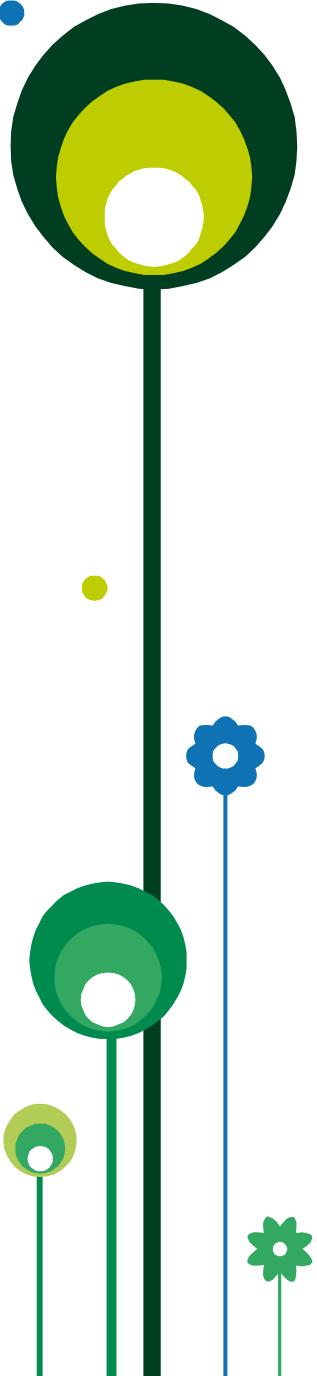


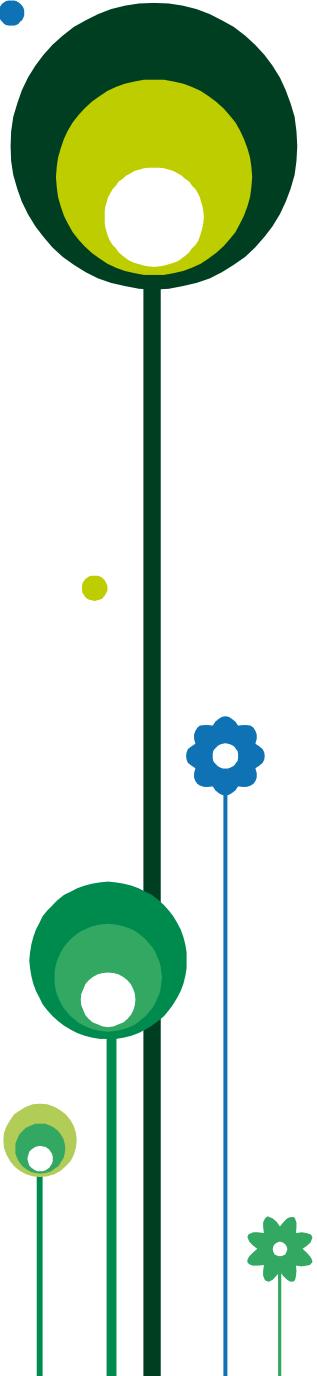
Genetic algorithms(GA) & video-games



Introduction

- GA – brief description
- Balance(game design)
 - Flow theory
 - Run-time
 - Design-time

Your footer comes here



GA

- Heuristic search
- Boxcar2D
 - Fitness function
 - Process
 - Inicial phase
 - Selection,Mutation
 - Crossover
 - Next generation

