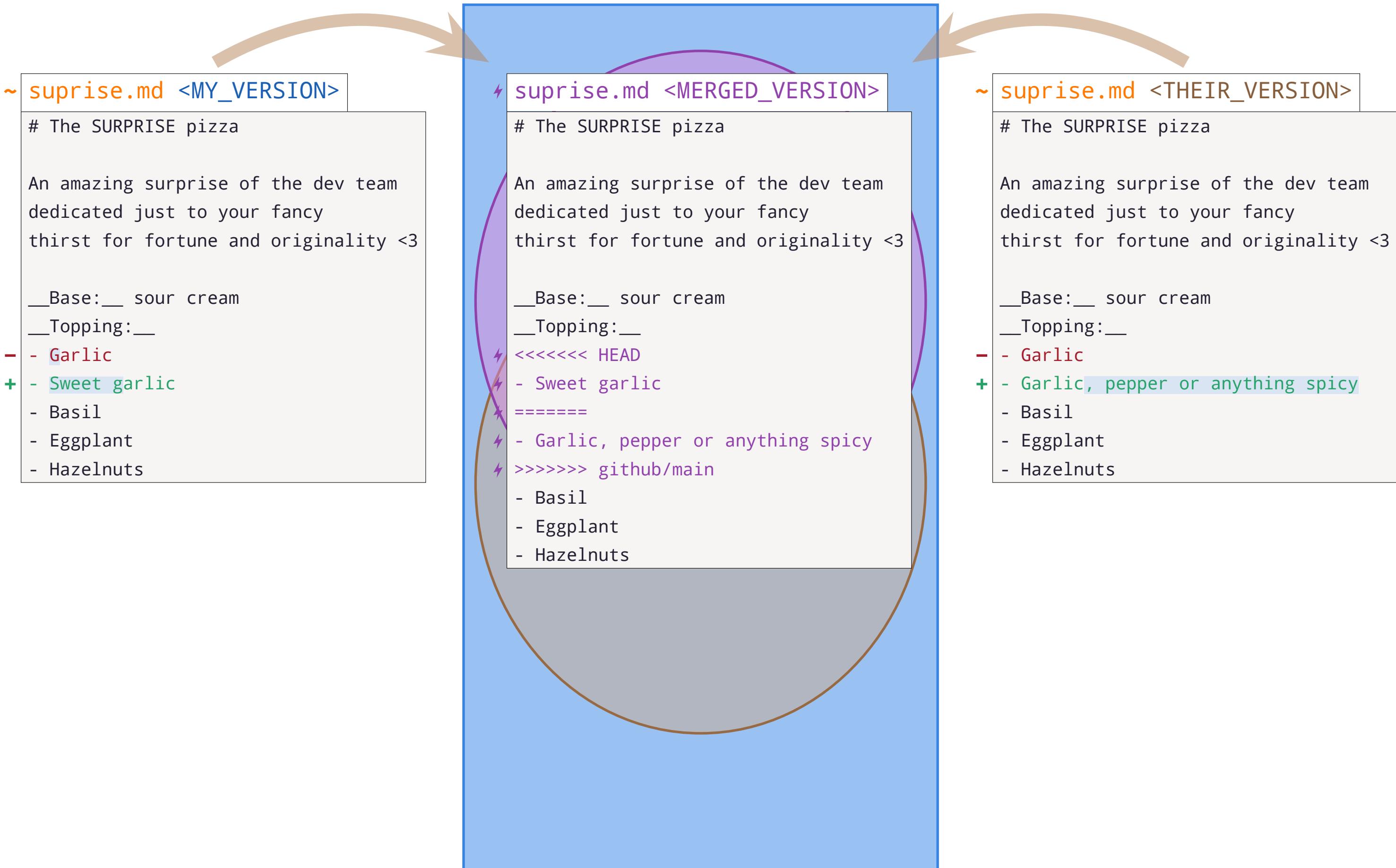
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Resolve Conflicts

What a “Conflict” Means



Resolve Conflicts

What a “Conflict” Means

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Think, think, think.

⚡ **suprise.md <MERGED_VERSION>**

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```

```
__Topping:__
```

<<<<< HEAD

- - Sweet garlic

=====

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>>>>> github/main

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~ **suprise.md <THEIR_VERSION>**

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What a “Conflict” Means

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* suprise.md <MERGED_VERSION>

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Resolve Conflicts

What a “Conflict” Means

~ surprise.md <MY_VERSION>

The SURPRISE pizza

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Think, think, think.

- surprise.md <THEIR_VERSION>

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Base: sour cream

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- Eggplant

- Hazelnuts



semantic conflicts

>> git sees not <<



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



lexical conflicts

>> git conflicts <<



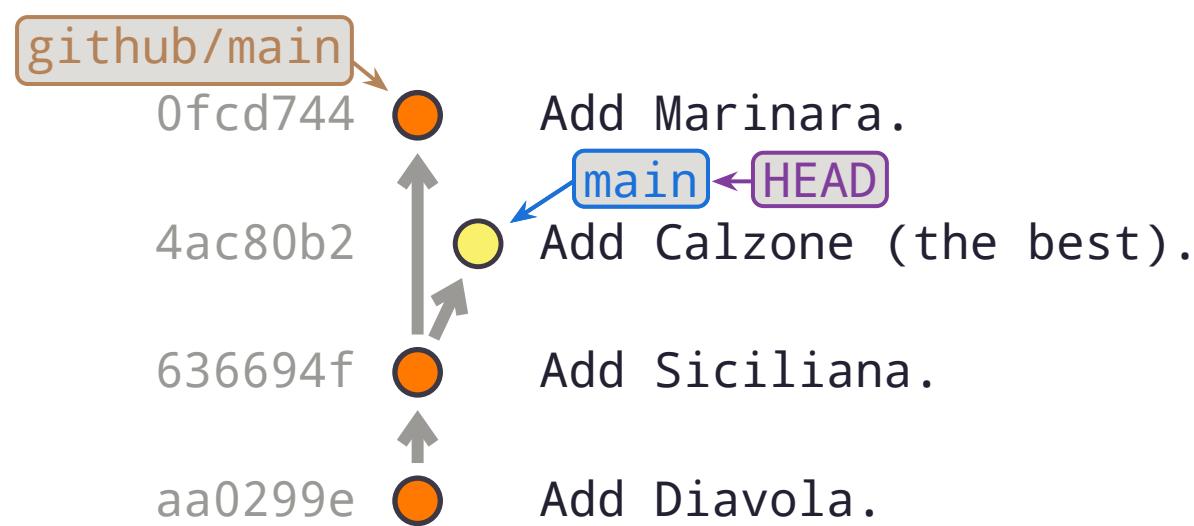
no conflicts
(happy zone)



Integrate Diverging Works

Merge and Rebase

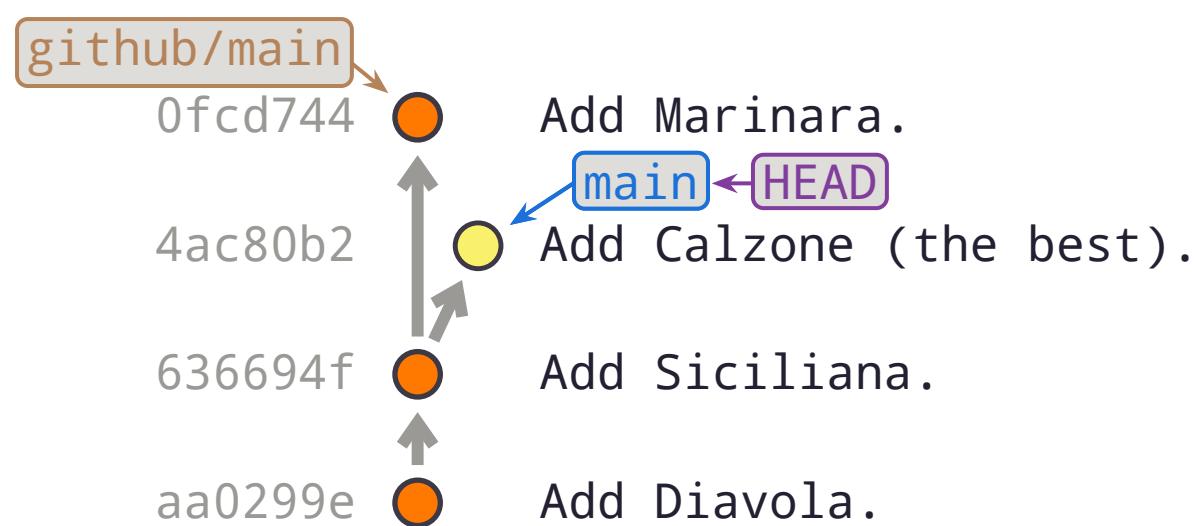
Two Git Philosophies



Merge and Rebase

Two Git Philosophies

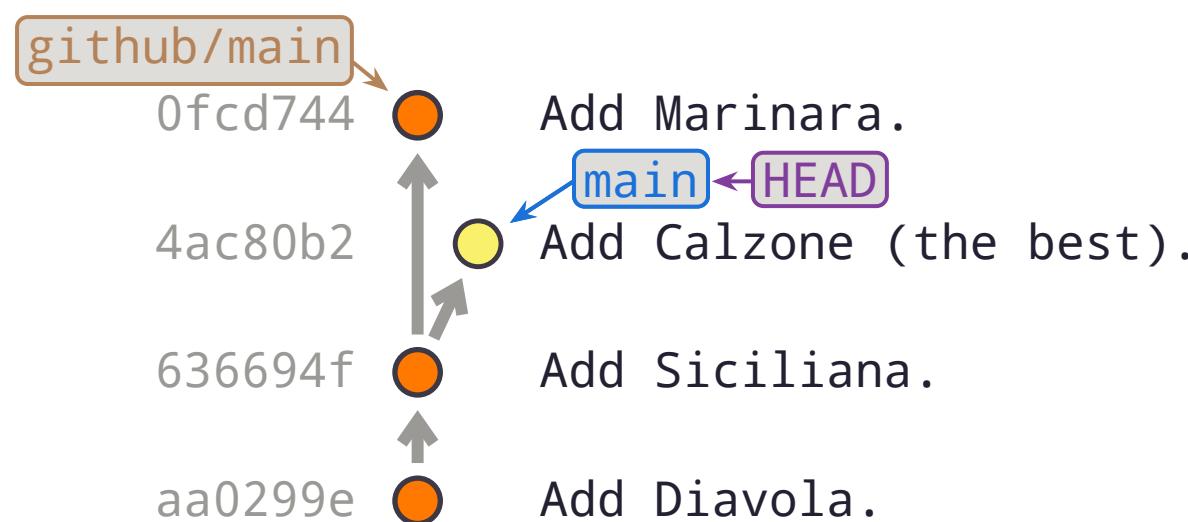
Merge strategy



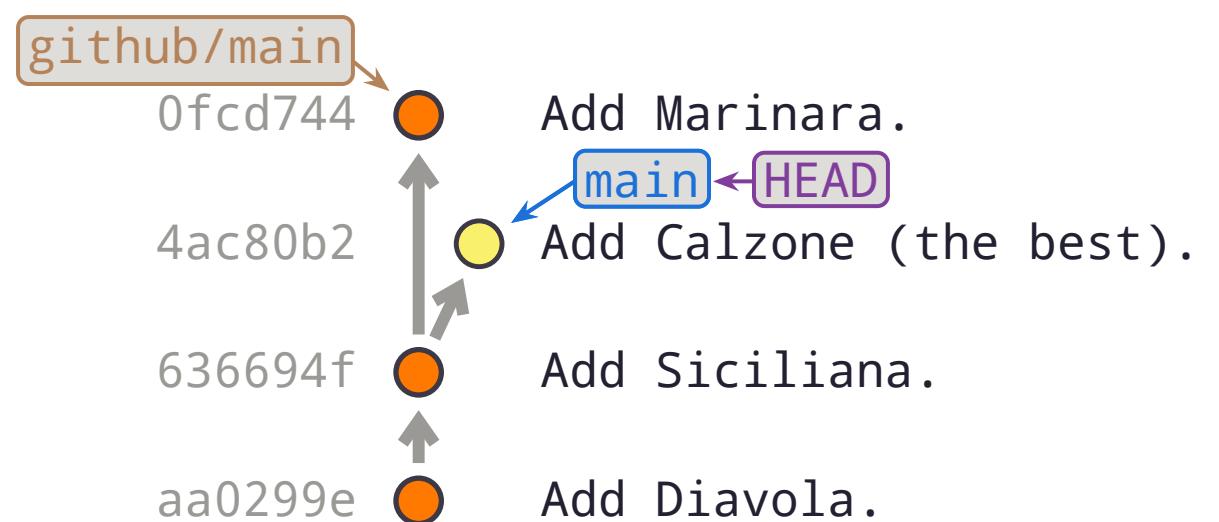
Merge and Rebase

Two Git Philosophies

Merge strategy



Rebase strategy



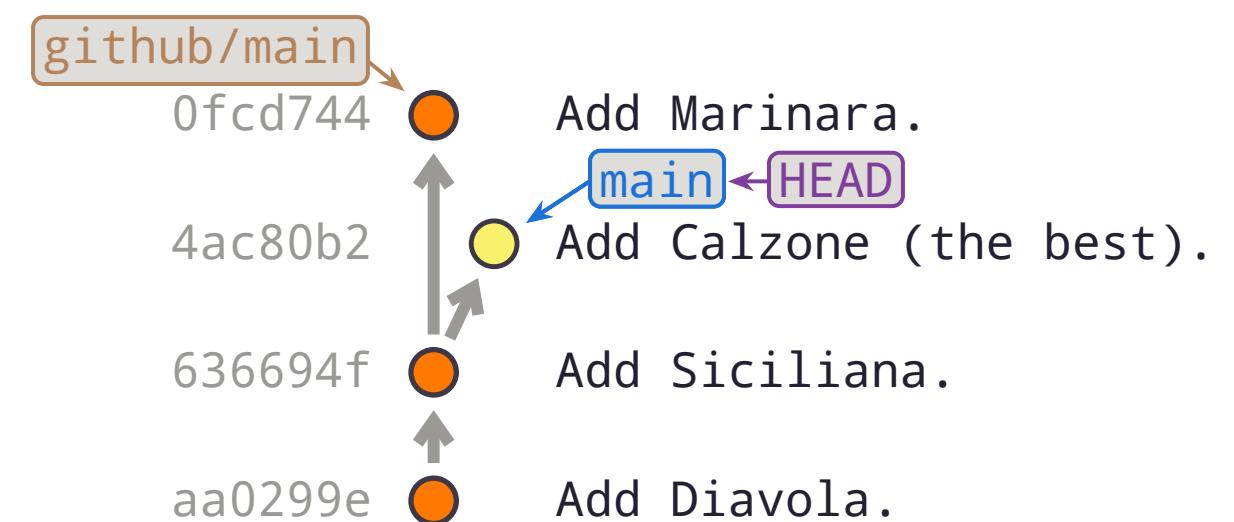
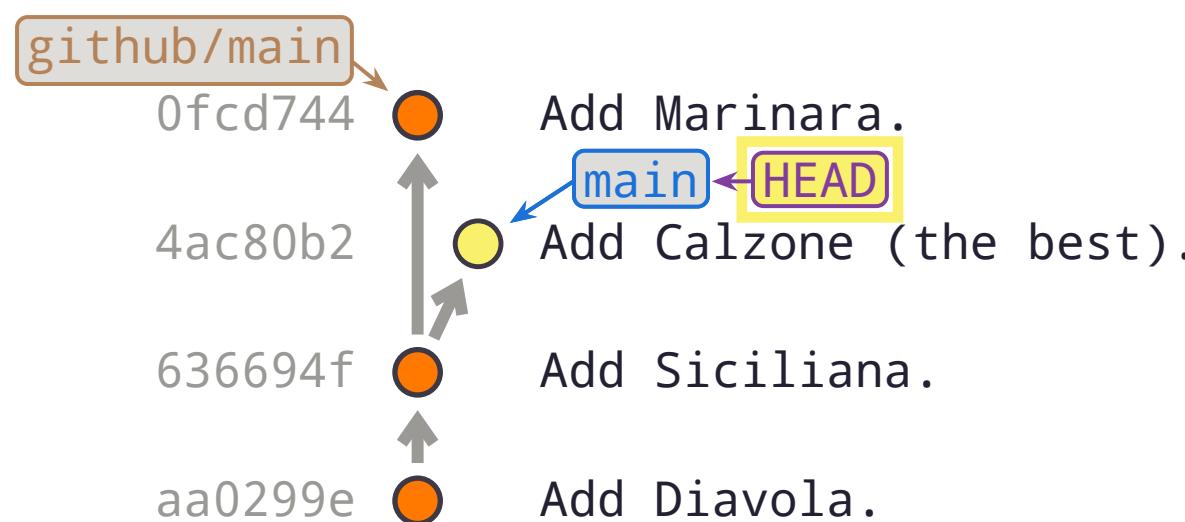
Merge and Rebase

