

#1. Fast-Forward Merge

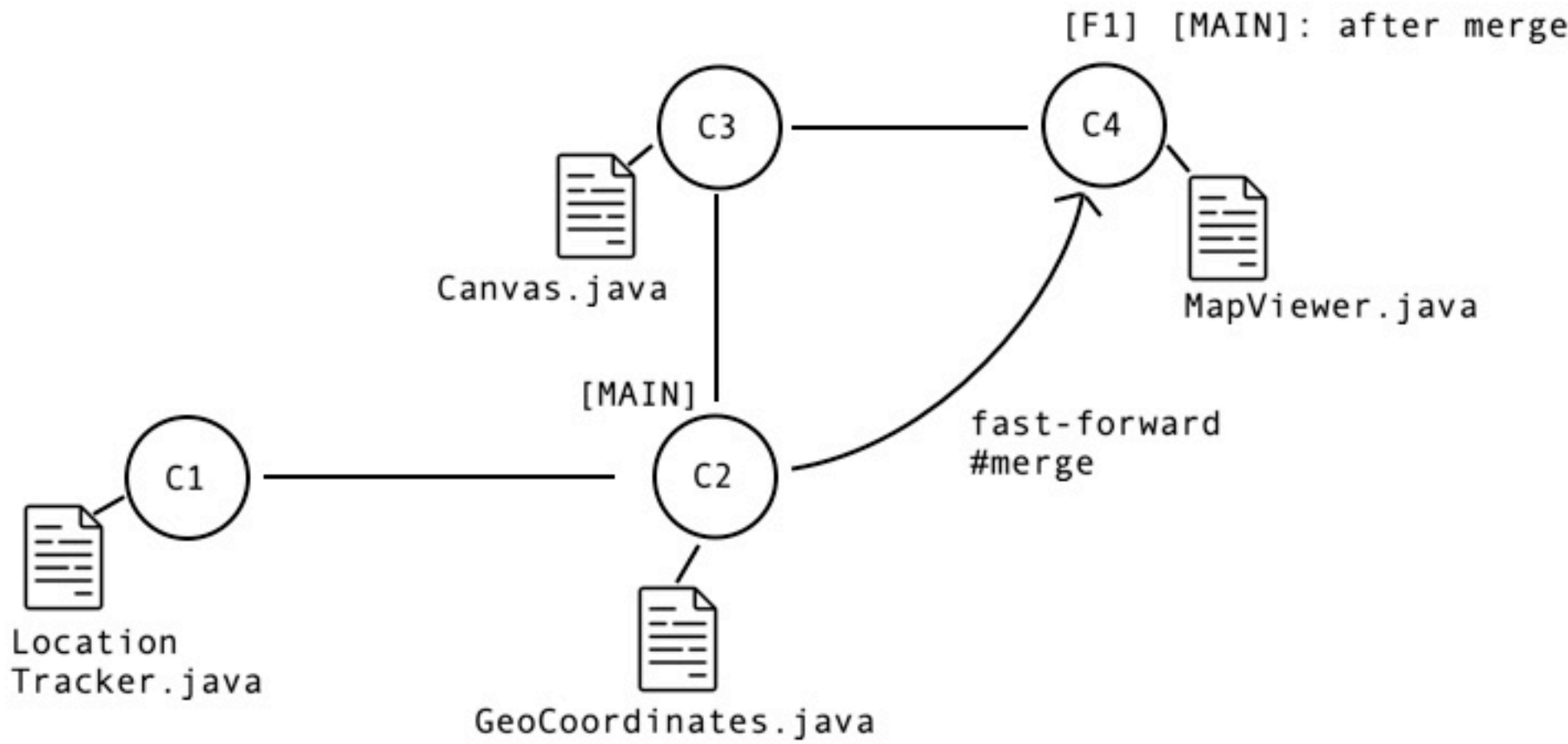
```
tracking commits:
.git/logs/refs/heads
|-main
00000000 C1
C1       C2
#merge-----
C2       C3
C3       C4

pointer file pointing to the head
of the branch.

.git/refs/heads/
|-main
C4

.git/logs/refs/heads
|-F1
00000000 C1
C1       C2
C2       C3
C3       C4

.git/refs/heads
|-F1
C4
```