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Flow-theory

Challenge

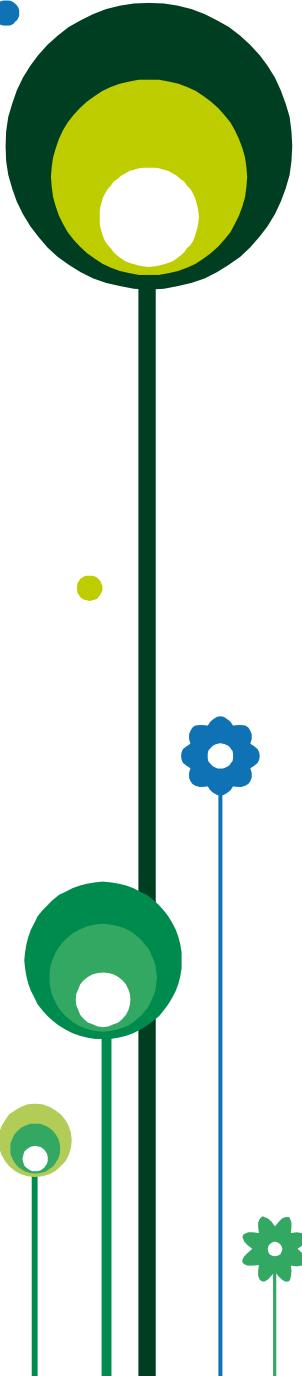
ANXIETY

FLOW

BOREDOM

Abilities

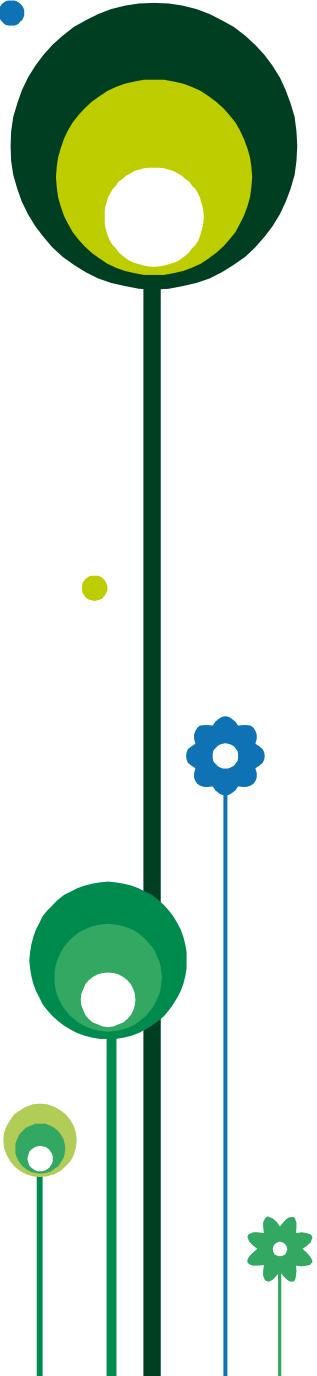
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Run-time

- InvAiders
 - Goals
 - GA
 - Results

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Design-time

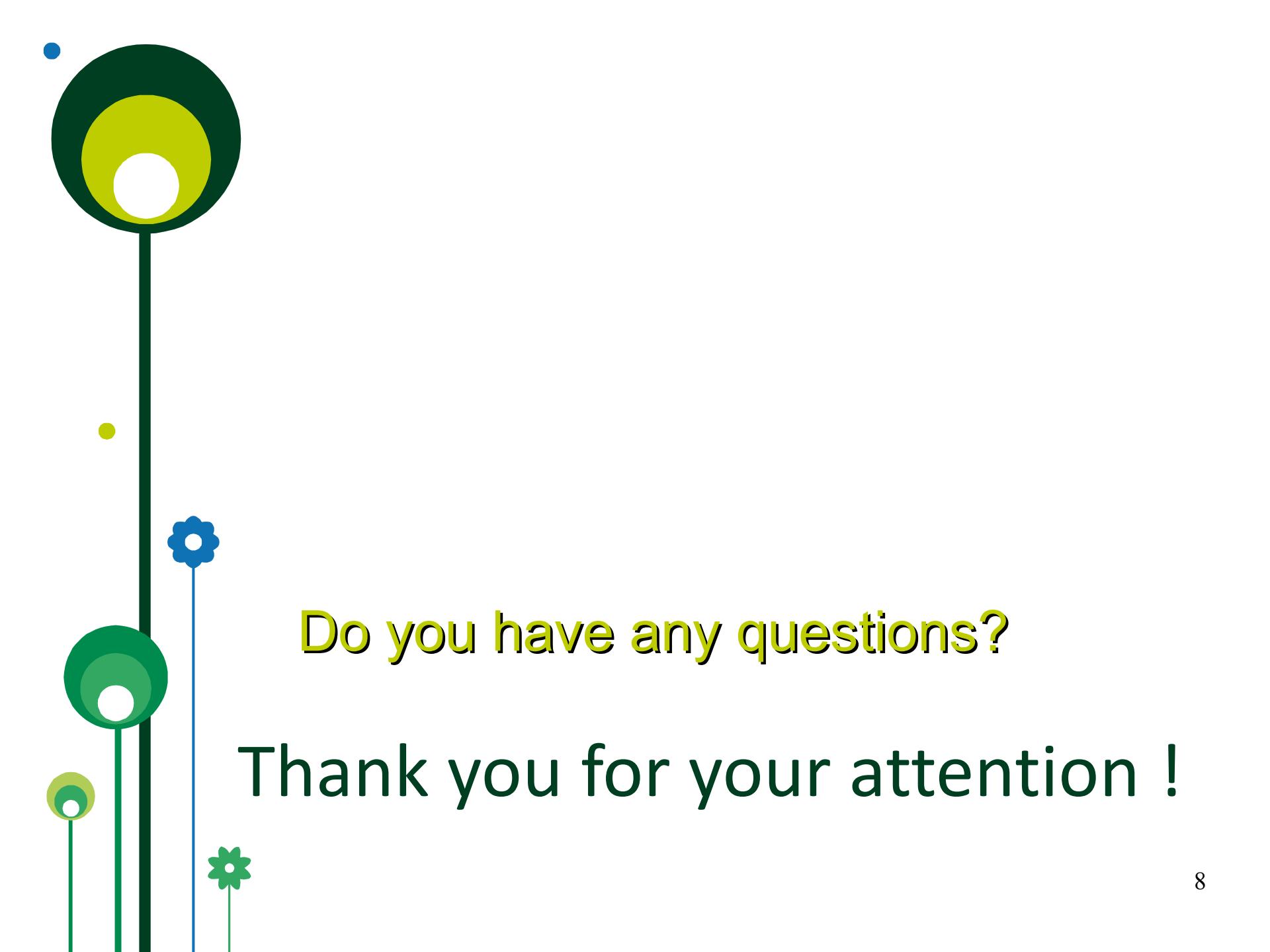
- Towers of Reus
 - Designer tool
- NERO
 - Neuro-evolution

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Conclusions

- Pros
 - Usable on large scale of problems
 - Simple implementation
- Cons
 - Slow
 - Not very well described
 - i.e. lack solid convergence theory
 - Local extremes



Do you have any questions?

Thank you for your attention !