Two Git Philosophies

Merge strategy

Rebase strategy

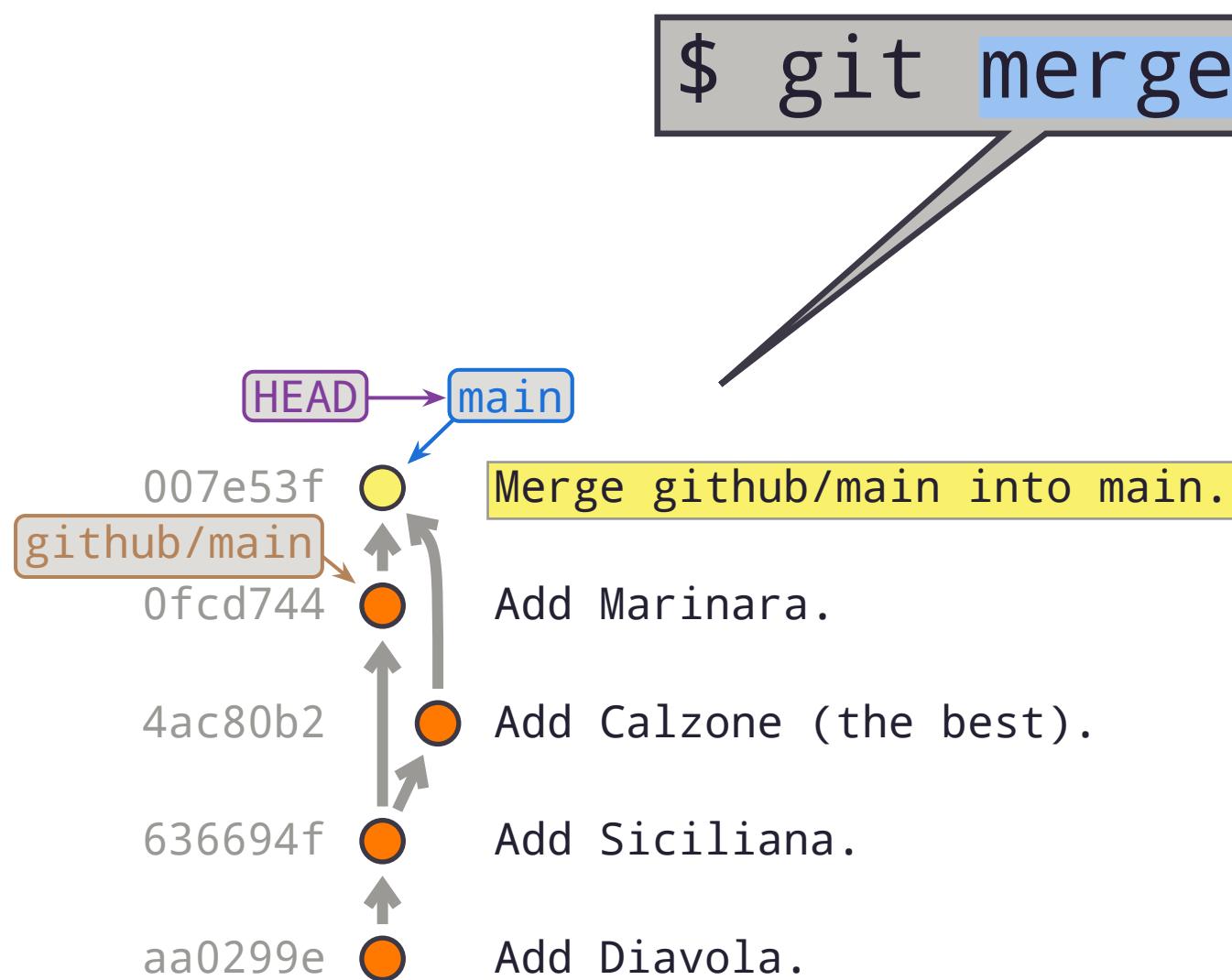
```
$ git merge github/main
```



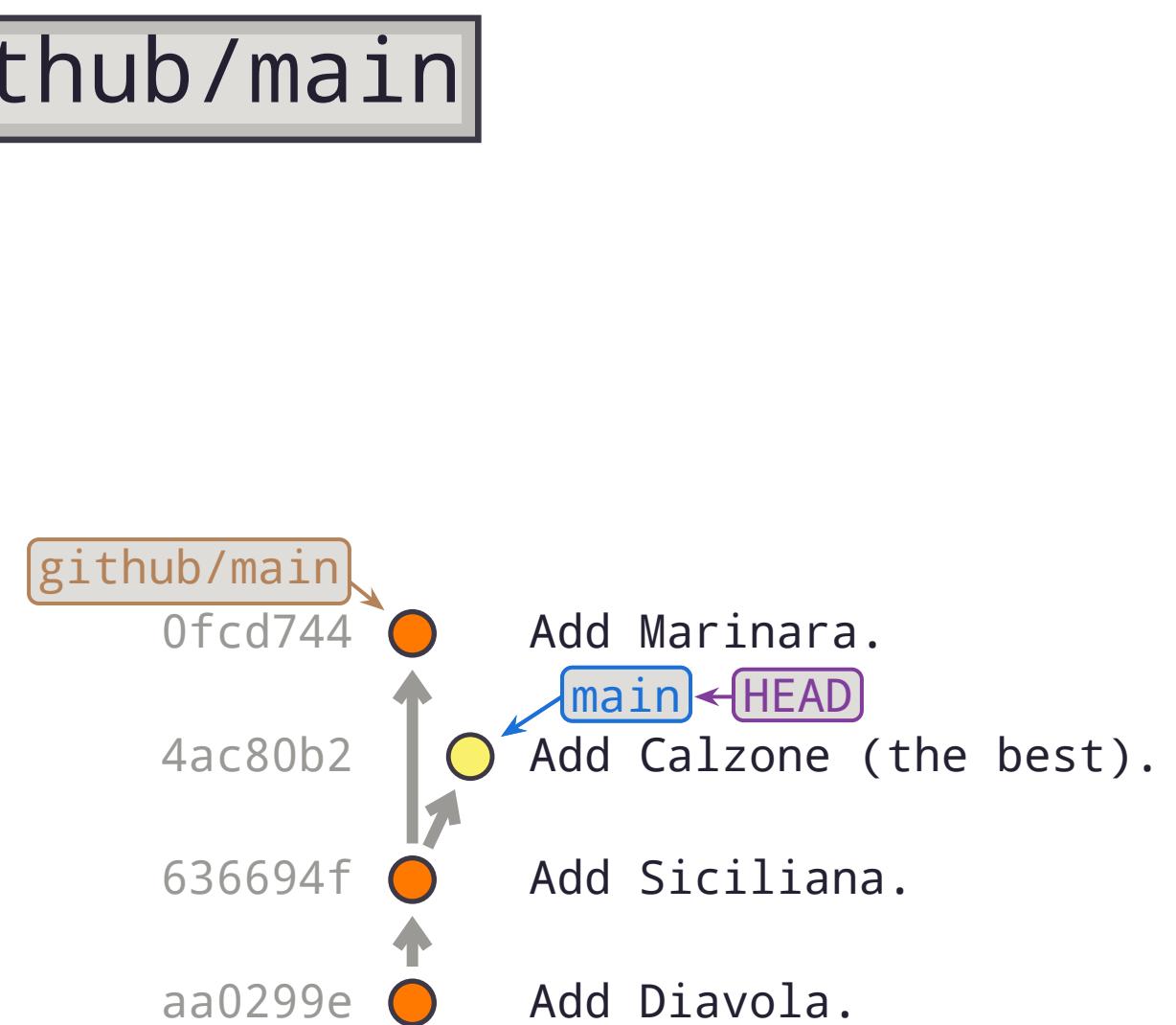
Merge and Rebase

Two Git Philosophies

Merge strategy



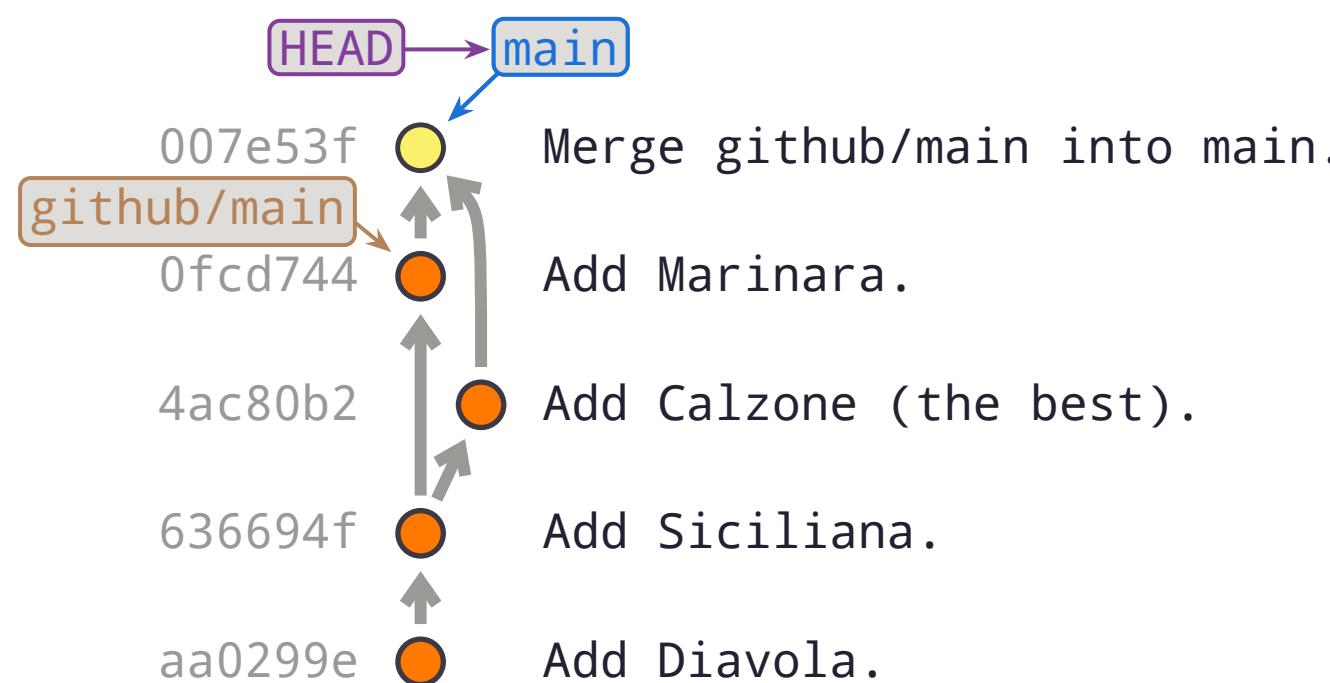
Rebase strategy



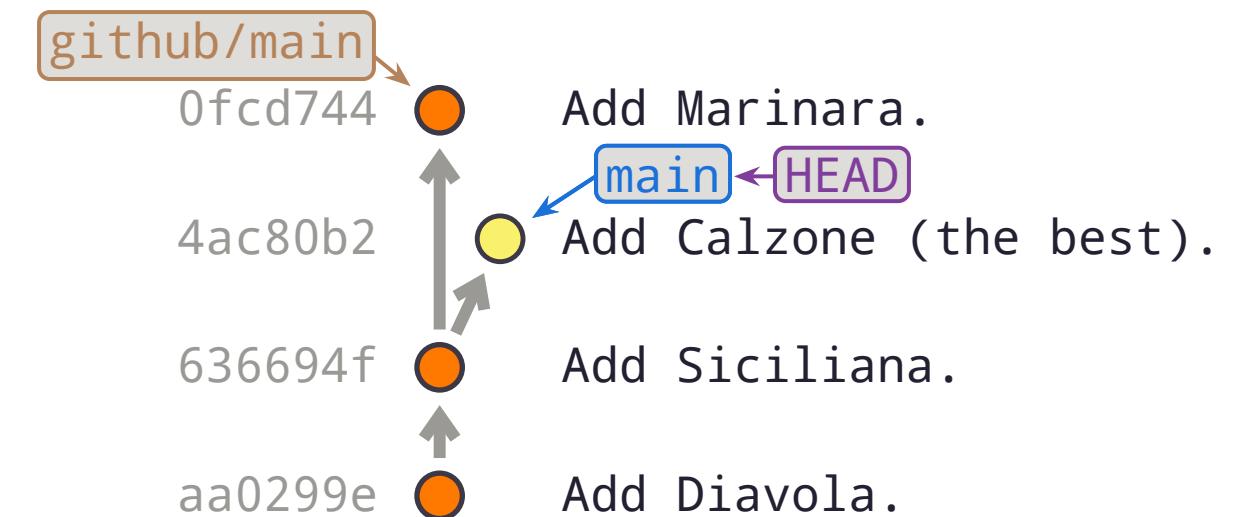
Merge and Rebase

Two Git Philosophies

Merge strategy



Rebase strategy



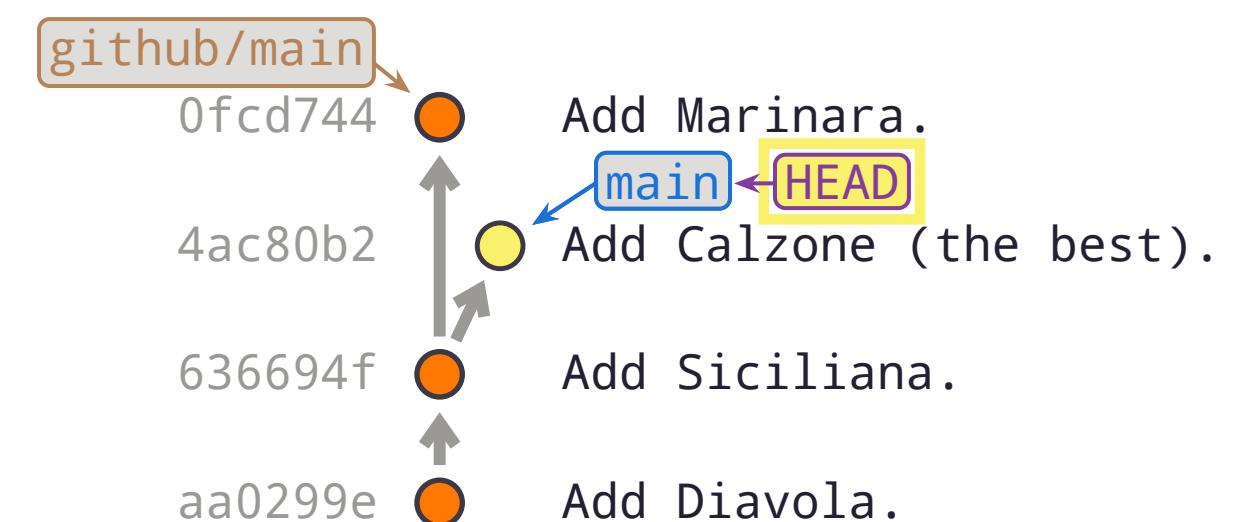
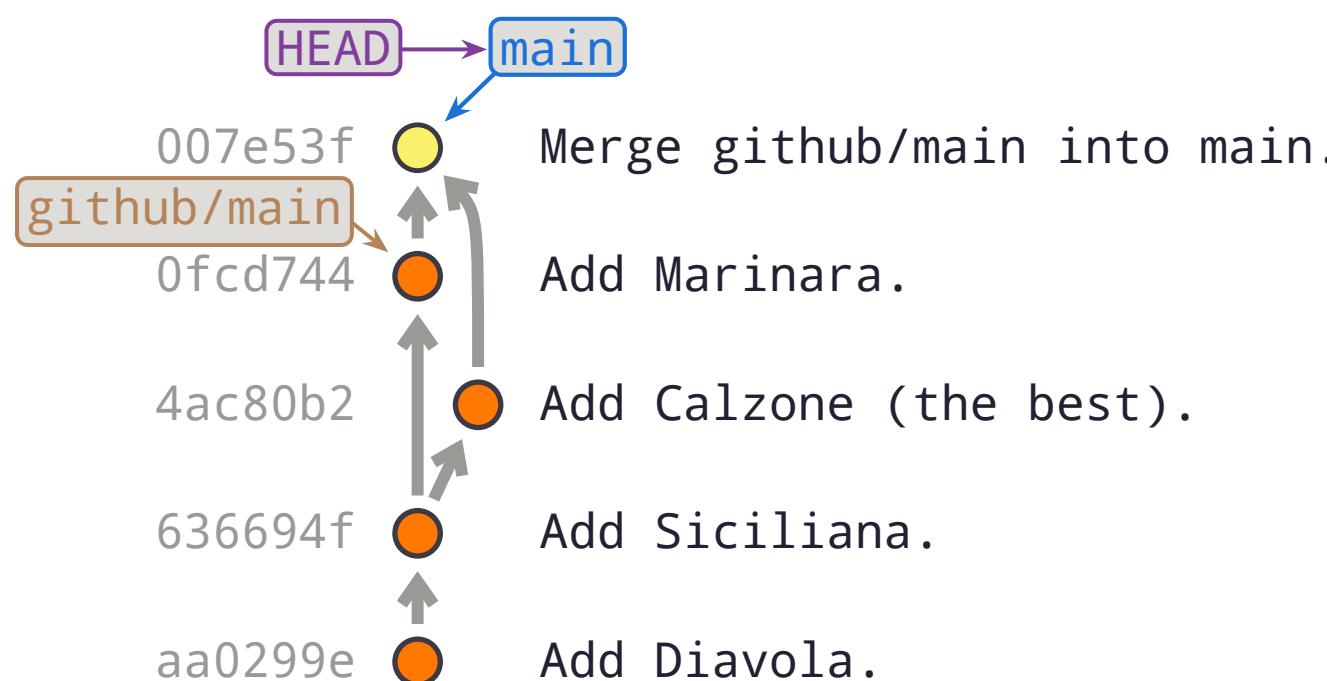
Merge and Rebase

Two Git Philosophies

Merge strategy

Rebase strategy

```
$ git rebase github/main
```



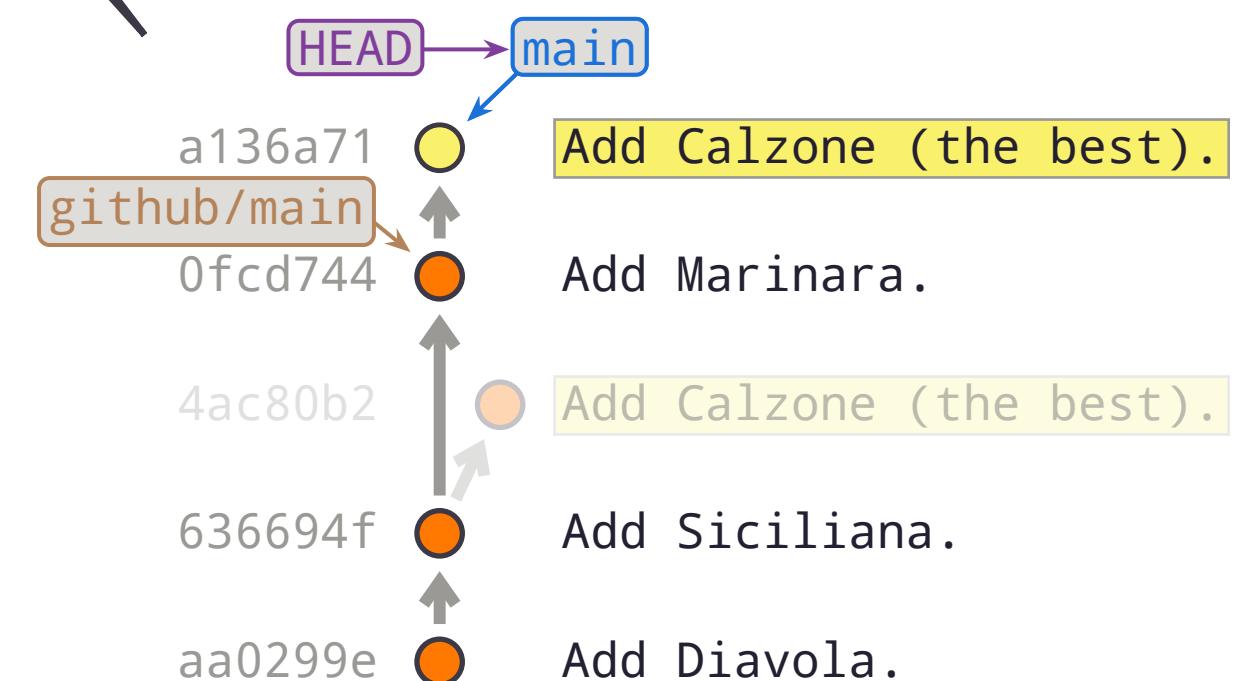
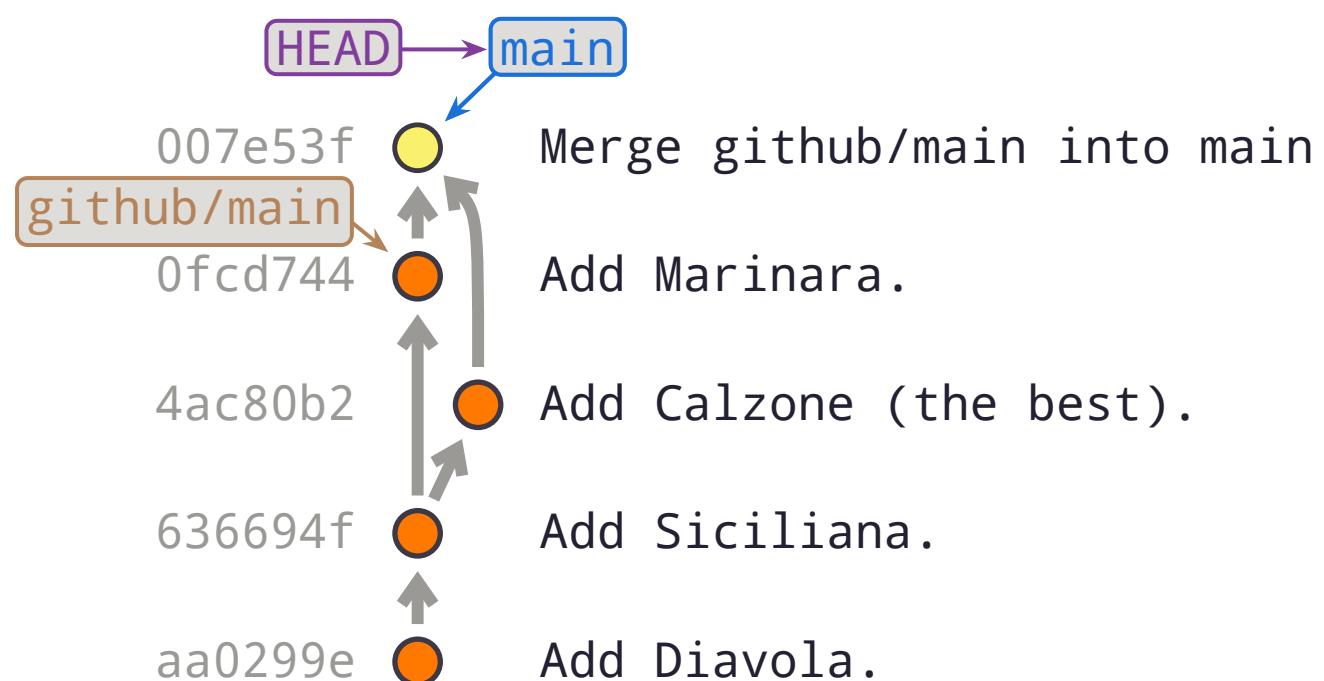
Merge and Rebase

Two Git Philosophies

Merge strategy

Rebase strategy

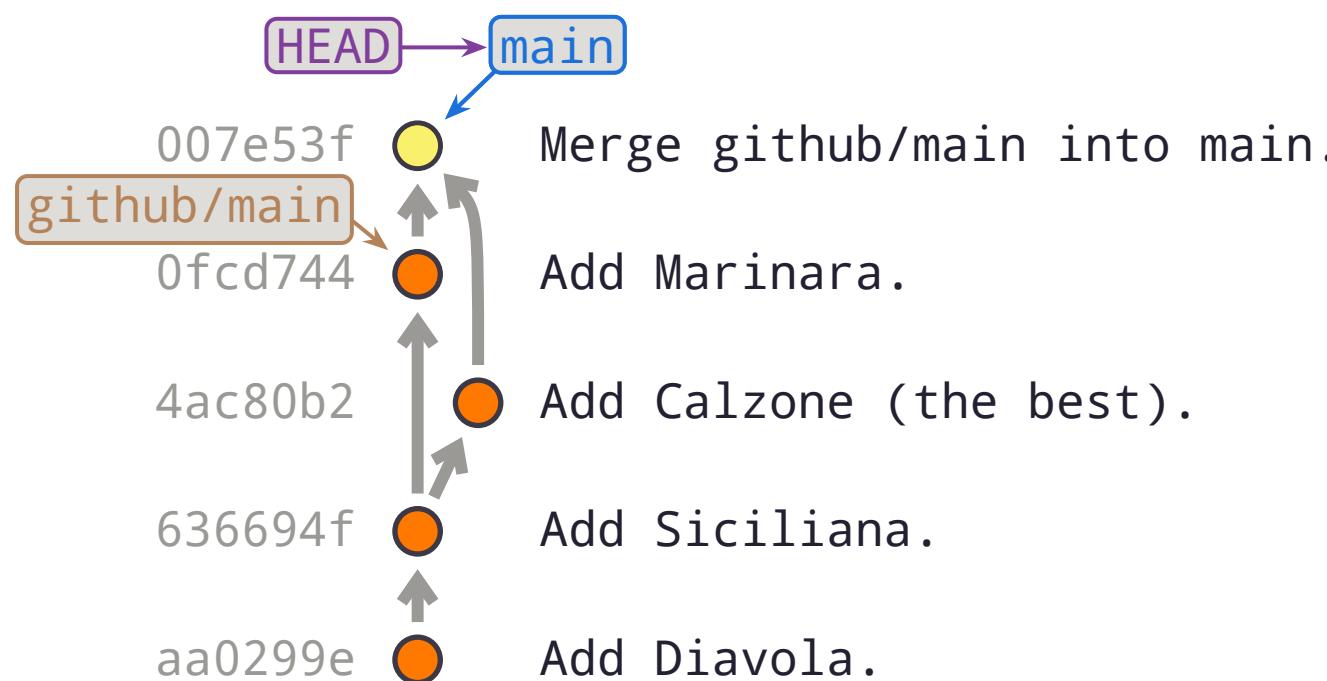
```
$ git rebase github/main
```



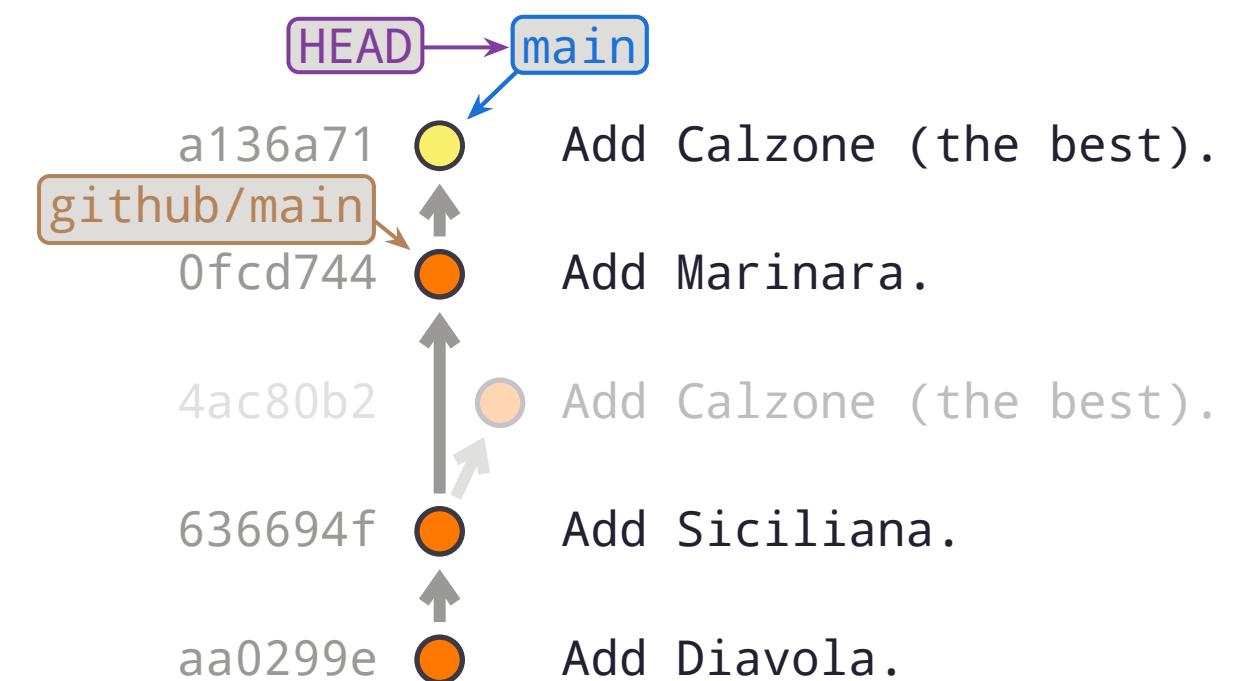
Merge and Rebase

Two Git Philosophies

Merge strategy



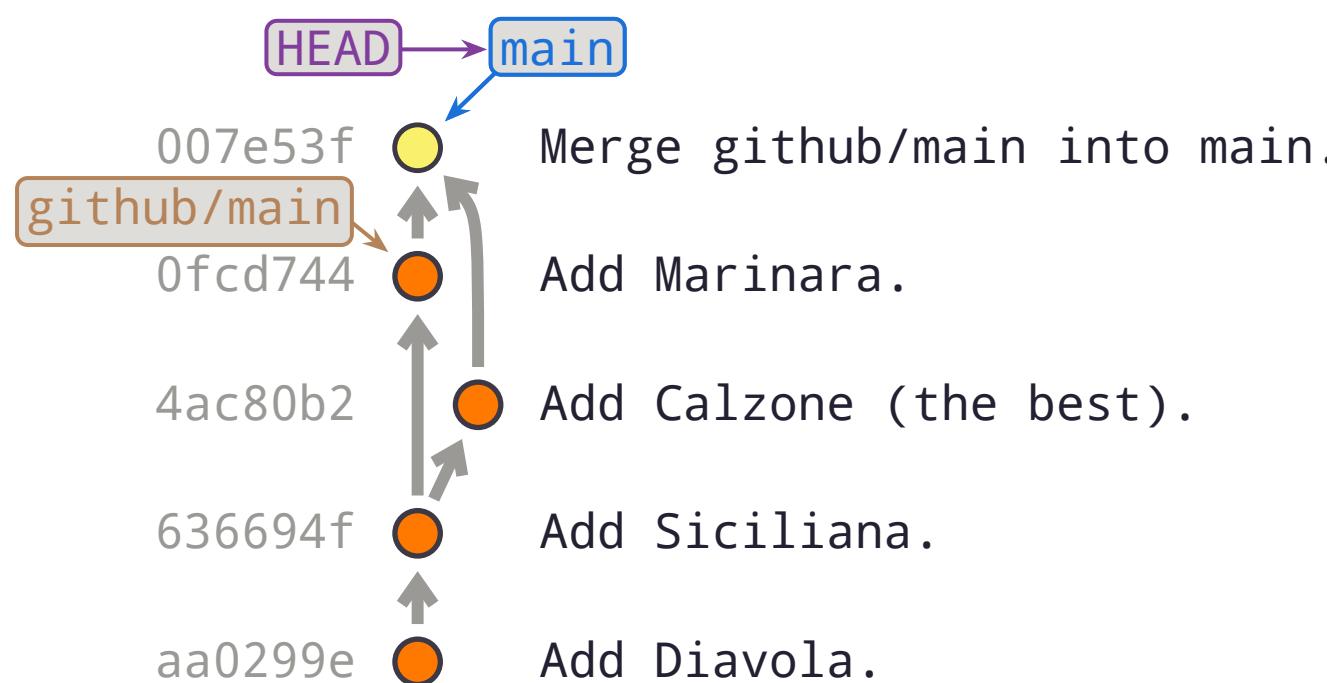
Rebase strategy



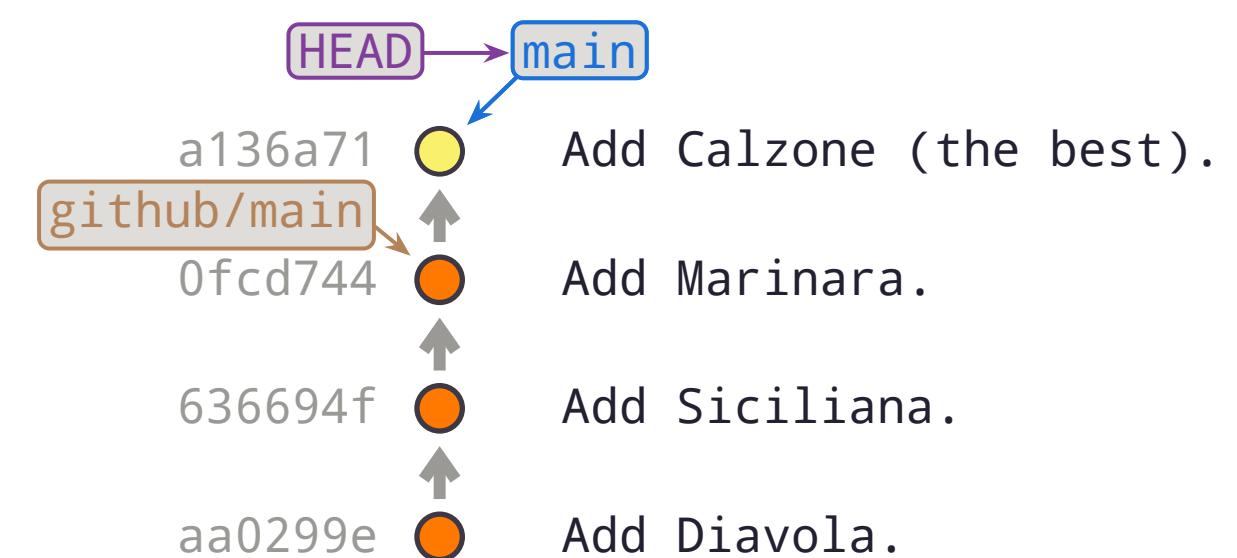
Merge and Rebase

Two Git Philosophies

Merge strategy



Rebase strategy



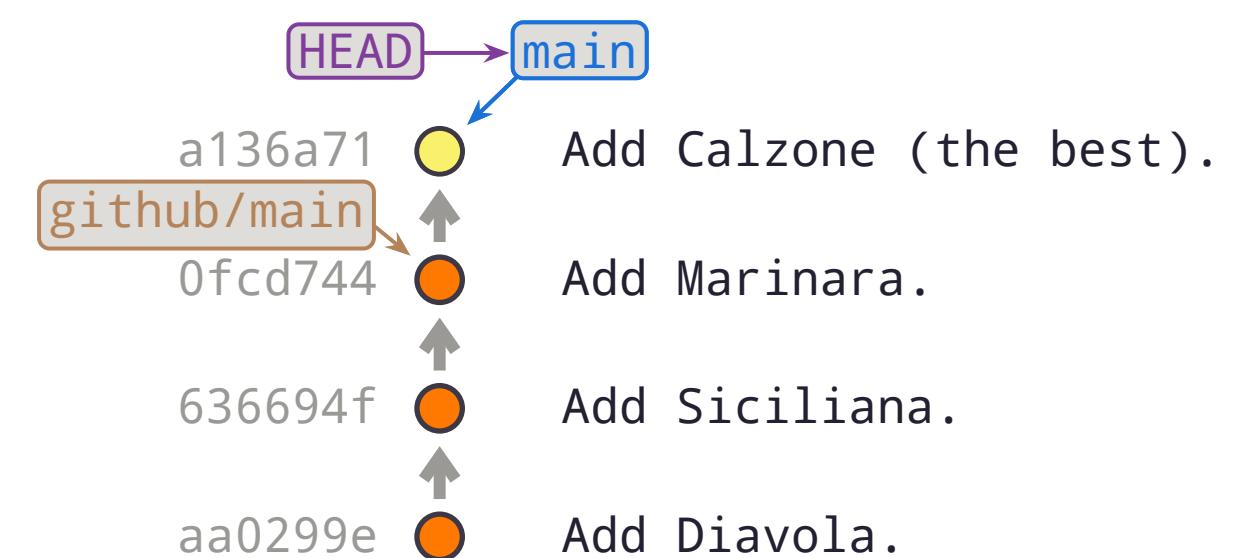
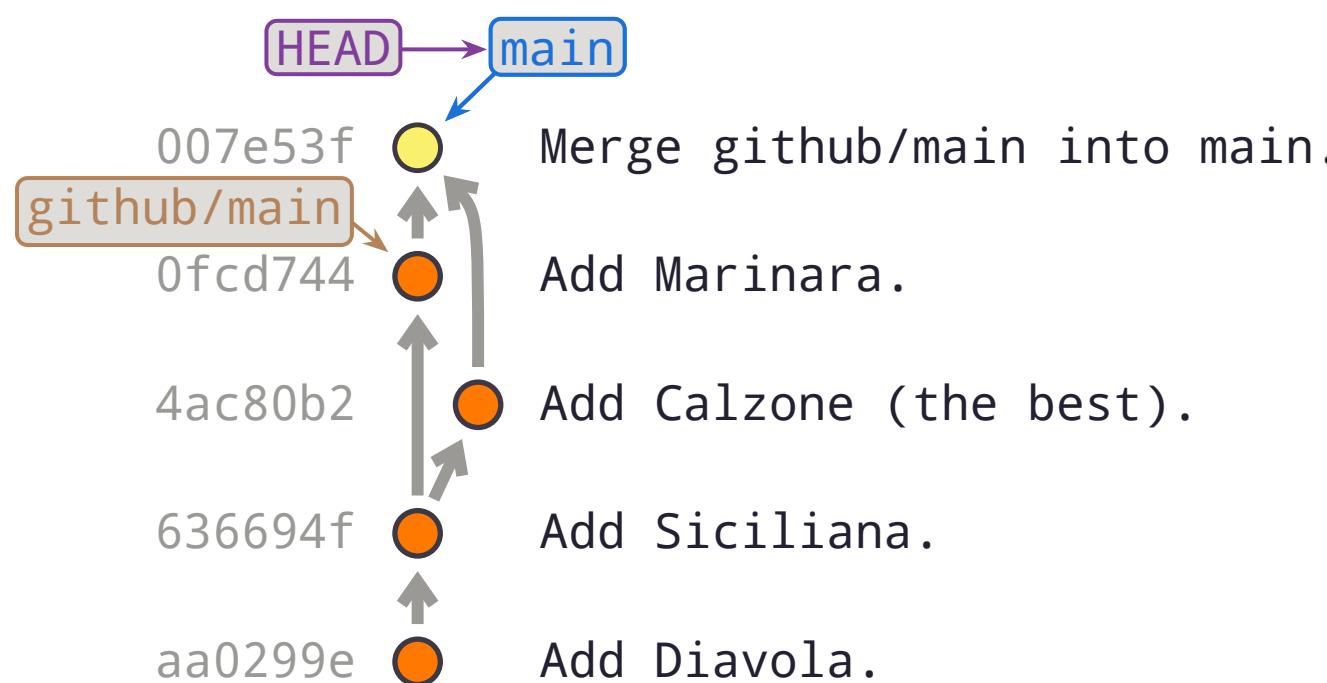
Merge and Rebase

Two Git Philosophies

Merge strategy

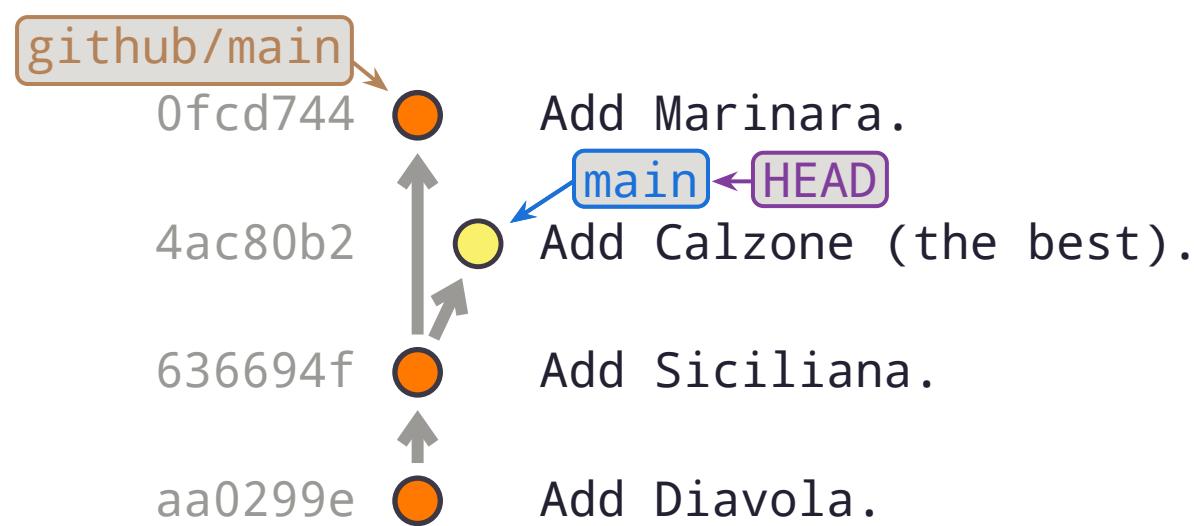
Rebase strategy

Wait, do this again.



