

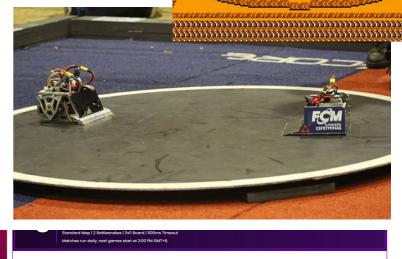
# Research Topic

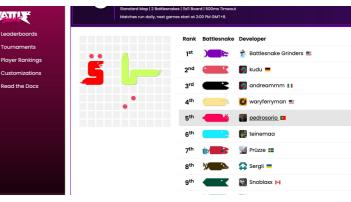
by Bagus

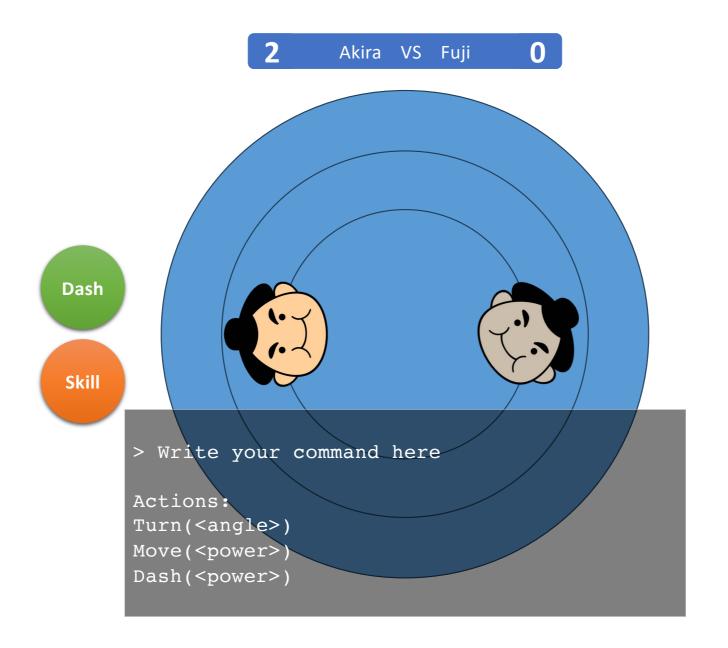
## Sumobot: Al Competition Platform

# 1. Pacing-based Challenge in Sumobot

- Create the core gameplay
  - 2 Modes: real-time & turn-based
  - Live code feature
- Embed pacing-based challenge
  - · Create NPC AI that follows the intended pace
- Contribution
  - Al competition platform, where student can use as a portfolio
  - Provide the resource to learn programming

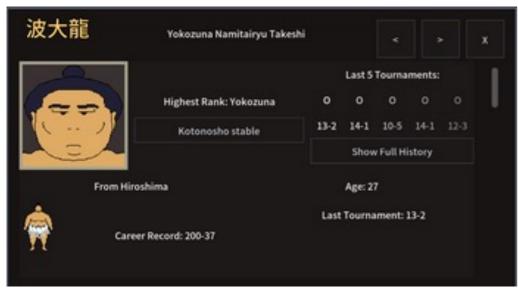














## Sumobot: AI Competition Platform

#### 2. Procedural Contents on Sumobot

- Procedural contents using pacing
  - Avatar: skin, dialog
  - Environment: arena, crowds
  - FX: damage, smoke
- Features
  - Mixing (visual & stats)
  - Marketable generated contents
  - Level editor



- Contribution
  - Evolution-based market to enhance the player experimentation.



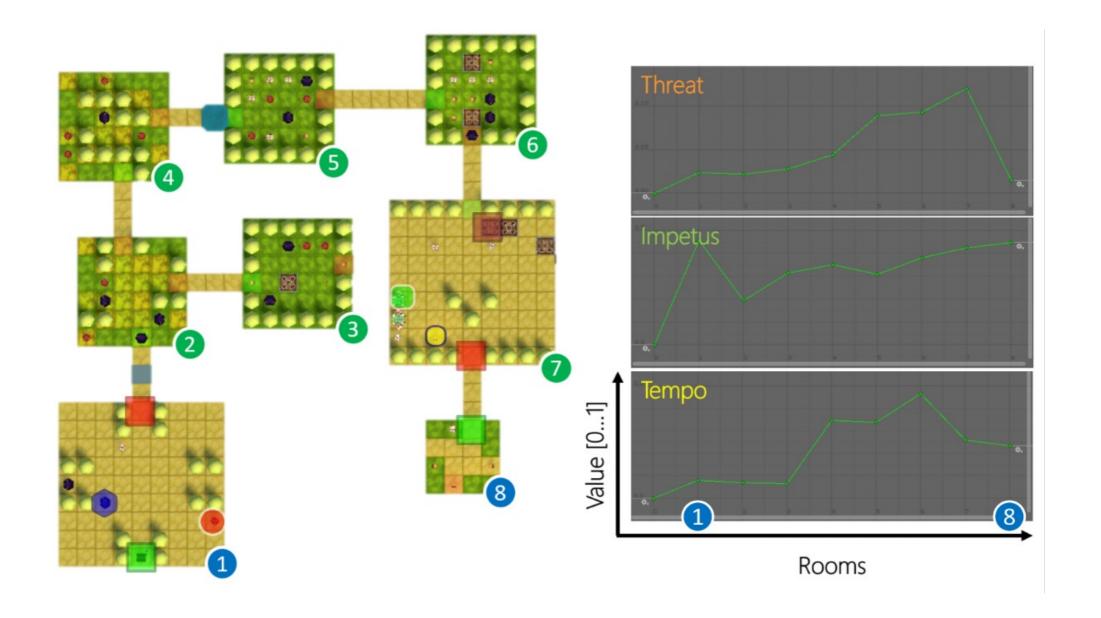


Experimentation → Replayability

## Sumobot: AI Competition Platform

# 3. Action-level, branching & strategy modelling

- Action-level pacing
  - Action scale game pacing segmentation
- Pacing branching
  - Define possible actions and its resulting pacing
- Strategy modelling
  - Pacing as strategy modelling (actions → trees of actions → strategy)
- Contribution
  - Conceptual of strategy modelling using pacing



#### Pacing is used as a kind of strategy modelling

