

Formation Git Avancée

V - Déboguer son code avec Git



Voir l'historique

```
commit 8a16f0301c192603761047146df513de21b985c2 (HEAD -> master, tag: MON_SITE_V5)
Author: Arnaud Mercier <arnaud.mercier.formation@gmail.com>
Date:   Wed Jun 13 19:05:35 2018 +0200

    ajout médaille d'or

commit bd88f16cf89d6cbc2bbd6f0776567fb915683a70 (origin/master)
Merge: 92df0e3 6d73307
Author: clone <arnaud.mercier.formation@gmail.com>
Date:   Wed Jun 13 17:47:54 2018 +0200

    merge de ma branche BRANCH A MERGE avec ma master

commit 92df0e310f1bce1023e8aecdf78d7a919dbba9
Author: Arnaud Mercier <arnaud.mercier.formation@gmail.com>
Date:   Wed Jun 13 17:04:28 2018 +0200

    ajout commande git pull

commit 6d73307cb5c9581d802816ea455c73d631eb3385 (origin/BRANCH_A_MERGE)
Author: clone <arnaud.mercier.formation@gmail.com>
Date:   Wed Jun 13 17:20:01 2018 +0200

    ajout git log

commit 5f0e4576815501bc3bce4707c5de4f45ea07a994 (BRANCH_A_MERGE)
Author: Arnaud Mercier <arnaud.mercier.formation@gmail.com>
Date:   Wed Jun 13 17:06:28 2018 +0200

    ajout git push

commit d4d4451ec7cf1186e312c341d91a0a3d0fa44665
Author: Arnaud Mercier <arnaud.mercier.formation@gmail.com>
Date:   Wed Jun 13 17:04:28 2018 +0200

    ajout commande git pull

commit e0a68a7debbe02994696bd0d04719b3e797cbe14 (tag: MON_SITE_V4)
Author: clone <arnaud.mercier.formation@gmail.com>
Date:   Wed Jun 13 16:16:56 2018 +0200

    ajout médaille argent
```

git log

```
* commit 8a16f0301c192603761047146df513de21b985c2 (HEAD -> master, tag: MON_SITE_V5)
  Author: Arnaud Mercier <arnaud.mercier.formation@gmail.com>
  Date:   Wed Jun 13 19:05:35 2018 +0200

      ajout médaille d'or

* commit bd88f16cf89d6cbc2bbd6f0776567fb915683a70 (origin/master)
  Merge: 92df0e3 6d73307
  Author: clone <arnaud.mercier.formation@gmail.com>
  Date:   Wed Jun 13 17:47:54 2018 +0200

      merge de ma branche BRANCH A MERGE avec ma master

* commit 6d73307cb5c9581d802816ea455c73d631eb3385 (origin/BRANCH_A_MERGE)
  Author: clone <arnaud.mercier.formation@gmail.com>
  Date:   Wed Jun 13 17:20:01 2018 +0200

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* commit 5f0e4576815501bc3bce4707c5de4f45ea07a994 (BRANCH_A_MERGE)
  Author: Arnaud Mercier <arnaud.mercier.formation@gmail.com>
  Date:   Wed Jun 13 17:06:28 2018 +0200

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* commit d4d4451ec7cf1186e312c341d91a0a3d0fa44665
  Author: Arnaud Mercier <arnaud.mercier.formation@gmail.com>
  Date:   Wed Jun 13 17:04:28 2018 +0200

      ajout commande git pull

* commit 92df0e310f1bce1023e8aecdf78d7a919dbba9
  Author: Arnaud Mercier <arnaud.mercier.formation@gmail.com>
  Date:   Wed Jun 13 17:04:28 2018 +0200

      ajout commande git pull

* commit e0a68a7debbe02994696bd0d04719b3e797cbe14 (tag: MON_SITE_V4)
  Author: clone <arnaud.mercier.formation@gmail.com>
  Date:   Wed Jun 13 16:16:56 2018 +0200

      ajout médaille argent
```