Merge and Rebase

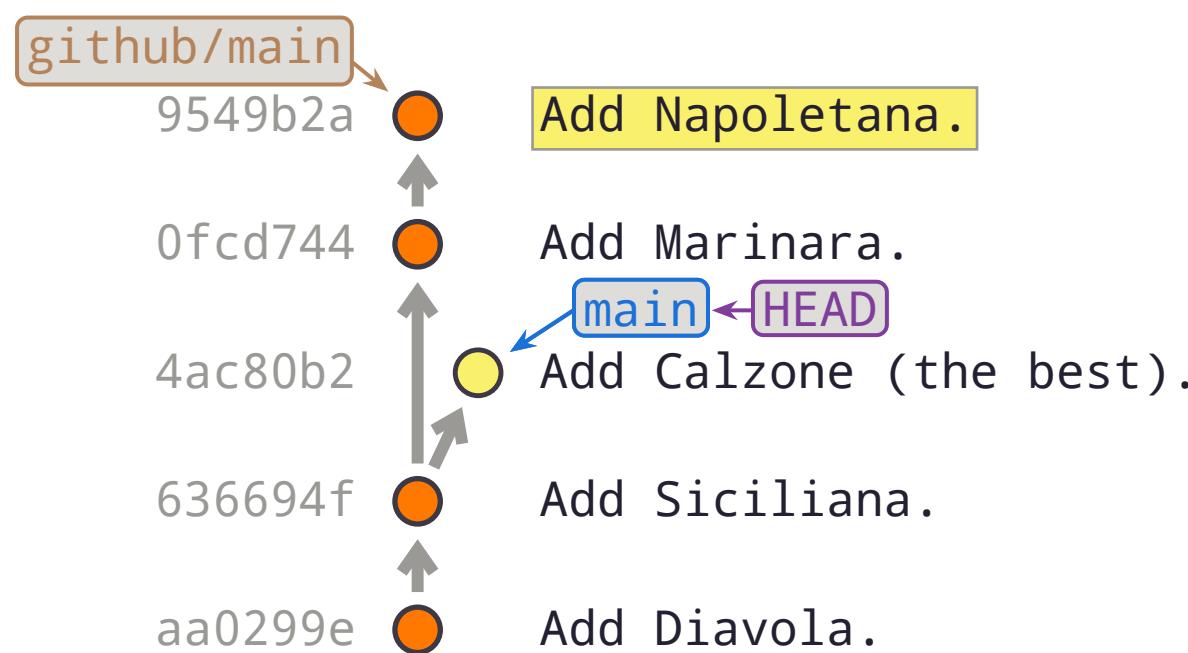
Two Git Philosophies



Merge and Rebase

Two Git Philosophies

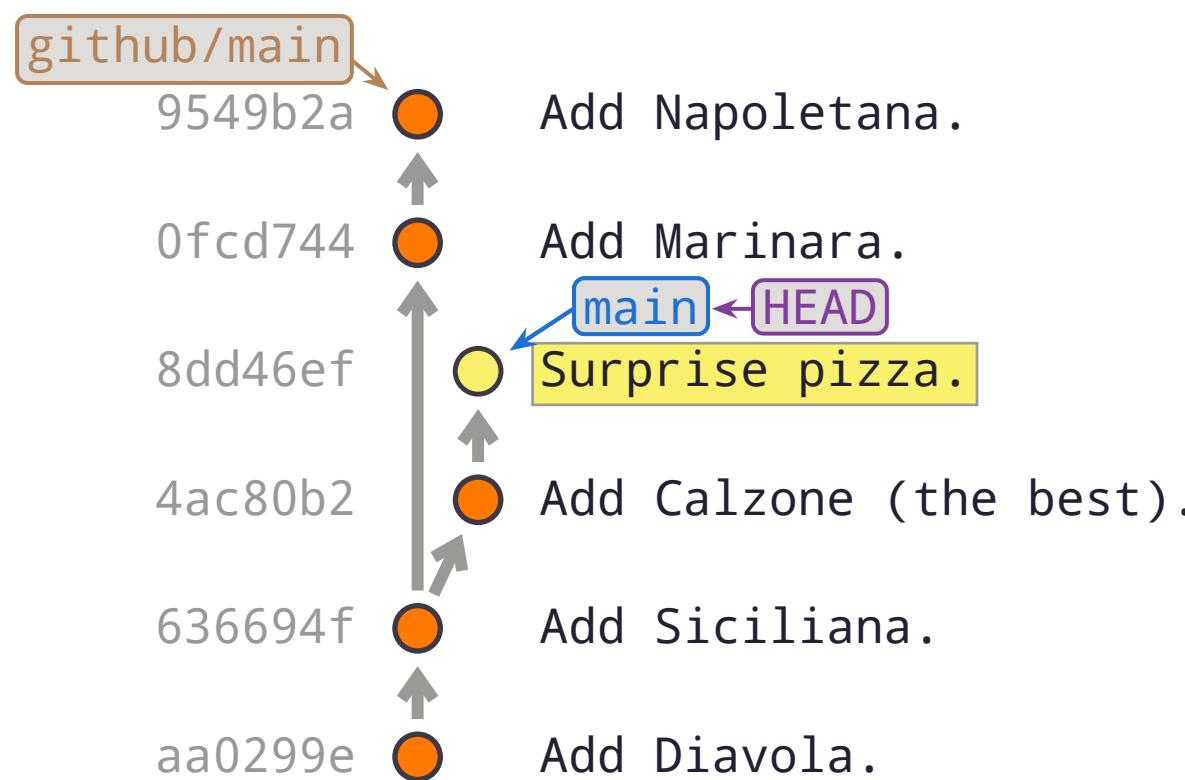
```
$ git fetch
```



Merge and Rebase

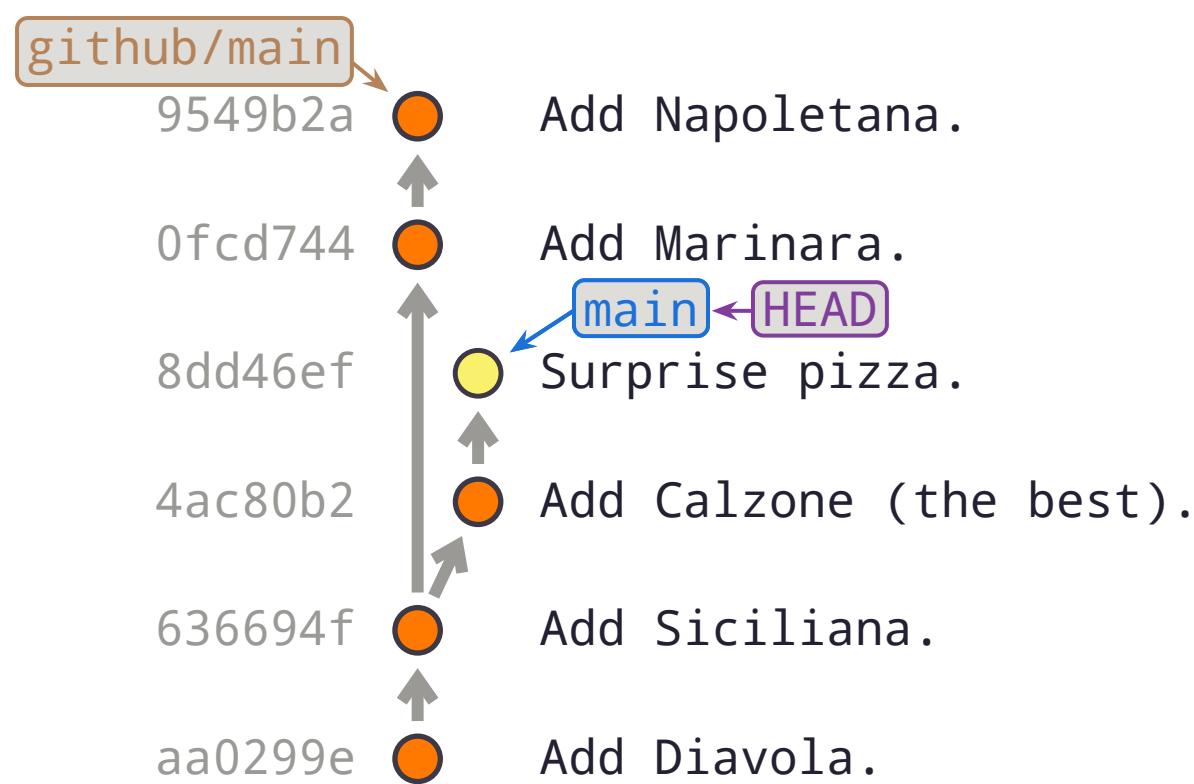
Two Git Philosophies

```
$ git commit
```

