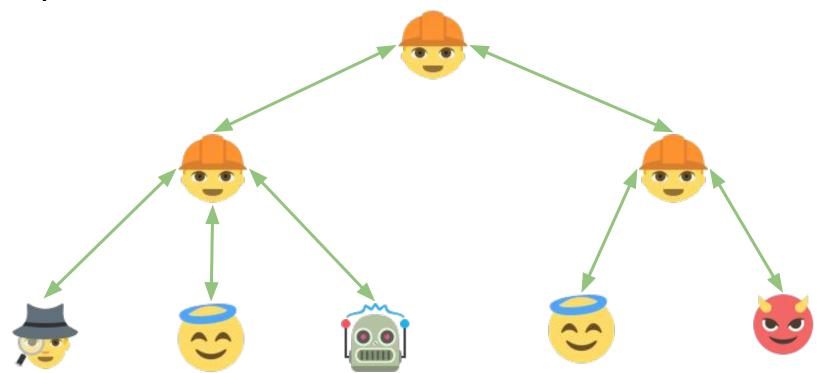
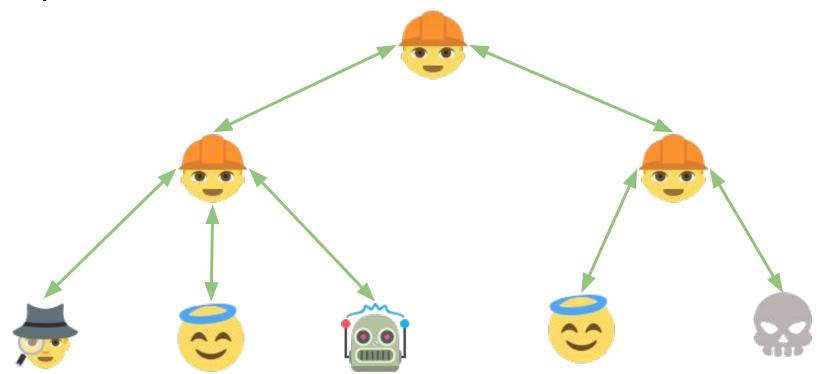
OTP Workshop

