Erlang Academy

Лекция 4

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План

- Структура каталогов OTP-приложения
- Инструмент сборки erlang.mk
- Инструмент сборки rebar
- Фреймворк для тестирования Eunit

Структура каталогов

src/

ebin/

include/

docs/

c_src/

deps/

apps/

erlang.mk

erlang.mk ([Github](), [Docs]())

rebar

rebar2 (Github, Docs)

rebar3 (Github, Docs)

EUnit

```erlang
-module(fib).
-export([fib/1]).

fib(0) -> 1;
fib(1) -> 1;
fib(N) when N > 1 -> fib(N-1) + fib(N-2).
```

EUnit

```
-ifdef(TEST).
-include_lib("eunit/include/eunit.hrl").
fib_test_() -> [
    ?_assert(fib(0) =:= 1),
    ?_assert(fib(1) =:= 1),
    ?_assert(fib(2) =:= 2),
    ?_assert(fib(3) =:= 3),
    ?_assert(fib(4) =:= 5),
    ?_assert(fib(5) =:= 8),
    ?_assertException(error, function_clause, fib(-1)),
    ?_assert(fib(31) =:= 2178309)].
-endif.
```

EUnit

%% Assert macros

?assert(BoolExpr)

?assertNot(BoolExpr)

?assertMatch(GuardedPattern, Expr)

?assertEqual(Expect, Expr)

?assertException(ClassPattern, TermPattern, Expr)

?assertError(TermPattern, Expr)

?assertExit(TermPattern, Expr)

?assertThrow(TermPattern, Expr)

EUnit

%% Macros for running external commands

?assertCmd(CommandString)

?assertCmdStatus(N, CommandString)

?assertCmdOutput(Text, CommandString)