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ELIXIR MEETUP MÜNCHEN

ELIXIR AND OTP

Philipp Neugebauer

INNOQ

@ppneugebauer

Keep it simple!



Philipp Neugebauer
IT Consultant at INNOQ

- **Rails/Phoenix**
- **Simple CI/CD**
- **Docker + AWS**

**Erlang VM is THE
choice to solve
concurrent problems**

SYNTAX

```
a = [  
    %{true: 1, false: 2.0 },  
    {:ok, "success"},  
    fn x -> x + 1 end  
]
```

```
List.last(a).(1)
```

SYNTAX

```
defmodule Example do
```

```
  def example([]) do
```

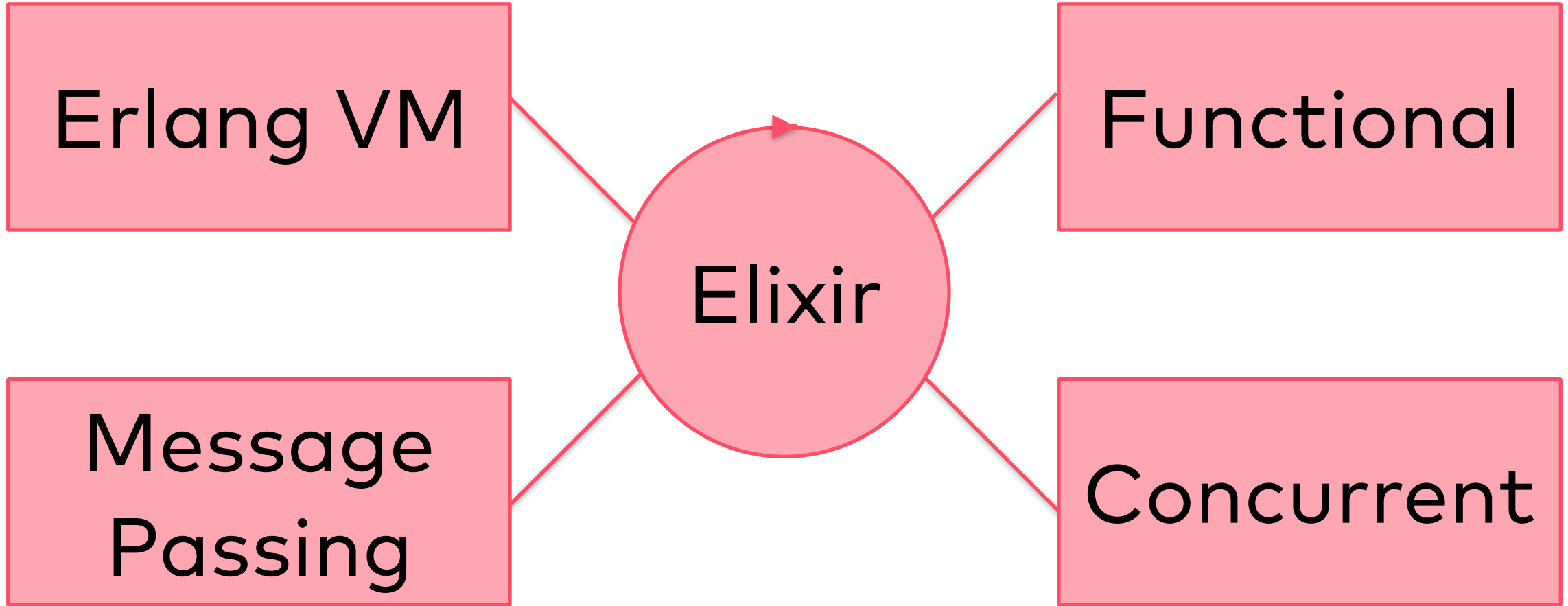
```
    []
```

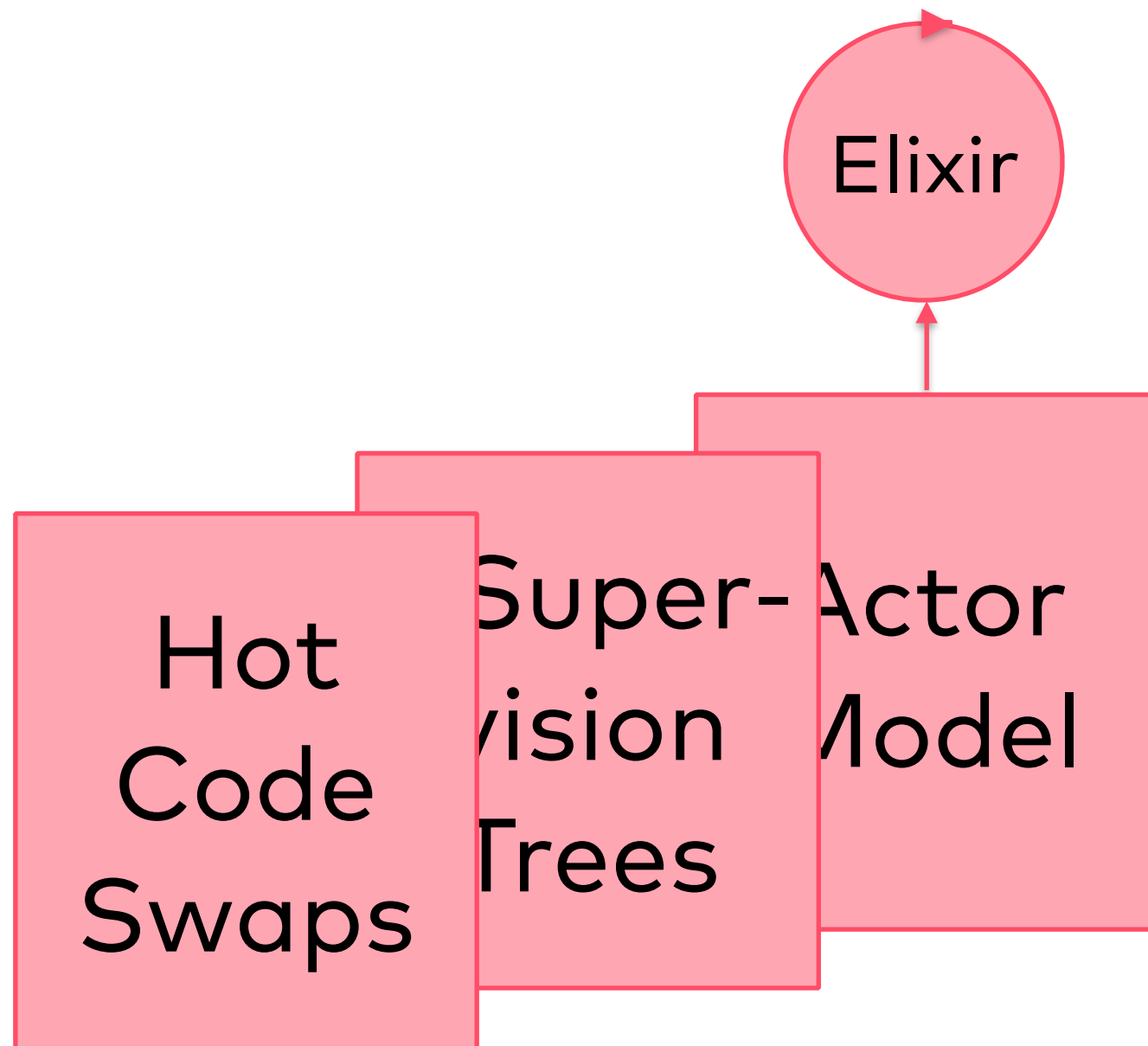
```
  end
```

```
  def example(list), do: list
```

