# University of Kernt

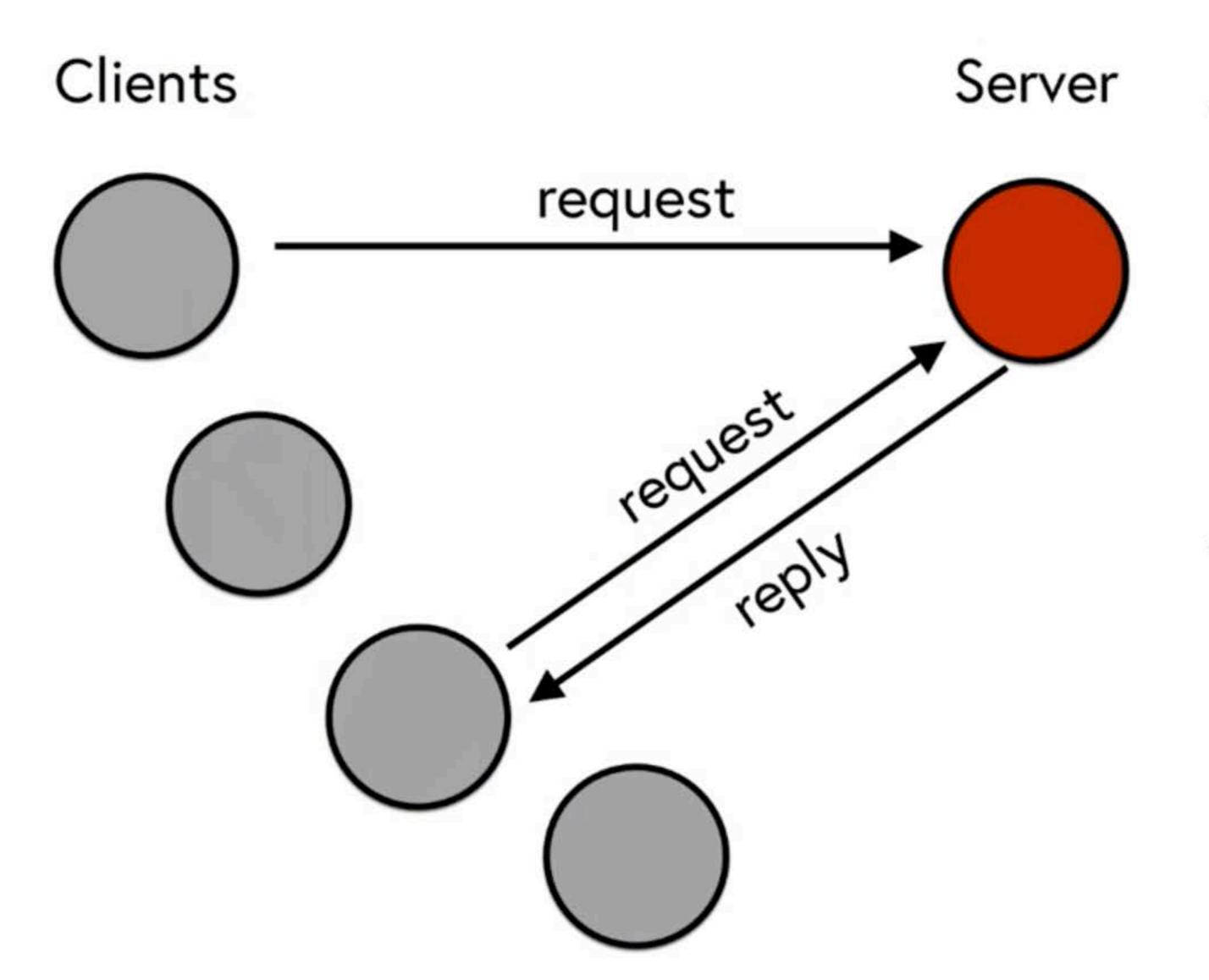


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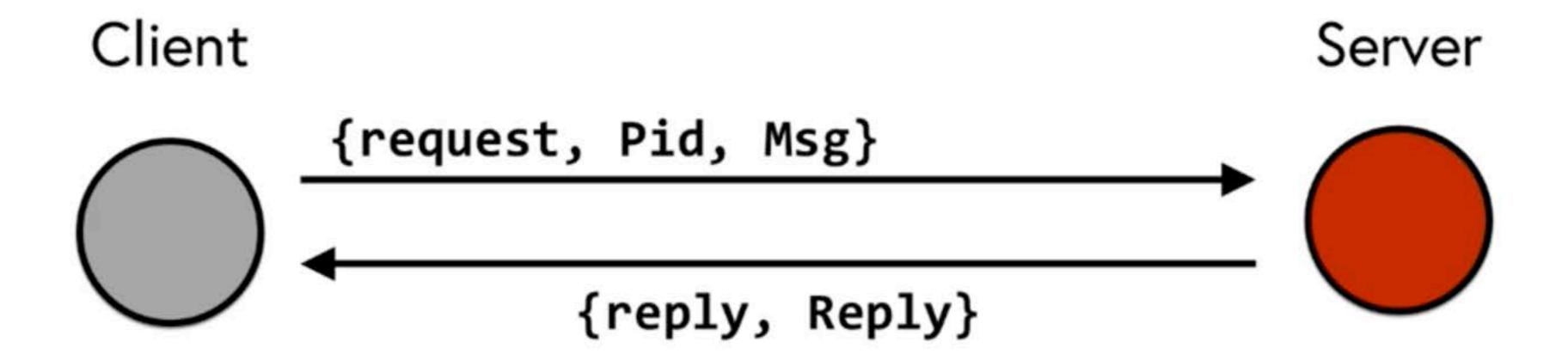






- If the client using the service needs a reply to the request, the call to the server has to be synchronous
- If the client does not need a reply, the call to the server can be asynchronous

