

clockwork



build passing go report A+ go version >=1.11 go go.dev reference

A simple fake clock for Go.

Usage

Replace uses of the `time` package with the `clockwork.Clock` interface instead.

For example, instead of using `time.Sleep` directly:

```
func myFunc() {
    time.Sleep(3 * time.Second)
    doSomething()
}
```

Inject a clock and use its `Sleep` method instead:

```
func myFunc(clock clockwork.Clock) {
    clock.Sleep(3 * time.Second)
    doSomething()
}
```

Now you can easily test `myFunc` with a `FakeClock`:

```
func TestMyFunc(t *testing.T) {
    c := clockwork.NewFakeClock()

    // Start our sleepy function
    var wg sync.WaitGroup
    wg.Add(1)
    go func() {
        myFunc(c)
        wg.Done()
    }()

    // Ensure we wait until myFunc is sleeping
    c.BlockUntil(1)

    assertState()

    // Advance the FakeClock forward in time
    c.Advance(3 * time.Second)
```

```
// Wait until the function completes
wg.Wait()

assertState()
}
```

and in production builds, simply inject the real clock instead:

```
myFunc(clockwork.NewRealClock())
```

See [example test.go](#) for a full example.

Credits

clockwork is inspired by @wickman's [threaded fake clock](#), and the [Golang playground](#)

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