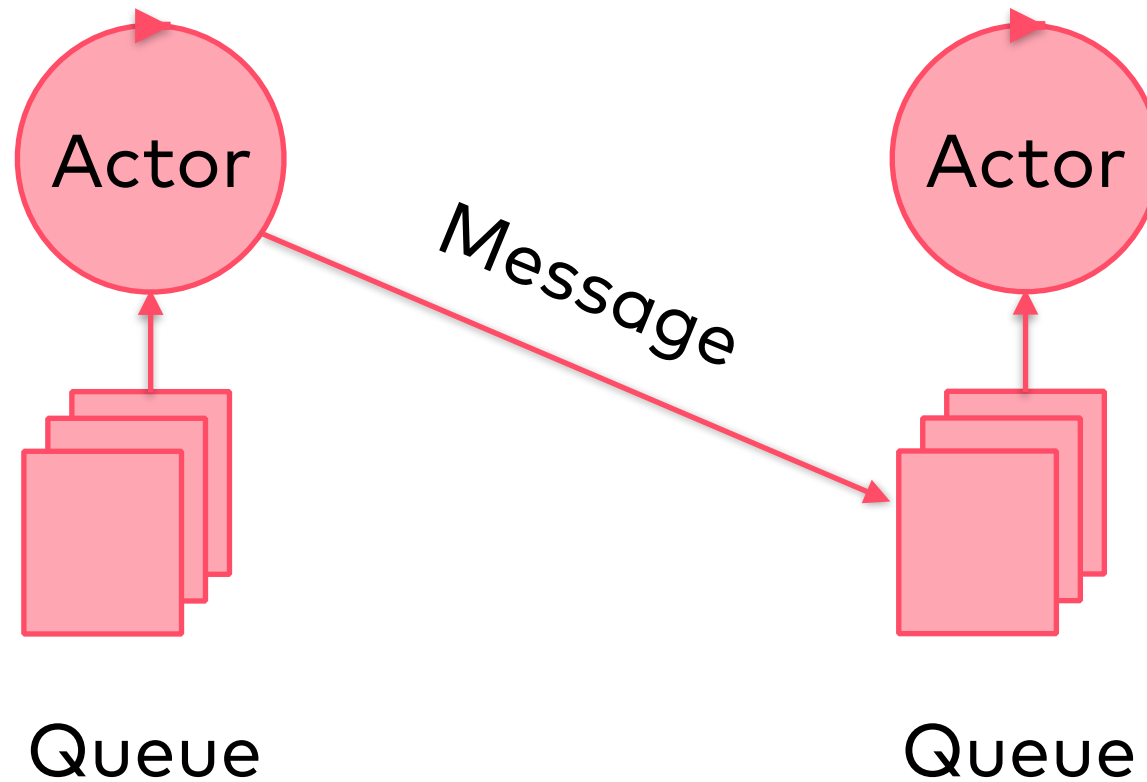
```
end
```

CHARACTERISTICS

