Gitta

1.环境变量

a.传代码路径

切换到需要使用 gitta 的路径下,使用 java -cp /Users/caocan/gitlet_java18 gitta.Main init 之类的交互命令可以实现。

```
1 → testgitta git:(master) X java -cp /Users/caocan/gitlet_java18 gitta.Main init
2 # 在testgitta路径下,给出gitta.Main的路径,进行init
```

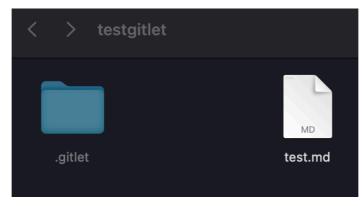
b.设置环境变量里的classpath

实现

1.add commit实现

```
→ testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main
    # 在testgitlet路径下,给出gitlet.Main的路径,进行init
3
    → .gitlet git:(master) X tree .
4
    ---- blobs
5
    --- commits
6
     └── cdccbf046899c4afd416edfa29c4e7a18e2d3f08 #init的初始化commit, 无法打开
8
    ├── head #内容: master
9
       — refs
     └── stage
10
```

在testgitlet路径下,新建 test.md



```
→ testgitlet git:(master) x vim test.md

→ testgitlet git:(master) x cd .gitlet

→ .gitlet git:(master) x tree .#新建文件: test.md .gitlet无变化

↓ .

blobs

commits
```

```
7 | ____ cdccbf046899c4afd416edfa29c4e7a18e2d3f08
     ├── head #里面内容: master
 └── stage
10
11
12
     3 directories, 3 files
13
     #通过status可以看见Untracked Files里面已经出现了test.md
14
15
     → testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main
     status
     === Branches ===
16
17
     *master
18
19
     === Staged Files ===
20
21
     === Removed Files ===
22
23
     === Modifications Not Staged For Commit ===
24
25
     === Untracked Files ===
26
     .DS_Store
27
     test.md
28
29
   #add test.md之后,出现了index和stage内文件
     → testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main add
30
     test.md
     → testgitlet git:(master) X cd .gitlet
31
32
     -----
33
     → .gitlet git:(master) X tree .
34
35 |---- blobs
36
         — commits
         ____ cdccbf046899c4afd416edfa29c4e7a18e2d3f08
37
38
     --- head
     index
39
     ├── refs
40
41
         - stage
        b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
42
43
44
     3 directories, 5 files
45
46
     #commit 之后
     → testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main
47
     commit "cmt test.md"
     → testgitlet git:(master) X cd .gitlet
48
49
50
     → .gitlet git:(master) X tree .
51
52
         — blobs
    | b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34 #commit后生成的blob
53
54
         - commits
             — c322f9caeefdb6543659893c73cbc46941f04a39 #新的commit
55
```

```
56 | ____ cdccbf046899c4afd416edfa29c4e7a18e2d3f08

57 |--- head

58 |--- index

59 |--- refs

60 | ___ stage

61 | ___ b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34

62

63 | 3 directories, 7 files
```