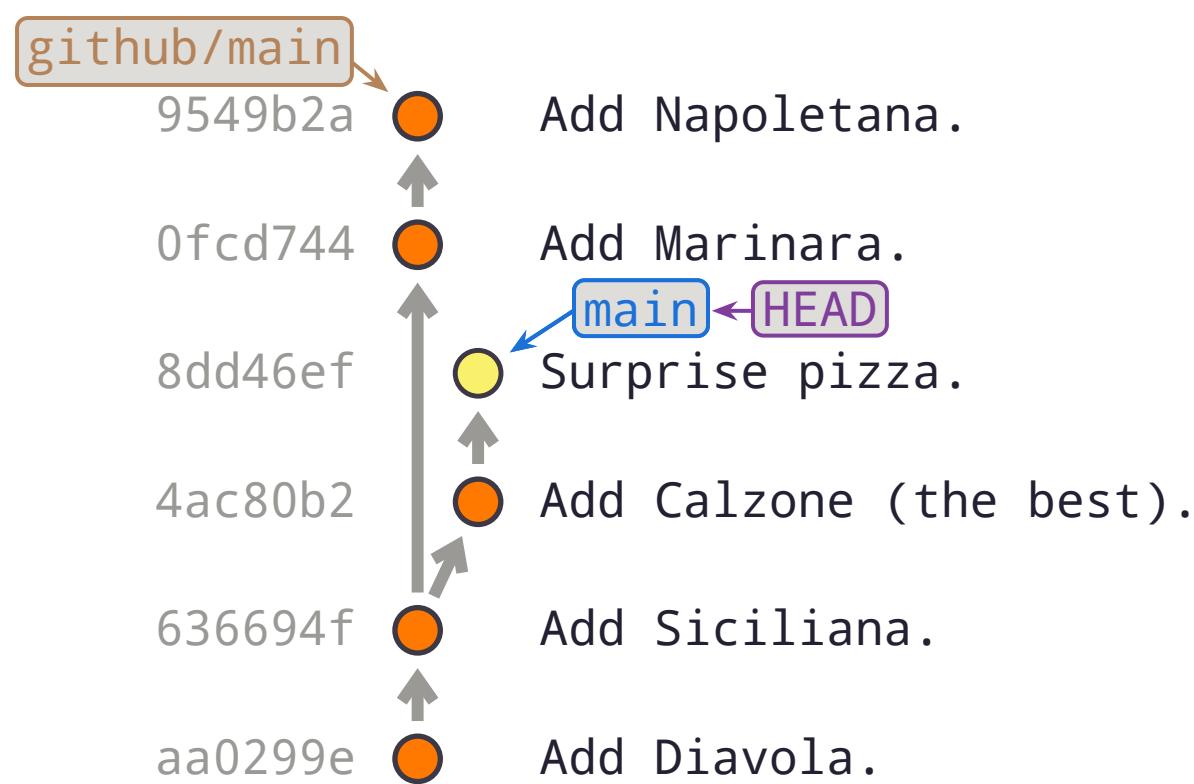


Merge and Rebase

Two Git Philosophies



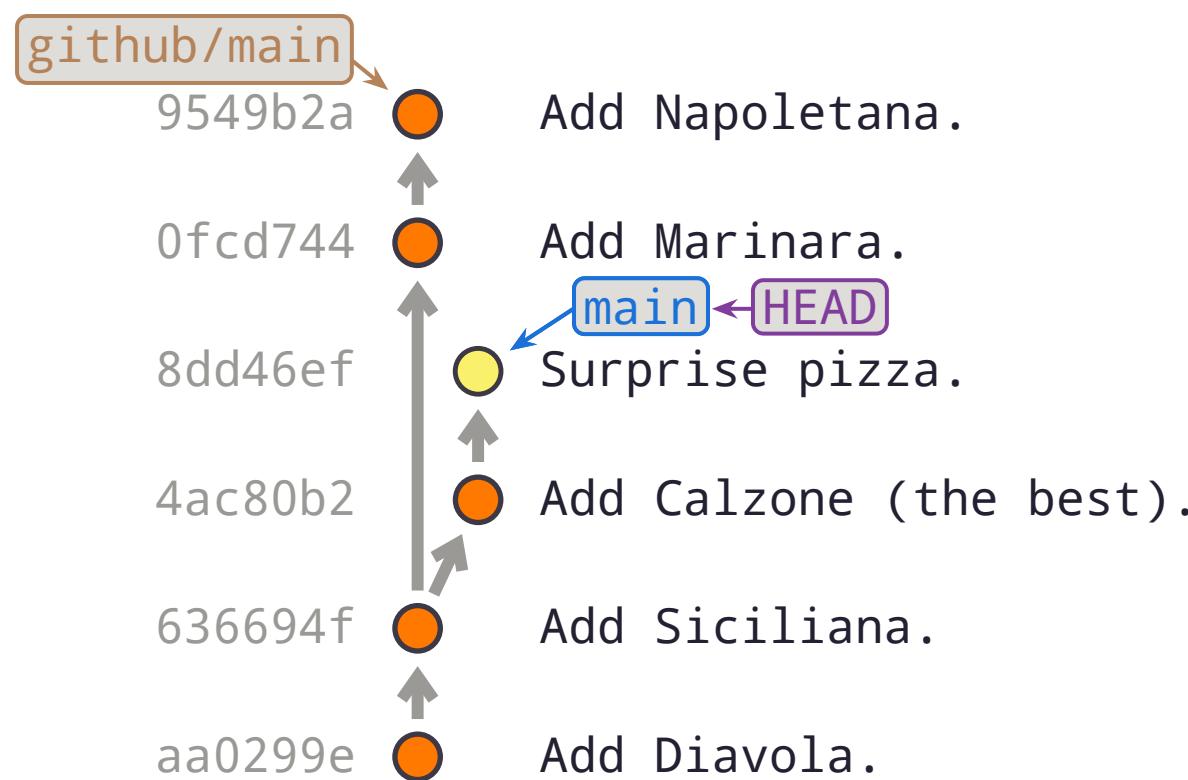
Merge strategy



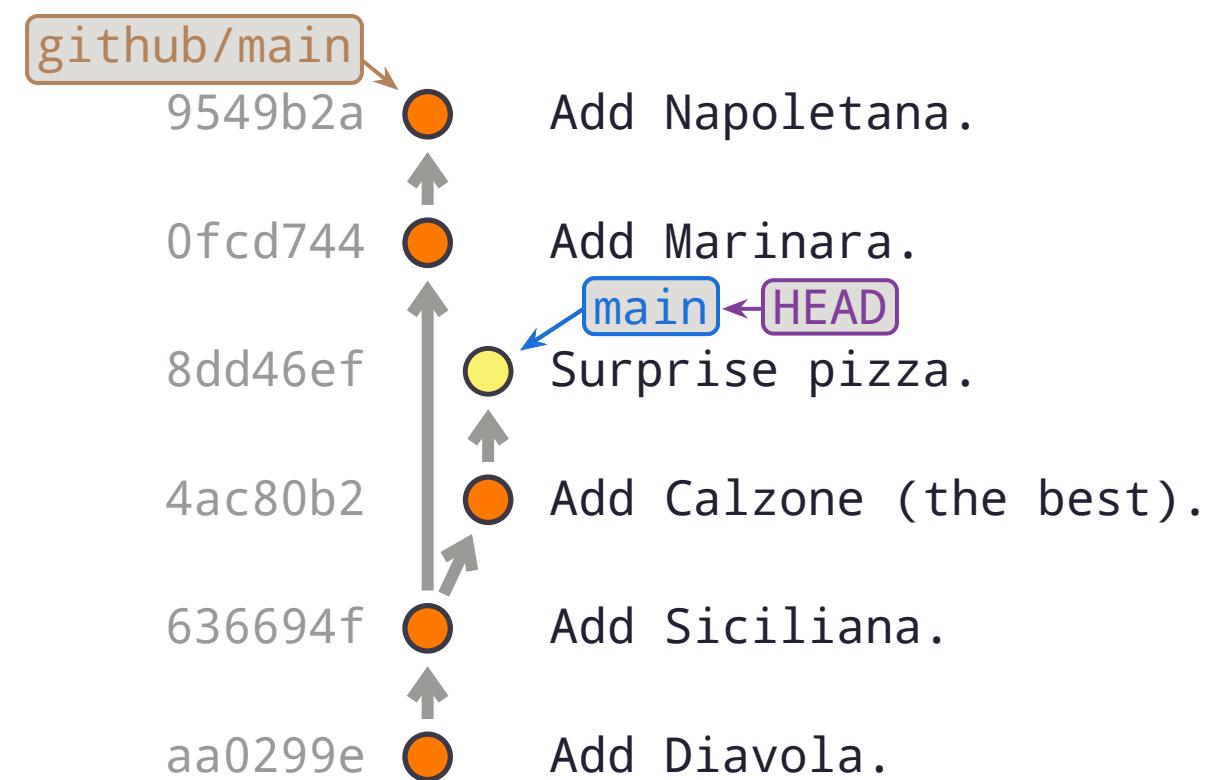
Merge and Rebase

Two Git Philosophies

Merge strategy



Rebase strategy



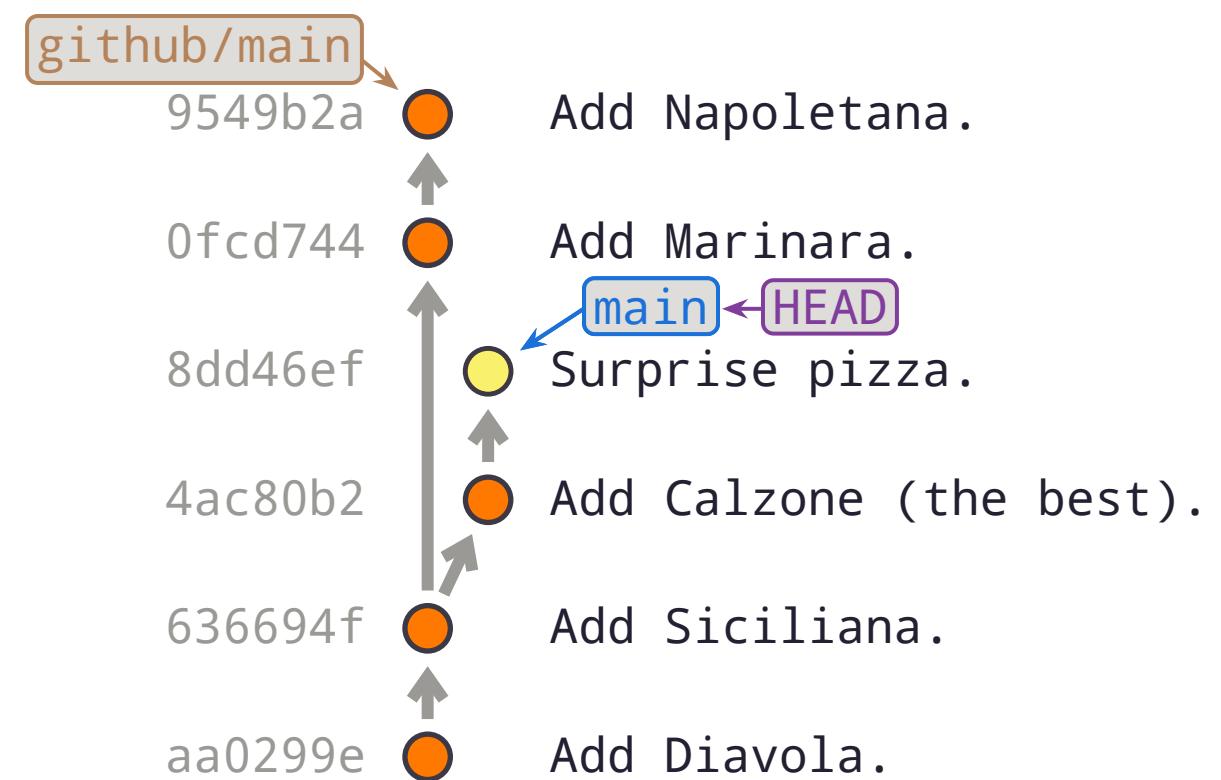
Merge and Rebase

Two Git Philosophies

Merge strategy



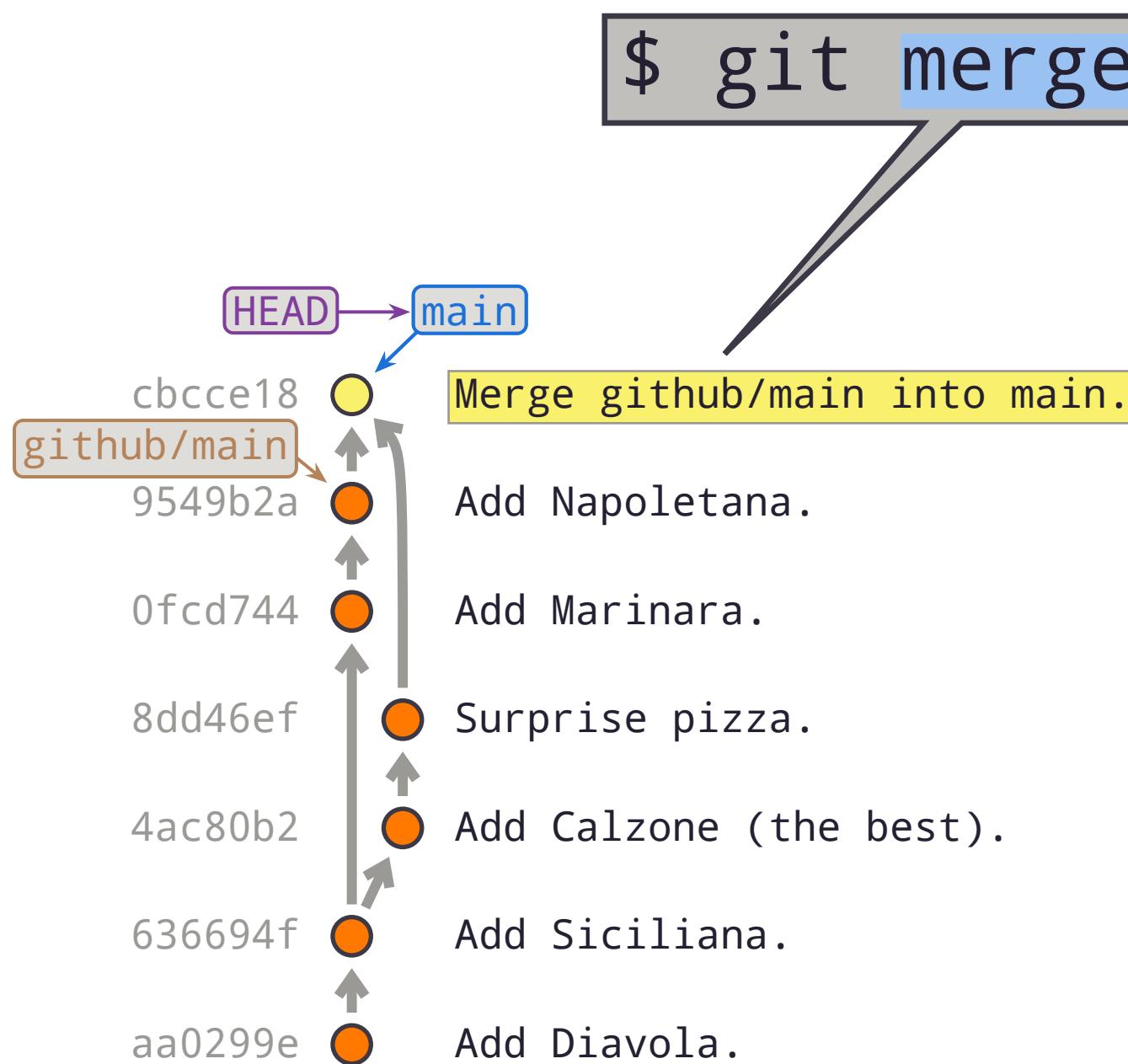
Rebase strategy



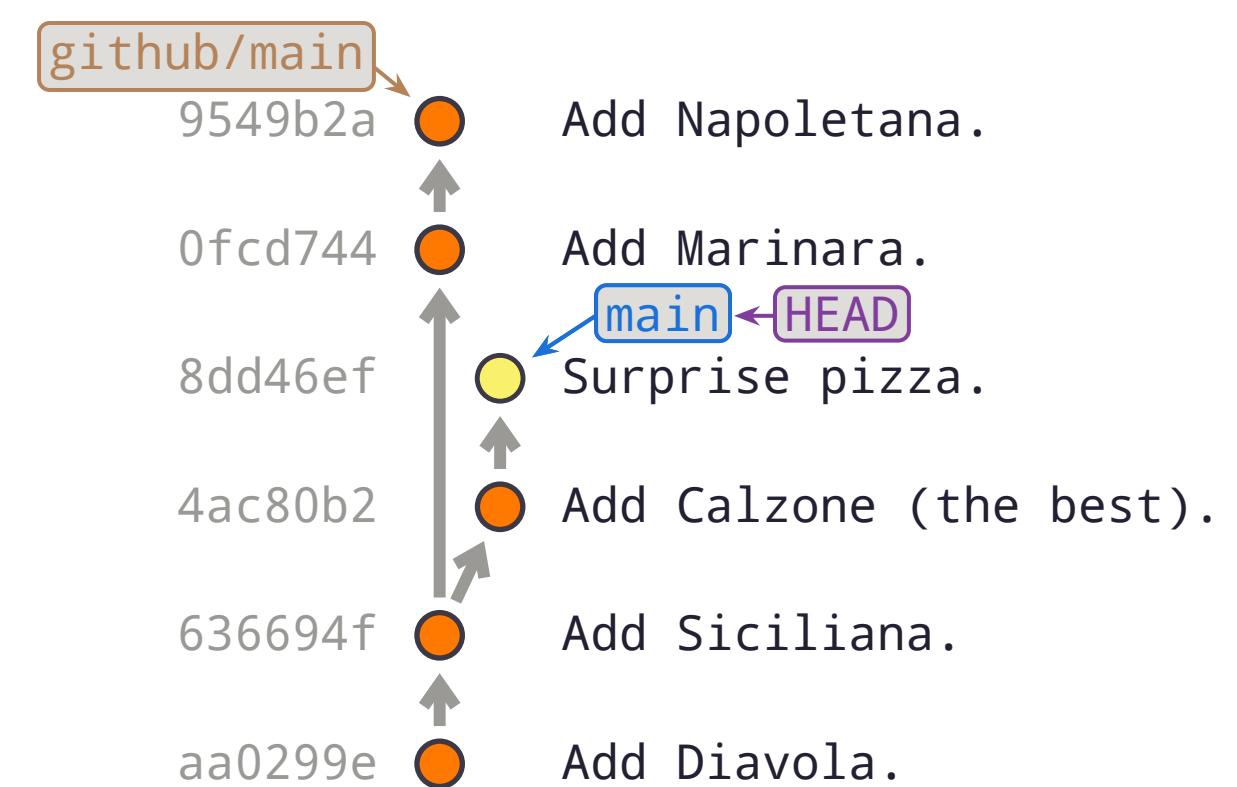
Merge and Rebase

Two Git Philosophies

Merge strategy



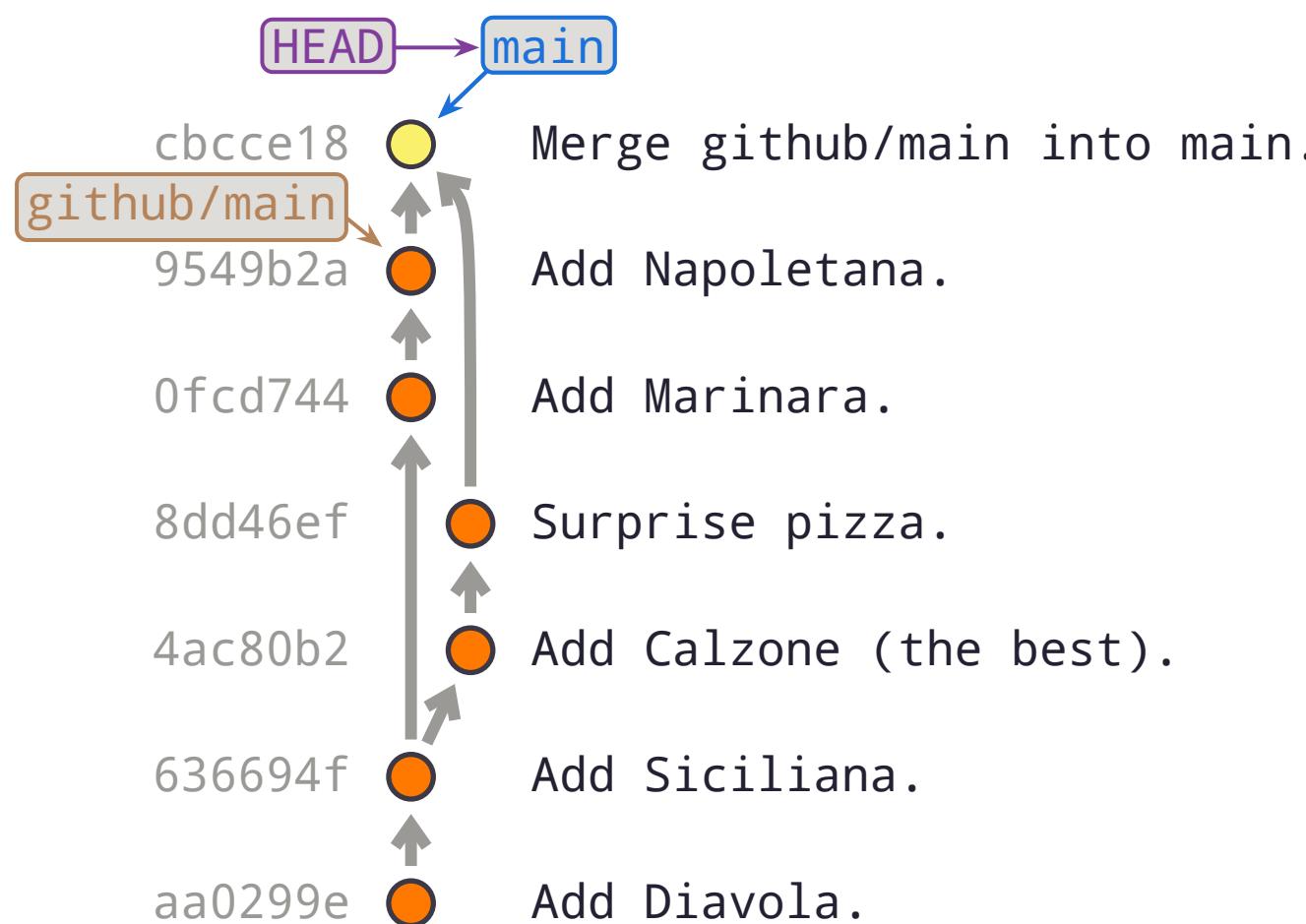
Rebase strategy



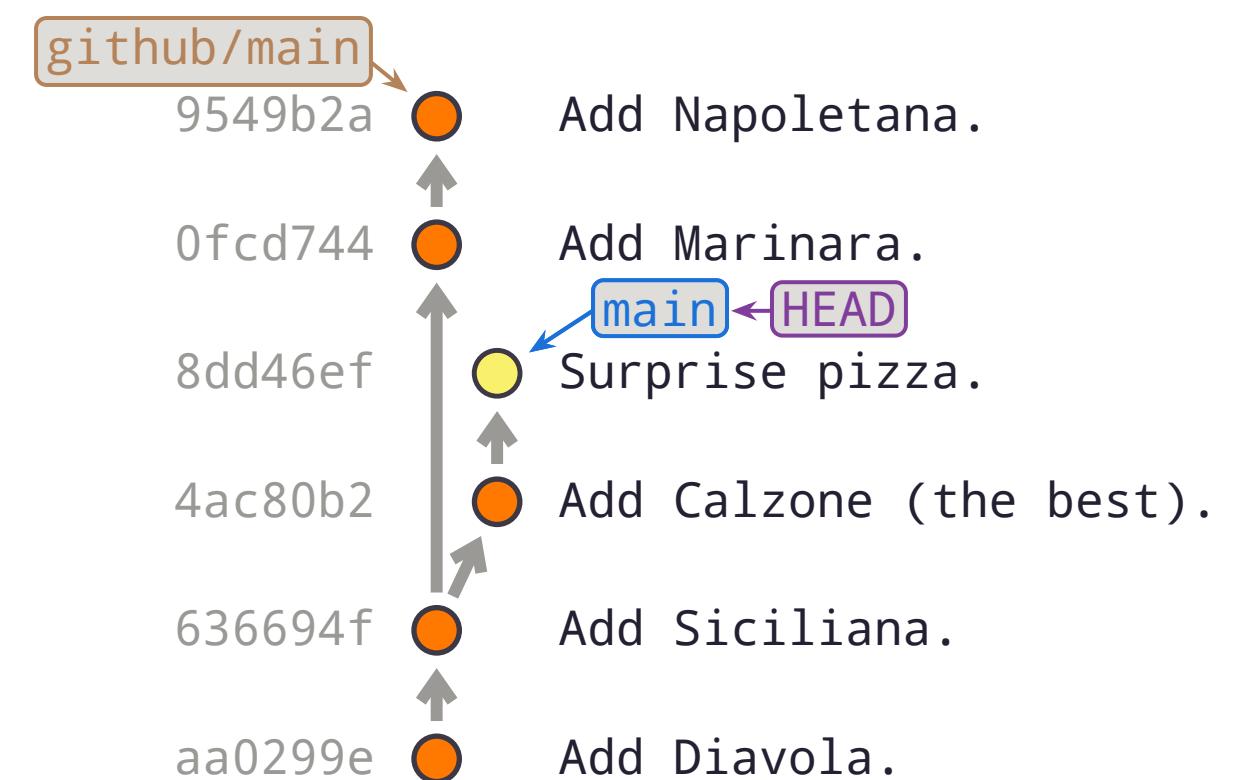
Merge and Rebase

Two Git Philosophies

Merge strategy



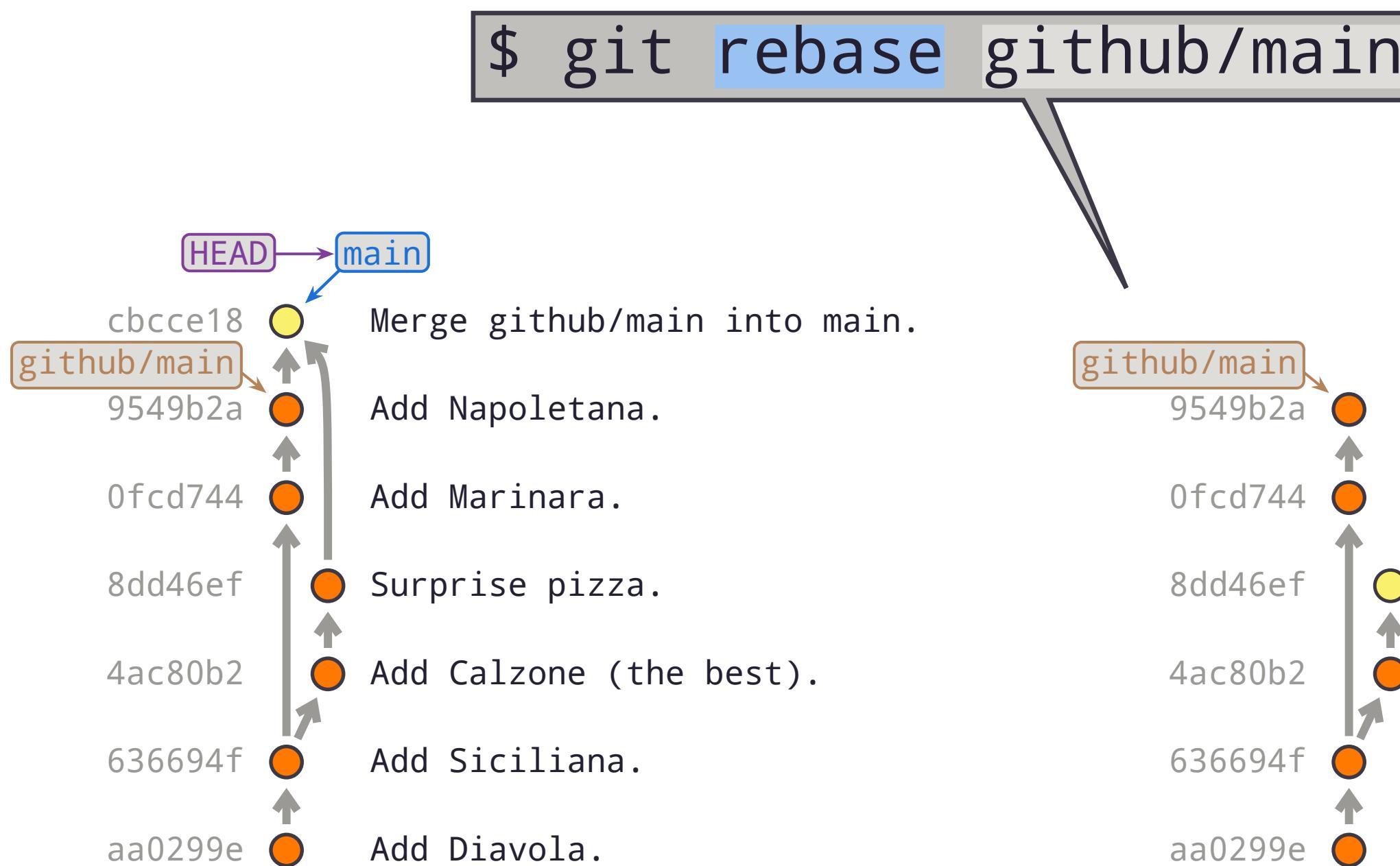
Rebase strategy



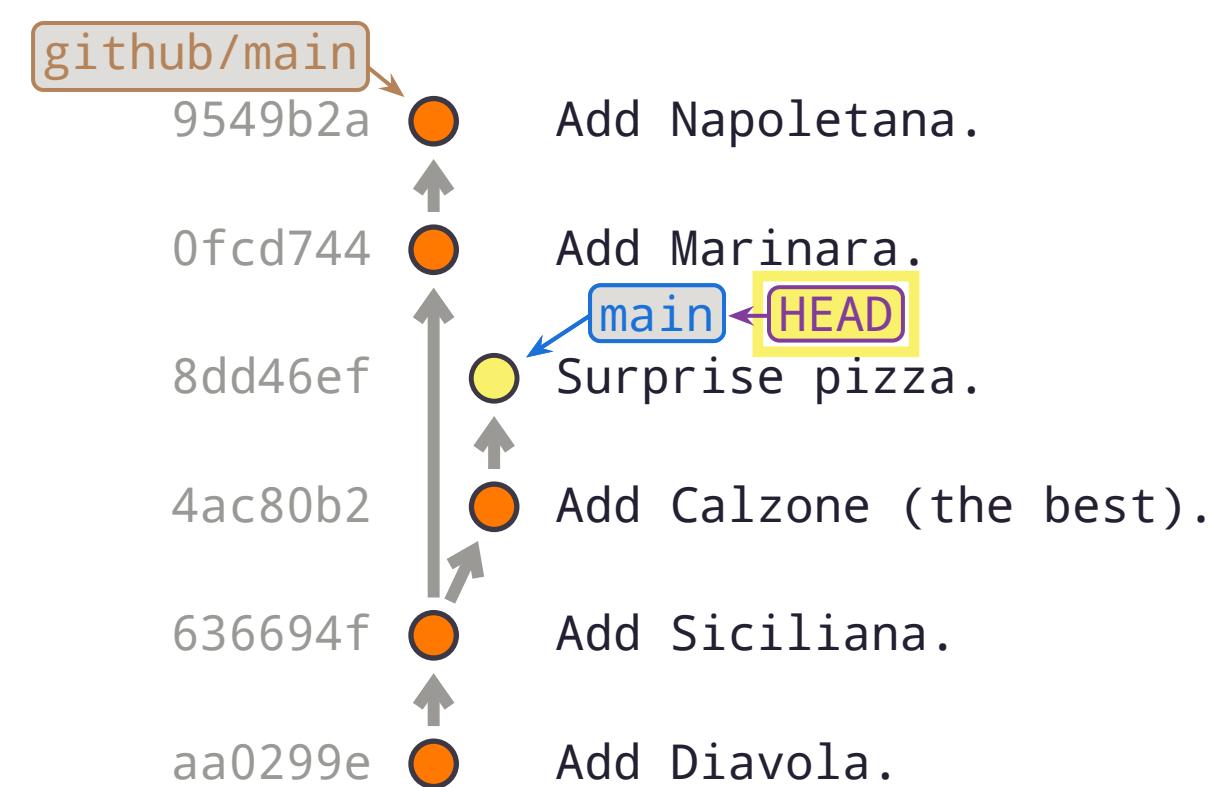
Merge and Rebase

Two Git Philosophies

Merge strategy



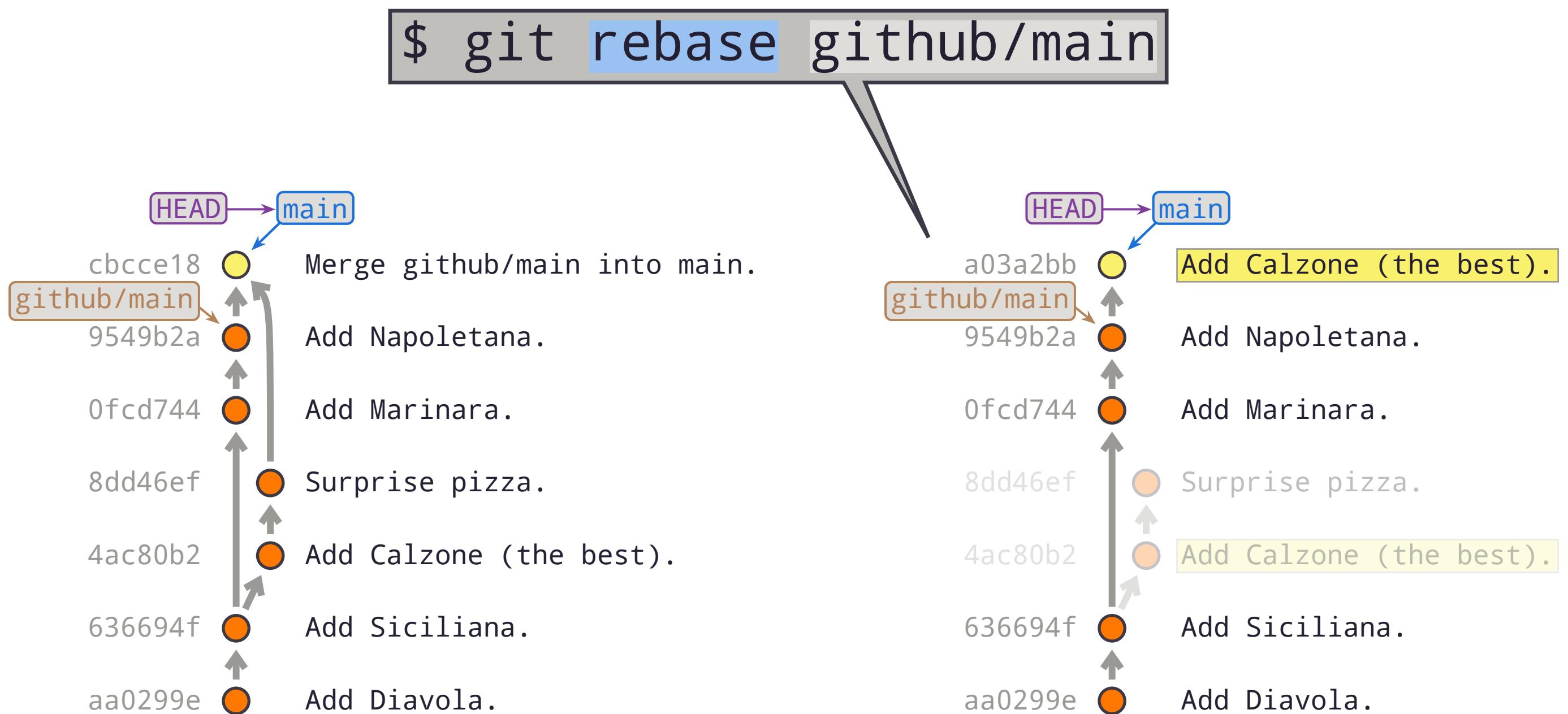
Rebase strategy



Merge and Rebase

Two Git Philosophies

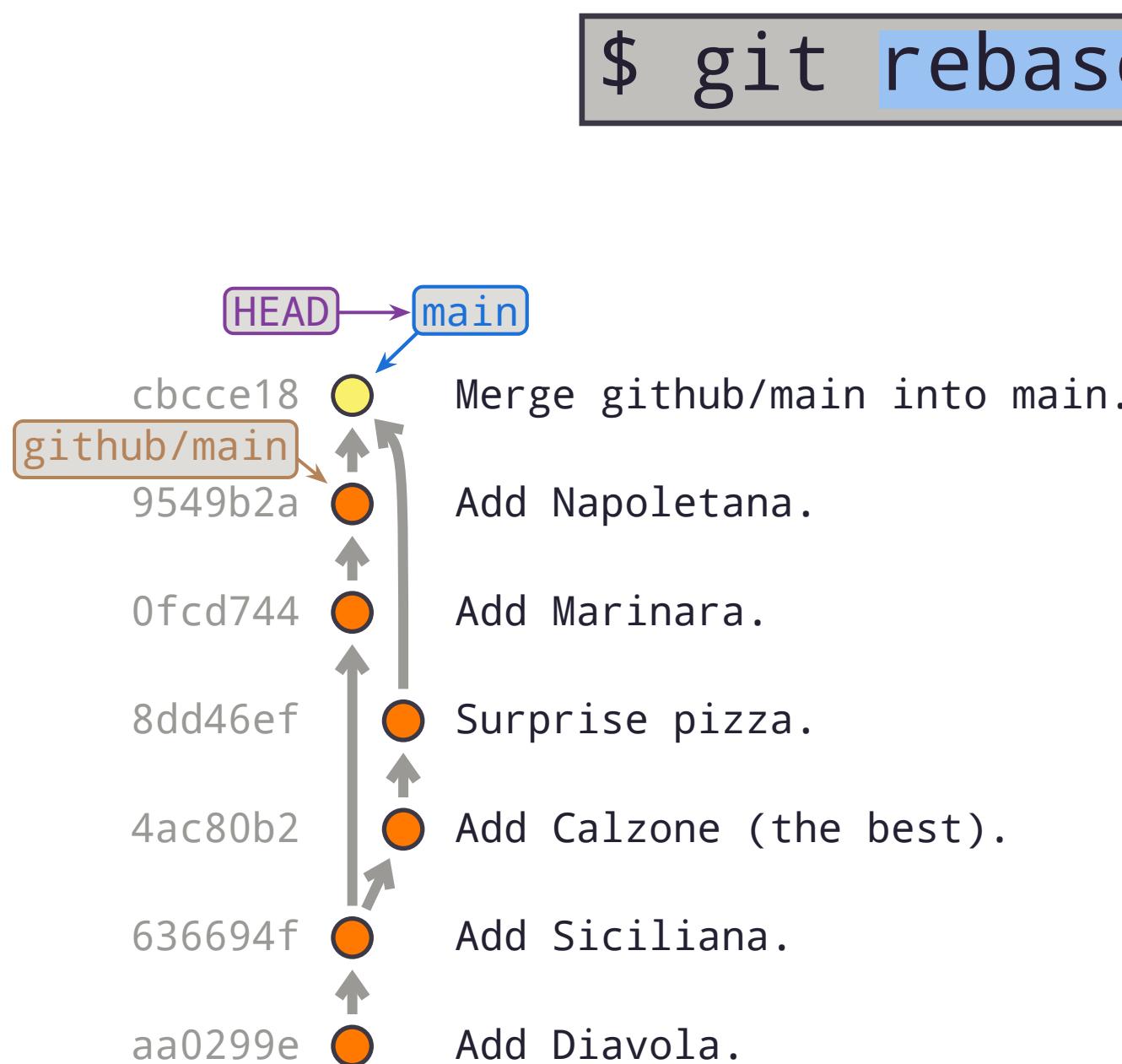
Merge strategy



Merge and Rebase

Two Git Philosophies

Merge strategy



Rebase strategy



```
$ git rebase github/main
```

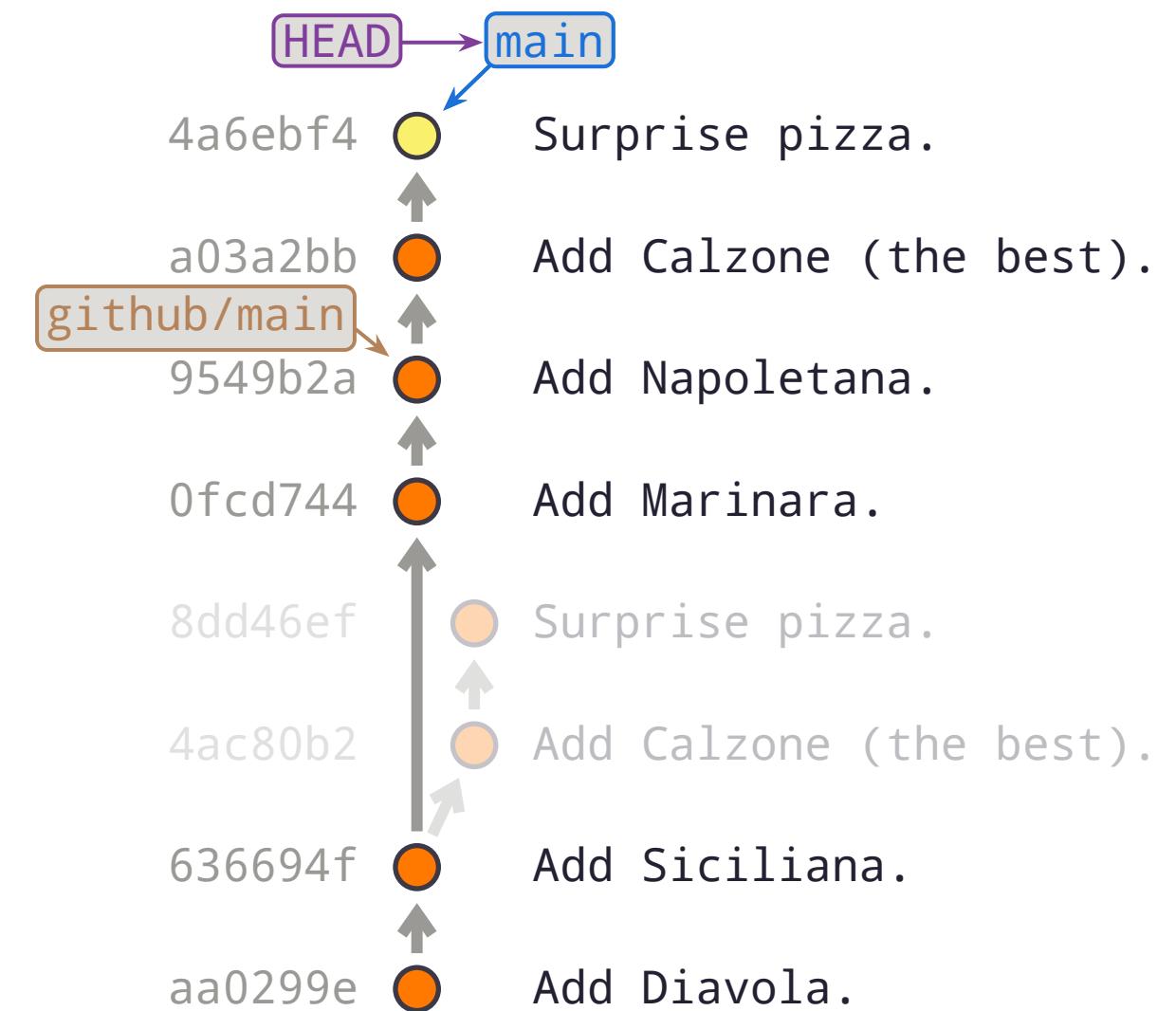