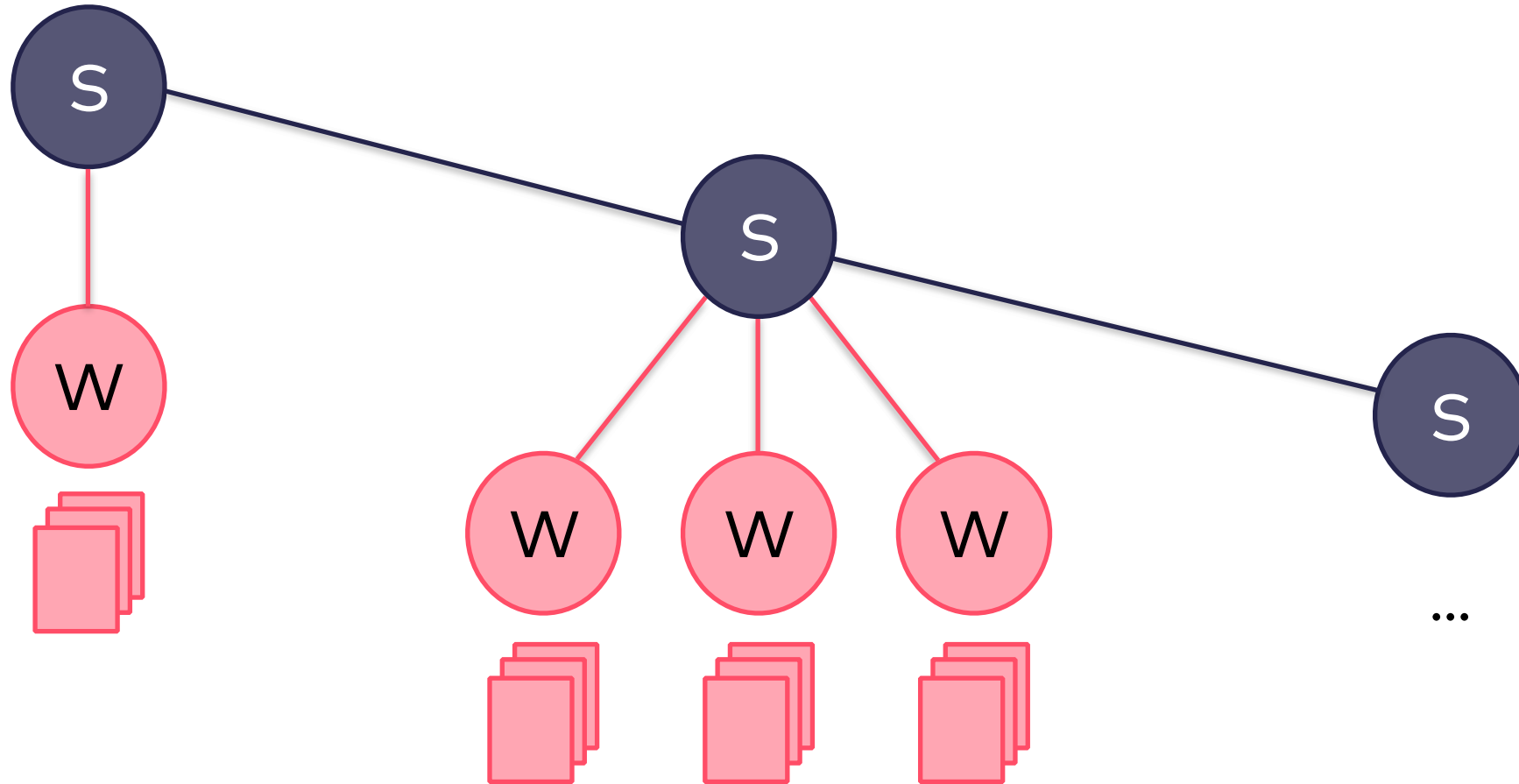




ACTOR MODEL

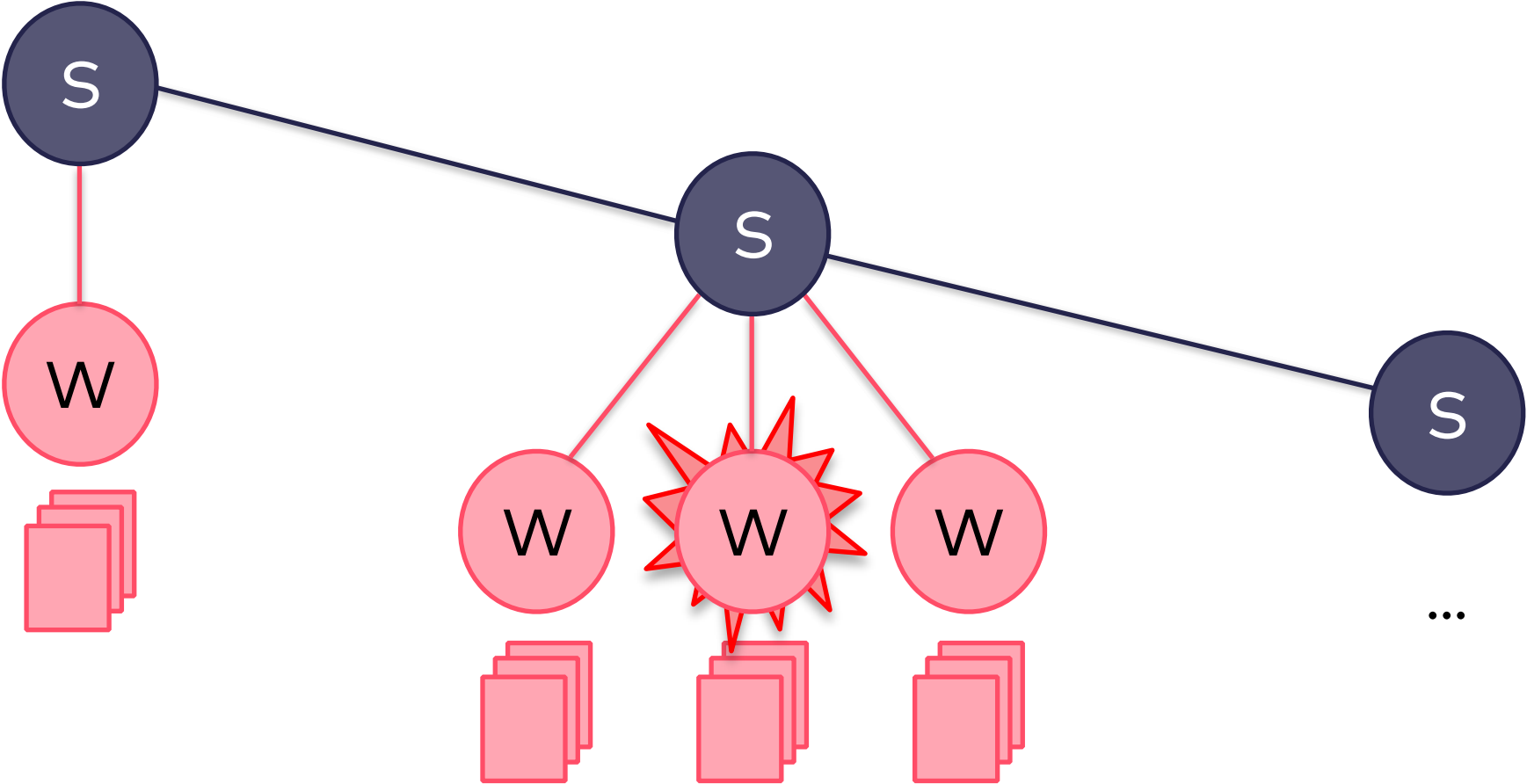