git log --graph

```
$ git log
$ git log --graph
```

Voir les détails d'un commit

```
$ git show 8a16f0301c192603761047146df513de21b985c2
commit 8a16f0301c192603761047146df513de21b985c2 (HEAD -> master, tag: MON_SITE_V5)
Author: Arnaud Mercier <arnaud.mercier.formation@gmail.com>
Date:   Wed Jun 13 19:05:35 2018 +0200

    ajout médaille d'or

diff --git a/hello.html b/hello.html
index 0a4d4c7..816729a 100644
--- a/hello.html
+++ b/hello.html
@@ -26,7 +26,7 @@
         <!-- recompense -->
         <div>
             <h1> Mes récompenses </h1>
-            <p>   </p>
+            <p>   </p>
         </div>

     <!-- mon gist -->
```

git show

```
$ git show <sha1 / ref>
```

Voir l'historique en détail

```
$ git show 8a16f0301c192603761047146df513de21b985c2
commit 8a16f0301c192603761047146df513de21b985c2 (HEAD -> master, tag: MON_SITE_V5)
Author: Arnaud Mercier <arnaud.mercier.formation@gmail.com>
Date:   Wed Jun 13 19:05:35 2018 +0200

    ajout médaille d'or

diff --git a/hello.html b/hello.html
index 0a4d4c7..816729a 100644
--- a/hello.html
+++ b/hello.html
@@ -26,7 +26,7 @@
         <!-- recompense -->
         <div>
             <h1> Mes récompenses </h1>
-            <p>   </p>
+            <p>   </p>
         </div>

         <!-- mon gist -->
```

git log -p -1

\$ git log -p -<N>

Voir les évolutions du code

```
$ git diff 92df0e310f1bce1023e8aecdf7e78d7a919dbba9 af6361b380074f135c6b5e2e0baed1fe96885a0b
diff --git a/.gitignore b/.gitignore
index cdf8a87..ae7e9eb 100644
--- a/.gitignore
+++ b/.gitignore
@@ -1,2 +1,4 @@
+tmp/todo.txt
+tmp/*
+*.xml
+*.txt
diff --git a/hello.html b/hello.html
index e733468..ed7a15d 100644
--- a/hello.html
+++ b/hello.html
@@ -26,7 +26,7 @@
<!-- recompense -->
<div>
  <h1> Mes récompenses </h1>
  <p>   </p>
+  <p>  </p>
</div>

<!-- mon gist -->
@@ -35,12 +35,6 @@
  <p> <script src="https://gist.github.com/amgitformation/6fffb2f05ea6ad2a58ef129a15541c978.js"></script> </p>
</div>

  <!-- commandes git -->
  <div>
    <h1> Mes commandes git </h1>
    <p> git pull </p>
  </div>

</body>
</html>
```

diff entre deux commits

```
$ git diff <sha1 / ref>
$ git diff <sha1 / ref> <sha1 / ref>
$ git diff HEAD^
$ git diff HEAD~<n>
```

Qui a fait quoi?

