Working with the Time Package



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What is The Time Package?



Overview



Understanding Wall Clock vs. Monotonic Clock

Formatting Time Output

Calculating Time Spans

Calculate Elapsed Time for Applications



Understanding Wall Clock vs. Monotonic Clock



Wall Clock



Used to keep track of the current time of day

Subject to variation

Great for humans

Not great for measuring time



Monotonic Clock



Used for measuring time

Not subject to variation

Only meaningful for the process calling it

Can be simulated by wall clock time



Measuring Time Intervals



Time to process file: 5 minutes?



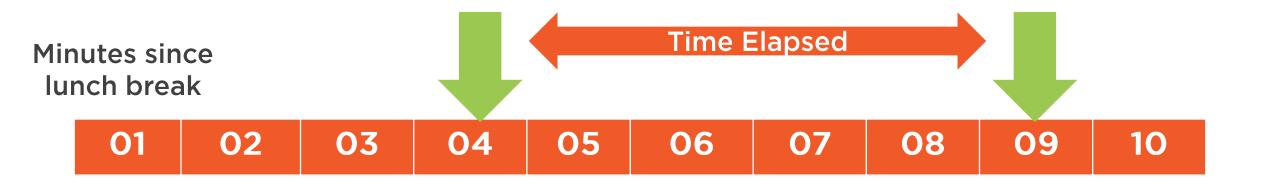
Measuring Time Intervals



Time to process file: 6 minutes?



Measuring Time Intervals



Time to process file: 5 minutes



```
t := time.Now()
fmt.Print(t)
```

time.Now() returns both Wall clock and Monotonic



Demo



Formatting Time Output



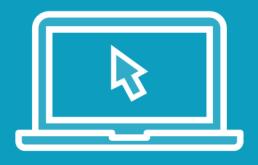
Demo



Calculating Time Spans



Demo



Calculate Elapsed Time for Applications



Summary



Wall Clock vs. Monotonic Clock

Formatted Time Output

Calculated Time Spans

Calculated Elapsed Time for Applications