COMMUNICATION

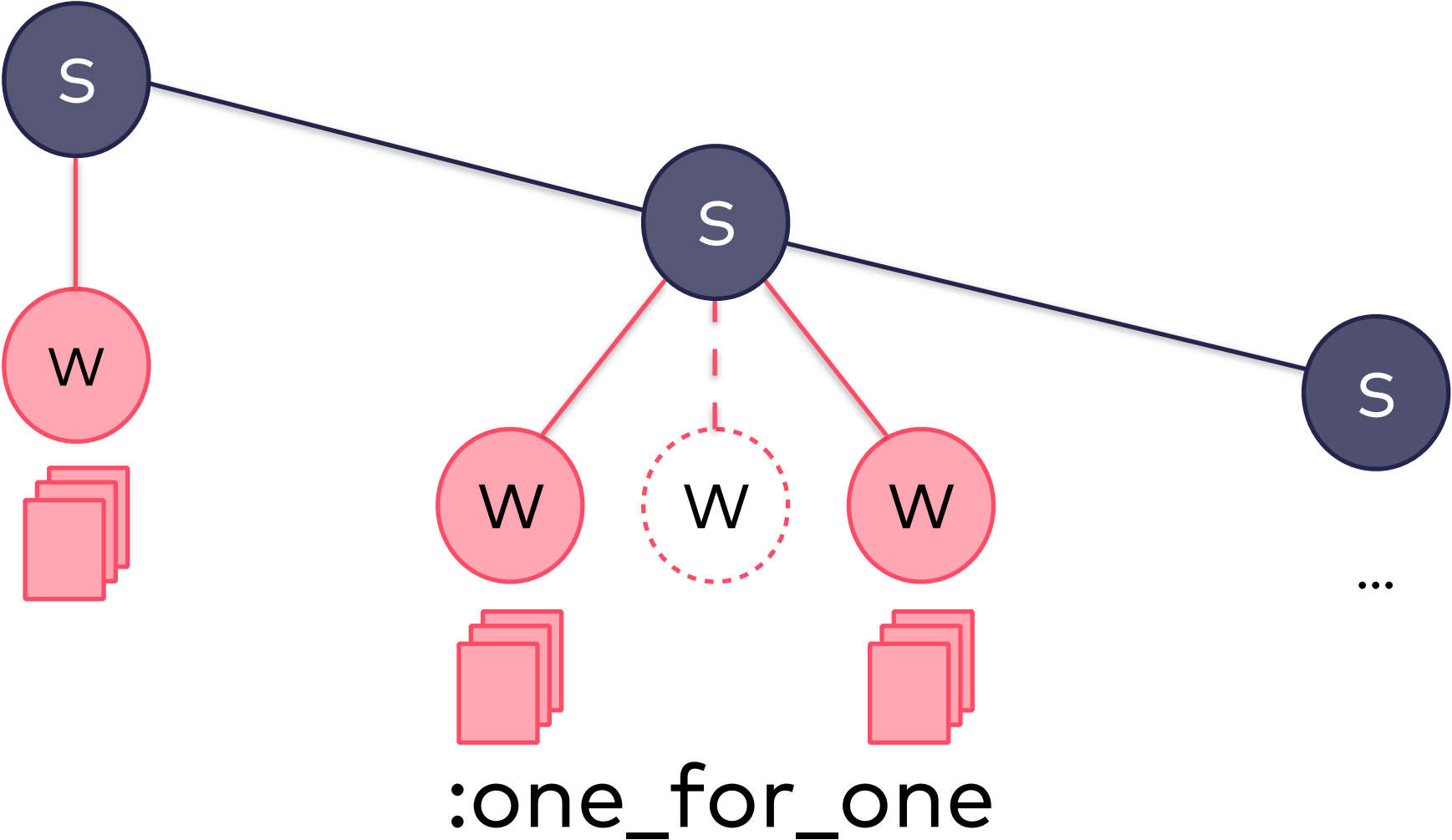


Let it crash!

