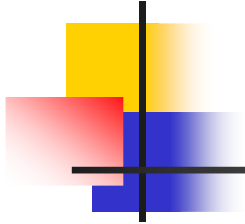
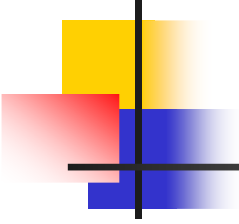


# Condition variables

---



```
proc notify (cvar) {
    acquire (tt_lock);
    for (i = 0 to N-1) do {
        if (ttable[i].cvar == cvar &&
            ttable[i].state == WAITING) {
            ttable[i].state  $\beta$  RUNNABLE;}
        }
    release(tt_lock);}
```



---

```
proc wait(cvar, lock) {  
    acquire(tt_lock);  
    ttable[id].lock β lock;  
    ttable[id].cvar β cvar;  
    release(tt_lock);  
    yield(WAITING);  
    acquire(lock);}
```



# Implementing condition variables

---

```
proc wait(cvar, lock) {  
    yield_wait(cval,lock);  
    acquire(lock); }
```

# Implementing condition variables



---

```
proc yield_wait(cvar, lock) {
    disable_interrupts;
    acquire(tt_lock);
    release(lock);
    ttable[id].lock β lock;
    ttable[id].cvar β cvar;
    ttable[id].sp β SP;
    ttable[id].state β WAITING;
    // other yield code
    release(tt_lock);
    enable_interrupts;}
```