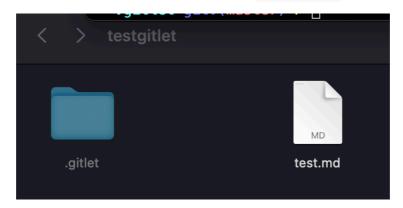
2.分支

可以新建一个分支 dev ,在上面新建文本文件 testdev.md ,然后切回master分支,编辑 test.md 文件,然后在master分支上尝试 merge .

```
→ testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main
     branch dev
    → .gitlet git:(master) X tree .
3
 4
    --- blobs
     b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
 5
 6
        commits
 7
         --- c322f9caeefdb6543659893c73cbc46941f04a39
         ____ cdccbf046899c4afd416edfa29c4e7a18e2d3f08
8
9
     ├── head #未发生变化
10
        - index
     --- refs
11
     └── stage
12
         b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
13
14
15
     3 directories, 7 files
16
    → testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main
17
     checkout dev
     → .gitlet git:(master) X tree .
18
19
20
     ---- blobs
     b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
21
     --- commits
         --- c322f9caeefdb6543659893c73cbc46941f04a39
23
         ____ cdccbf046899c4afd416edfa29c4e7a18e2d3f08
24
25
     ├── head #head中内容从master变为了dev
     index
26
     ├── refs
27
     └── stage
28
        b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
29
30
31
    3 directories, 7 files
32
33
    #使用status查看分支情况,可见 *dev
```

```
34 → testgitlet git:(master) / java -cp /Users/caocan/gitlet_java18 gitlet.Main
     status
35
    === Branches ===
     *dev
36
37
     master
38
39
     === Staged Files ===
40
41
    === Removed Files ===
42
43
     === Modifications Not Staged For Commit ===
44
45
    === Untracked Files ===
    .DS_Store
46
47
     ## 在dev分支上新建 testdev.md文件
48
49
     → testgitlet git:(master) x vim testdev.md
     → testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main add
50
    testdev.md
51
     → .gitlet git:(master) X tree .
52
   ├── blobs
53
     b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
54
55
         - commits
          ---- c322f9caeefdb6543659893c73cbc46941f04a39
56
          cdccbf046899c4afd416edfa29c4e7a18e2d3f08
57
     ├── head
58
     index
59
     --- refs
60
         — stage
61
        ├── 2caf63aabaf79a1e96a7298c1c2800b635e9fa44 ##暂存区新add的文件
62
         b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
63
64
65
     3 directories, 8 files
     ## commit后blobs多了一个, commits里也多了一个
66
```

切换回master分支,head文件中从dev变为master,工作区中 testdev.md 消失



```
# 在master分支上修改test.md内容

testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main status

status

status
```

```
4 dev
 5
     *master
 6
 7
     === Staged Files ===
 8
 9
     === Removed Files ===
10
    === Modifications Not Staged For Commit ===
11
12
    test.md (modified)
13
14
     === Untracked Files ===
15
     .DS_Store
16
17
     ## add之后stage里多了一个,并且index内容发生改变
     → .gitlet git:(master) X tree .
18
19
     --- blobs
20
          ---- 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
21
             b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
22
23
         — commits
24
       896e6b6f1dbd96ab82f4c908ee56725d7607a0e0
              - c322f9caeefdb6543659893c73cbc46941f04a39
25
     cdccbf046899c4afd416edfa29c4e7a18e2d3f08
26
        — head
27
28
     index
29
     ├── refs
     └── stage
30
        ---- 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
31
             - 795202e85110e919537d33c4404035e35e1f7b73
32
        b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
33
34
35
     3 directories, 11 files
36
37
     ## commit后commits多了一个, blobs多了一个, 文件refs发生改变
     → testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main
38
     commit "modify testmd"
39
     → testgitlet git:(master) X cd .gitlet
     → .gitlet git:(master) X tree .
40
41
42
     --- blobs
          2caf63aabaf79a1e96a7298c1c2800b635e9fa44
43
             - 795202e85110e919537d33c4404035e35e1f7b73
44
          45
        — commits
46
         896e6b6f1dbd96ab82f4c908ee56725d7607a0e0
47
48
             ab28664ecbcf5121790f4153cc4cf37ef20f1aad
49
             - c322f9caeefdb6543659893c73cbc46941f04a39
         ____ cdccbf046899c4afd416edfa29c4e7a18e2d3f08
50
51
     --- head
52
         - index
53
         - refs
         – stage
54
```

```
---- 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
56
            - 795202e85110e919537d33c4404035e35e1f7b73
         b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
57
58
59
     3 directories, 13 files
60
     #在master分支上merge dev分支,工作区出现dev分支上的testdev.md文件, refs文件发生改变,新出现
61
62
     → testgitlet git:(master) x java -cp /Users/caocan/gitlet_java18 gitlet.Main
     → .gitlet git:(master) X tree .
63
64
     ---- blobs
65
         ---- 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
66
              - 795202e85110e919537d33c4404035e35e1f7b73
67
          b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
68
69
     --- commits
          ├── 568453c9a1a3195153de951fd50bf72630aa3c26 ## 代表merge的commits
70
             - 896e6b6f1dbd96ab82f4c908ee56725d7607a0e0
71
72
             ab28664ecbcf5121790f4153cc4cf37ef20f1aad
73
              - c322f9caeefdb6543659893c73cbc46941f04a39
          ____ cdccbf046899c4afd416edfa29c4e7a18e2d3f08
74
     head
75
76
         - index
         一 refs ##merge分支导致refs文件发生改变
77
78
     ___ stage
79
        ---- 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
             - 795202e85110e919537d33c4404035e35e1f7b73
80
           — b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
81
82
83
     3 directories, 14 files
```

