

# AngularConf 2015



## EVENT DRIVEN GAME ENGINE CON ANGULARJS

ANGULARCONF, 2014-10-22 - TURIN

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# GAME ENGINE

## «TURN BASED»

# EVENT DRIVEN

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#ANGULARCONF15

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# CON ANGULARJS

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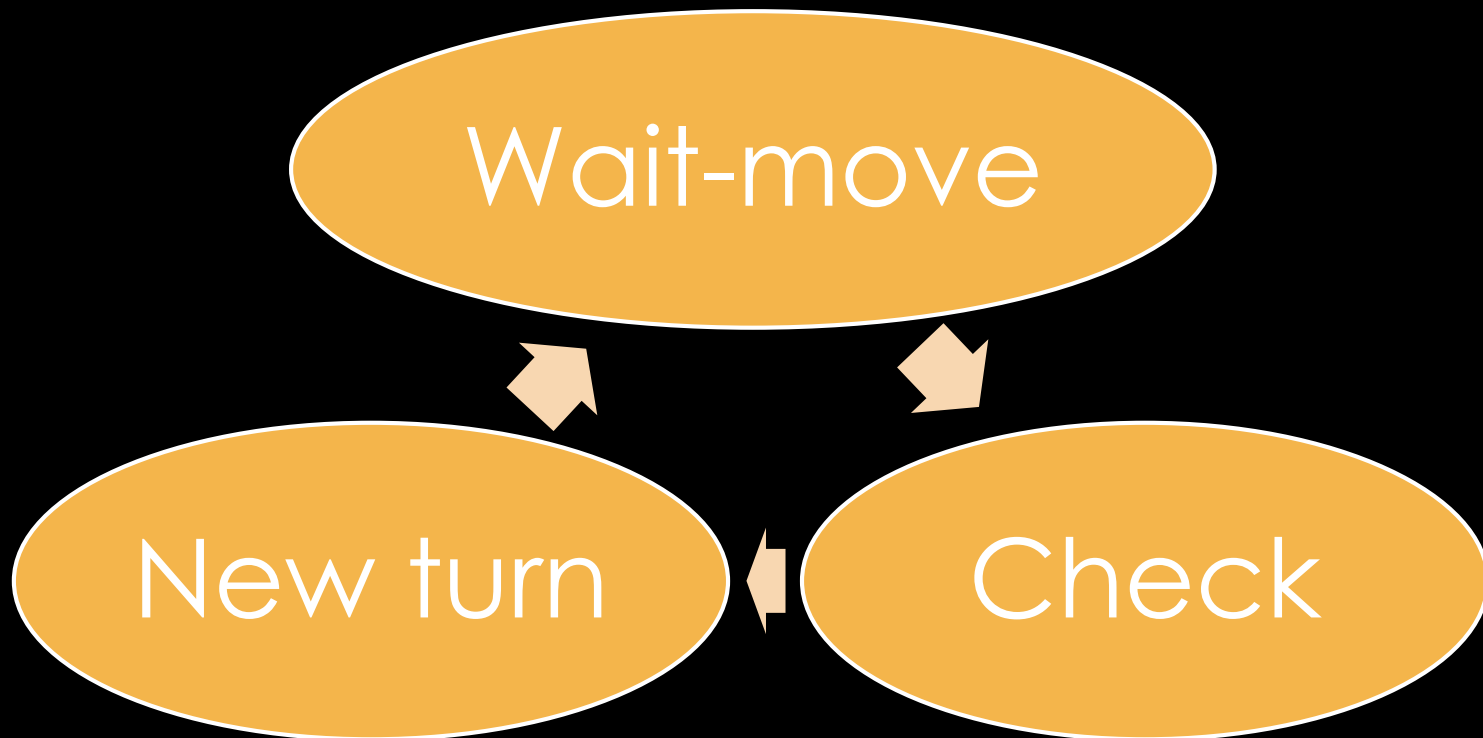
#ANGULARCONF15