Merge and Rebase

Two Git Philosophies

Merge strategy



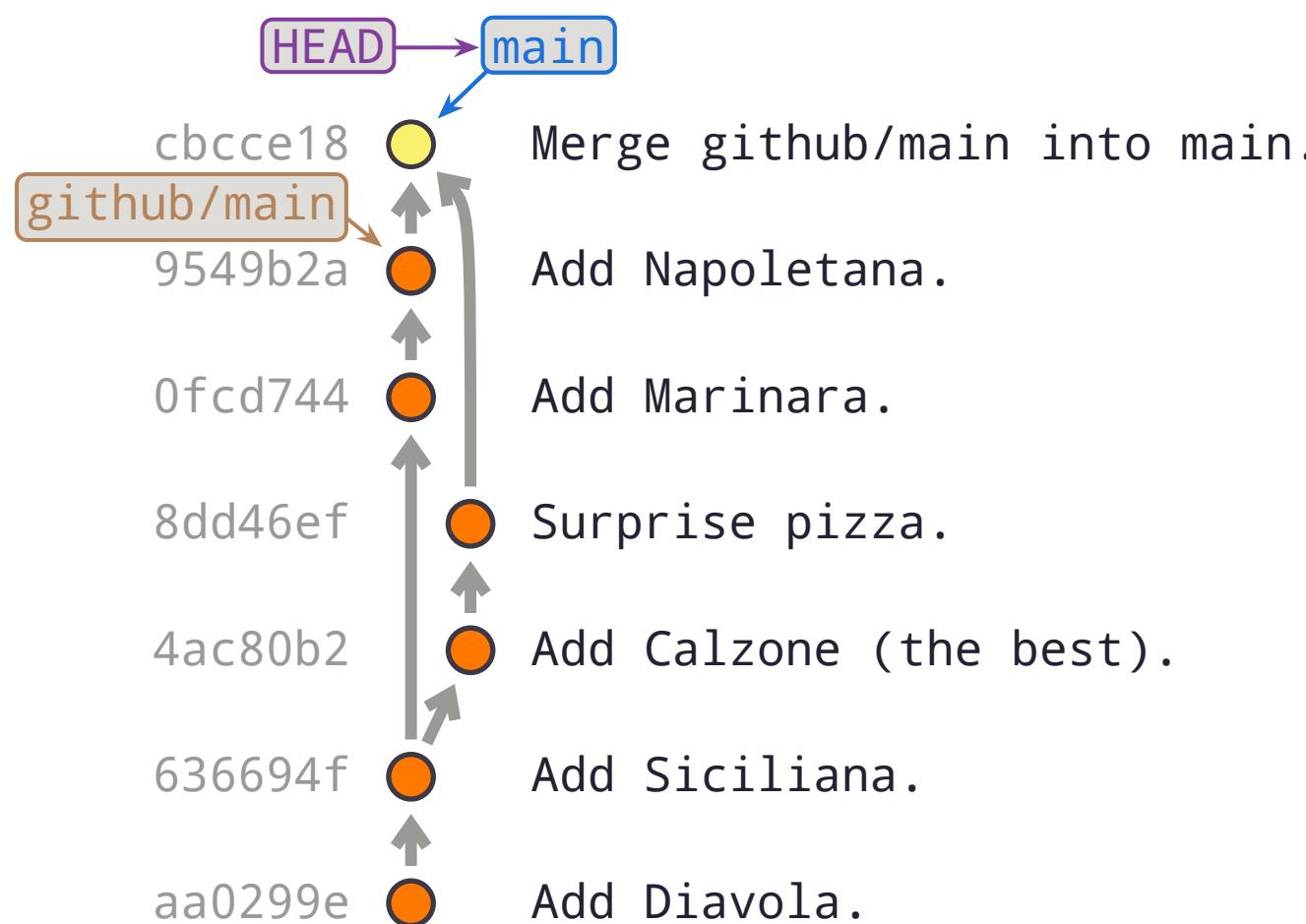
Rebase strategy



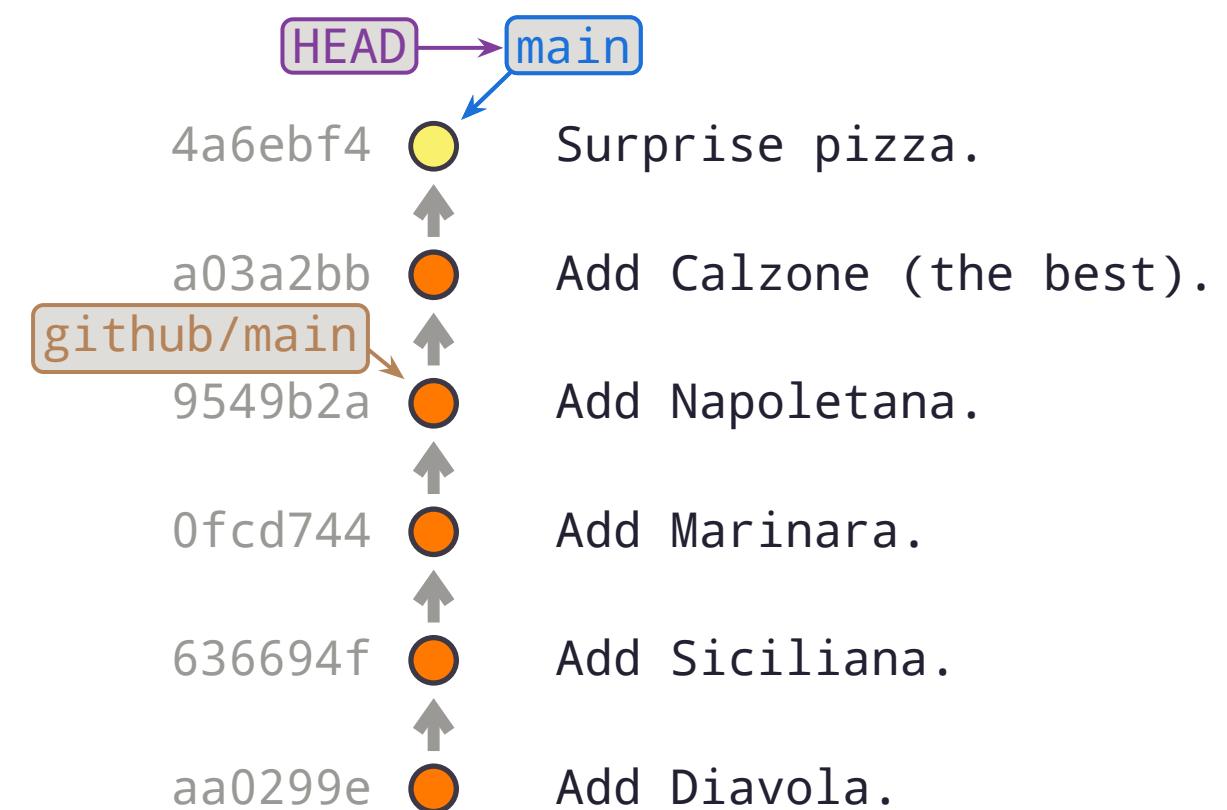
Merge and Rebase

Two Git Philosophies

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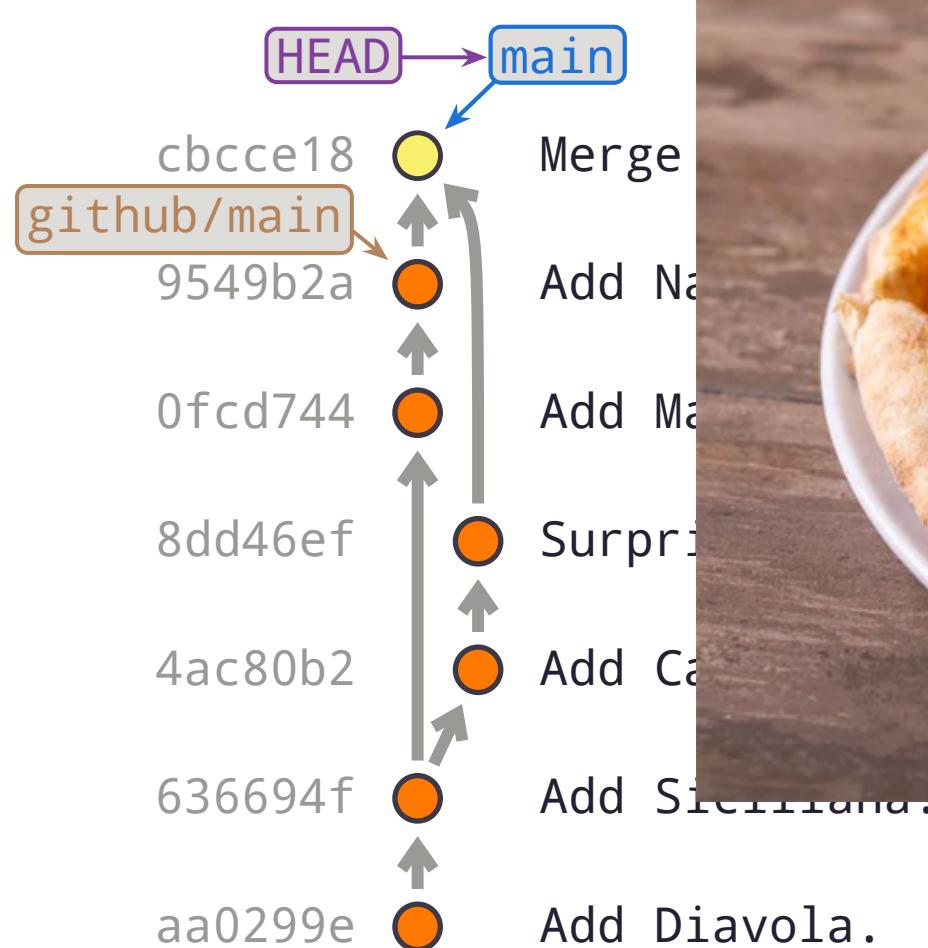
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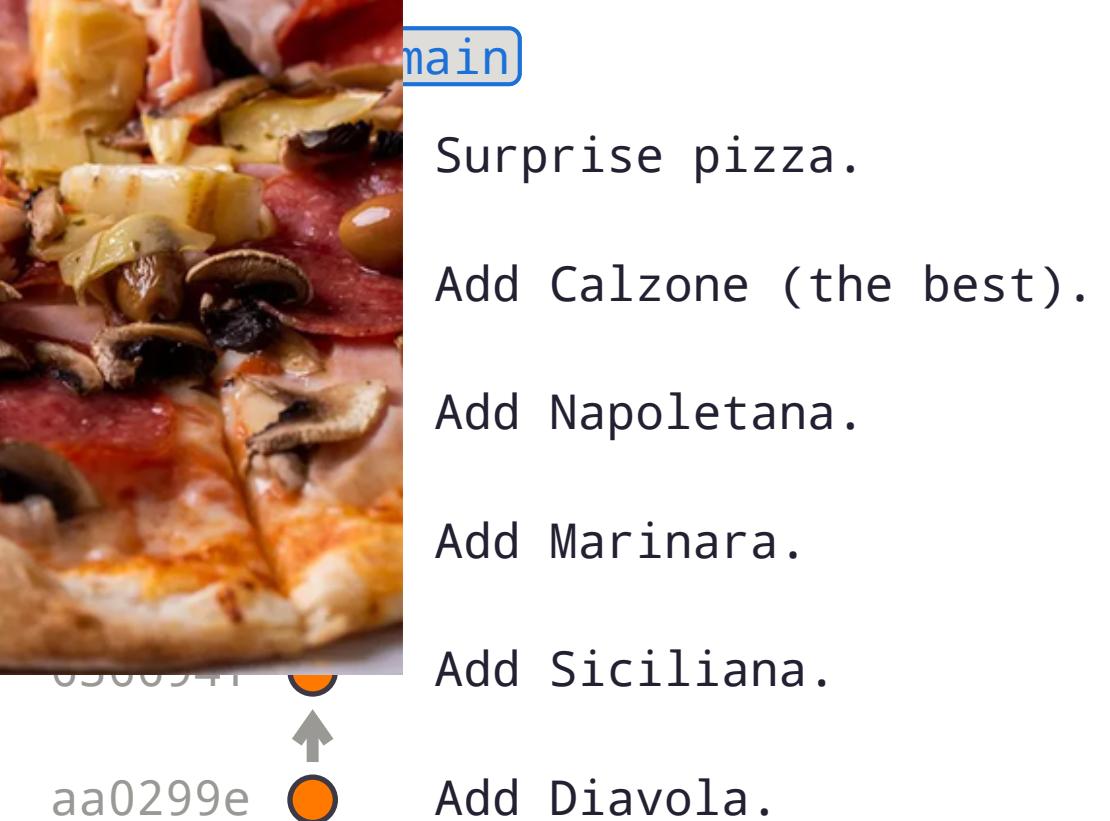
Merge and Rebase

Two Git Philosophies

Merge strategy



Rebase strategy



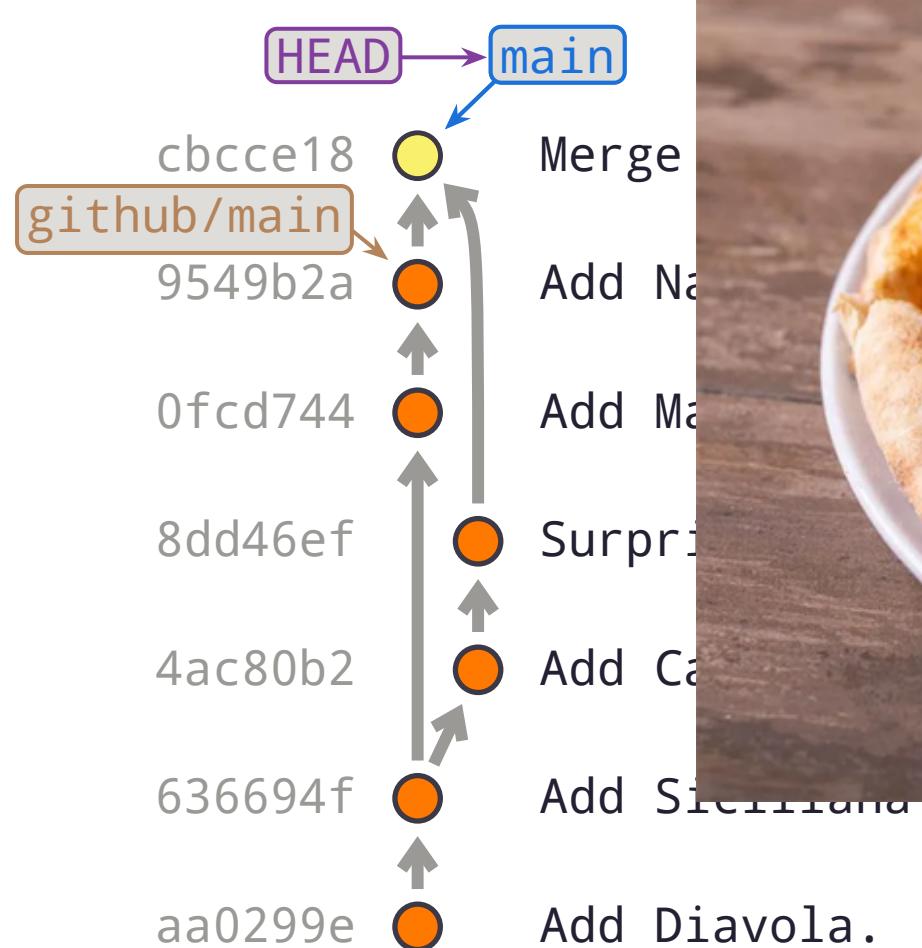
Merge and Rebase

Two Git Philosophies

Merge strategy

Rebase strategy

```
$ git commit
```



main
Surprise pizza.
Add Calzone (the best).
Add Napoletana.
Add Marinara.
Add Siciliana.
aa0299e → Add Diavola.

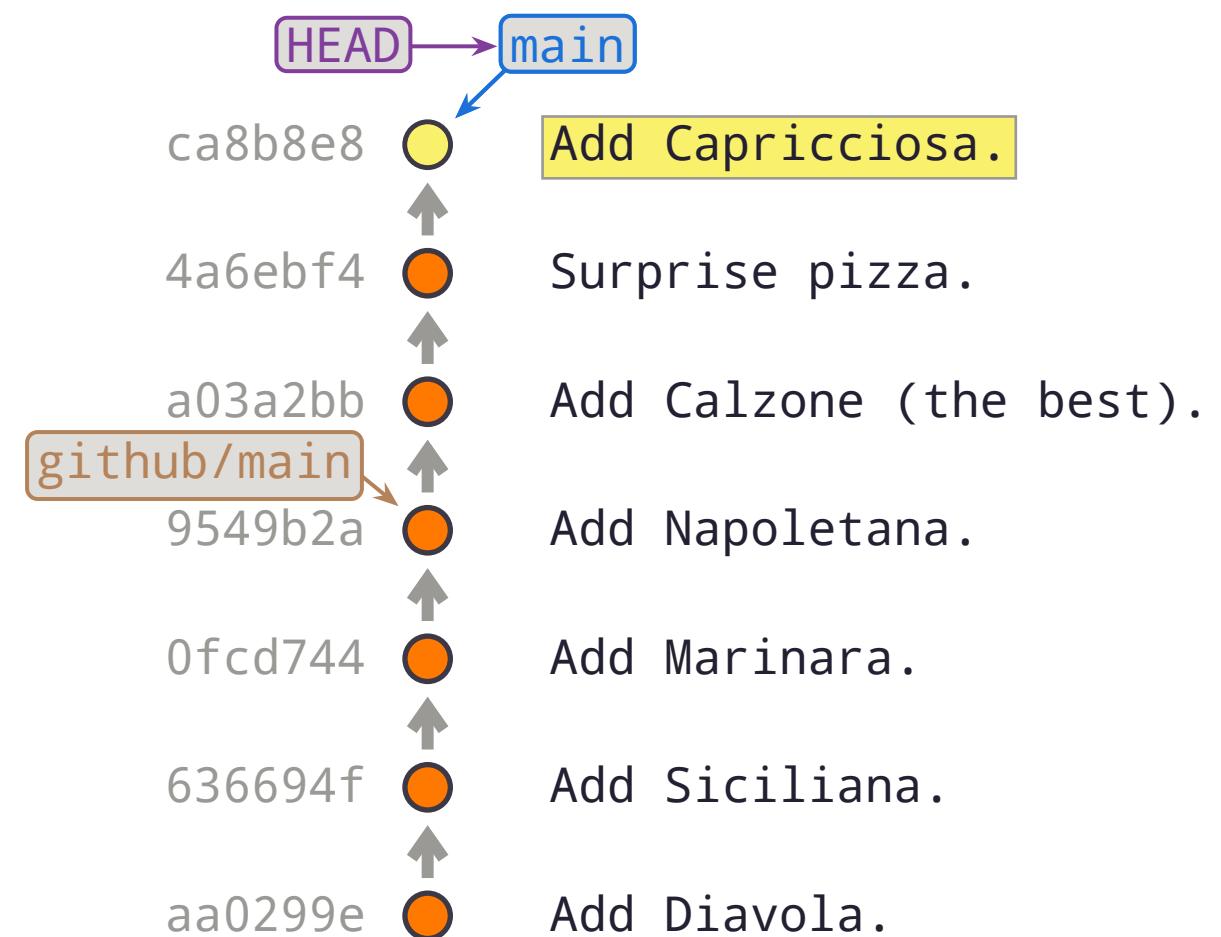
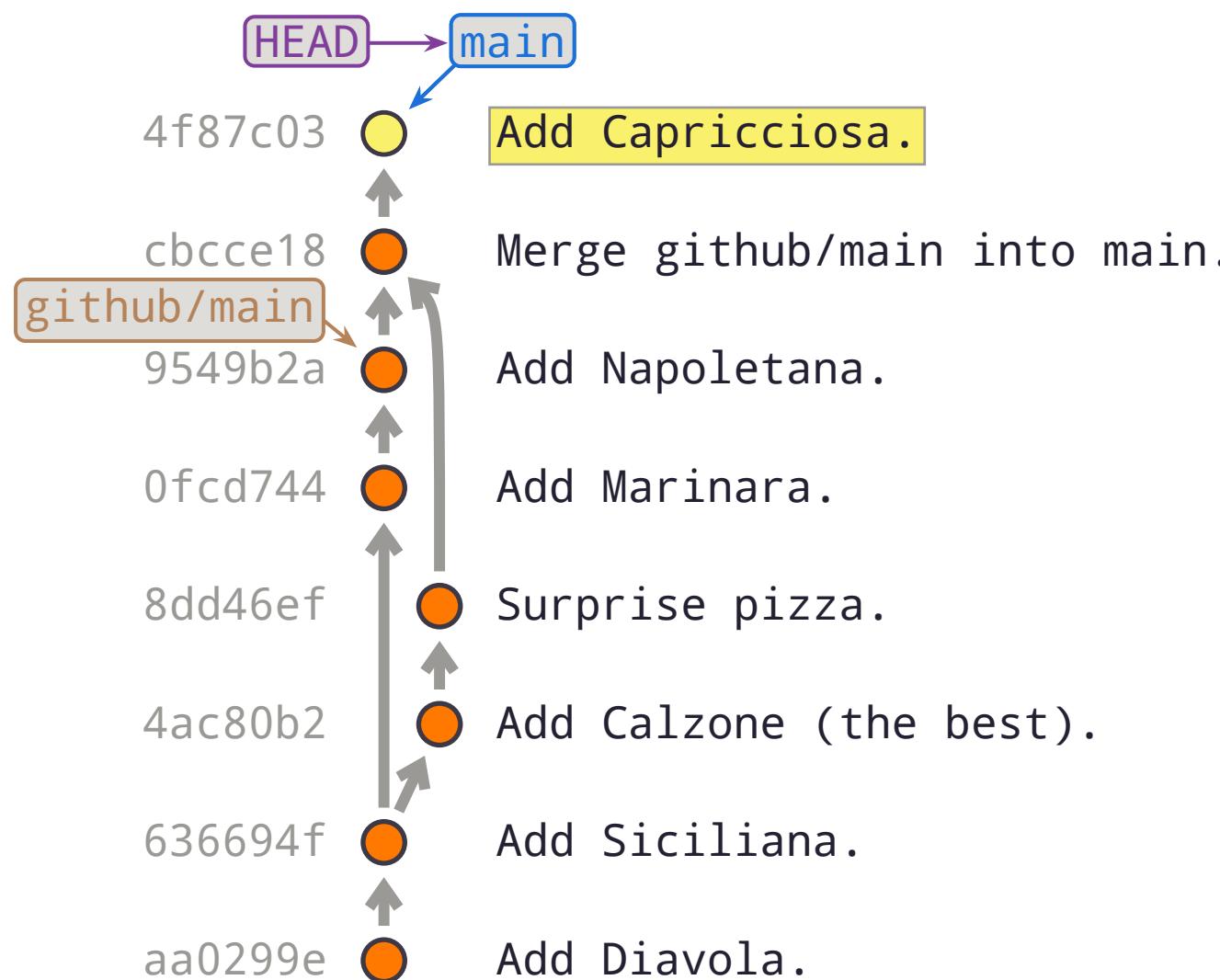
Merge and Rebase

Two Git Philosophies

Merge strategy

Rebase strategy

\$ git commit



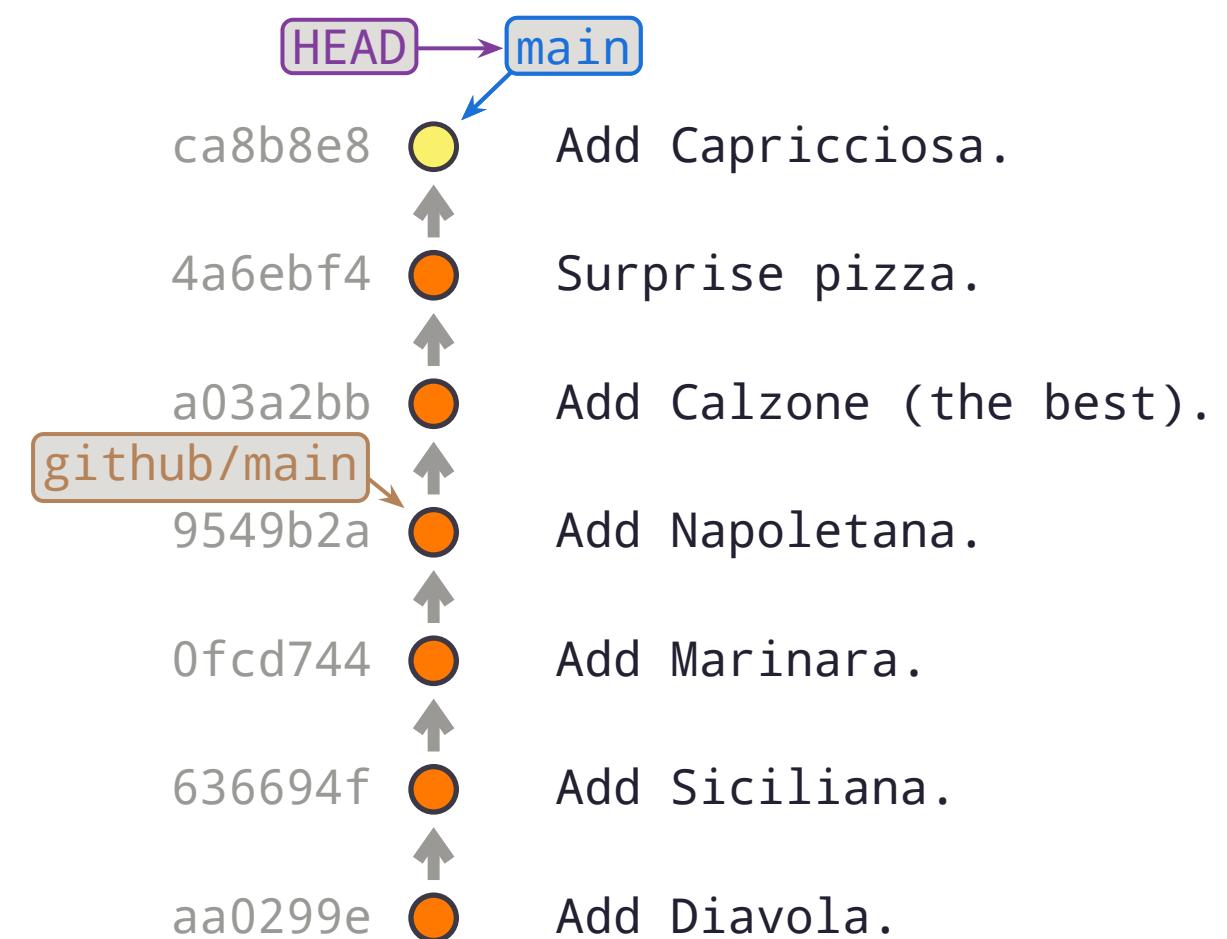
Merge and Rebase

Two Git Philosophies

Merge strategy

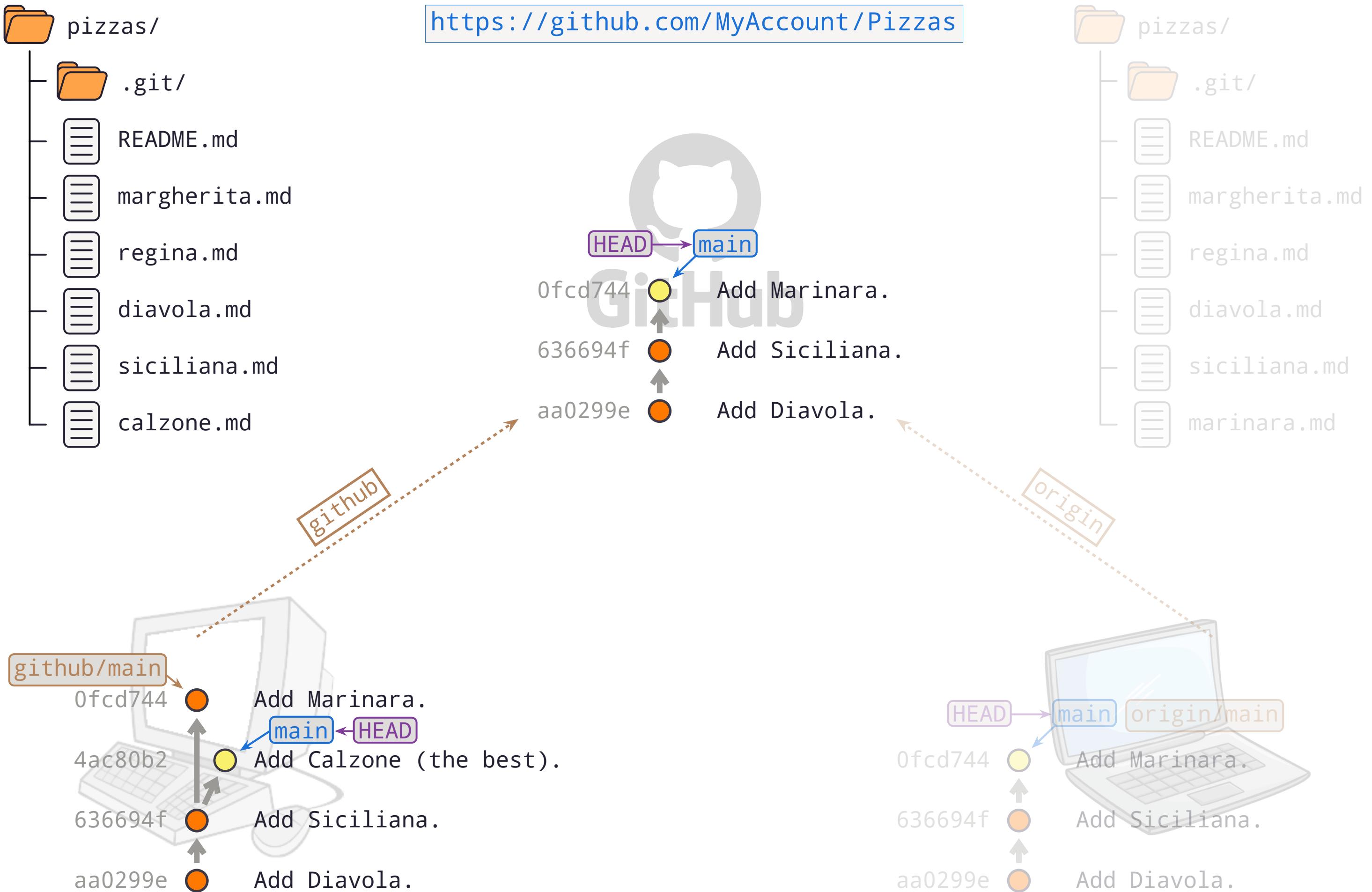


Rebase strategy



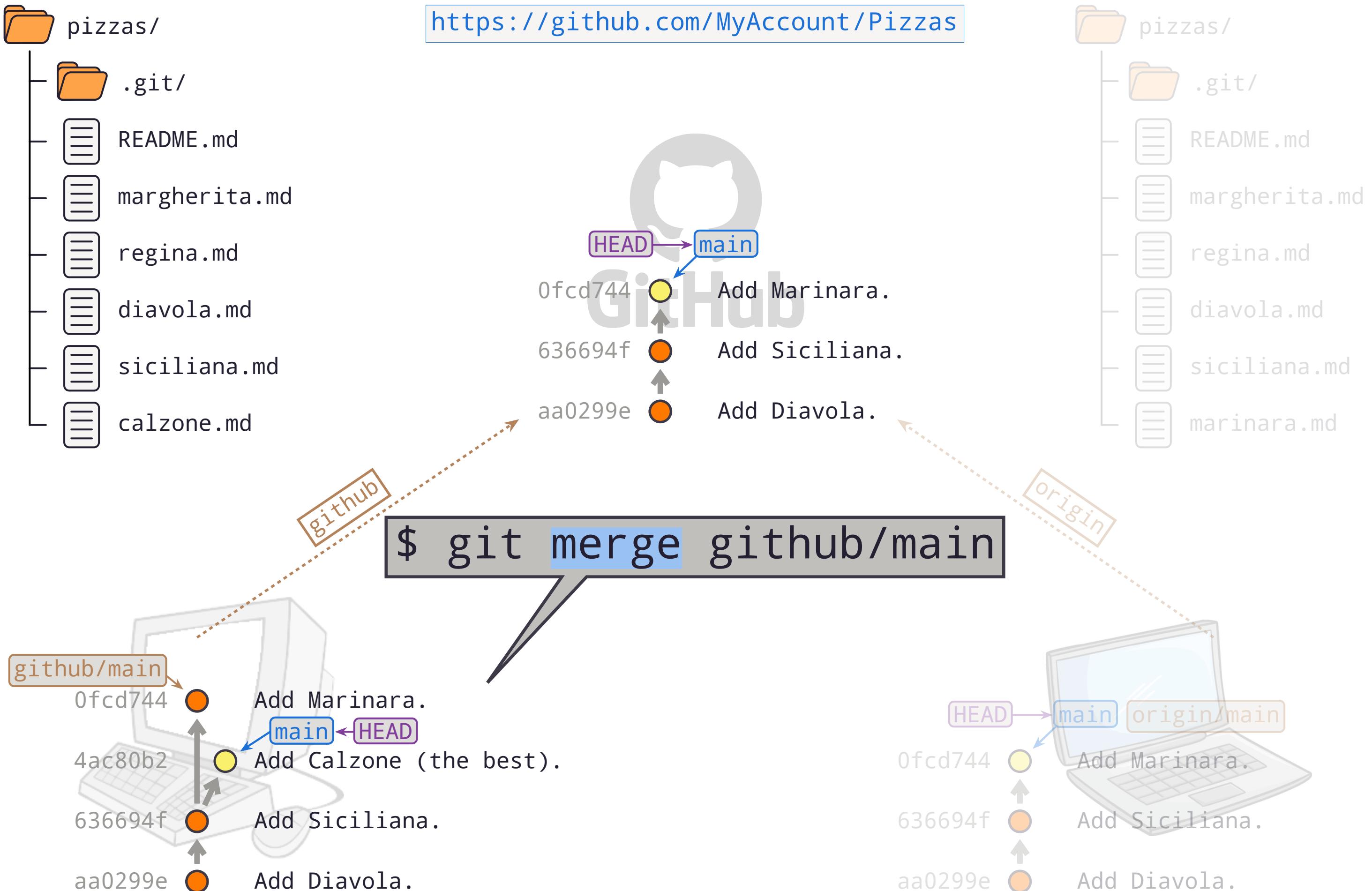
Share integrated work

(Merge style)



