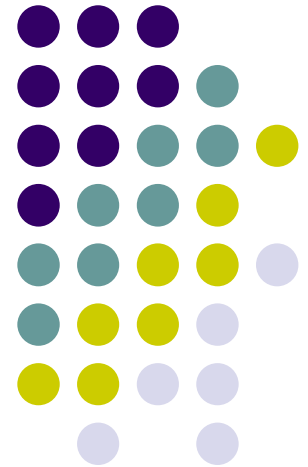


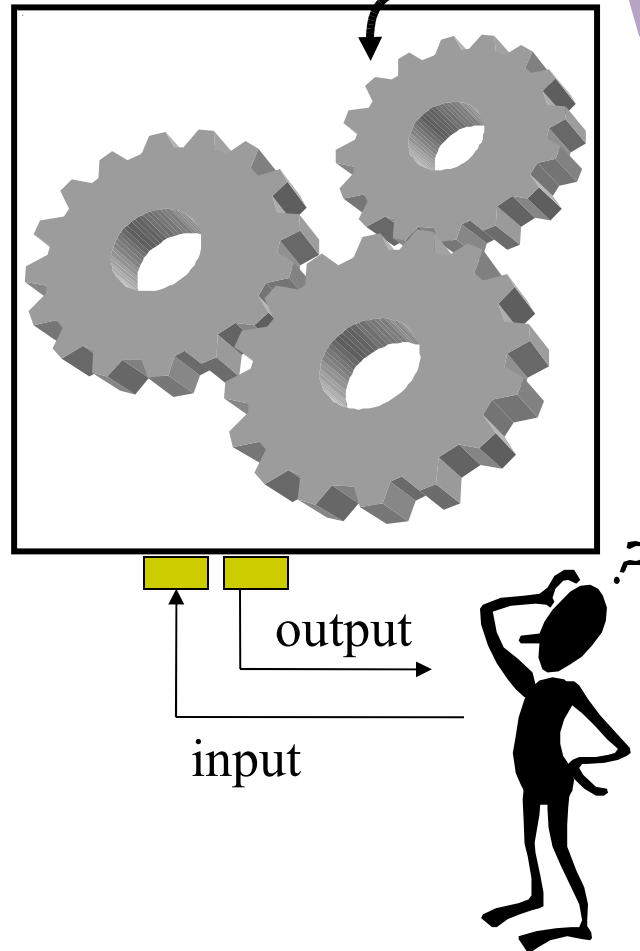
Test de Systèmes Informatiques

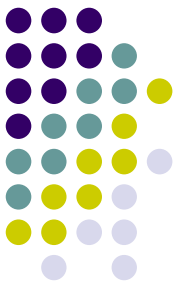
**Systèmes Informatiques et
Infrastructures
Algorithmique et
Programmation**



What is Testing of IT Systems about?

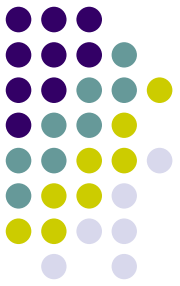
- A system is a dynamic entity, embedded in the physical world
- It is observable via some limited interface/procedure
- It is not always controllable
- Quite different from a piece of text (formula, program) or a diagram





Theories and Tools

- Mise à niveau (\pm cours de GL de L3)
- Test Methods
 - Model-based Tests (Data and Behaviour)
 - Structural Tests (based on program tests)
 - Statistical Tests
 - Runtime Tests (observations and diagnostics)
- Test Theory
 - Exhaustive Testing / Modeling / Conformance
 - Selection of Test Hypothesis
- Tools along these methods, based on these theories:
 - AuGuSTe (LRI)
 - HOL-TestGen
 - > Pathfinder, Pex, Torx,



Contributors

- Burkhardt Wolff, LRI,
 - *modeling languages, data-type based tests*
 - *program-based tests*
- Marie-Claude Gaudel, LRI
- Frédéric Voisin, LRI
- Fatiha Zaidi, LRI, *test passif, principes et outils*