在不同分支上修改同一个文件然后merge

55

在master分支上修改testdev.md,在dev分支上也修改,回到master分支上merge

```
#在master分支上修改testdev.md并add和commit, refs和commits改变
    → .gitlet git:(master) X tree .
2
3
4
   --- blobs
5
         ---- 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
              - 795202e85110e919537d33c4404035e35e1f7b73
6
7
             b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
          f4454efa1a4f84a93912d239dbdbb11eb9d5184b #新的blobs
8
9
        — commits
10
          568453c9a1a3195153de951fd50bf72630aa3c26
              - 896e6b6f1dbd96ab82f4c908ee56725d7607a0e0
11
             - ab28664ecbcf5121790f4153cc4cf37ef20f1aad
12
             - c322f9caeefdb6543659893c73cbc46941f04a39
13
14
             - cdccbf046899c4afd416edfa29c4e7a18e2d3f08
15
             — ec7f44e6724cd816d74656dfbb7c3e18f5f84376 #新commits
16
         head
```

```
17 — index
18
          - refs
19
         stage
          ---- 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
20
21
              - 795202e85110e919537d33c4404035e35e1f7b73
22
              b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
             — f4454efa1a4f84a93912d239dbdbb11eb9d5184b <mark>#新stage</mark>
23
24
25
     3 directories, 17 files
26
     _____
     # 切换到dev分支上修改testdev.md文件 add、commit后
28
     → .gitlet git:(master) x tree .
29
         - blobs
30
           ---- 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
31
              - 795202e85110e919537d33c4404035e35e1f7b73
32
33
              954c45f719e0d75dcdc04a12fa386e957d7c2441 #新blobs
               - b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
34
              - f4454efa1a4f84a93912d239dbdbb11eb9d5184b
35
          - commits
36
37
           568453c9a1a3195153de951fd50bf72630aa3c26
               - 896e6b6f1dbd96ab82f4c908ee56725d7607a0e0
38
              ab28664ecbcf5121790f4153cc4cf37ef20f1aad
39
              - c322f9caeefdb6543659893c73cbc46941f04a39
40
              - cdccbf046899c4afd416edfa29c4e7a18e2d3f08
41
              - e6dbf1d37240d97499e954557308c9a49de96ea2 #新commits
42
              — ec7f44e6724cd816d74656dfbb7c3e18f5f84376
43
44
          head
45
          index
          - refs
46
47
          stage
48
          ---- 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
49
              - 795202e85110e919537d33c4404035e35e1f7b73
50
              — 954c45f719e0d75dcdc04a12fa386e957d7c2441 #新stage
51
              b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
              - f4454efa1a4f84a93912d239dbdbb11eb9d5184b
52
53
54
     3 directories, 20 files
```