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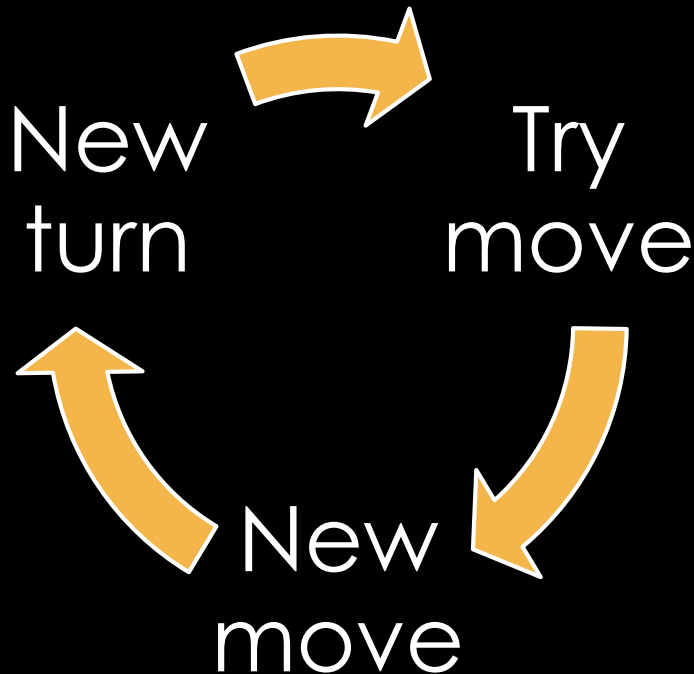
# GAME ENGINE

- MACCHINA A STATI (FSA)
- EVENT MANAGER
- CANALE DI COMUNICAZIONE

# MACCHINA A STATI



# EVENT MANAGER



# CANALE DI RETE

- IN MEMORIA
- LOCALE
- SOCKET REMOTI



# MACCHINA A STATI

- OGGETTO JAVASCRIPT
- INCAPSULATO IN UN SERVIZIO

# UI

GESTIONE DEGLI EVENTI DELLA  
**MACCHINA A STATI** TRAMITE  
**DIRETTIVA** DISACCOPIATA  
DALLA UI

# EVENT MANAGER

\$SCOPE HA GIÀ DEI METODI

- \$BROADCAST
- \$ON

# CANALE DI RETE

- \$SCOPE
- SOCKET.IO

# MACCHINA A STATI

```
var service = $rootScope.$new(true);
service.init = init;
service.getState = getState;
service.tryMove = tryMove;
service.checkWin = checkWin;
service.newGame = newGame;

return service;
```

# UI

```
function link(scope, element, attrs) {
  var service= TicTacToeService;
  scope.tictactoe = {};
  scope.tictactoe.currentState = null;

  service.$on("start", function(event, currentState) {
    scope.team = currentState.team;
    scope.currentState = angular.copy(currentState);
  });

  service.$on("new-move", function(event, data) {
    scope.currentState = data.currentState;
  });
}
```

# EVENT MANAGER

```
// NEL SERVIZIO
service.$broadcast("start", angular.copy(state) );

// NELLA DIRETTIVA
service.$on("start", function(event, currentState) {
  scope.team = currentState.team;
  scope.currentState = angular.copy(currentState);
});
```

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# DEMO

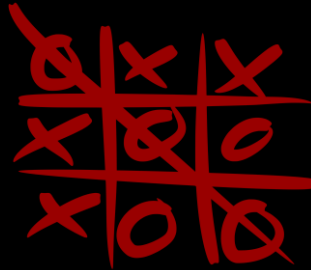
[bit.ly/NG-TRIS](http://bit.ly/NG-TRIS)



# CANALE DI RETE

```
angular
  .module('ngconf2015')
  .factory('socket', function() {
    return io.connect('http://server.io');
  });
```

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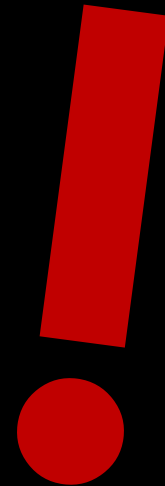
# DEMO

## [bit.ly/NG-TRIS-2](http://bit.ly/NG-TRIS-2)

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# THANKS!



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## [bit.ly/NG-TRIS-REPO](https://bit.ly/NG-TRIS-REPO)

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