Java concurrency control constructs

**SYNCHRONISED** methods of an object execute under **MUTUAL EXCLUSION** with respect to all synchronised methods of the object

![Diagram](image)

- **mutual exclusion** (to access shared counts)
- **condition synchronisation**

implementation: a semaphore per object

**CONDITION SYNCHRONISATION**

(not very good)

**WAIT** (block, release exclusion on object)

**NOTIFY** (implementation frees an arbitrary thread)

**NOTIFY ALL** (implementation frees all threads
first to be scheduled gets in
they MUST retest the WAIT condition)