在 dev 分支上打开 testdev.md 文件

```
here is branch dev on testdevmd modify on branch dev
```

```
#回到master分支上merge,显示Encoutered a merge conflict

testgitlet git:(master) x java -cp /Users/caocan/gitlet_java18 gitlet.Main status

=== Branches ===

dev

*master
```

```
6
 7
     === Staged Files ===
 8
 9
     === Removed Files ===
10
     === Modifications Not Staged For Commit ===
11
12
     === Untracked Files ===
13
14
     .DS_Store
     → testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main
15
     merge dev
     Encountered a merge conflict.%
16
17
     → .gitlet git:(master) X tree .
18
19
20
          - blobs
21
           ---- 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
               — 5847e41a020f6748a9203a812e8385e6ca628308 ## <mark>新blobs</mark>
22
              - 795202e85110e919537d33c4404035e35e1f7b73
23
24
              — 954c45f719e0d75dcdc04a12fa386e957d7c2441
25
               b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
             — f4454efa1a4f84a93912d239dbdbb11eb9d5184b
26
27
          - commits
              — 568453c9a1a3195153de951fd50bf72630aa3c26
28
29
               - 896e6b6f1dbd96ab82f4c908ee56725d7607a0e0
              - ab28664ecbcf5121790f4153cc4cf37ef20f1aad
30
              - c322f9caeefdb6543659893c73cbc46941f04a39
31
32
               - c4d65a4ed16776fdf25fde6b1cc39914a8c980d0 ##新commits
               - cdccbf046899c4afd416edfa29c4e7a18e2d3f08
33
               - e6dbf1d37240d97499e954557308c9a49de96ea2
34
           ec7f44e6724cd816d74656dfbb7c3e18f5f84376
35
36
         — head
          index
37
38
      --- refs
39
          – stage
          ---- 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
40
              — 5847e41a020f6748a9203a812e8385e6ca628308 ##新stage
41
              - 795202e85110e919537d33c4404035e35e1f7b73
42
43
             — 954c45f719e0d75dcdc04a12fa386e957d7c2441
44
              b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
          f4454efa1a4f84a93912d239dbdbb11eb9d5184b
45
46
47
     3 directories, 23 files
```



会显示冲突文本, 如上图所示, 可以自行进行修改



这是ec7f的版本



这是e6db的版本

3.reset

```
→ testgitlet git:(master) / java -cp /Users/caocan/gitlet_java18 gitlet.Main
     status
     === Branches ===
 2
 3
     dev
 4
     *master
 5
     === Staged Files ===
 6
 7
 8
     === Removed Files ===
 9
10
     === Modifications Not Staged For Commit ===
11
     === Untracked Files ===
12
13
     .DS_Store
     → testgitlet git:(master) / vim test.md #修改test.md后add和commit
14
15
     → .gitlet git:(master) X tree .
16
17
18
      --- blobs
          ---- 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
19
20
              - 5847e41a020f6748a9203a812e8385e6ca628308
              - 795202e85110e919537d33c4404035e35e1f7b73
21
22
              — 954c45f719e0d75dcdc04a12fa386e957d7c2441
23
              b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
              - c7e47bb07f83502dc9ad8d64703ca2c67cb28b36 ##新blobs
24
              - f4454efa1a4f84a93912d239dbdbb11eb9d5184b
25
          - commits
26
          568453c9a1a3195153de951fd50bf72630aa3c26
27
              - 896e6b6f1dbd96ab82f4c908ee56725d7607a0e0
28
              ab28664ecbcf5121790f4153cc4cf37ef20f1aad
29
              - c322f9caeefdb6543659893c73cbc46941f04a39
30
              — c4d65a4ed16776fdf25fde6b1cc39914a8c980d0
31
               - cdccbf046899c4afd416edfa29c4e7a18e2d3f08
32
```

```
33
          e6dbf1d37240d97499e954557308c9a49de96ea2
34
              - ec7f44e6724cd816d74656dfbb7c3e18f5f84376
35
             — edd0cc779f1c3347da79110e249322a95b80d3df ##新commits
36
         — head
37
         - index
38
      --- refs
39
         — stage
         ---- 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
40
41
             - 5847e41a020f6748a9203a812e8385e6ca628308
42
             — 795202e85110e919537d33c4404035e35e1f7b73
43
             954c45f719e0d75dcdc04a12fa386e957d7c2441
44
             b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
45
            — c7e47bb07f83502dc9ad8d64703ca2c67cb28b36 ##新stage
             — f4454efa1a4f84a93912d239dbdbb11eb9d5184b
46
47
     3 directories, 26 files
48
49
     ____
     # 再次修改test.md文件, add并commit
50
     # 有新的commits: 79812a47f28d6d5f95b22a28dcc57d3ee67fe1dc
51
52
     # 新的stage和blobs: 1efba49e6da071c378ed6d9b77ca750e14073744
53
     #在7981上修改test.md再add, 有新的stage和blobs:
54
     c6c291a222d920649914e3d37bc941a9357d2192
     #在7981上修改,不add,除了工作区不发生改变
55
```

