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# 1.12 [github.com/erikstmartin/go-testdb](https://github.com/erikstmartin/go-testdb) v0.0.0-20160219214506-8d10e4a1bae5

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# 1.14 mod v0.6.0-dev.0.20220419223038-86c51ed26bb4

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# 1.15 x-sync v0.0.0-20220722155255-886fb9371eb4

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```

```
package hooks
```

```
import (  
    "bytes"  
    "io/ioutil"  
    "os/exec"  
    "runtime"  
    "testing"
```

```
    "golang.org/x/tools/internal/testenv"  
)
```

```
func TestLicenses(t *testing.T) {  
    // License text differs for older Go versions because staticcheck isn't  
    // supported for those versions.  
    testenv.NeedsGo1Point(t, 17)
```

```
    if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {  
        t.Skip("generating licenses only works on Unices")  
    }
```

```
    tmp, err := ioutil.TempFile("", "")  
    if err != nil {  
        t.Fatal(err)  
    }  
    tmp.Close()
```

```
    if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {  
        t.Fatalf("generating licenses failed: %q, %v", out, err)
```

```

}

got, err := ioutil.ReadFile(tmp.Name())
if err != nil {
    t.Fatal(err)
}
want, err := ioutil.ReadFile("licenses.go")
if err != nil {
    t.Fatal(err)
}
if !bytes.Equal(got, want) {
    t.Error("combined
license text needs updating. Run: `go generate ./internal/hooks` from the gopls module.")
}
}
}

```

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//go:build go1.18

```

// +build go1.18

// Package copyright checks that files have the correct copyright notices.
package copyright

import (
    "go/ast"
    "go/parser"
    "go/token"
    "io/fs"
    "io/ioutil"
    "path/filepath"
    "regexp"
    "strings"
)

func checkCopyright(dir string) ([]string, error) {
    var files []string
    err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
        if err != nil {
            return err
        }
        if d.IsDir() {
            // Skip directories like ".git".
            if strings.HasPrefix(d.Name(), ".") {
                return filepath.SkipDir
            }
            // Skip any directory that starts with an underscore, as the go
            // command would.
            if strings.HasPrefix(d.Name(), "_") {
                return filepath.SkipDir
            }
        }
        return nil
    })
    needsCopyright, err := checkFile(dir, path)
    if err != nil {
        return err
    }
    if needsCopyright {
        files
    }
    = append(files, path)
    return nil
}

return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.`)

```

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```
func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers
    on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
```

```
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}
```

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//go:generate ./gen-licenses.sh licenses.go  
package hooks

const licensesText = `  
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```

```
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```

```
package copyright
```

```
import (\n    "os"\n    "path/filepath"\n    "strings"\n    "testing"\n)
```

```
func TestToolsCopyright(t *testing.T) {
    cwd, err := os.Getwd()
    if err != nil {
        t.Fatal(err)
    }
    tools := filepath.Dir(cwd)
    if !strings.HasSuffix(filepath.Base(tools), "tools") {
        t.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))
    }
}
```

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