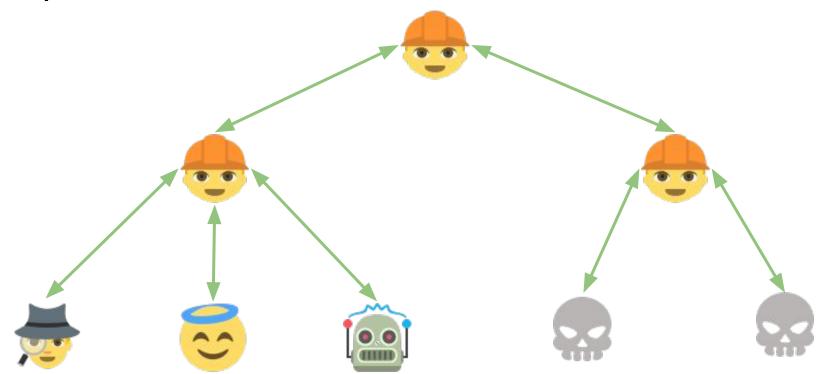
Supervision Trees and Applications

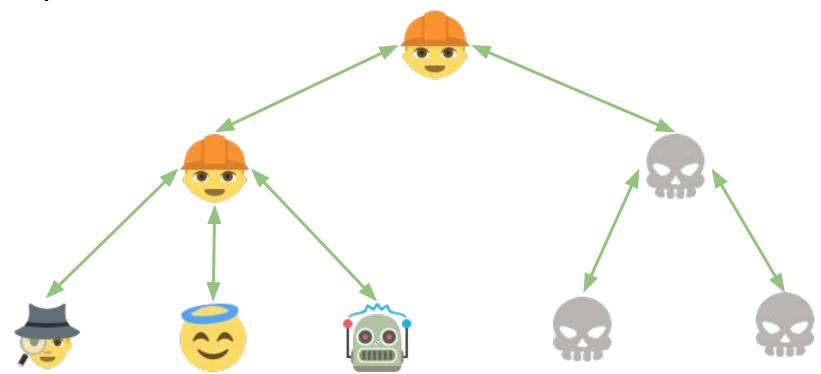
Let it crash again and again and again

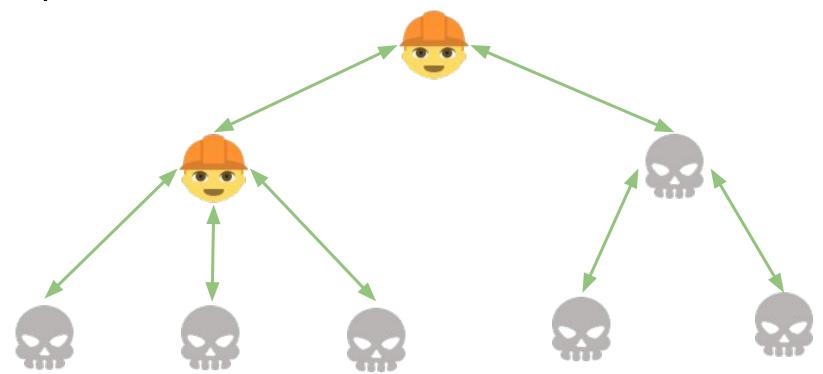
- ANY process that is restarted may enter BAD state
- Crash ANY process in BAD state
- Repeat by crashing more and more of the system until in GOOD state
- If the system fails to return to GOOD state then crash the WHOLE system