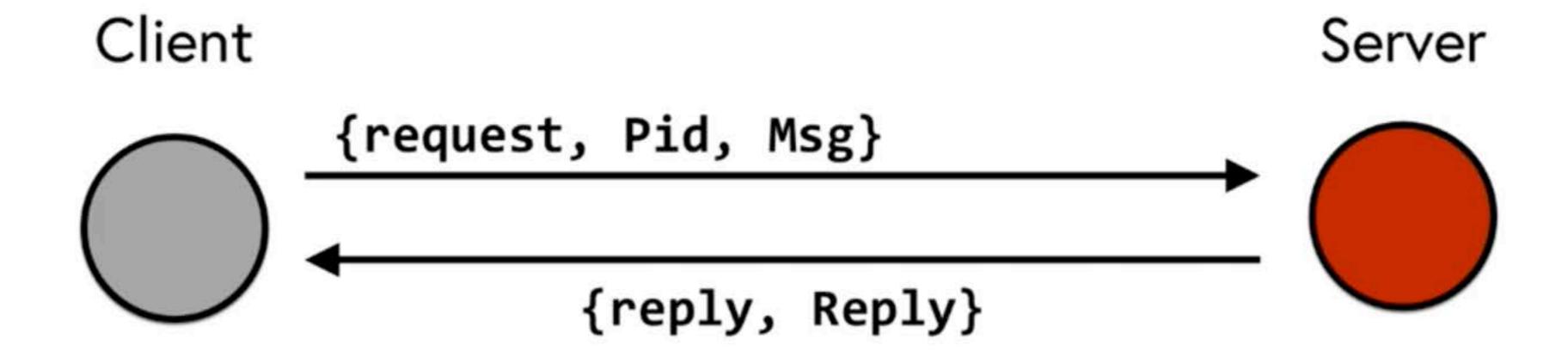




#### becomes

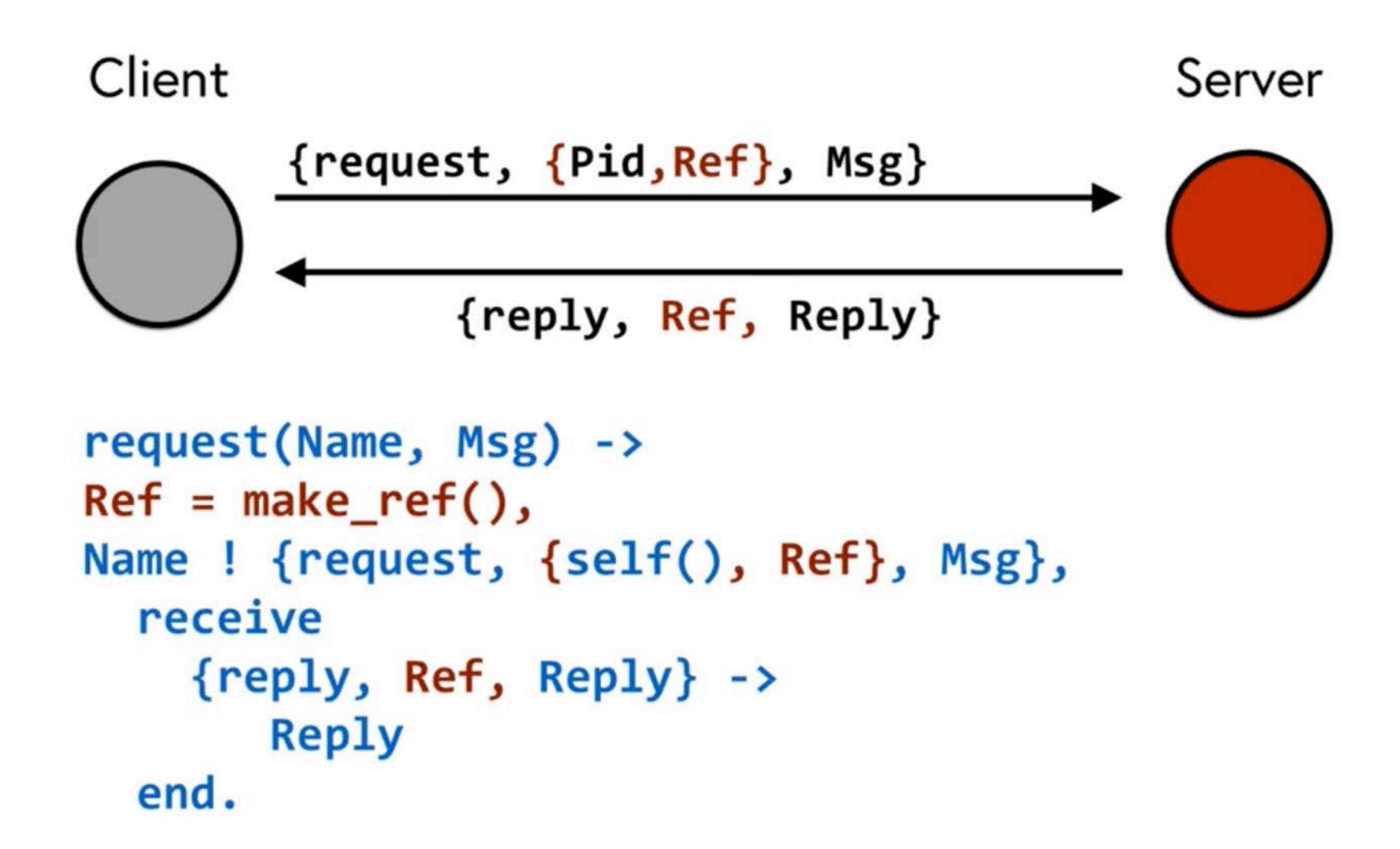
server:request(Msg) -> Reply



