Lab01: Spread of Forest Fires and Infectious Disease

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Code and test case

Experiment 1

Considering a dry forest with the following parameters:

```
# Grid setup
Nx = 250     # Points in the x-direction
Ny = 250     # Points in the y-direction

# Probability that a cell is on fire
prob.start_fire = 0.000025

# Probability a neighboring node catches fire
prob.catch_fire = 1
```

Since the probability of cell catching fire initially is very low, only a few points are on fire initially (Fig 1).

img1