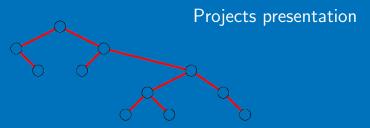




junior professor, Université Paris-Sud Orsay viviane.pons@lri.fr – @PyViv

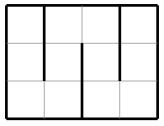
# Experimental Combinatorics using Sage



EAUMP summer school 2015

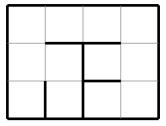
# Random Labyrinth





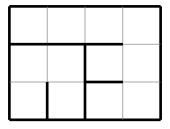
A **labyrinth** is a rectangular enclosure of some  $1 \times 1$  square rooms that can be separated by some walls such that:

- 1. All rooms are connected by a wall-free path
- 2. There is no loop

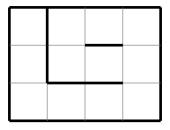


A **labyrinth** is a rectangular enclosure of some  $1 \times 1$  square rooms that can be separated by some walls such that:

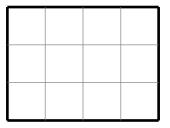
- 1. All rooms are connected by a wall-free path
- 2. There is no loop

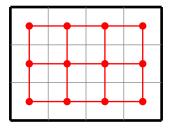


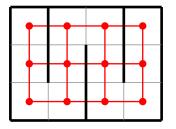
Not a labyrinth

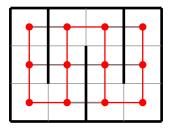


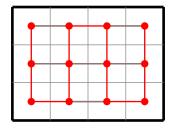
Not a labyrinth



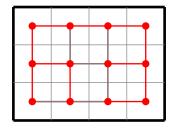




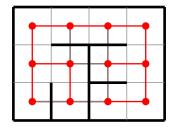




A labyrinth is a **spanning tree** of a given graph.



A labyrinth is a spanning tree of a given graph.



A labyrinth is a spanning tree of a given graph.