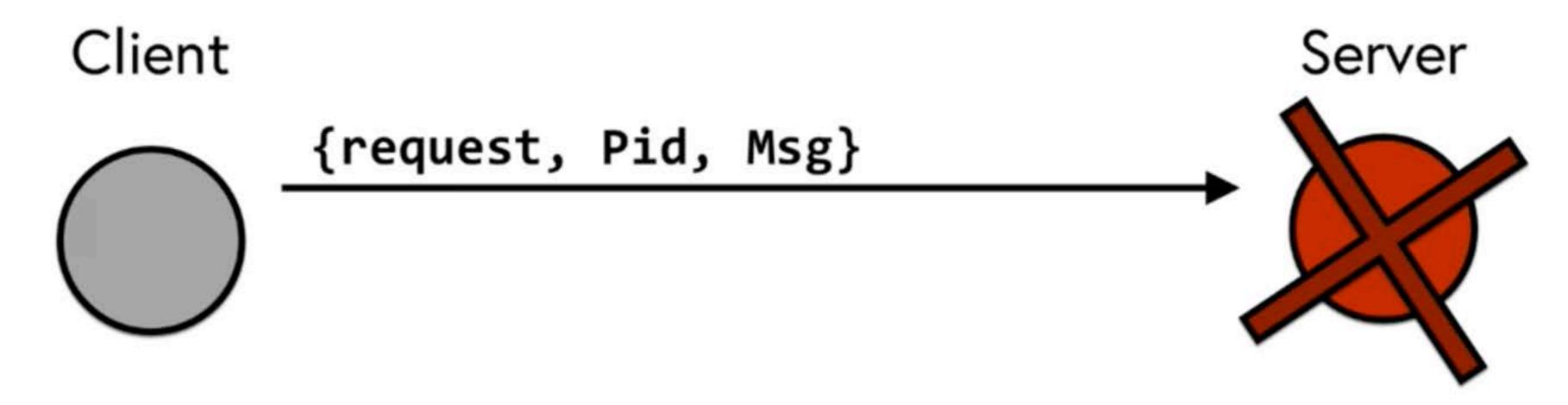


```
request(Name, Msg) ->
Name ! {request, self(), Msg},
receive
   {reply, Reply} ->
      Reply
end.
```