尝试reset

```
→ testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main
     reset edd0
     → testgitlet git:(master) x java -cp /Users/caocan/gitlet_java18 gitlet.Main
     status
3
     === Branches ===
4
     dev
5
     *master
6
7
     === Staged Files ===
8
9
     === Removed Files ===
10
     === Modifications Not Staged For Commit ===
11
12
13
     === Untracked Files ===
     .DS_Store
14
15
     #所有的工作区和暂存区都回到了edd0的状态,属于reset --hard模式
16
```



```
reset --hard
```

4.rm

在7981上新建文件 rmtest.md, 未add时使用 rm rmtest.md 显示 No reason to remove the file add rmtest.md 后, stage和index多了一个,但 rm rmtest.md 后, stage和index少了增加的这一个。

查看 status 发现 rmtest.md 又回到了 Untracked Files 里

```
→ testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main rm
     rmtest.md
     No reason to remove the file%
     → testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main add
     rmtest.md
     → testgitlet git:(master) x java -cp /Users/caocan/gitlet_java18 gitlet.Main rm
     → testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main
     status
 6
     === Branches ===
 7
     dev
 8
     *master
9
10
     === Staged Files ===
11
12
     === Removed Files ===
13
     === Modifications Not Staged For Commit ===
14
     test.md (modified)
15
16
17
     === Untracked Files ===
18
     .DS_Store
19
     rmtest.md
```

重新 add 和 commit rmtest.md 文件

```
→ .gitlet git:(master) X tree .
1
2
     --- blobs
3
4
              - 1efba49e6da071c378ed6d9b77ca750e14073744
5
              - 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
              — 580e8b8e094398f93a159a5a497bcfb1ab8f5dc3 ##新blobs-rmtest.md
6
7
              - 5847e41a020f6748a9203a812e8385e6ca628308
          795202e85110e919537d33c4404035e35e1f7b73
8
9
             — 954c45f719e0d75dcdc04a12fa386e957d7c2441
10
              - b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
              - c7e47bb07f83502dc9ad8d64703ca2c67cb28b36
11
12
              — f4454efa1a4f84a93912d239dbdbb11eb9d5184b
13
         - commits
```

```
14
          ---- 29a19c06ea971505776447ad1de719b114e95575 ##新commits-rmtest.md
15
              - 568453c9a1a3195153de951fd50bf72630aa3c26
              - 79812a47f28d6d5f95b22a28dcc57d3ee67fe1dc
16
              - 896e6b6f1dbd96ab82f4c908ee56725d7607a0e0
17
18
              ab28664ecbcf5121790f4153cc4cf37ef20f1aad
19
              - c322f9caeefdb6543659893c73cbc46941f04a39
20
              - c4d65a4ed16776fdf25fde6b1cc39914a8c980d0
              - cdccbf046899c4afd416edfa29c4e7a18e2d3f08
21
22
              — e6dbf1d37240d97499e954557308c9a49de96ea2
23
              - ec7f44e6724cd816d74656dfbb7c3e18f5f84376
          edd0cc779f1c3347da79110e249322a95b80d3df
24
25
         head
          - index
26
27
          - refs
28
         stage
          lefba49e6da071c378ed6d9b77ca750e14073744
29
30
             — 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
             — 580e8b8e094398f93a159a5a497bcfb1ab8f5dc3 ##新blobs-rmtest.md
31
              - 5847e41a020f6748a9203a812e8385e6ca628308
32
33
             — 795202e85110e919537d33c4404035e35e1f7b73
34
             - 954c45f719e0d75dcdc04a12fa386e957d7c2441
             - b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
35
             — c6c291a222d920649914e3d37bc941a9357d2192
36
              - c7e47bb07f83502dc9ad8d64703ca2c67cb28b36
37
          f4454efa1a4f84a93912d239dbdbb11eb9d5184b
38
39
40
     3 directories, 33 files
```