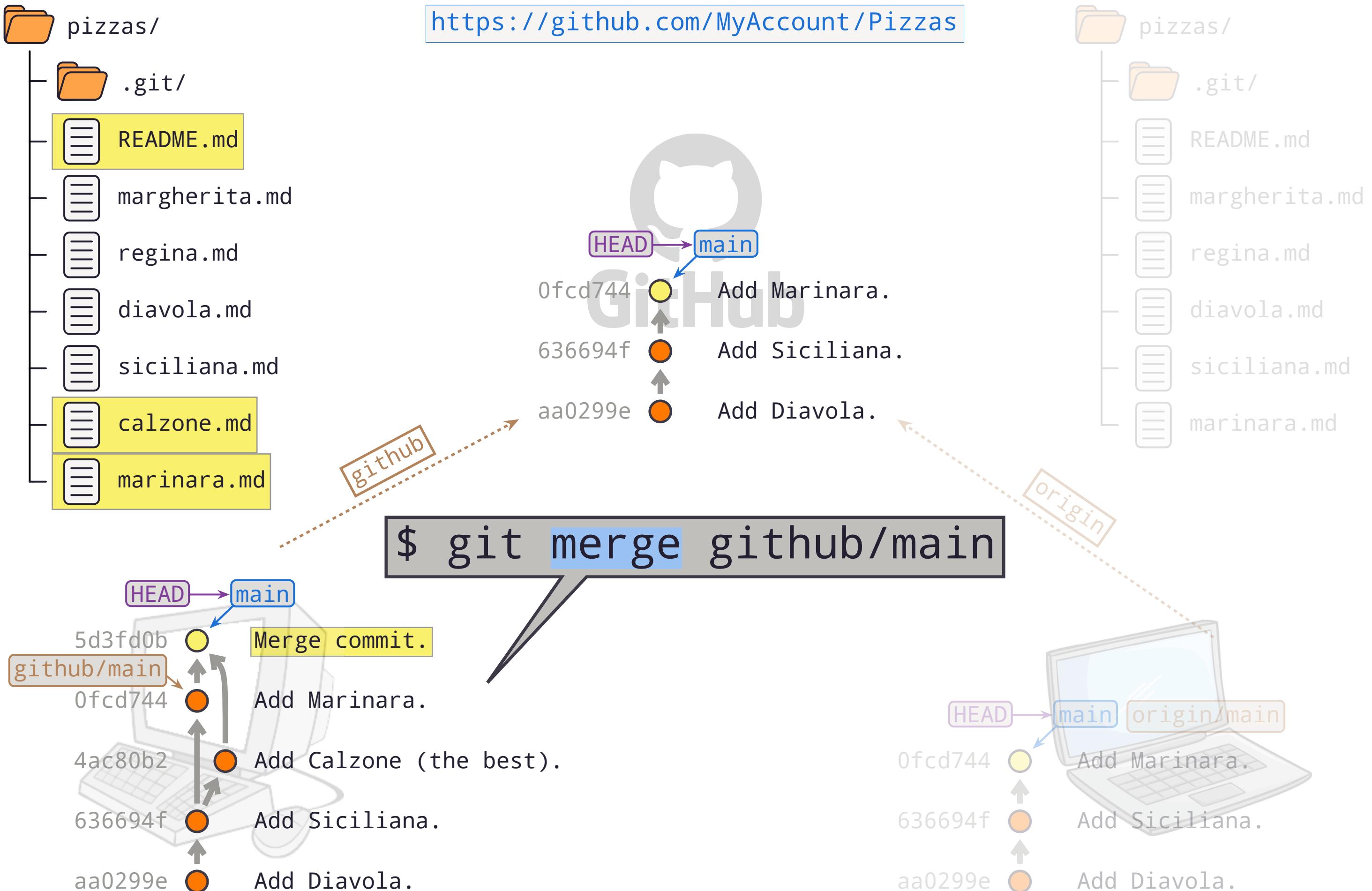
Share integrated work

(Merge style)



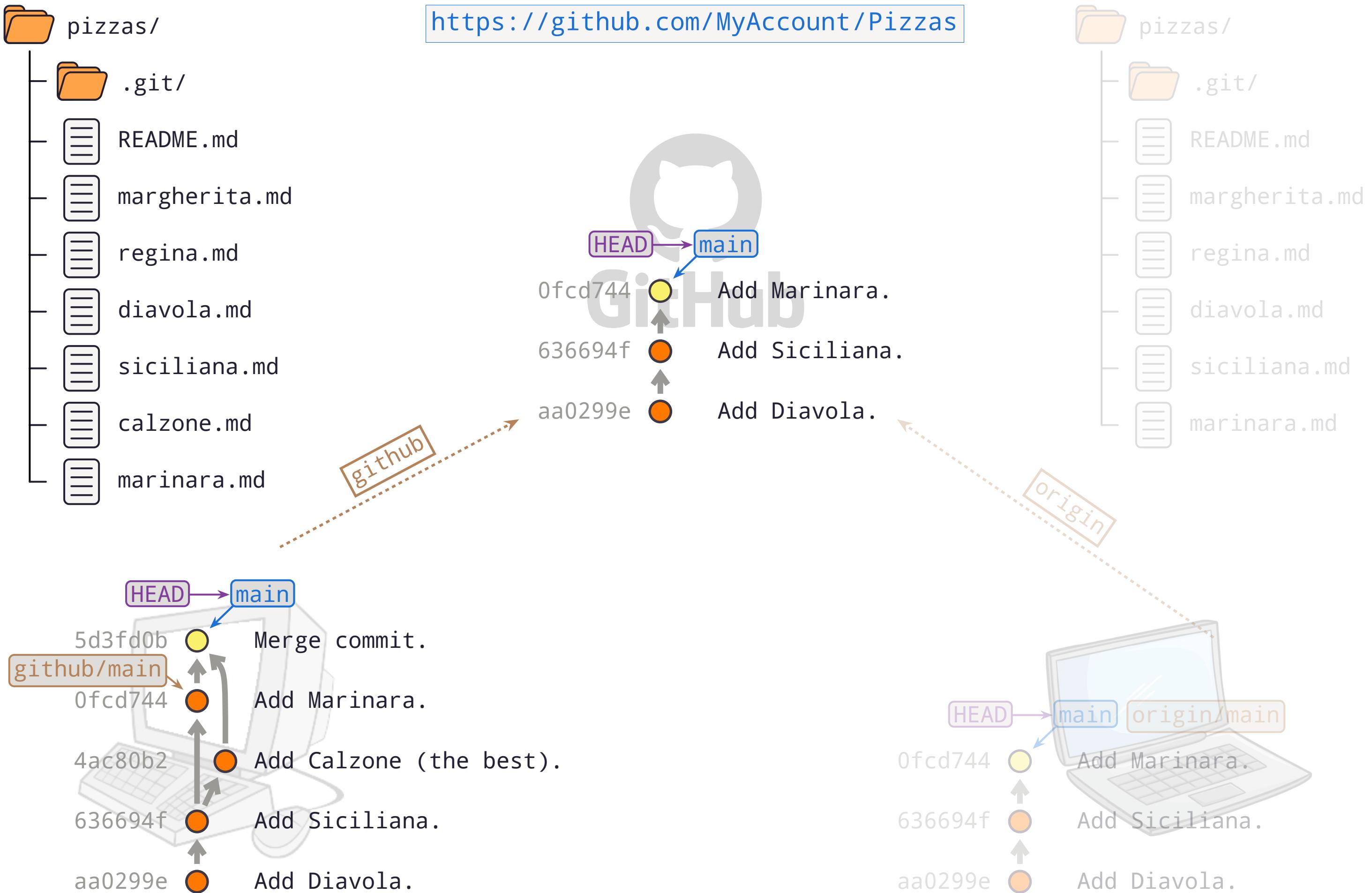
Share integrated work

(Merge style)



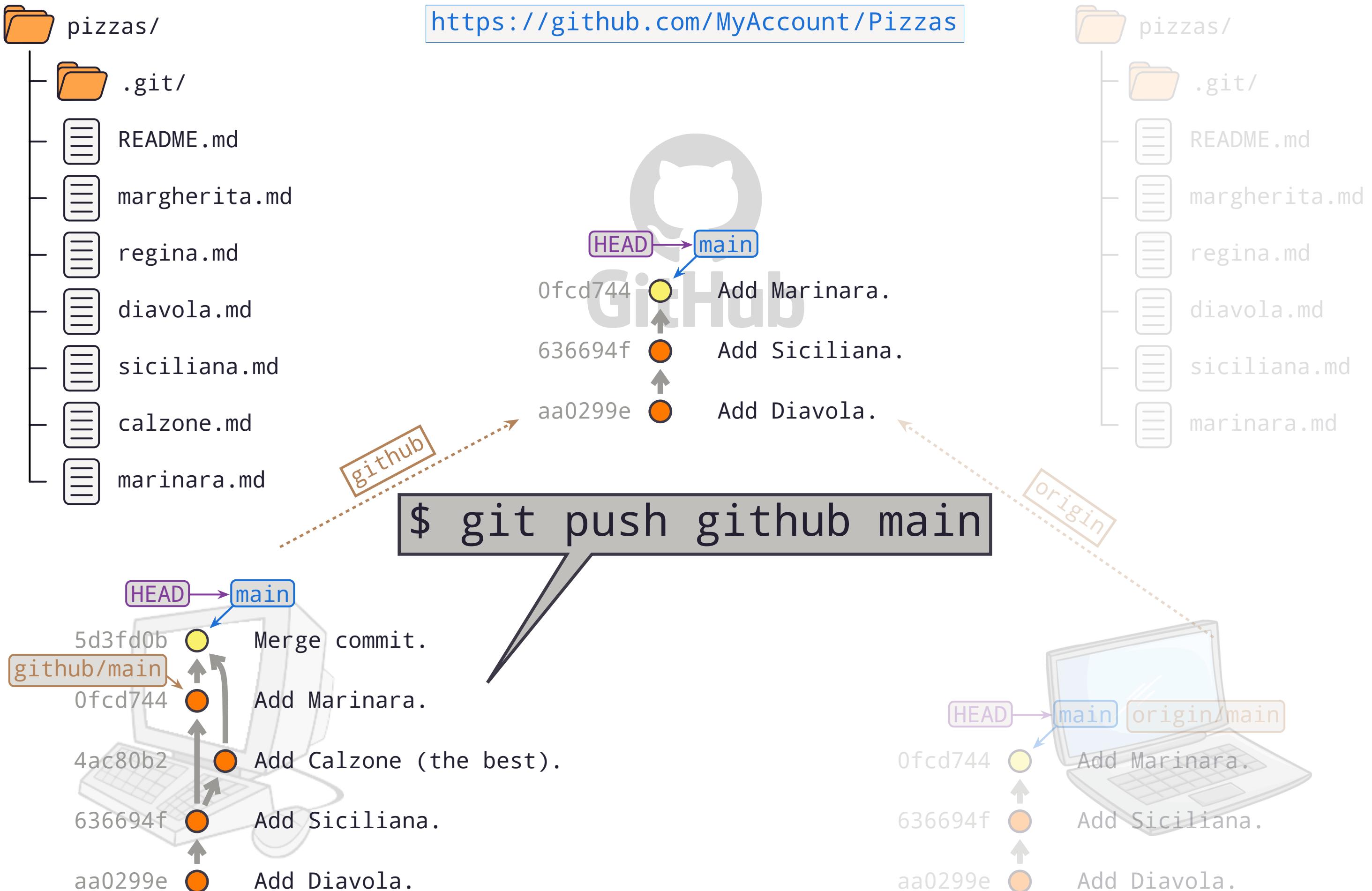
Share integrated work

(Merge style)



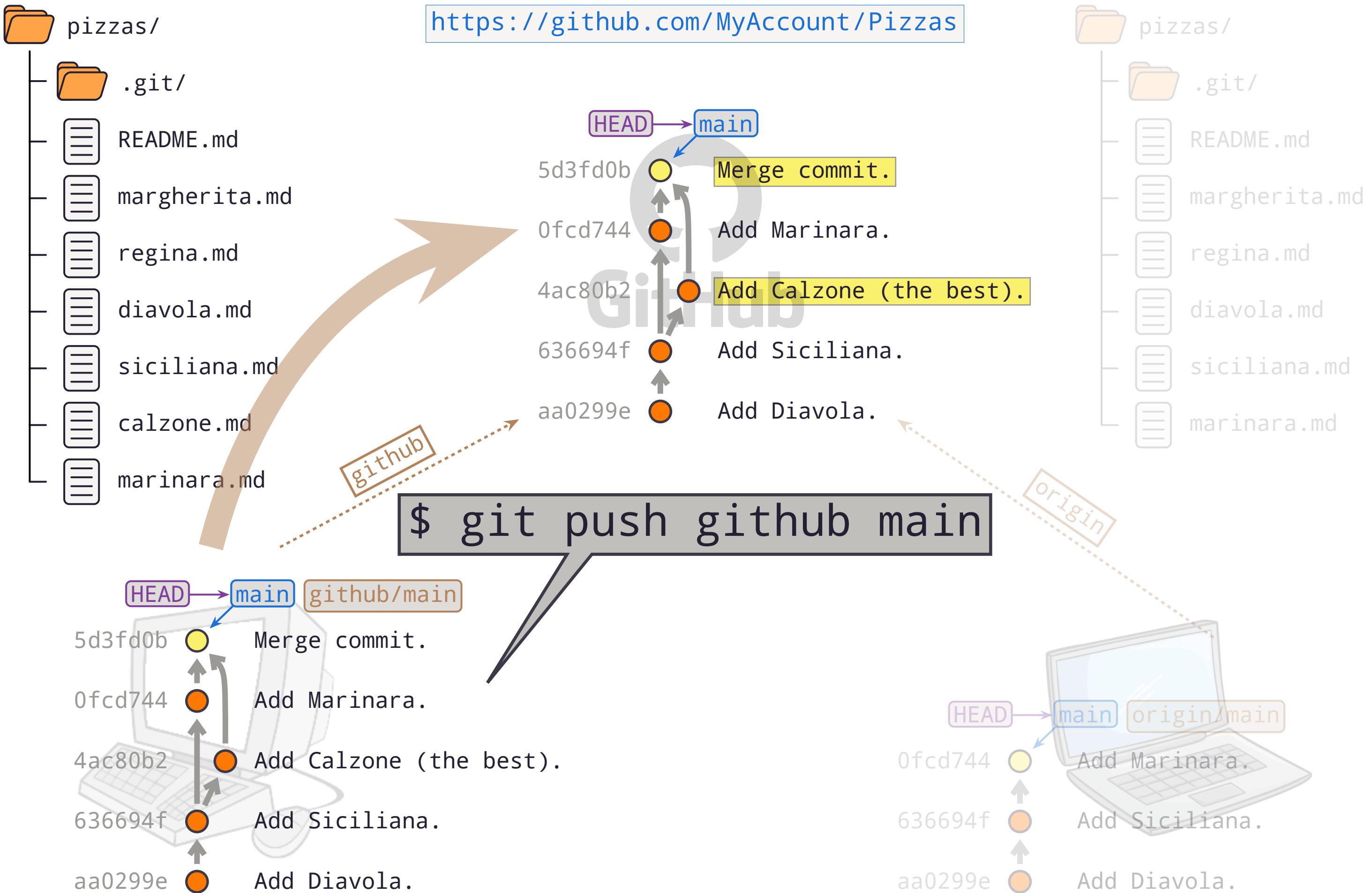
Share integrated work

(Merge style)



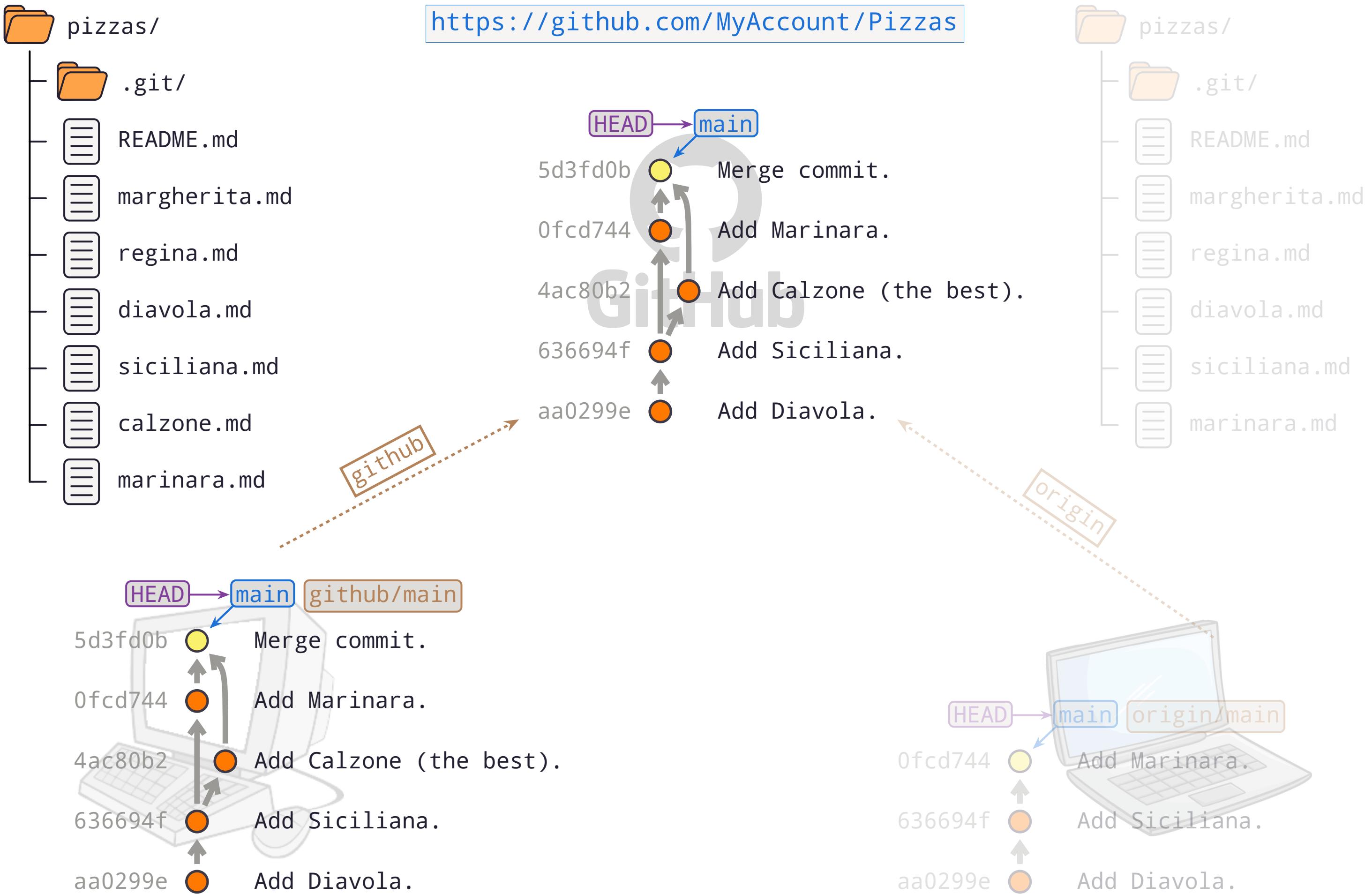
Share integrated work

(Merge style)



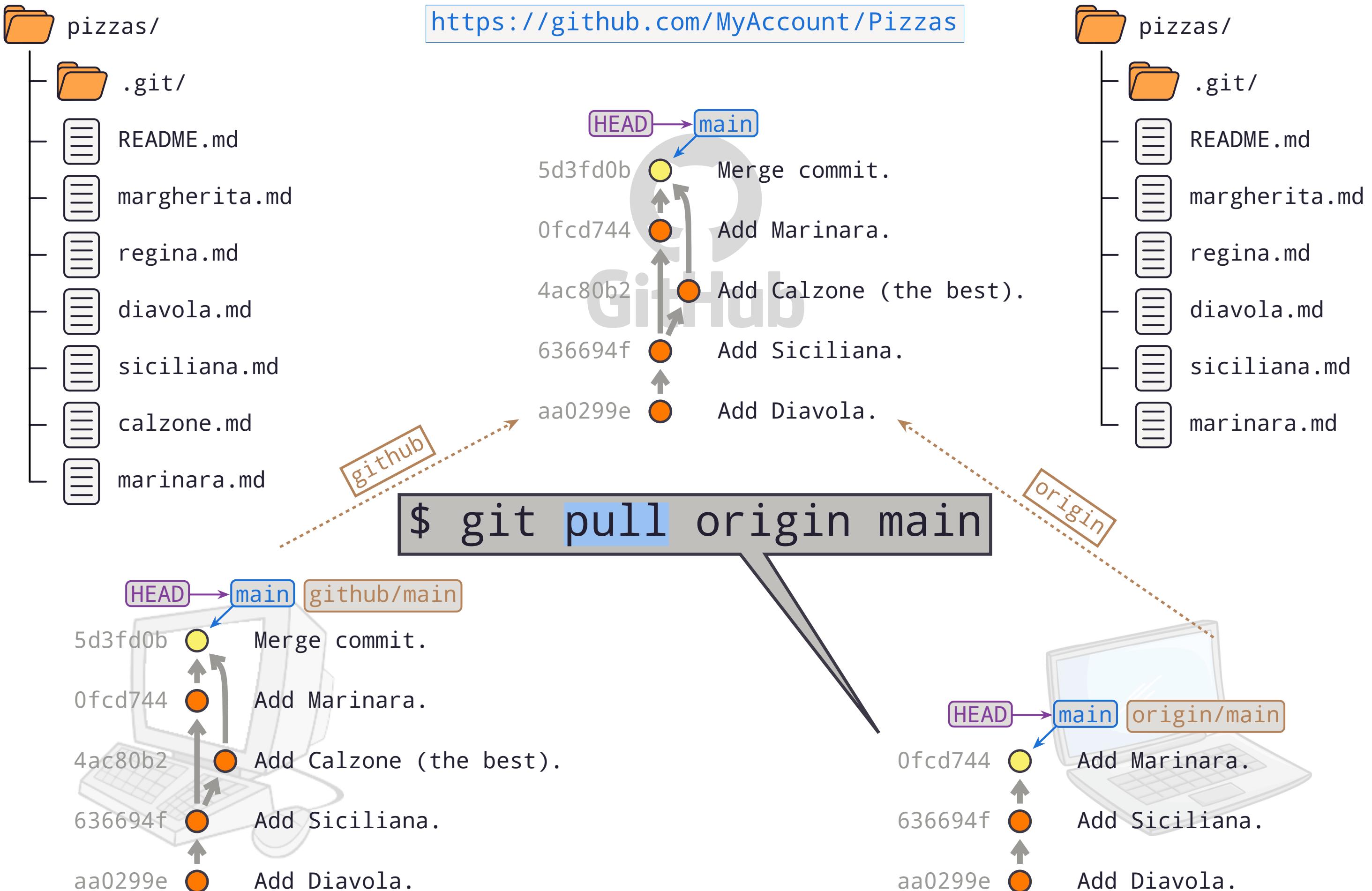
Share integrated work

(Merge style)