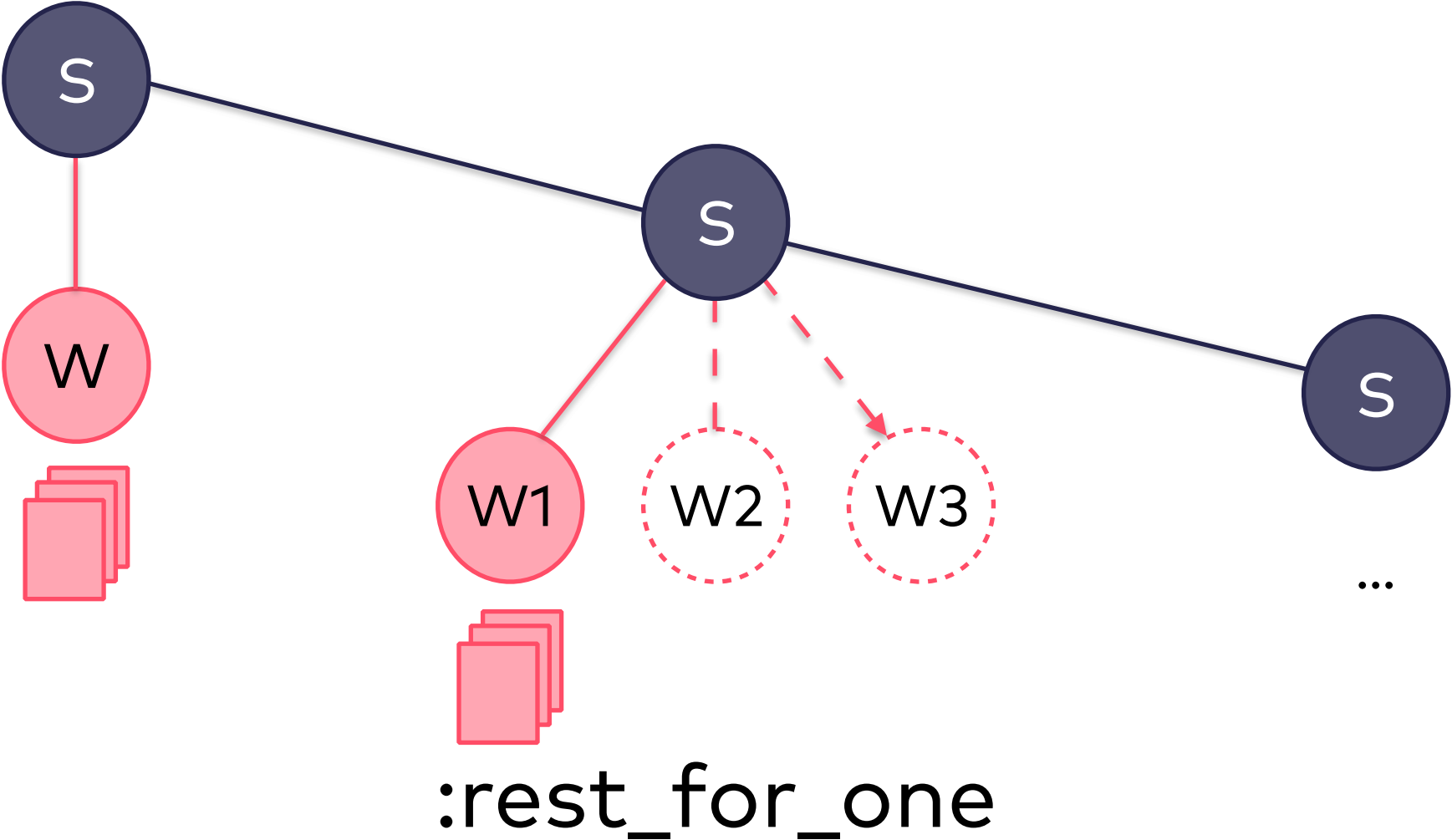
LET IT CRASH



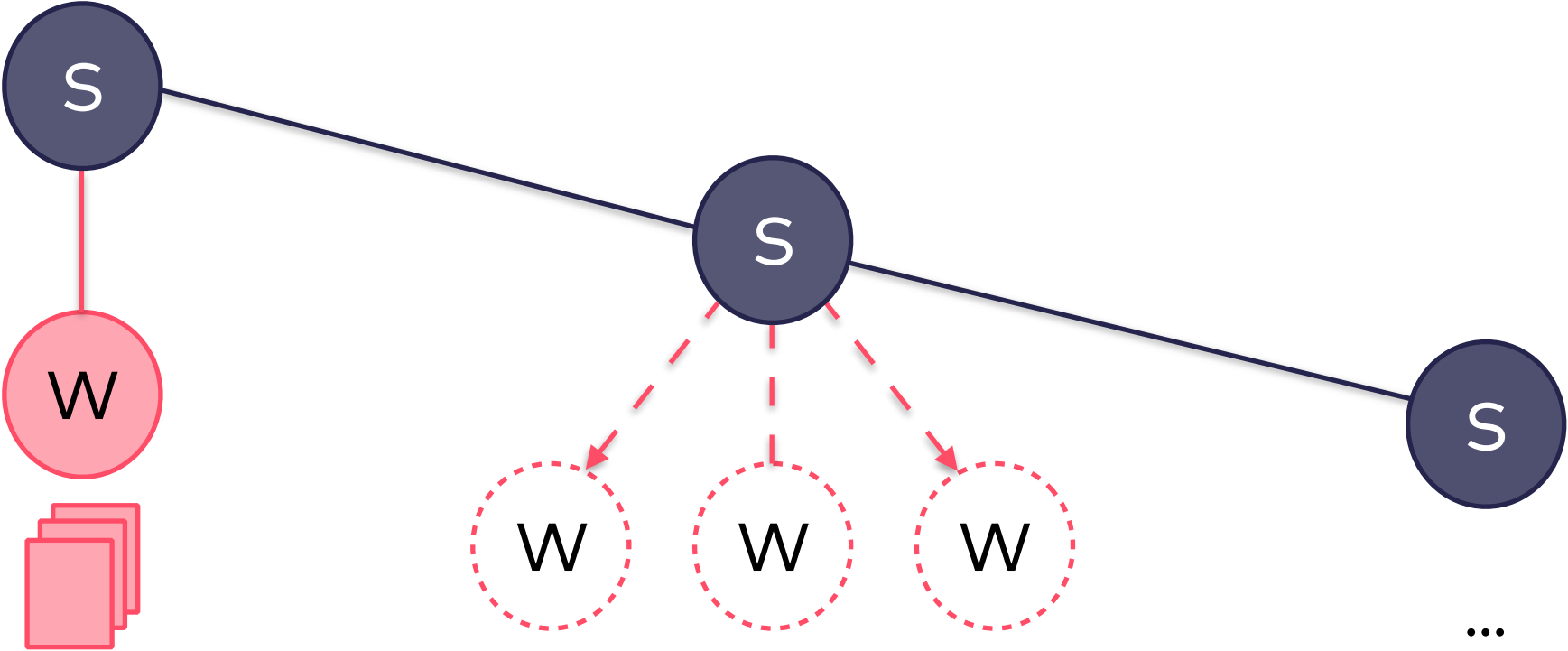
LET IT CRASH



LET IT CRASH

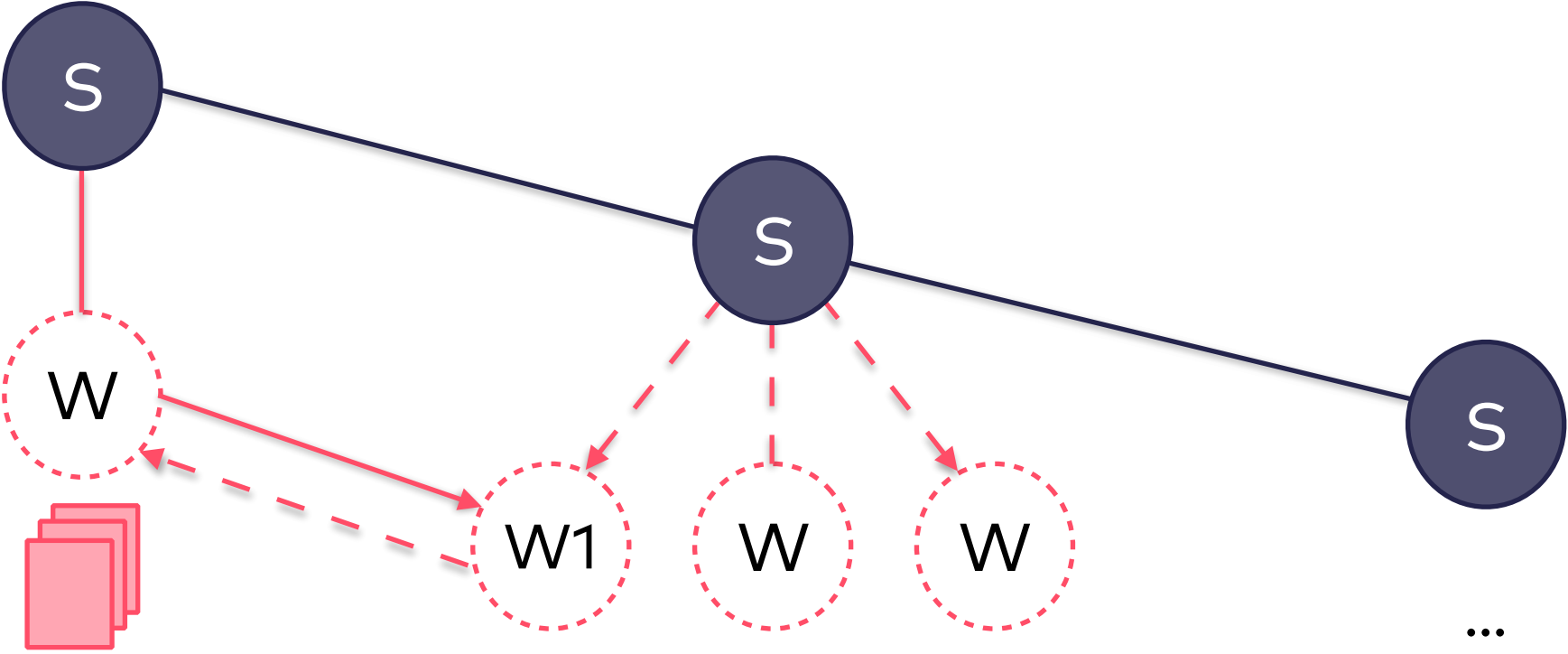


LET IT CRASH



:one_for_all

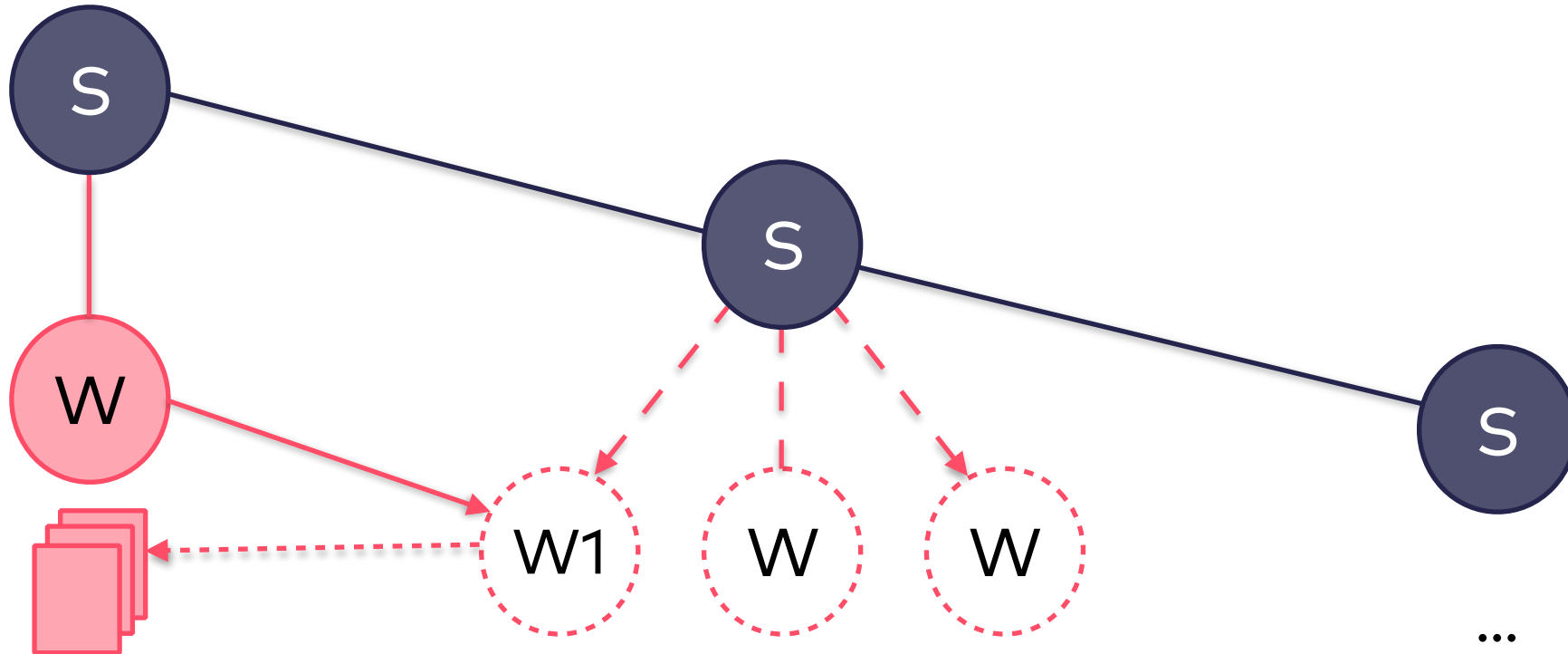
LET IT CRASH



{:EXIT, from, reason}

