

IR TRACKER'S IMPLEMENTATION

```
julia> @code_tracked f(true)
1: (%3, %4, %1, %2)
    %5 = saveir!(%4, ...)
    %6 = TapeConstant(%1)
    %7 = trackedargument(%4, %6, nothing, 1, $($1:%1))
    %8 = record!(%4, %7)
    %9 = TapeConstant(%2)
    %10 = trackedargument(%4, %9, nothing, 1, $($1:%2))
    %11 = record!(%4, %10)
    %12 = tuple()
    %13 = trackedvariable(%4, $($2), %2)
    %14 = trackedjump(%4, 2, %12, %13, $($1:&1))
    %15 = trackedreturn(%4, $(<1>), $($1:&2))
    br 2 (%14) unless %2
    br 3 (1, %15)
2: (%16)
    %17 = record!(%4, %16)
    %18 = trackedreturn(%4, $(<0>), $($2:&1))
    br 3 (0, %18)
3: (%19, %20)
    %21 = record!(%4, %20)
    return %19
```

The diagram illustrates the control flow of the IR code. Green arrows show the initial flow from block 1 to block 2. A blue arrow shows a jump from block 1 to block 2. Red arrows show jumps from block 1 to block 3 and from block 2 to block 3.