rm rmtest.md 后,文件删除,但仍然在29a1结点上, .gitlet 内未改变

```
→ testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main
     status
2
     === Branches ===
3
     dev
4
     *master
5
6
     === Staged Files ===
7
    === Removed Files ===
8
9
     rmtest.md ## rm后的文件出现在 Removed Files中
10
     === Modifications Not Staged For Commit ===
11
12
     test.md (modified)
13
14
     === Untracked Files ===
15
     .DS_Store
```

```
1 === Branches ===
2
    dev
3
    *master
4
5
    === Staged Files ===
6
7
    === Removed Files ===
8
9
    === Modifications Not Staged For Commit ===
10
11 === Untracked Files ===
    .DS_Store
12
```

5.log

```
## log命令-当前分支的commit-log
   → testgitlet git:(master) / java -cp /Users/caocan/gitlet_java18 gitlet.Main
    log
    ===
 3
 4 commit 29a1
   Date: Thu Jan 07 01:19:55 2021 +0800
   rmtest on 7981
 6
 7
 8
     ===
 9
   commit 7981
    Date: Thu Jan 07 00:43:00 2021 +0800
10
11
   modify on edd0
12
13
     ===
14
   commit edd0cc779f1c3347da79110e249322a95b80d3df
    Date: Thu Jan 07 00:36:11 2021 +0800
16
    modify test on c4d6
17
18
   ===
19
    commit c4d6
20
   Merge: ec7f44e e6dbf1d
    Date: Thu Jan 07 00:05:03 2021 +0800
21
22
     Merged dev into master.
23
24
    commit ec7f44e6724cd816d74656dfbb7c3e18f5f84376
25
26
    Date: Wed Jan 06 23:50:15 2021 +0800
27
    modify testdev on master
28
29
   commit 568453c9a1a3195153de951fd50bf72630aa3c26
30
31
    Merge: ab28664 896e6b6
32
   Date: Wed Jan 06 23:00:26 2021 +0800
33
    Merged dev into master.
```

```
34
35
   commit ab28664ecbcf5121790f4153cc4cf37ef20f1aad
     Date: Wed Jan 06 22:57:55 2021 +0800
38
    modify testmd
39
40
     ===
41
    commit c322f9caeefdb6543659893c73cbc46941f04a39
    Date: Wed Jan 06 22:16:20 2021 +0800
43
    cmt test.md
44
45
     ===
46
    commit cdccbf046899c4afd416edfa29c4e7a18e2d3f08
47
   Date: Thu Jan 01 08:00:00 1970 +0800
   initial commit
48
49
50
     _____
     ## global-log命令, 所有分支的commit-log
    → testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main
52
     global-log
53
    ===
54
    commit 29a19c06ea971505776447ad1de719b114e95575
   Date: Thu Jan 07 01:19:55 2021 +0800
    rmtest on 7981
56
57
58
59
60
   commit 568453c9a1a3195153de951fd50bf72630aa3c26
61 Merge: ab28664 896e6b6
   Date: Wed Jan 06 23:00:26 2021 +0800
62
63
     Merged dev into master.
64
65
66
67
   commit 79812a47f28d6d5f95b22a28dcc57d3ee67fe1dc
    Date: Thu Jan 07 00:43:00 2021 +0800
68
69
    modify on edd0
70
71
72
    commit 896e6b6f1dbd96ab82f4c908ee56725d7607a0e0
73
   Date: Wed Jan 06 22:46:55 2021 +0800
74
75
    testdev ondev
76
77
78
     ===
79
     commit ab28664ecbcf5121790f4153cc4cf37ef20f1aad
     Date: Wed Jan 06 22:57:55 2021 +0800
80
81
    modify testmd
82
83
84
     ===
```

```
85
      commit c322f9caeefdb6543659893c73cbc46941f04a39
 86
      Date: Wed Jan 06 22:16:20 2021 +0800
 87
      cmt test.md
 89
 90
      ===
 91
      commit c4d65a4ed16776fdf25fde6b1cc39914a8c980d0
 92
      Merge: ec7f44e e6dbf1d
 93
      Date: Thu Jan 07 00:05:03 2021 +0800
 94
      Merged dev into master.
 95
 96
 97
98
      commit cdccbf046899c4afd416edfa29c4e7a18e2d3f08
      Date: Thu Jan 01 08:00:00 1970 +0800
99
      initial commit
100
101
102
103
104
      commit e6dbf1d37240d97499e954557308c9a49de96ea2
105
      Date: Wed Jan 06 23:56:53 2021 +0800
106
      modify on branch dev
107
108
109
110
      commit ec7f44e6724cd816d74656dfbb7c3e18f5f84376
111
      Date: Wed Jan 06 23:50:15 2021 +0800
112
      modify testdev on master
113
114
115
      ===
116
      commit edd0cc779f1c3347da79110e249322a95b80d3df
117
      Date: Thu Jan 07 00:36:11 2021 +0800
118
      modify test on c4d6
```