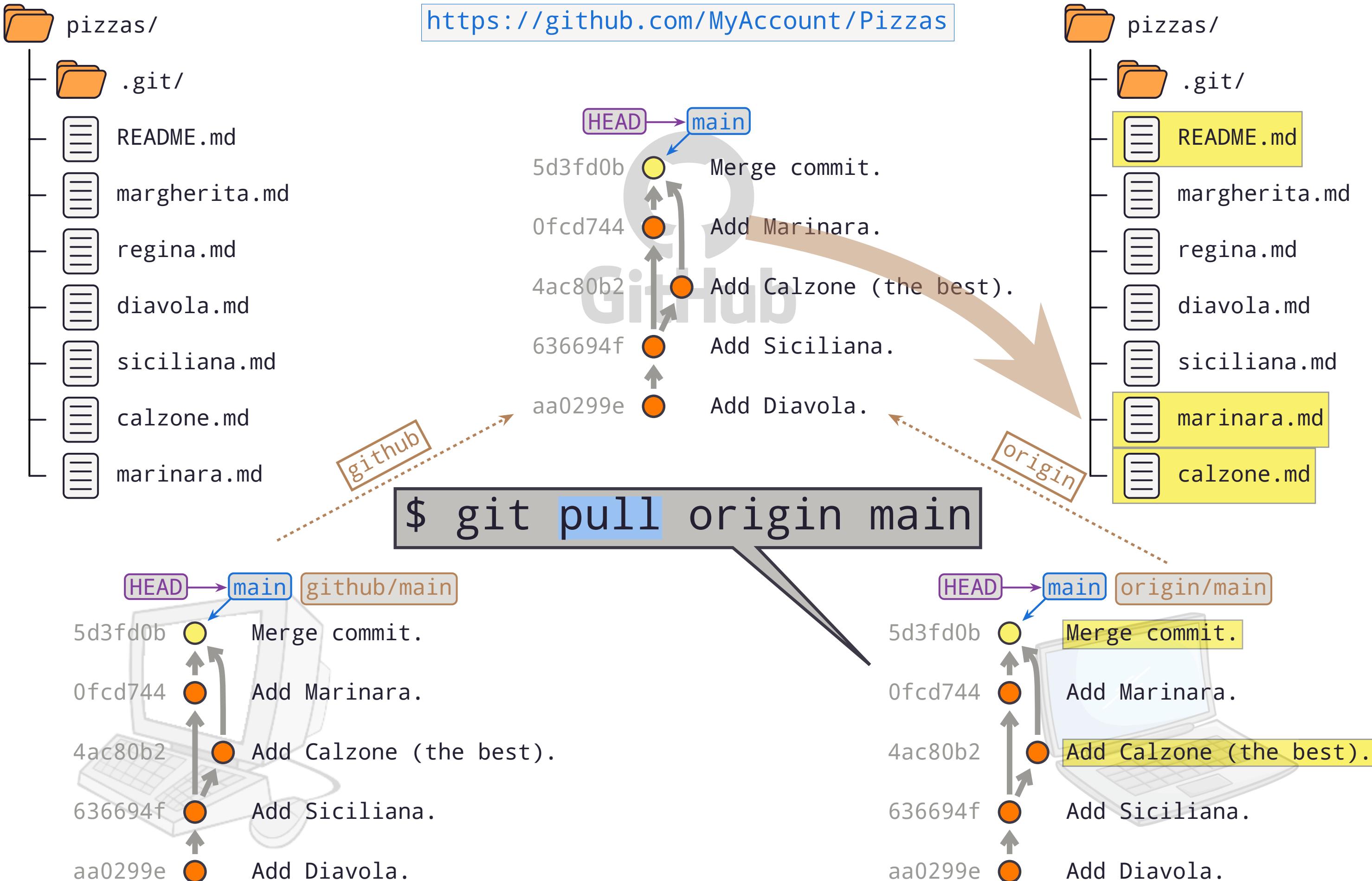
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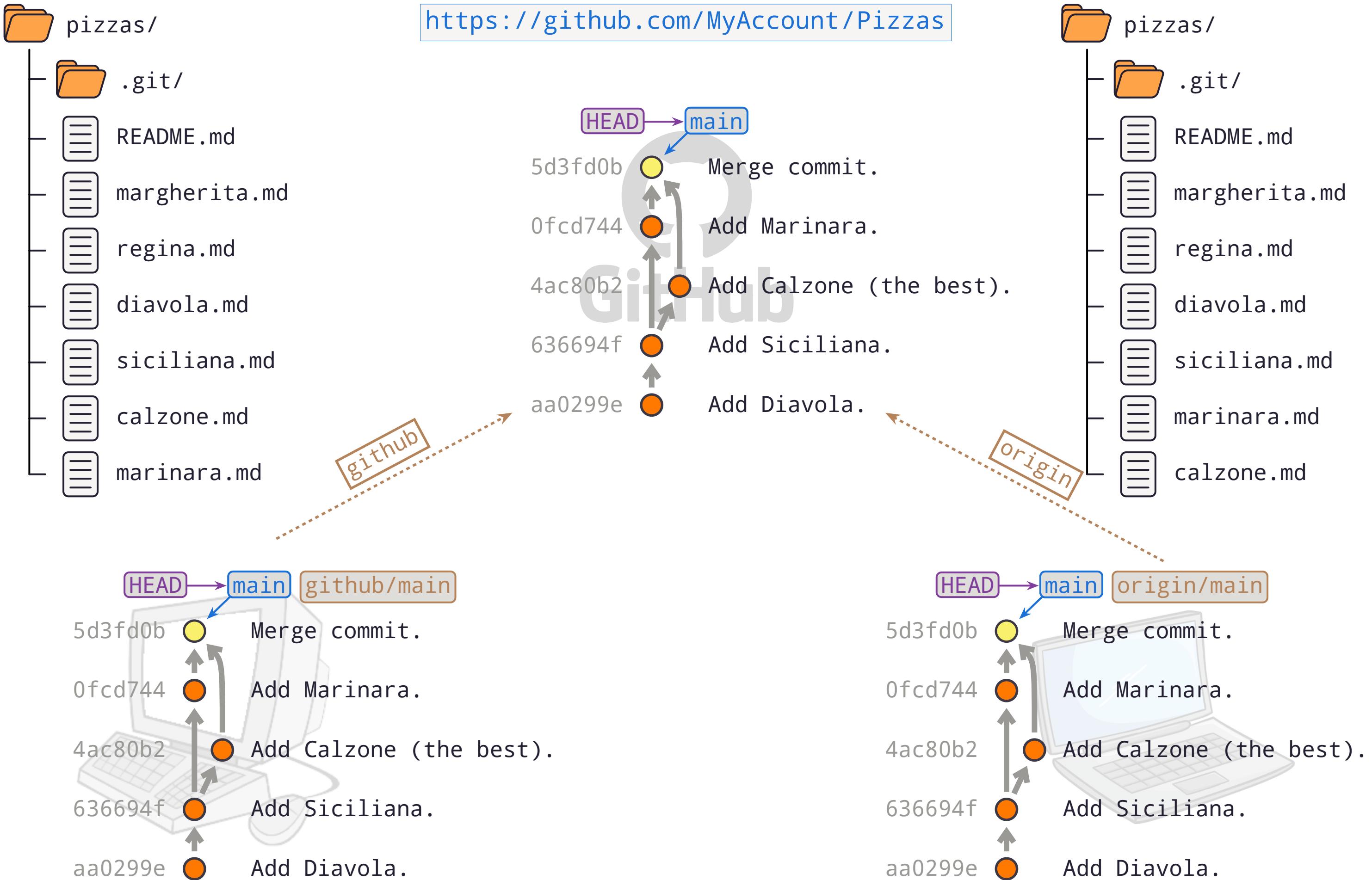
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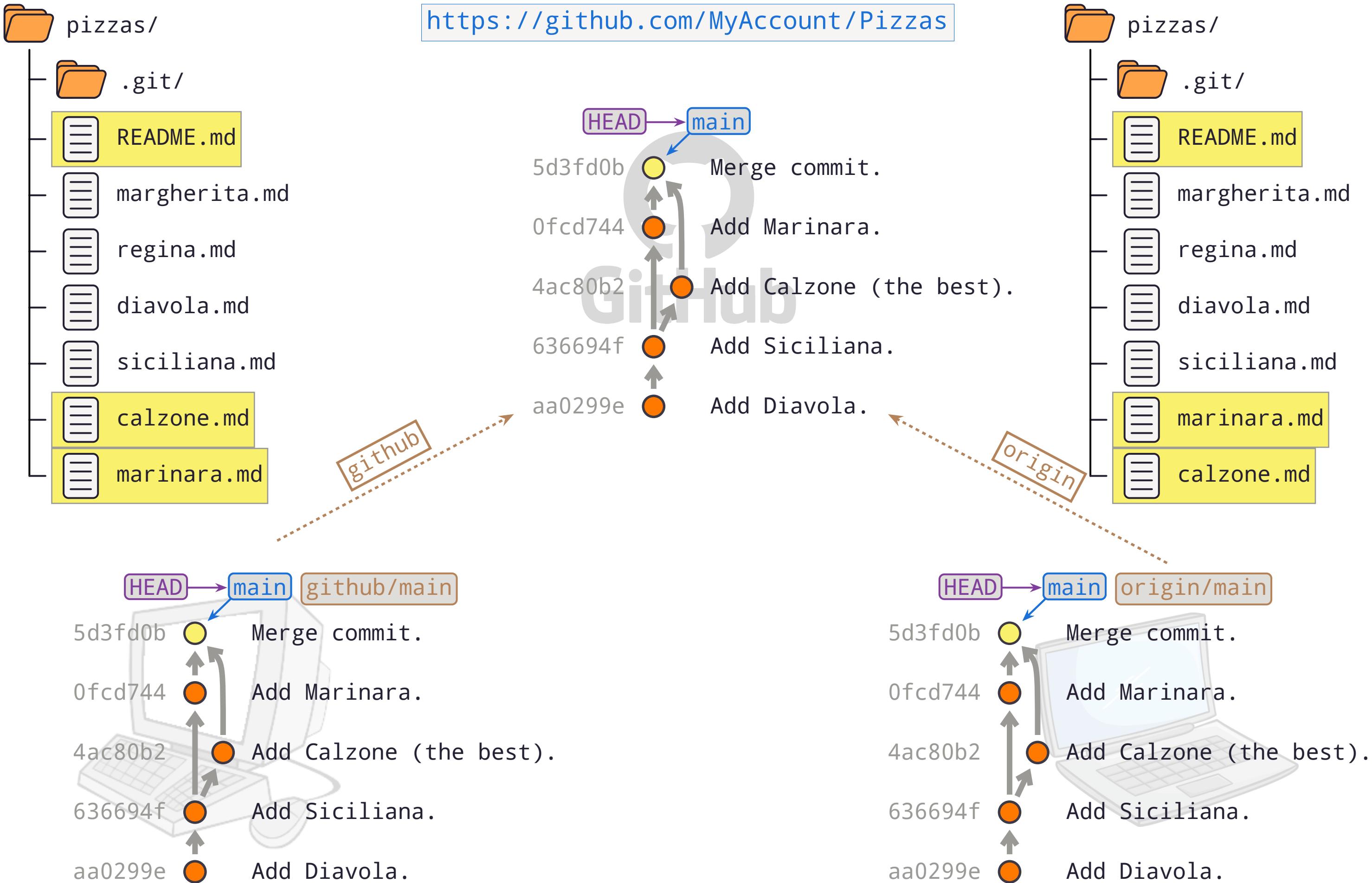
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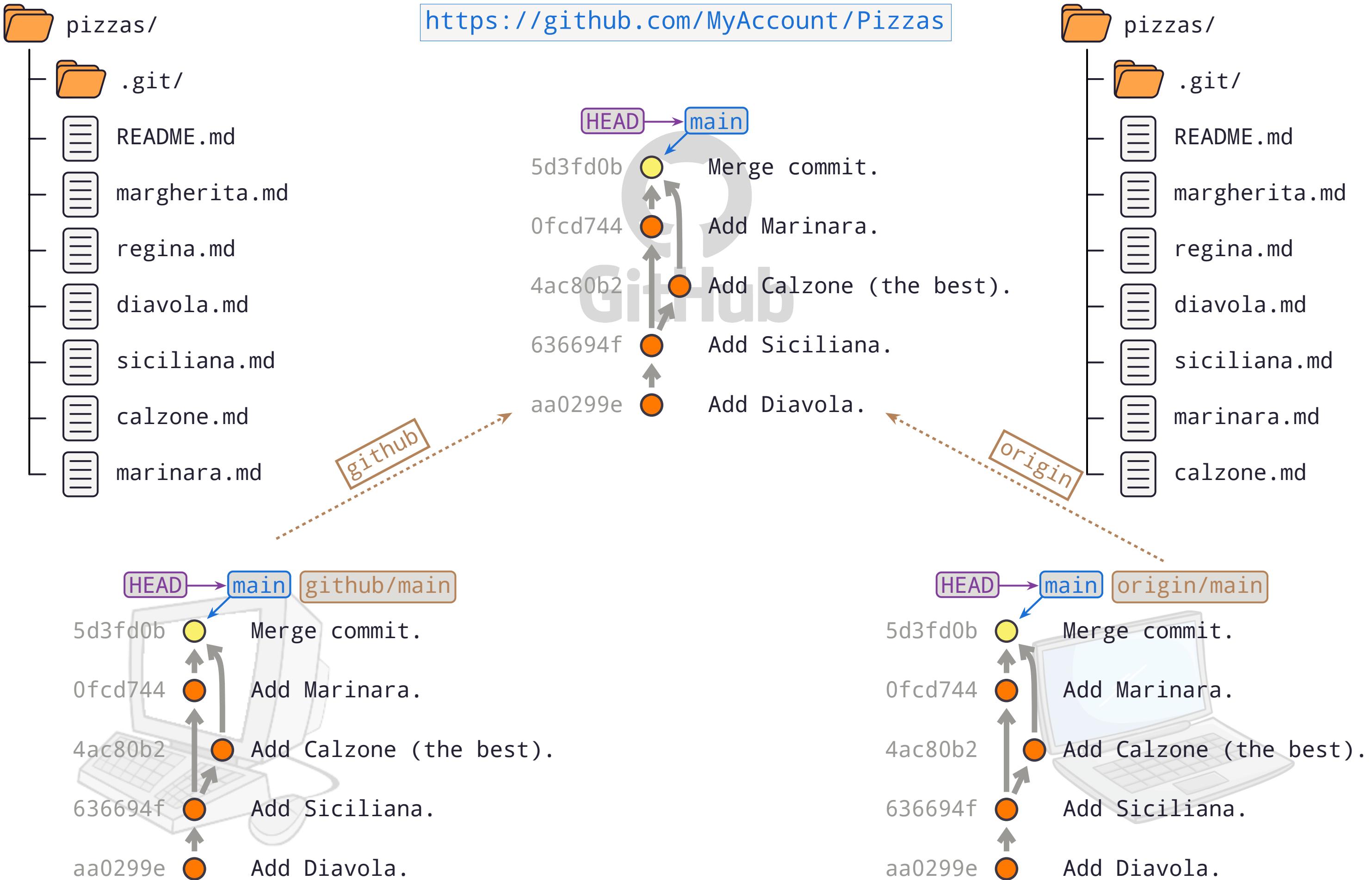
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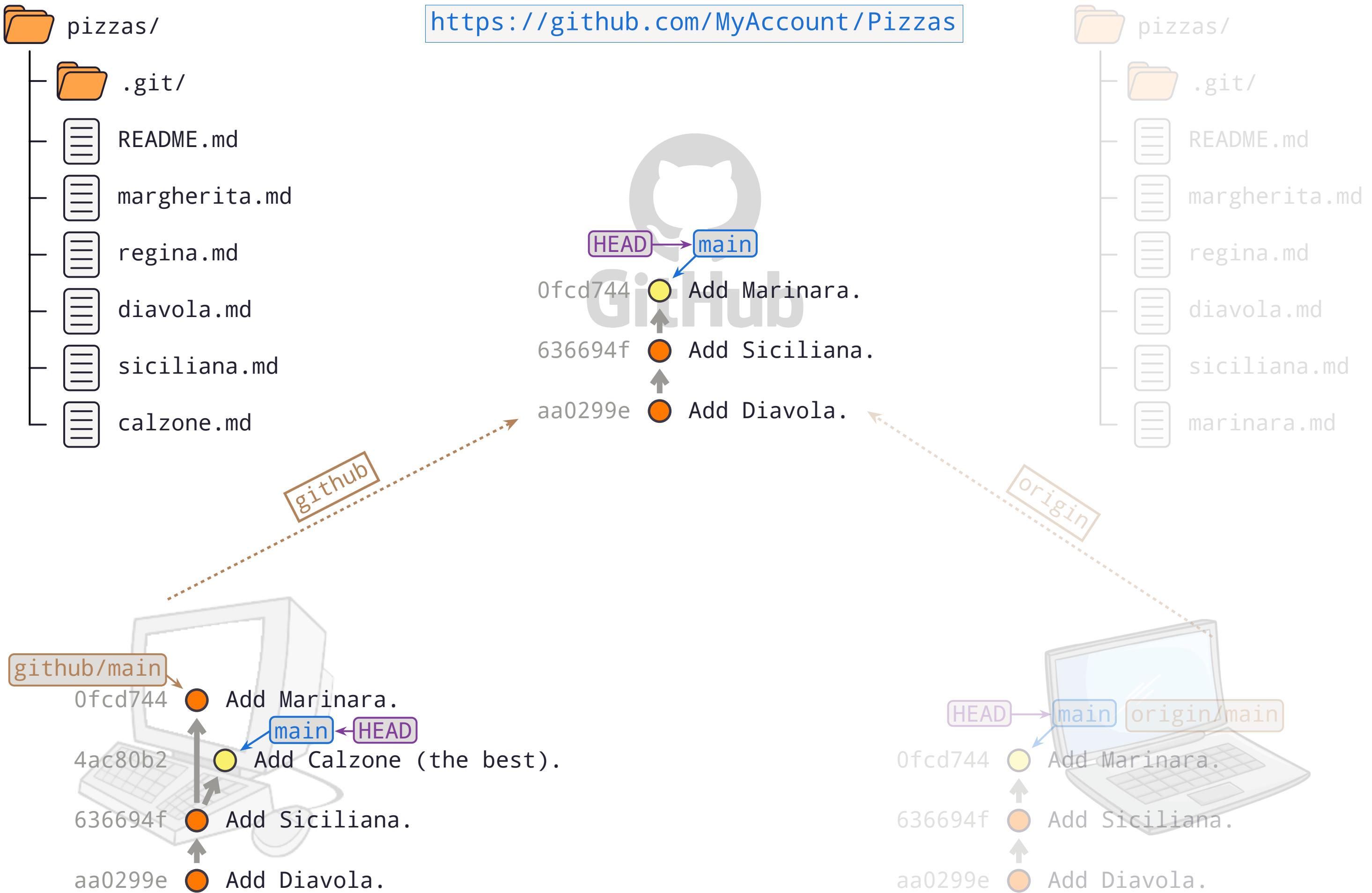
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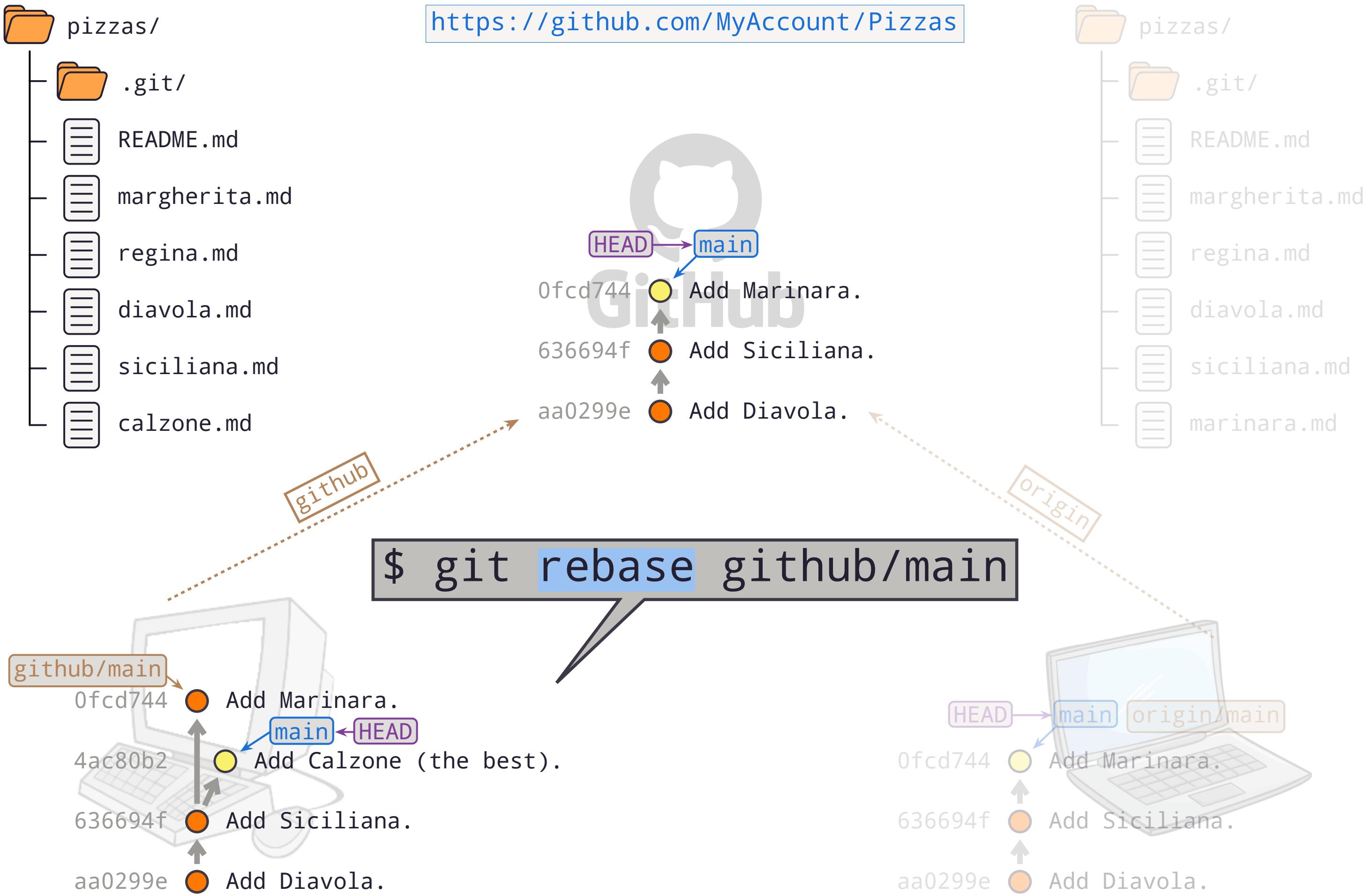
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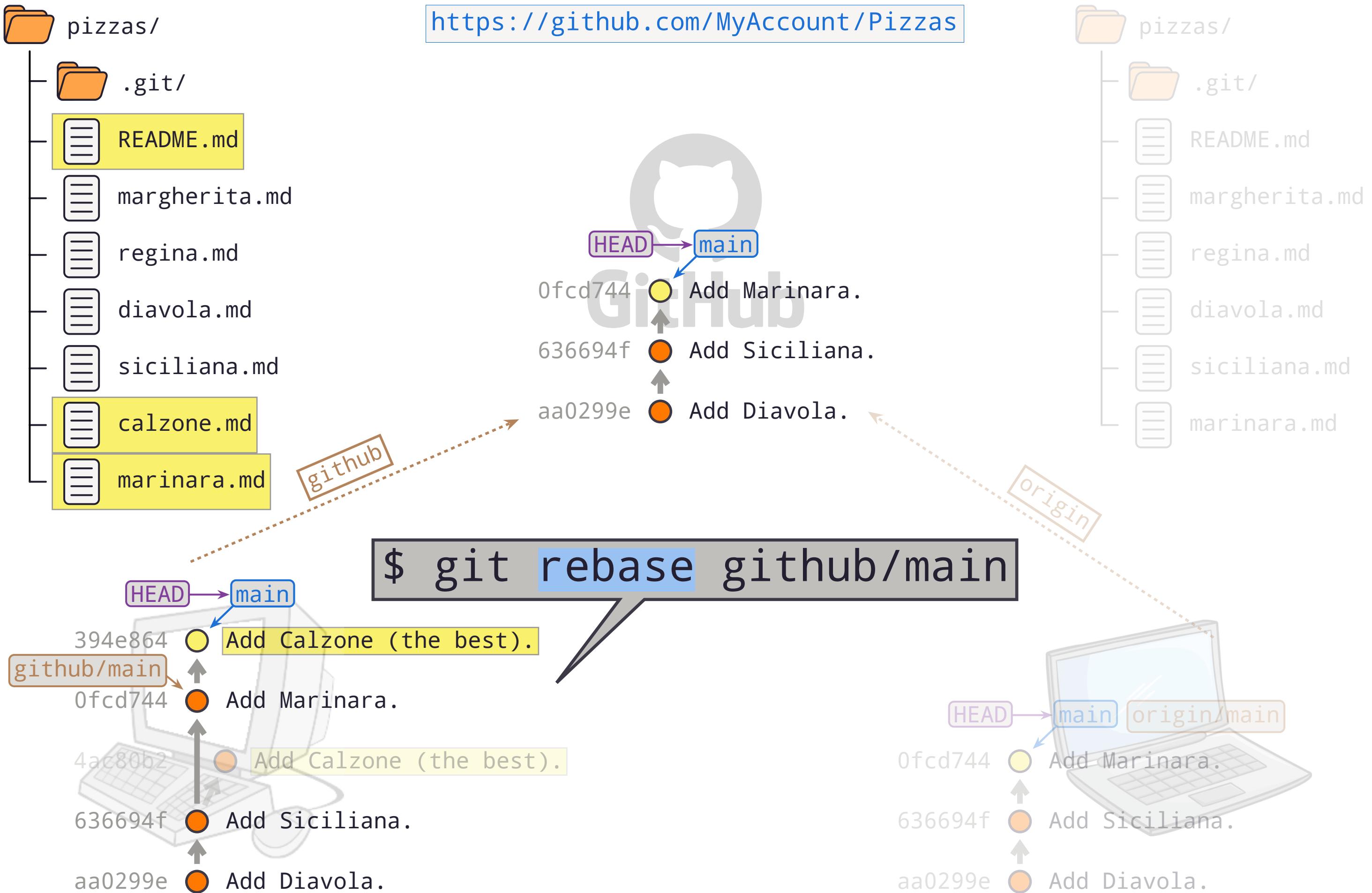
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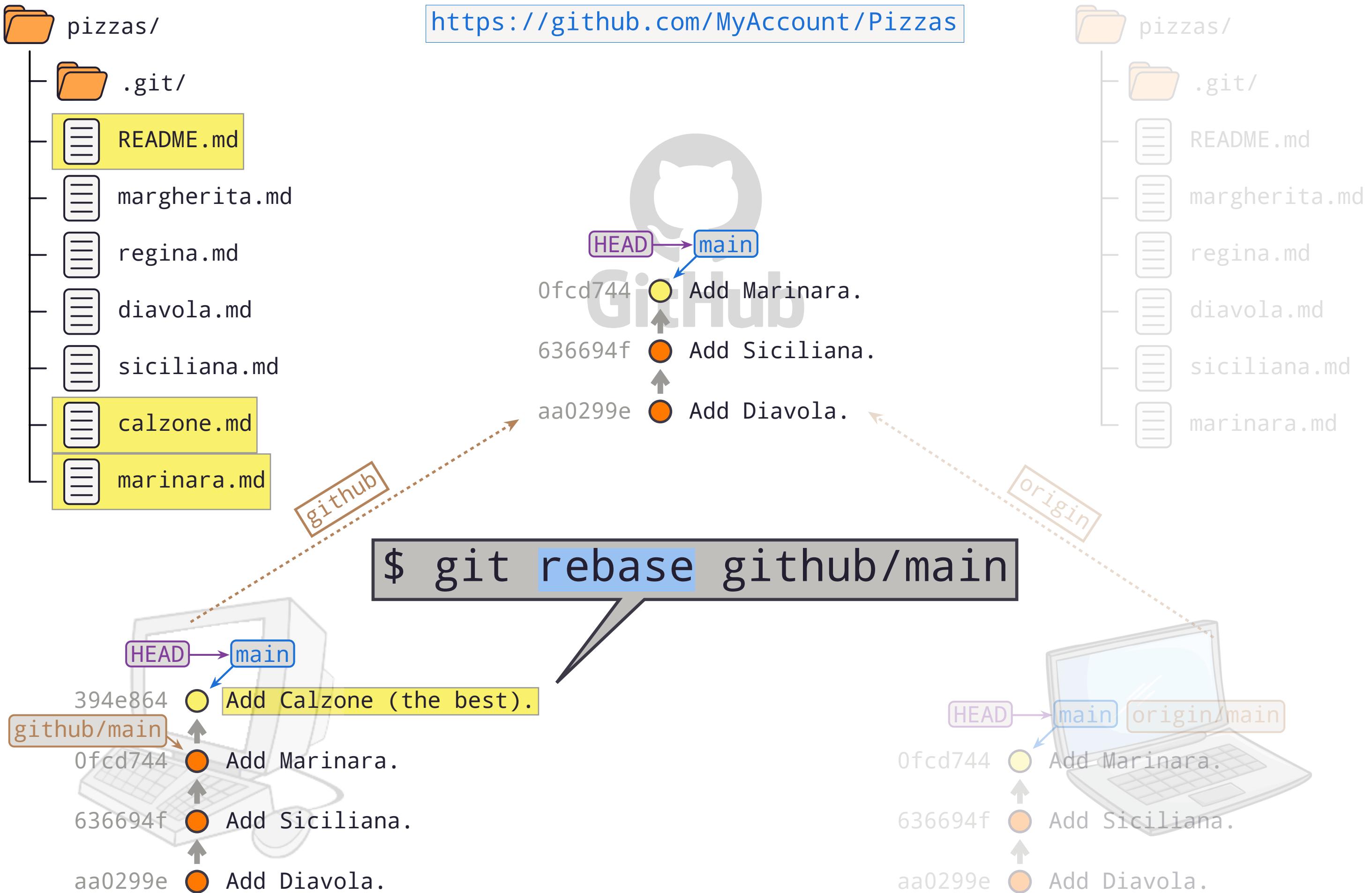
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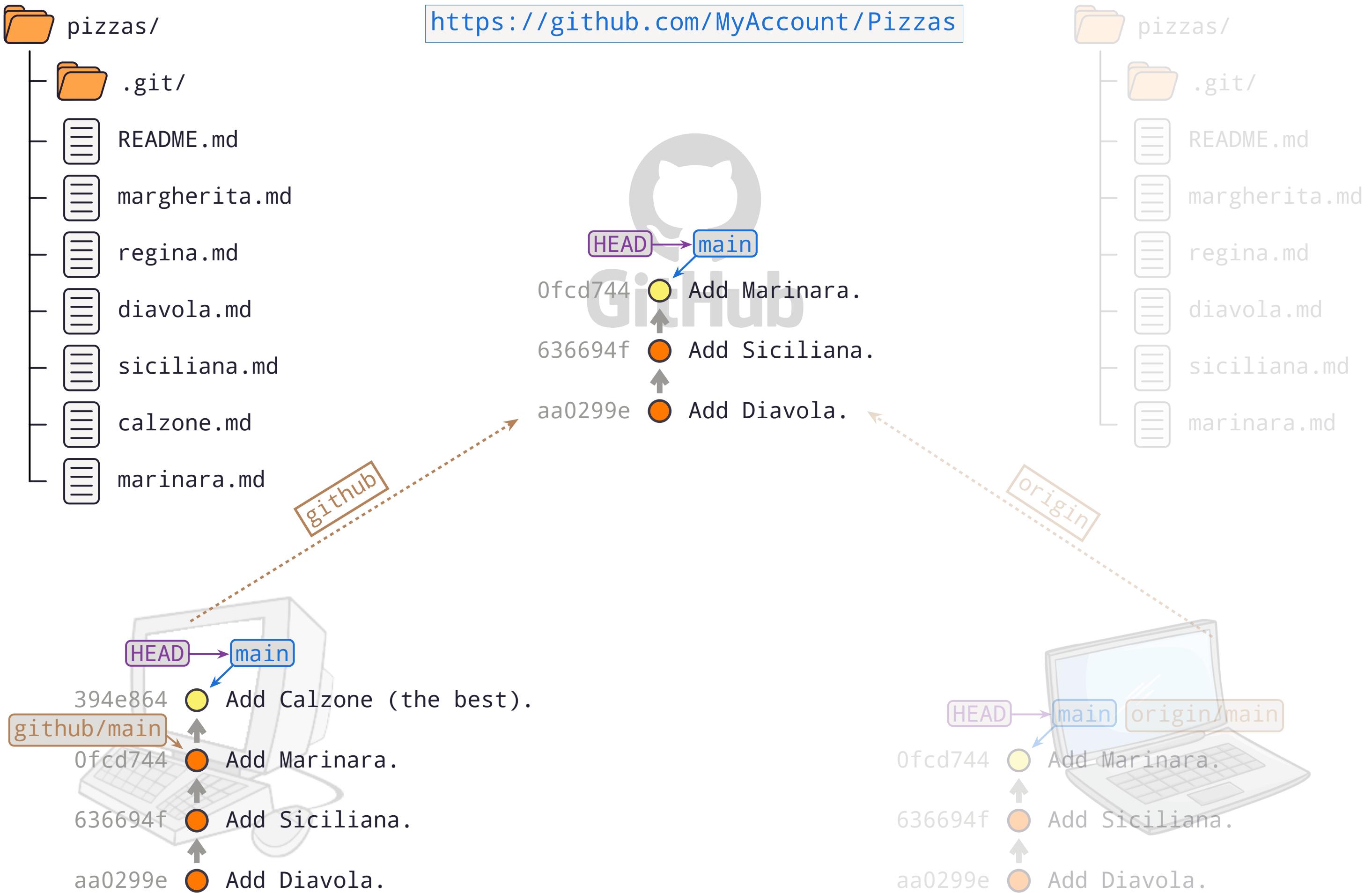