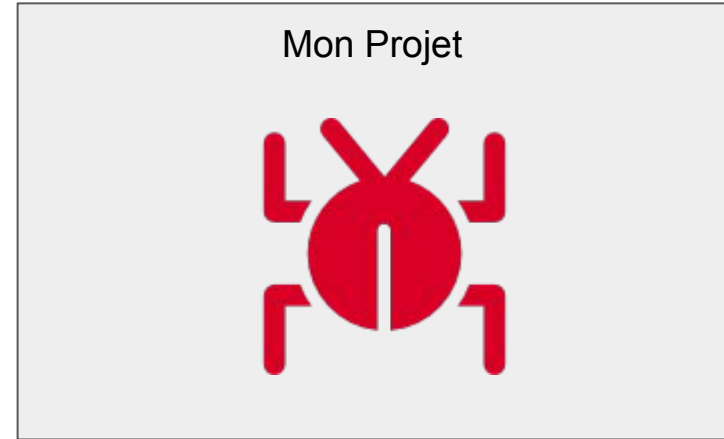
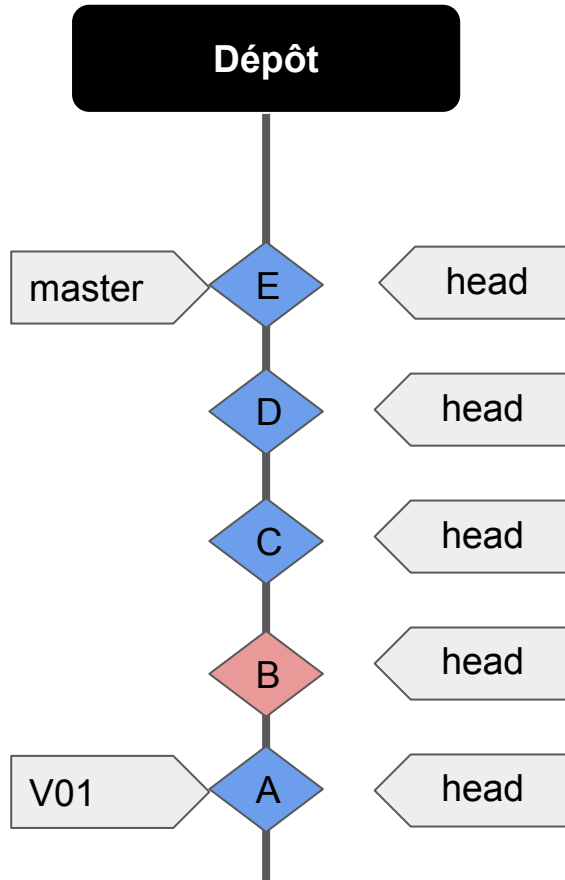
```
$ git blame -L 3,7 index.html
```

```
b1aa30ad (A.mercier 2018-06-26 15:34:29 +0200 3)      <div>
b1aa30ad (A.mercier 2018-06-26 15:34:29 +0200 4)      <a href="index.html">
4adb40f7 (John Snow 2019-02-11 10:56:34 +0100 5)      Home
b1aa30ad (A.mercier 2018-06-26 15:34:29 +0200 6)      </a>
b1aa30ad (A.mercier 2018-06-26 15:34:29 +0200 7)      </div>
```

sha1	author	timestamp	line number	line content
------	--------	-----------	-------------	--------------

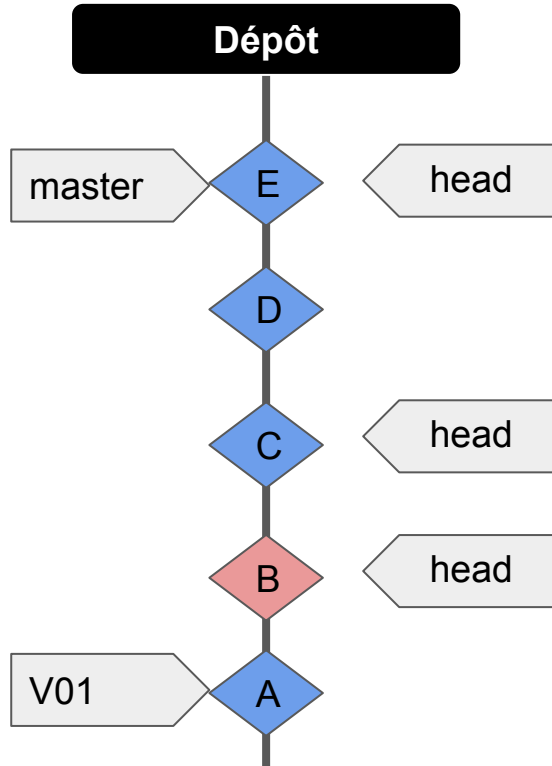
```
$ git blame -L [line_start],[line_stop] [file_name]
```