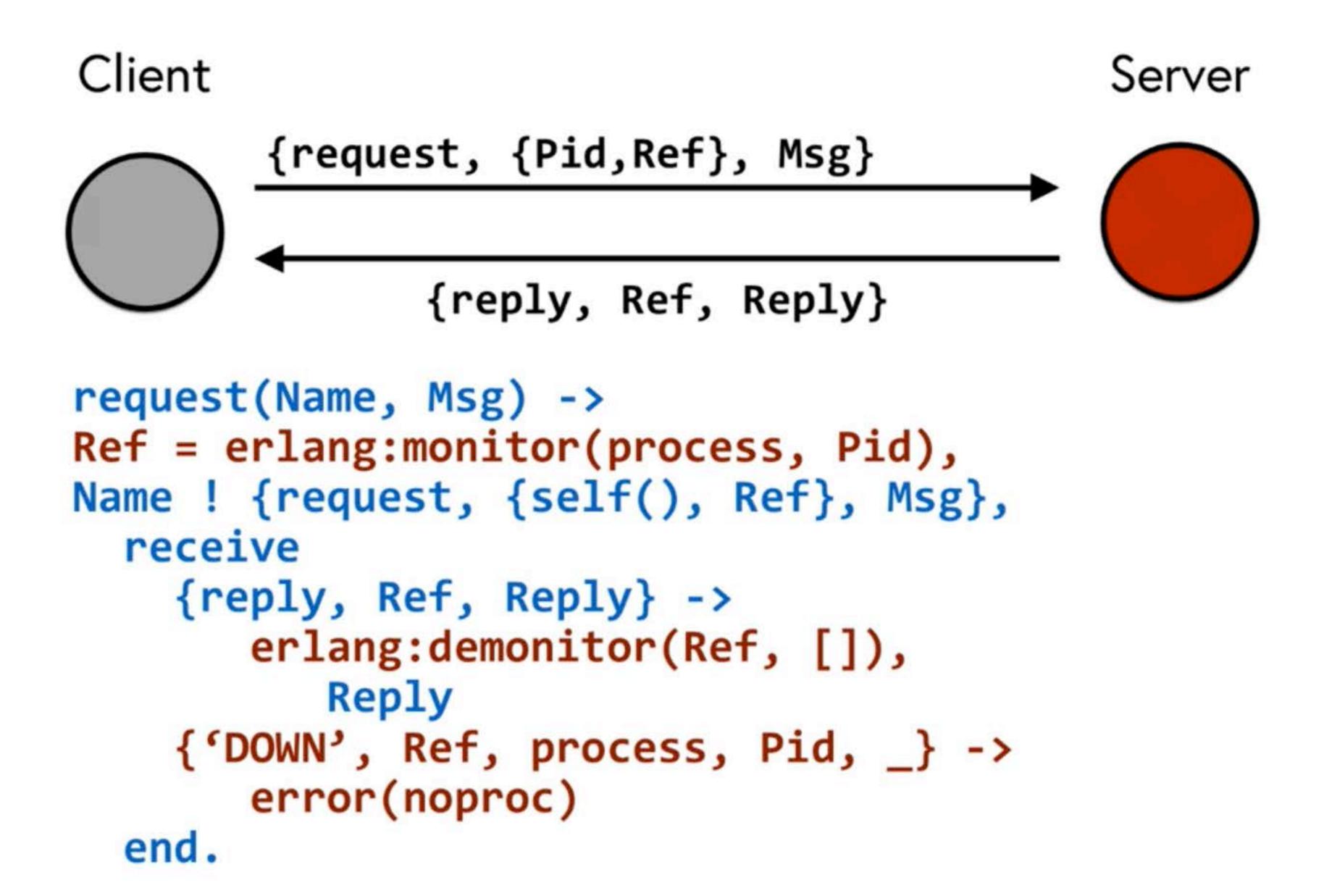




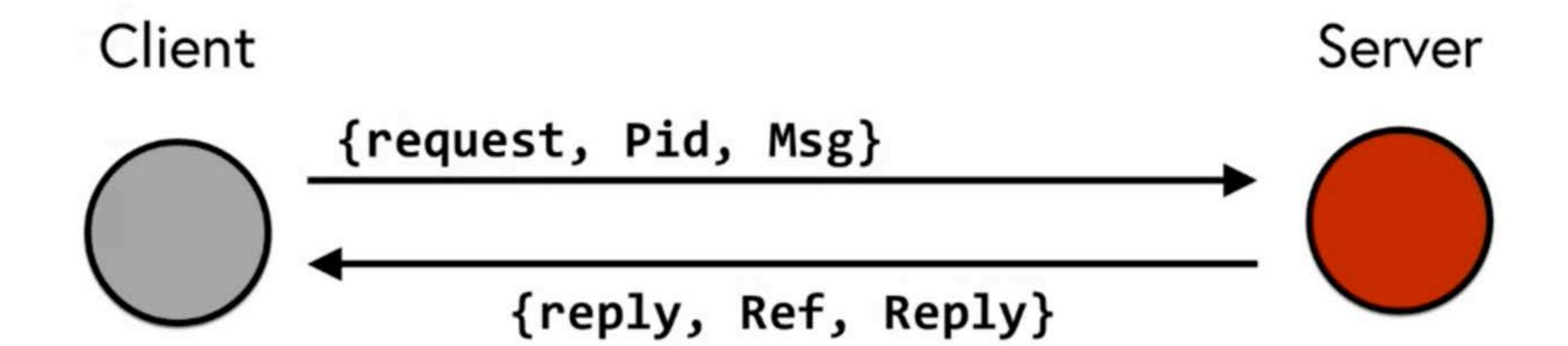




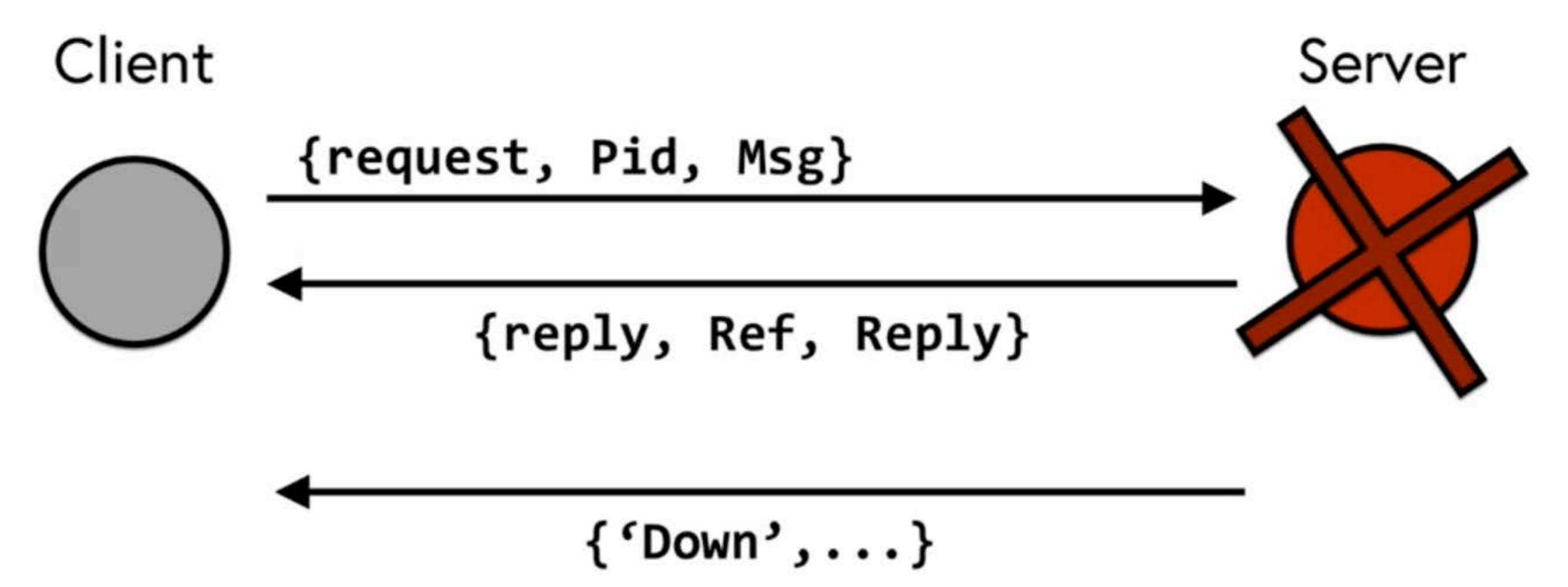