#2. Merge Commit

```
tracking commits:
.git/logs/refs/heads
|-main
00000000 C1
C1       C2
-----
C2       C3
C3       C4

pointer file pointing to the head of the branch.

.git/refs/heads/
|-main
C4

F1 [feature branch]

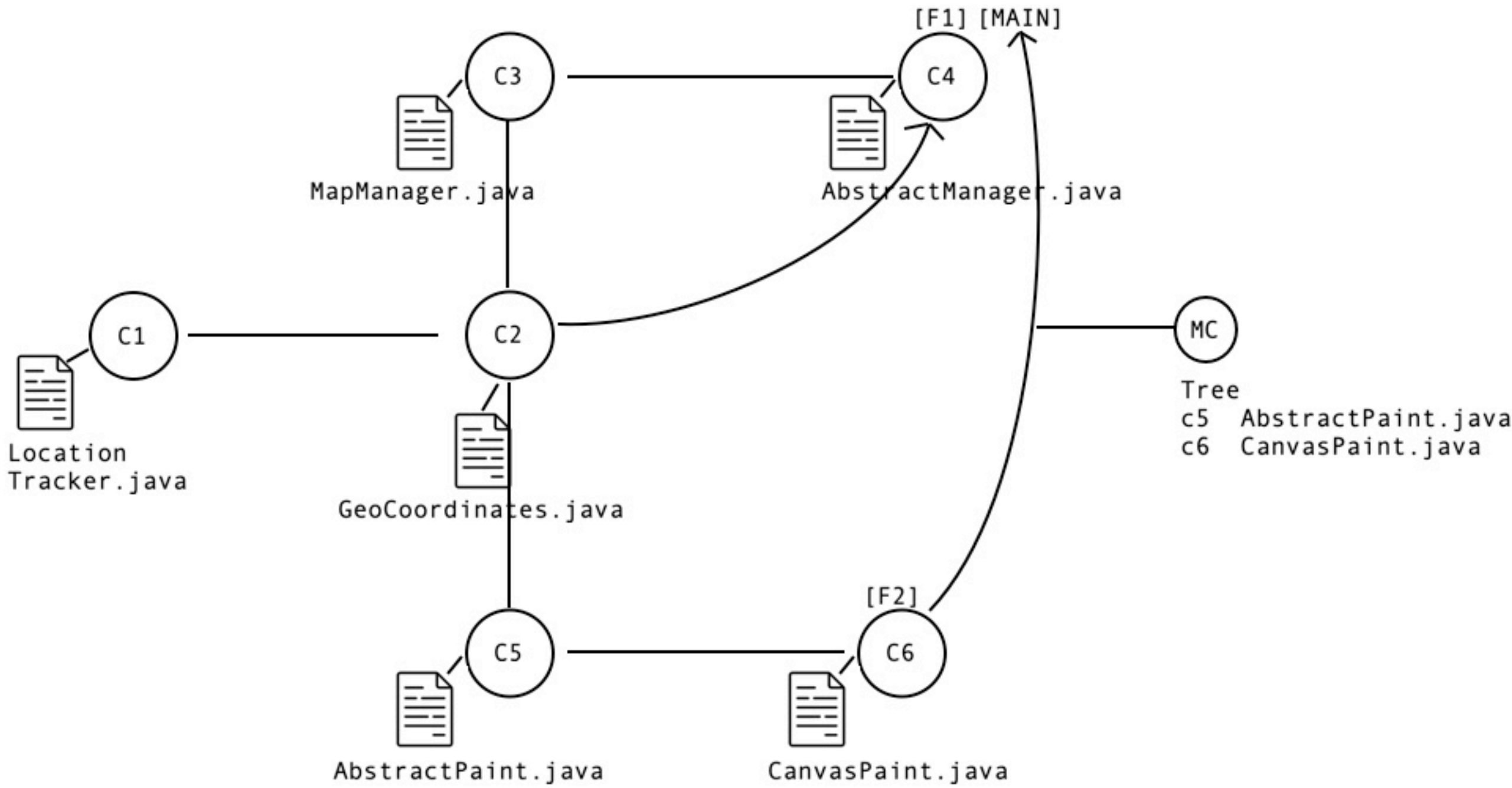
.git/logs/refs/heads
|-f1
00000000 C1
C1       C2
C2       C3
C3       C4

.git/refs/heads/
|-f1
C4

F2 [feature branch]

.git/logs/refs/heads
|-f2
00000000 C1
C1       C2
C2       C5
C5       C6

.git/refs/heads/
|-f2
C6
```



Merge conflicts