A la recherche du bug perdu

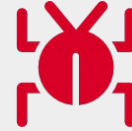


```
$ git checkout <sha1>
```

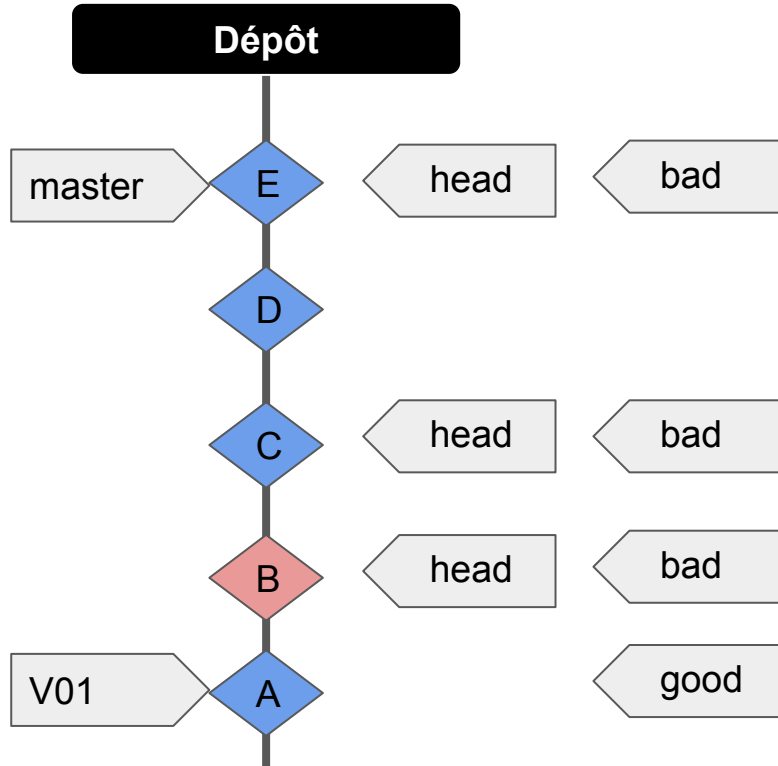
Dichotomie: à la main



Mon Projet



Dichotomie: git bisect



Mon Projet



1

\$ git bisect start

\$ git bisect good [ref]

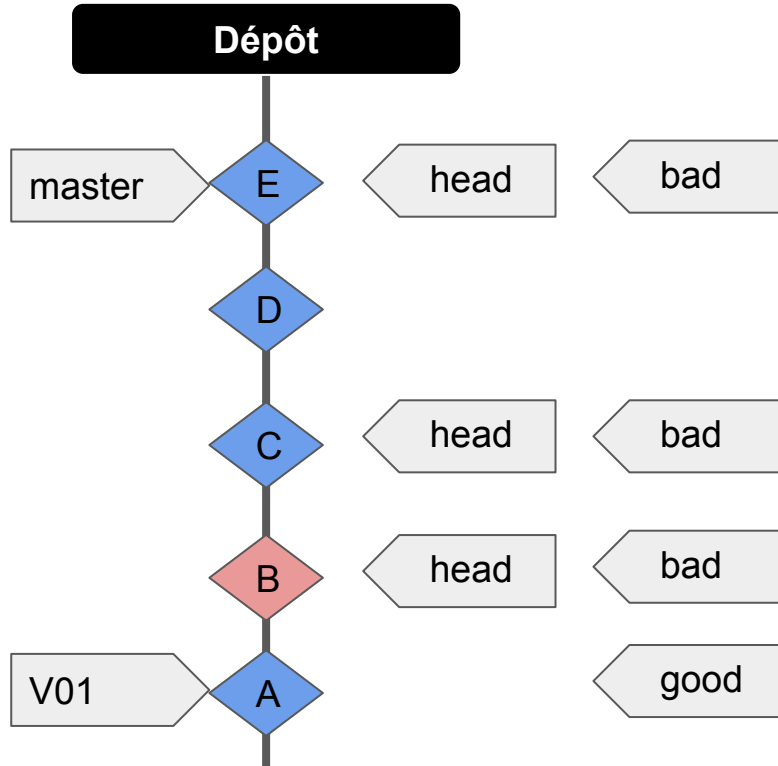
2

\$ git bisect bad [ref]

3

\$ git bisect reset

Dichotomie: git bisect et script



Mon Projet



1

```
$ git bisect start
```

2

```
$ git bisect good [ref]
```

```
$ git bisect bad [ref]
```

3

```
$ git bisect run [script]
```



le script doit retourner 0 pour good et autre chose pour bad