

# Join-Patterns for the Actor Model in Scala 3 using Macros

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|   | 15/03 | 01/04 | 15/04 | 01/05 | 15/05 | 01/06 | 15/06 | 01/07 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Quote matching, Constraint CaseDef:</b> <ul style="list-style-type: none"><li>- matching at comptime</li><li>- guards must be applications</li></ul> |       |       |       |       |       |       |       |       |
| <b>Implement Simple Algorithm:</b> <ul style="list-style-type: none"><li>- matches patterns</li><li>- maybe inefficient</li></ul>                       |       |       |       |       |       |       |       |       |
| <b>Code Generation:</b> <ul style="list-style-type: none"><li>- produce receive() method</li><li>- usable in class, function</li></ul>                  |       |       |       |       |       |       |       |       |
| <b>Implement Complex Algorithm:</b> <ul style="list-style-type: none"><li>- Rete ?</li></ul>  |       |       |       |       |       |       |       |       |
| <b>Possible Extensions:</b> <ul style="list-style-type: none"><li>- message ordering</li><li>- syntactic sugar</li></ul>                                |       |       |       |       |       |       |       |       |
| <b>Create Samples:</b> <ul style="list-style-type: none"><li>- use cases</li><li>- use cases using Akka</li></ul>                                       |       |       |       |       |       |       |       |       |
| <b>Produce results:</b> <ul style="list-style-type: none"><li>- run benchmarks</li><li>- aggregate data</li></ul>                                       |       |       |       |       |       |       |       |       |
| <b>Write report</b>   |       |       |       |       |       |       |       |       |

Legend:



Core



Finalize



Report