

(Good) Dining Philosophers

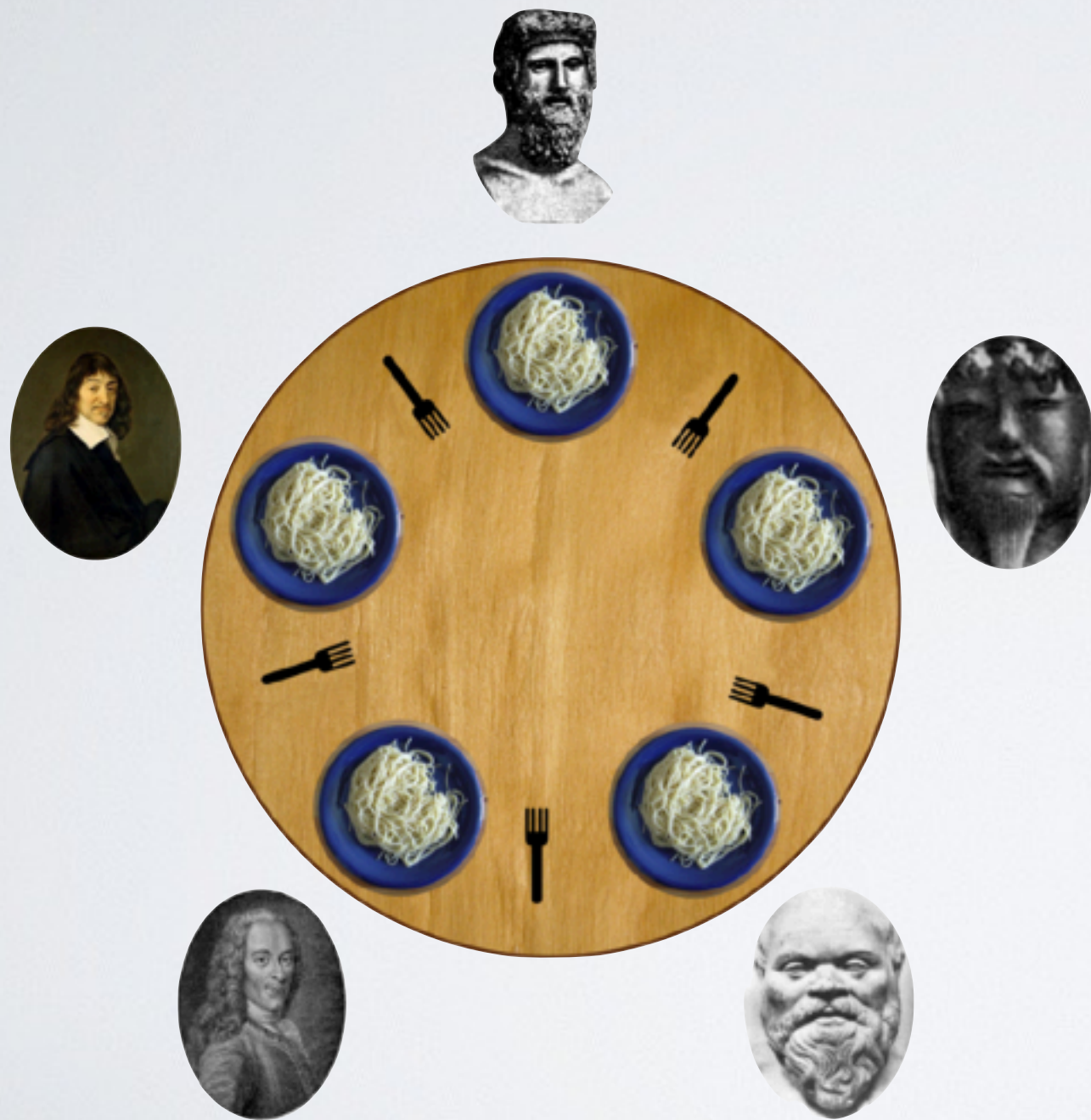


image from wikipedia

```
for(i=0, i<n, i++){  
    init(fork[i], 1)  
}
```

```
void philosopher (i, n) {  
    while(1) {  
        if ((i+1) == n) {  
            sem_wait(fork[(i + 1) % n])  
            sem_wait(fork[i])  
        } else {  
            sem_wait(fork[i])  
            sem_wait(fork[(i + 1) % n])  
        }  
        eat & think  
        sem_signal(fork[i])  
        sem_signal(fork[(i + 1) % n])  
    }  
}
```

Acknowledgments

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- Ryan Huang - teaching CS 318 at *John Hopkins University*
- David Mazière - teaching CS 140 at *Stanford*