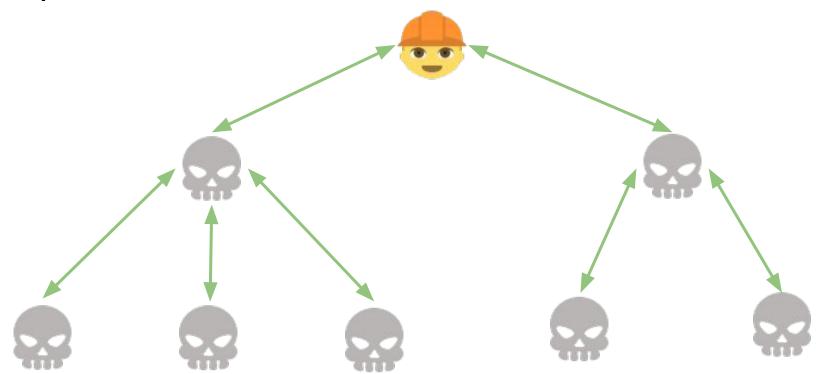


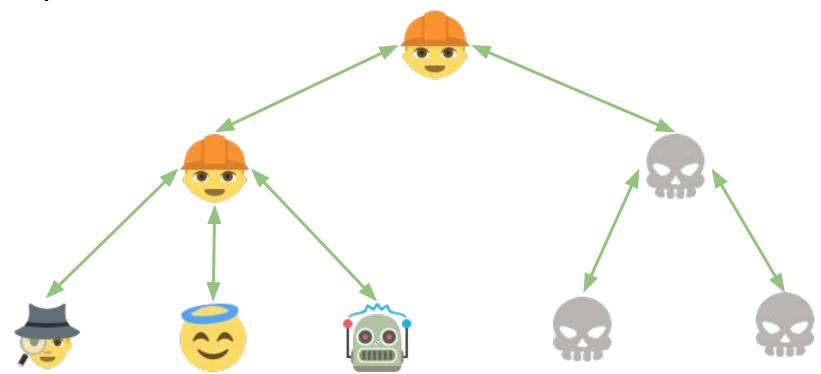


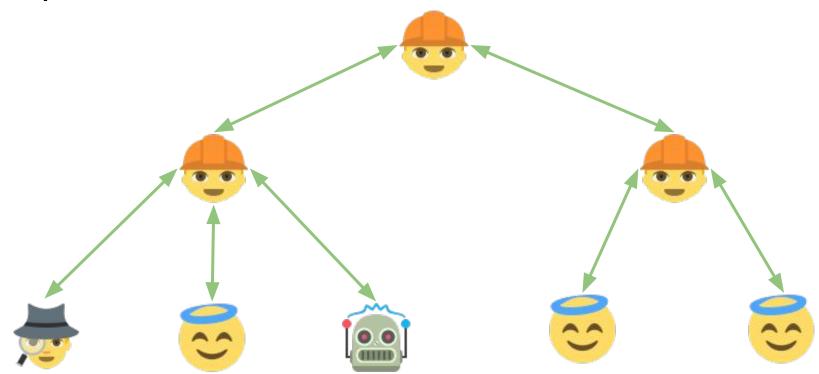






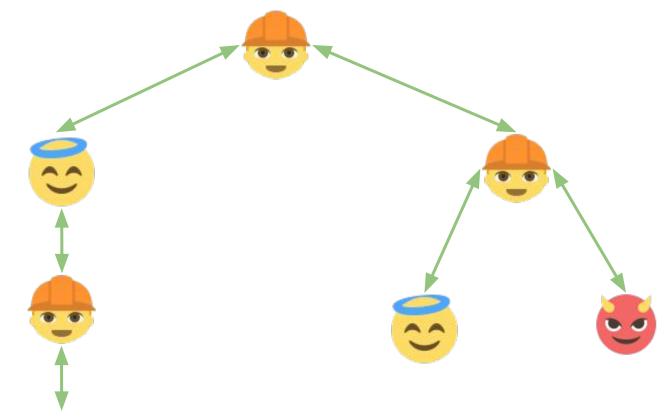


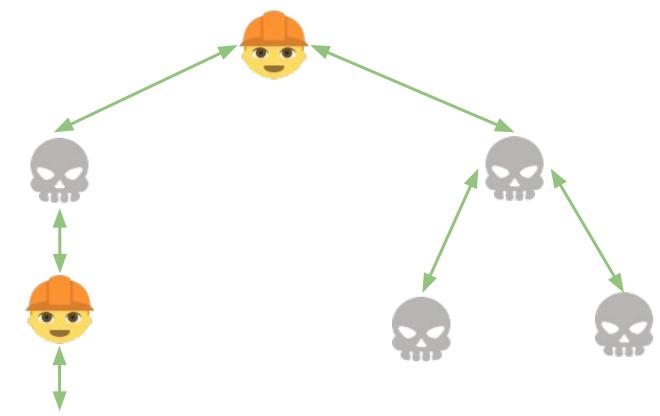


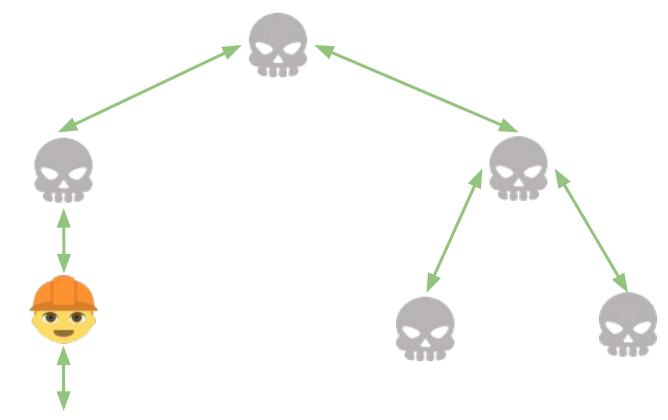


Guarantees

- When started all descendants have successfully started
- When terminated all descendants have completely terminated
- Descendants started in order
- Descendants terminated in reverse order







Application

- Application.load/1
- Application.start/1,2
- Application.ensure_started/1,2
- Application.ensure_all_started/1,2
- Application.stop/1
- Application.started_applications/0,1

Restart

- :temporary
- (:transient)
- :permanent

Umbrella Applications

- Separation of concerns/functionality
- Isolated from each others faults
- Share configuration and dependencies
- Package subset of applications in different releases/nodes

Application problems