# **Erlesy** Visualizing OTP State Machines





# Why would anyone do this?

## **Two Things**

• Not everyone will become an Erlang coder

### AND

• Good Design is difficult when you have no idea what you should do

## Graphs provide

- Quick overview and feedback
- Common understanding
- Iterative design
- Reduced effort in capturing requirements

## **Graphs suck when**

- No one wants to maintain them!
- Structure is not enforced
- People have different opinions on how it should be done
- Code cannot be mapped easily
- They become detached from the implementation



## SDL/GR (introduced 1976)

SDL Diagrams





```
call initiated(#cc release request{}=Msg,
#state{call reference=CallReference,
                    call type=cc}=State) ->
  isi_error:log(?MODULE, info,
   "State call initiated
received:~n~p~n",[Msg]),
  NewState = stop timer(t303,State),
  outgoing message(
#qsig_release{call_reference=CallReference},
             State),
 NextState = start_timer(t308,NewState),
  {next state, release request, NextState};
```









# ErlEsy - demo

## **Our** tool

- Auto-generates gen\_fsm to .dot and .json
- Requires include files for code parser
- Supports
  - Simple state transitions
  - Transitions within conditionals
  - Guards
  - All State events (simplified and expanded)
- https://github.com/haljin/erlesy

# Jobs Jobs Jobs

## JOB OPENING – Motorola Solutions

#### **Software Developers**

Motorola Solutions is a leading supplier of smart work group communication solutions for enterprises and governments around the world. We focus exclusively on professional markets such as public safety, utilities, energy, transportation, manufacturing, and other commercial and industrial customers.

#### The Job

You will join a team of highly skilled software engineers that drive the core functionality development and make the network infrastructure of Motorola Solutions' mission critical communication systems. Based in the Copenhagen office, you will open mindedly share ideas and proactively collaborate with customers and colleagues locally as well as across the globe to create strong technical and customer-oriented solutions.



#### The Person

You have a strong desire to develop market leading products to the most demanding users in the world as well as the potential and ambition to be one of the best software engineers. It will take energy and drive to be successful and we are looking for someone who is ready to challenge our existing ways of working.

In addition, these are the characteristics we are looking for:

- Recently graduated or with a few years of experience, possibly from a software based startup company.
- Expertise in real time Linux server solutions.
- Good knowledge of C/C++ and/or functional

#### programming (**Erlang** or similar).

• Strong ability and enthusiasm to learn new technologies in a short time