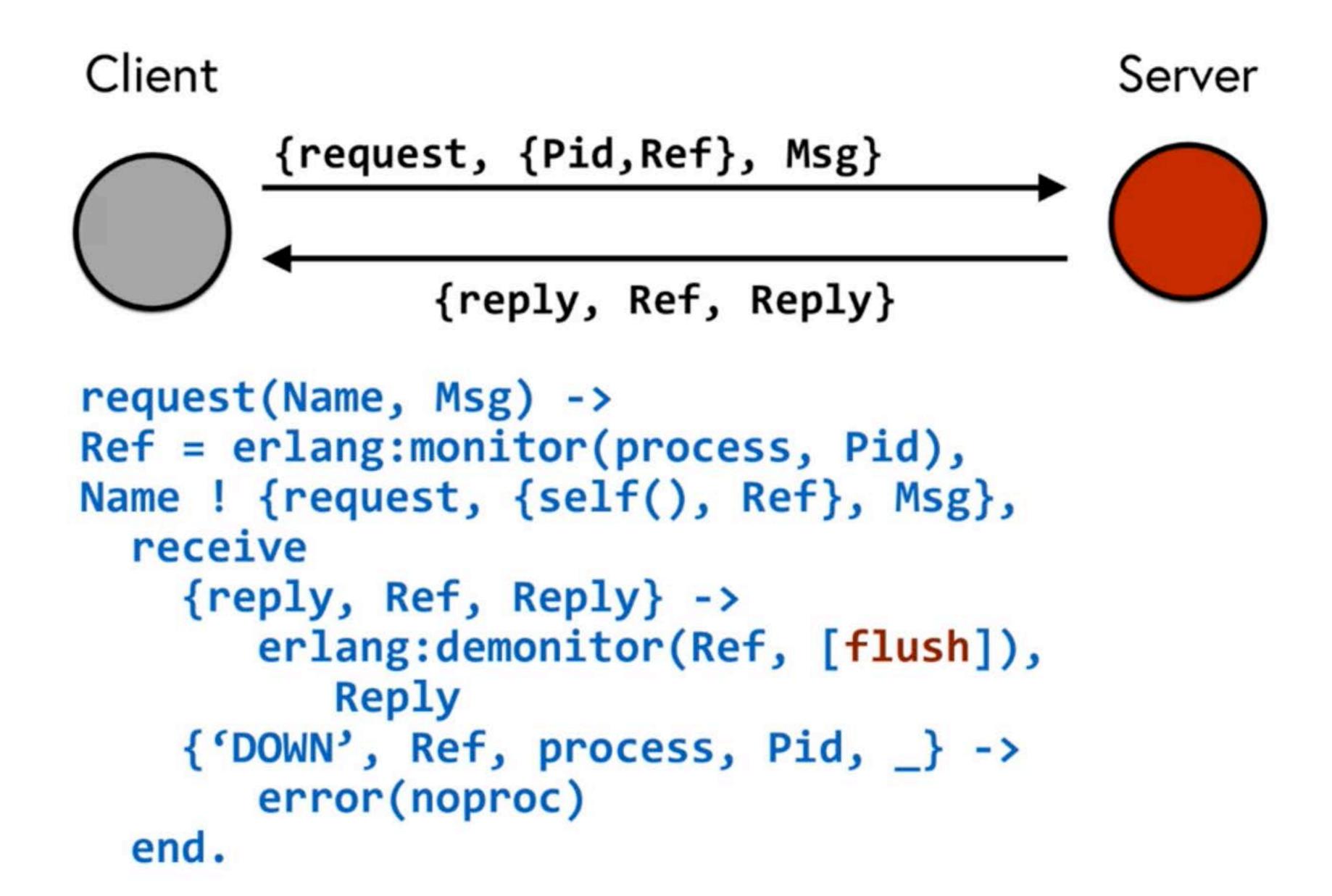














### Summary

- Understood the importance of abstracting message passing
- Looked at race conditions in concurrent systems
- A safe approach to sending and receiving requests

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