6.rm-branch

切到 dev 分支,修改 test.md 并 add commit 使得 dev 分支上有ahead master分支的内容,再切回 master分支,在不merge的情况下,直接 rm-branch 查看会发生什么

```
vim test.md

this is 1st edition.

----
GOODBYE dev branch! TOT
```

1 .

```
2 — blobs
3
          ---- 1efba49e6da071c378ed6d9b77ca750e14073744
              2caf63aabaf79a1e96a7298c1c2800b635e9fa44
5
              - 580e8b8e094398f93a159a5a497bcfb1ab8f5dc3
6
              - 5847e41a020f6748a9203a812e8385e6ca628308
7
              - 78ccfa6e5782586ba36764d6979d8c2f119b7a5f ##新blobs
8
              - 795202e85110e919537d33c4404035e35e1f7b73
9
              - 954c45f719e0d75dcdc04a12fa386e957d7c2441
10
              b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
11
              - c7e47bb07f83502dc9ad8d64703ca2c67cb28b36
          f4454efa1a4f84a93912d239dbdbb11eb9d5184b
12
13
          - commits
          29a19c06ea971505776447ad1de719b114e95575
14
15
              - 568453c9a1a3195153de951fd50bf72630aa3c26
              - 79812a47f28d6d5f95b22a28dcc57d3ee67fe1dc
16
              - 896e6b6f1dbd96ab82f4c908ee56725d7607a0e0
17
              ab28664ecbcf5121790f4153cc4cf37ef20f1aad
18
              - c322f9caeefdb6543659893c73cbc46941f04a39
19
              - c4d65a4ed16776fdf25fde6b1cc39914a8c980d0
20
              - cdccbf046899c4afd416edfa29c4e7a18e2d3f08
21
22
              e45d4b03f3499eb4142ef86ca6c0831a61196af6 ##新commits
              - e6dbf1d37240d97499e954557308c9a49de96ea2
23
              - ec7f44e6724cd816d74656dfbb7c3e18f5f84376
24
              — edd0cc779f1c3347da79110e249322a95b80d3df
25
26
         - index
27
         - refs
28
         - stage
29
          ---- 1efba49e6da071c378ed6d9b77ca750e14073744
30
             - 2caf63aabaf79a1e96a7298c1c2800b635e9fa44
31
             - 580e8b8e094398f93a159a5a497bcfb1ab8f5dc3
32
33
             - 5847e41a020f6748a9203a812e8385e6ca628308
34
             - 78ccfa6e5782586ba36764d6979d8c2f119b7a5f##新blobs
35
             — 795202e85110e919537d33c4404035e35e1f7b73
              - 954c45f719e0d75dcdc04a12fa386e957d7c2441
36
              - b3198b8aa6efbaeba8dbbc0876ffdff4f3bd7a34
37
             - c6c291a222d920649914e3d37bc941a9357d2192
38
             - c7e47bb07f83502dc9ad8d64703ca2c67cb28b36
39
          f4454efa1a4f84a93912d239dbdbb11eb9d5184b
40
41
     3 directories, 36 files
```

7.find命令

```
1 → testgitlet git:(master) X java -cp /Users/caocan/gitlet_java18 gitlet.Main find
   "modify on edd0"
2 79812a47f28d6d5f95b22a28dcc57d3ee67fe1dc #msg-->sha1
```