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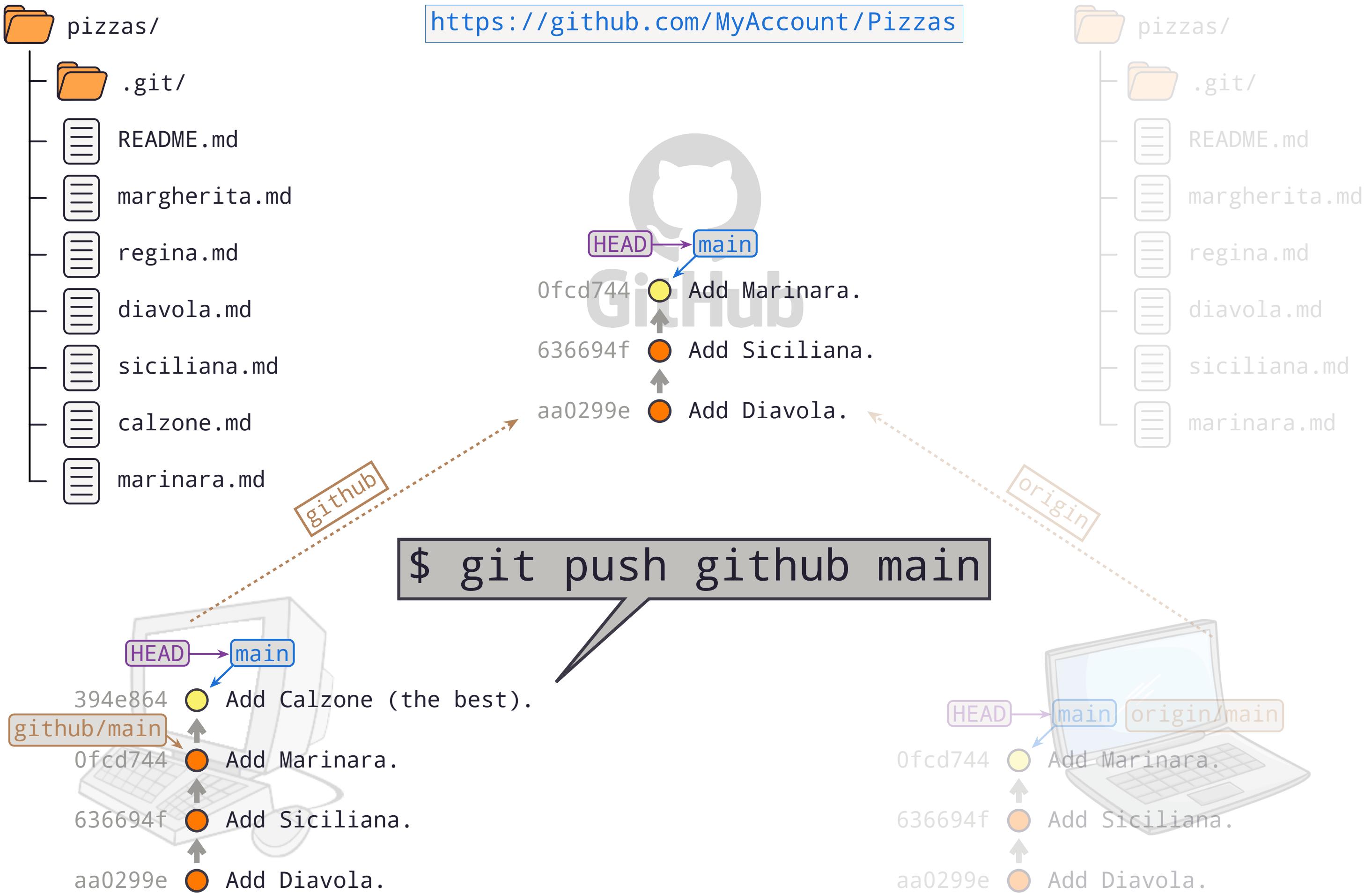
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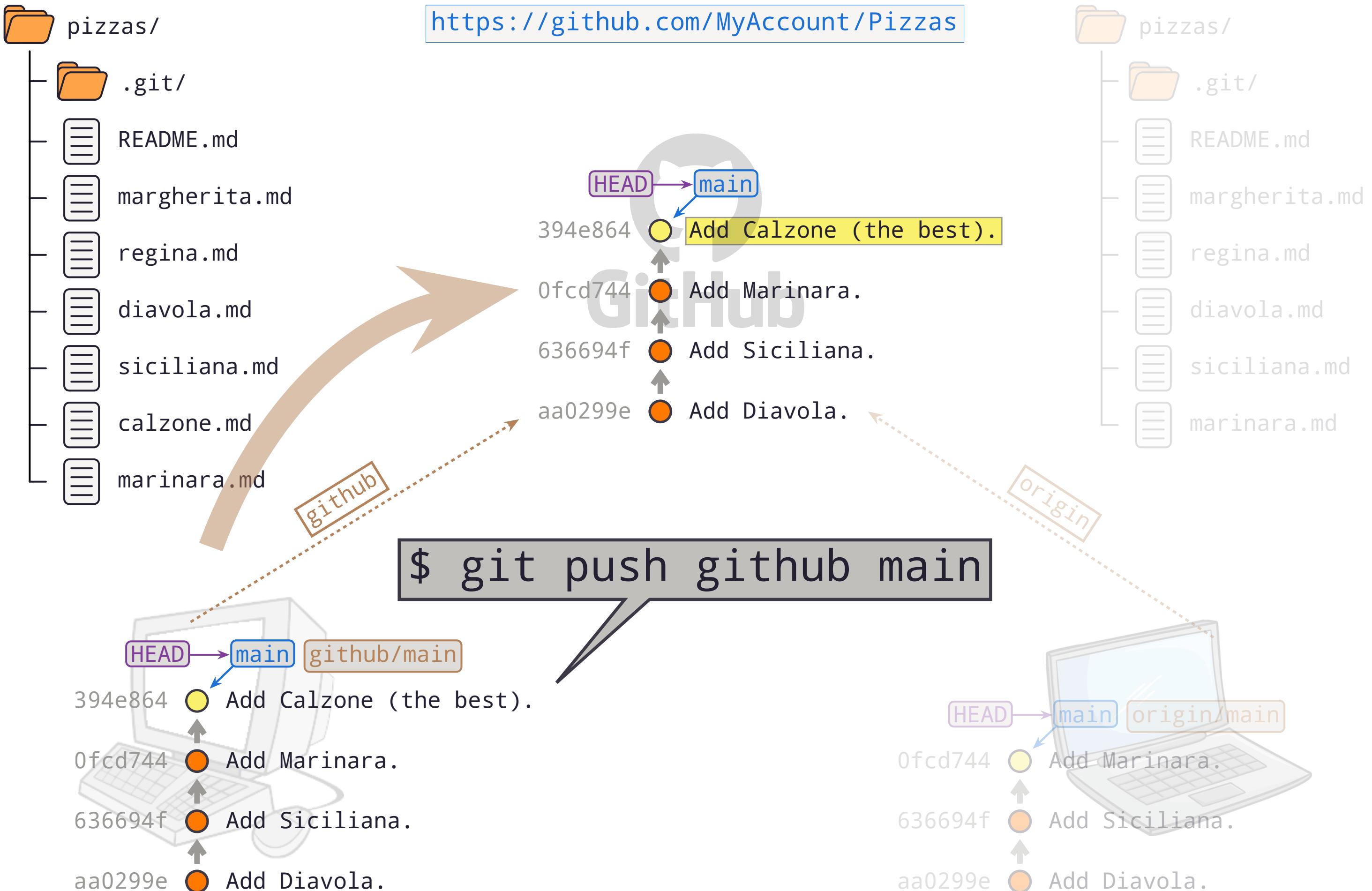
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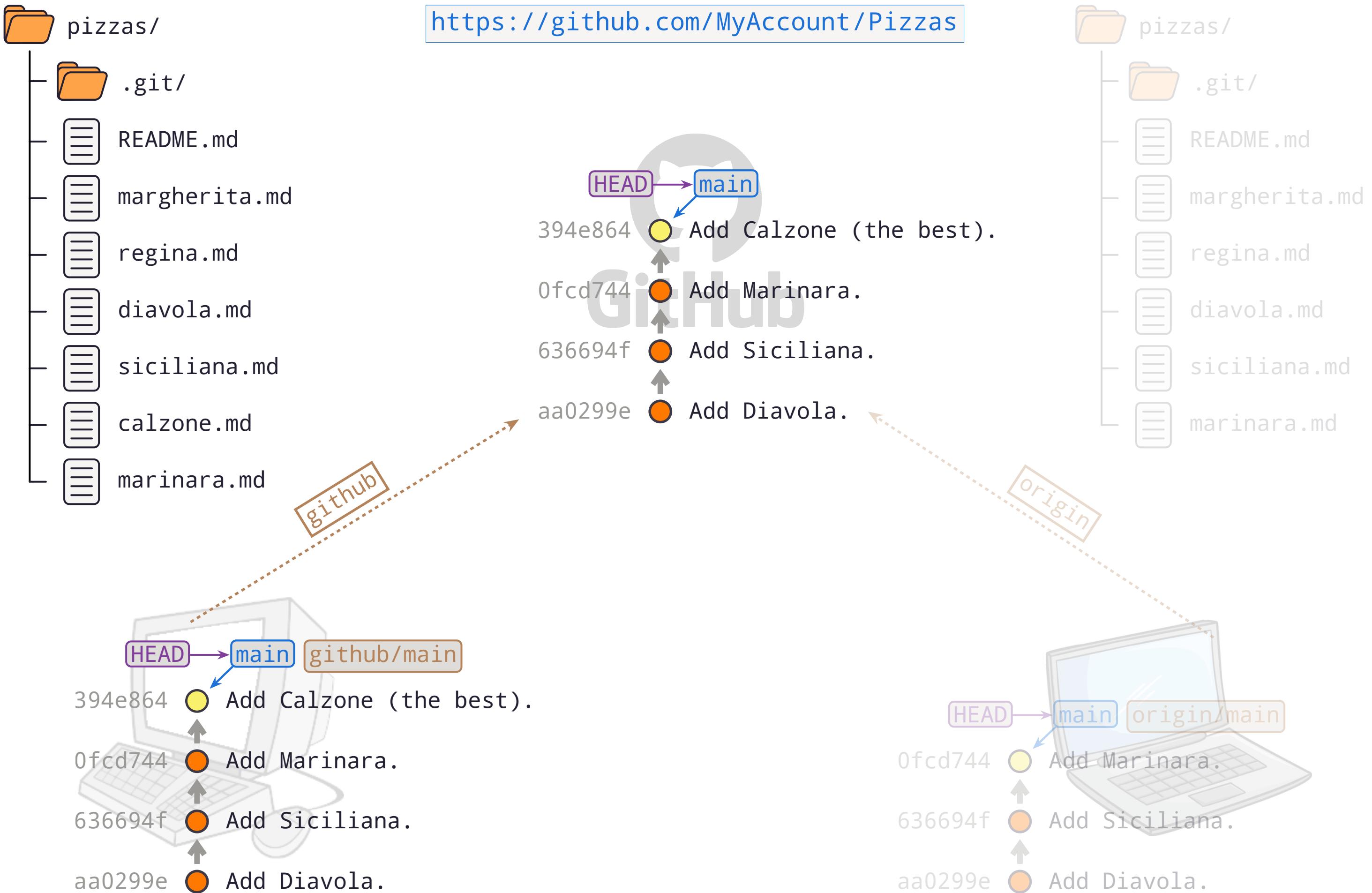
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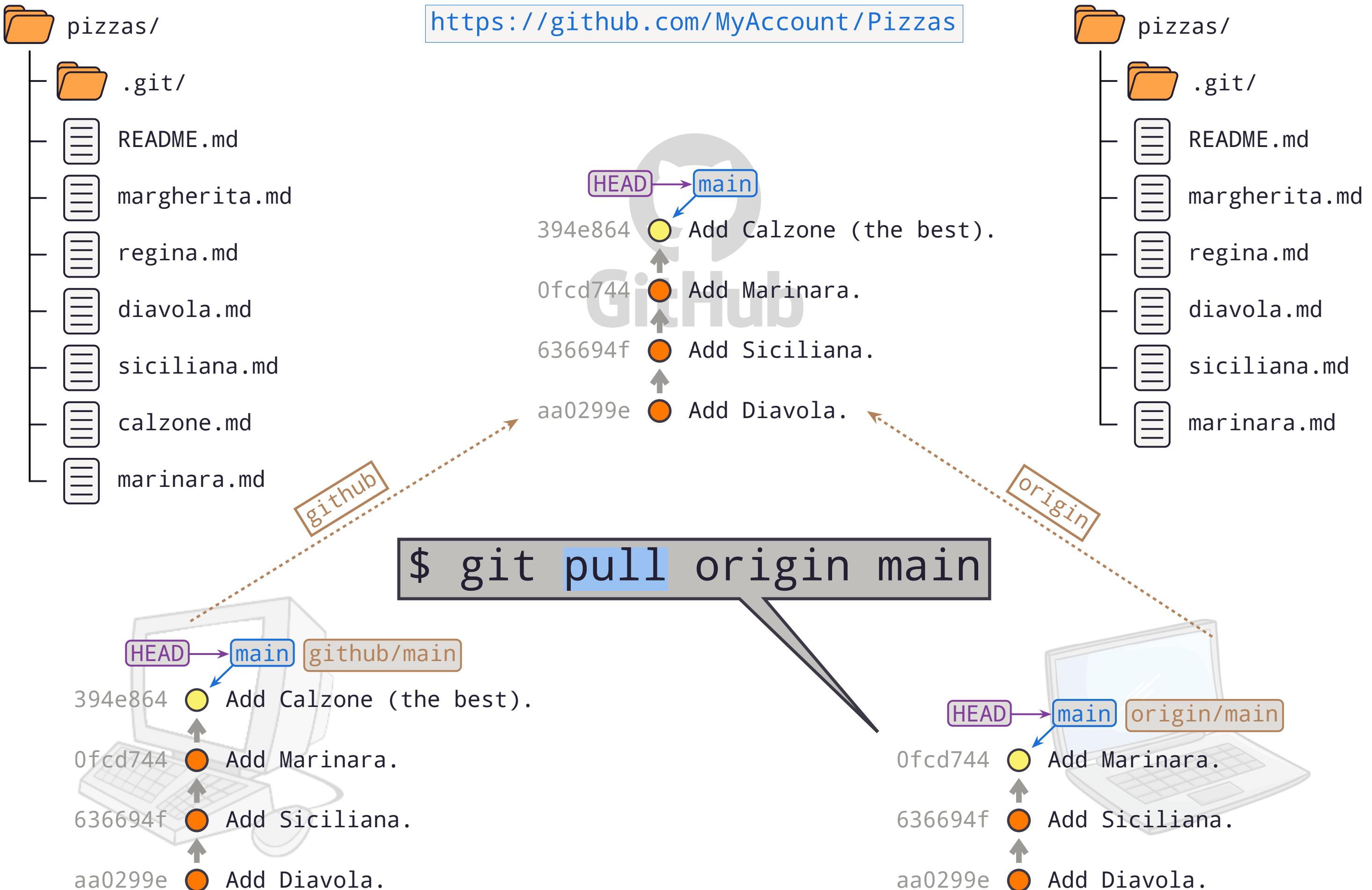
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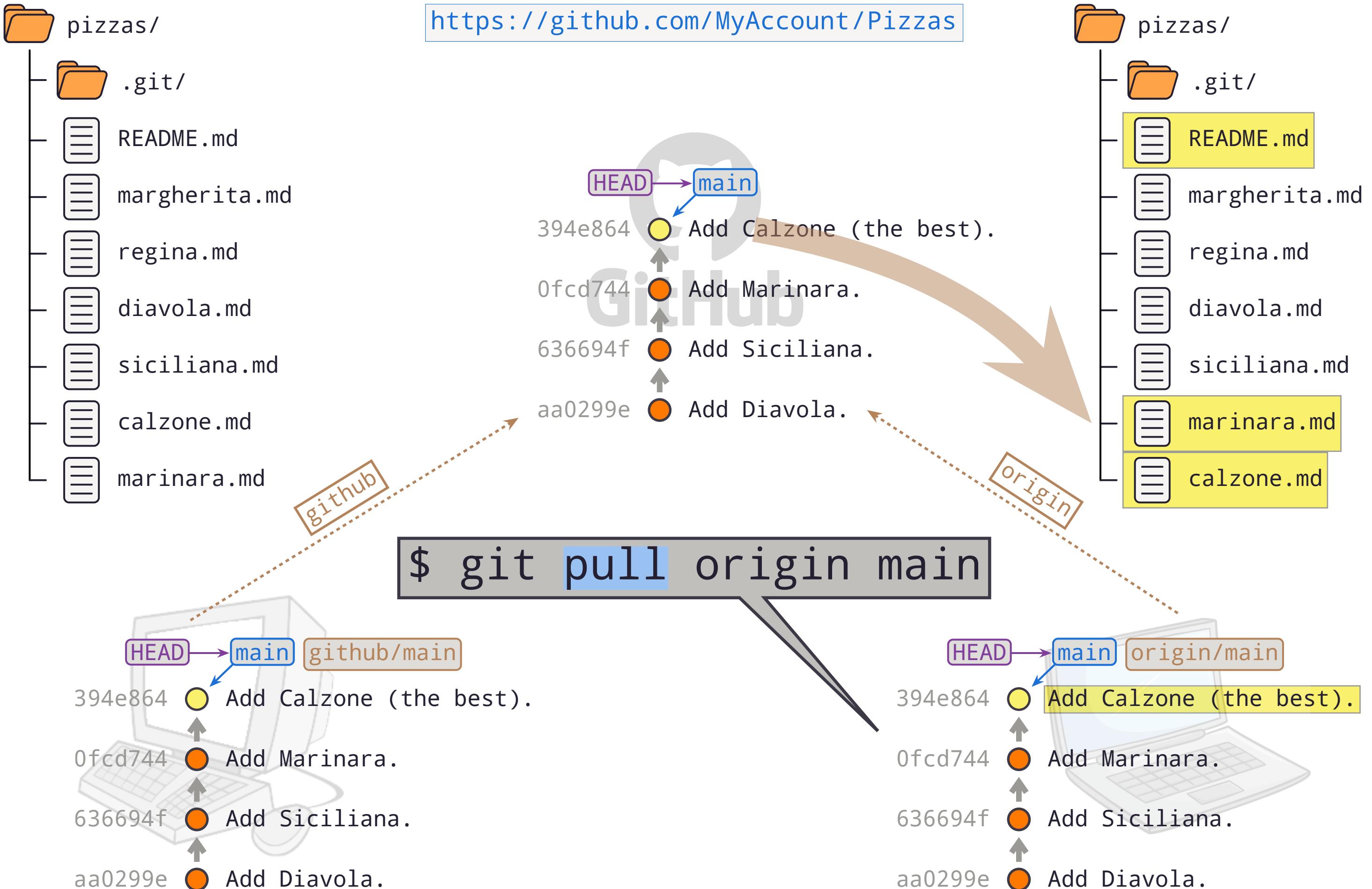
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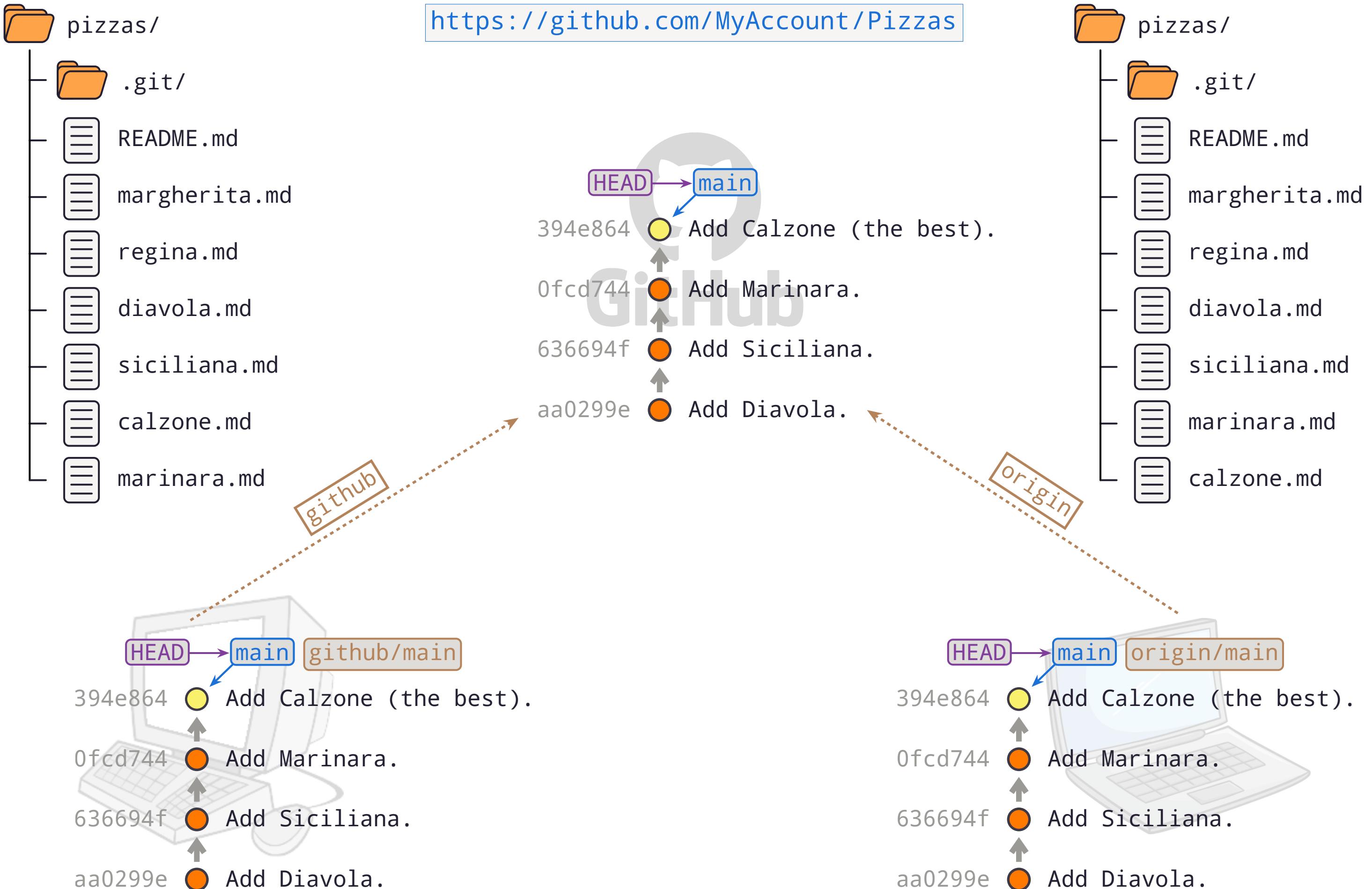
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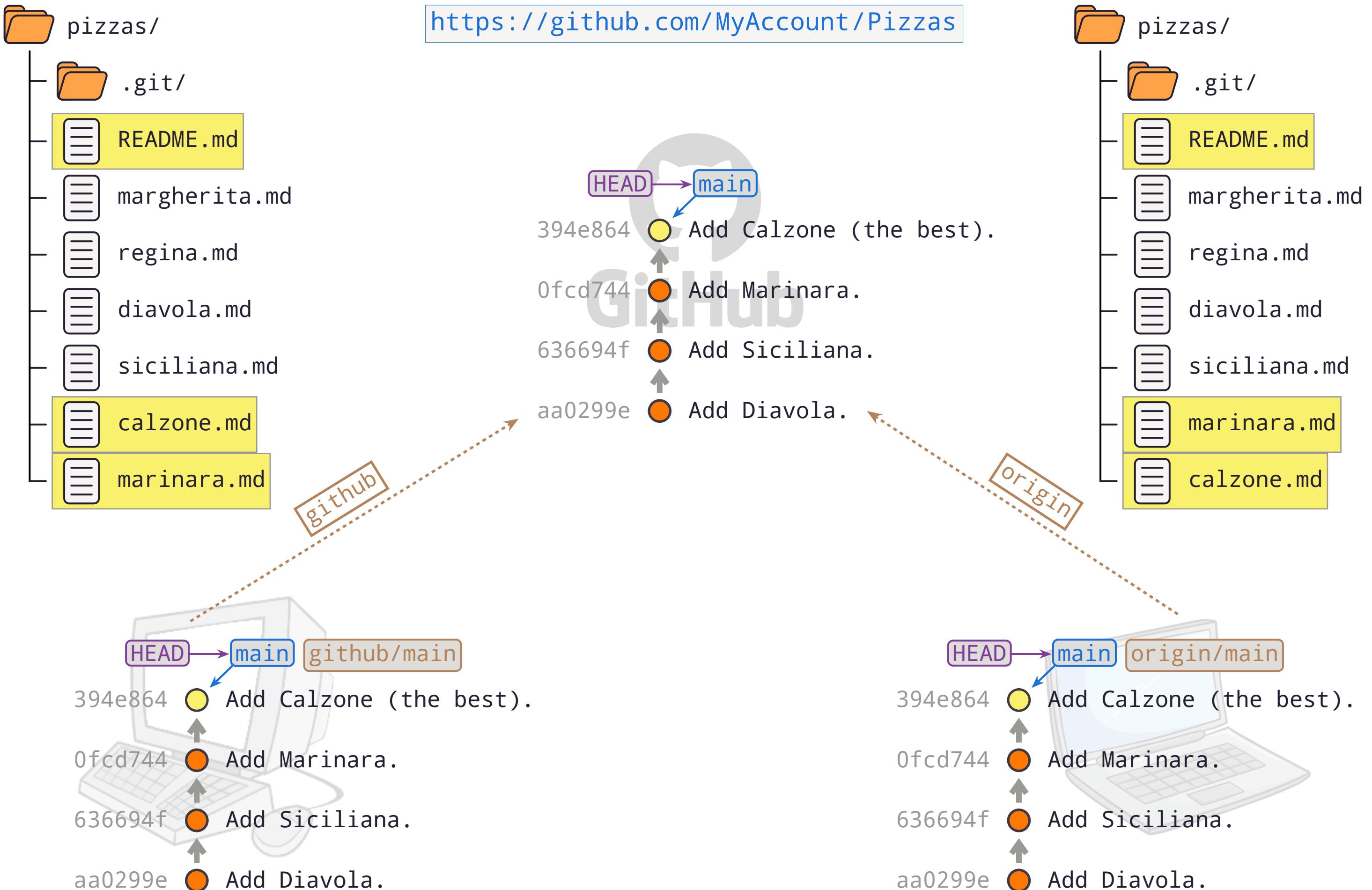
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