Process.link(W1)

LET IT CRASH

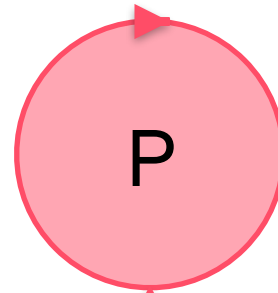


{:DOWN, ref, :process, object, reason}

Process.monitor(W)

HOT CODE SWAPPING

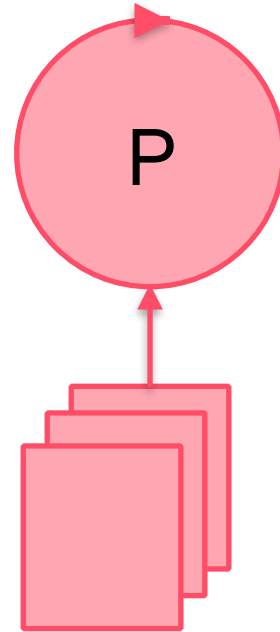
loop(function)



{:swap, new_function}

HOT CODE SWAPPING

loop(new_function)



GOOD RESOURCES

- learnyousomeerlang.com
- Programming Elixir
- Articles of Joe Armstrong
- Awesome Elixir @ GitHub

Summary

Message passing

Supervision Trees

Erlang VM

https://github.com/philippneugebauer/introduction_elixir_otp

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