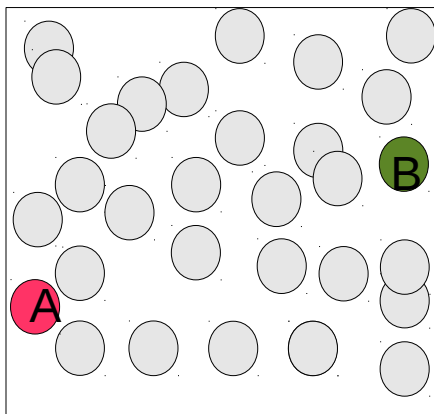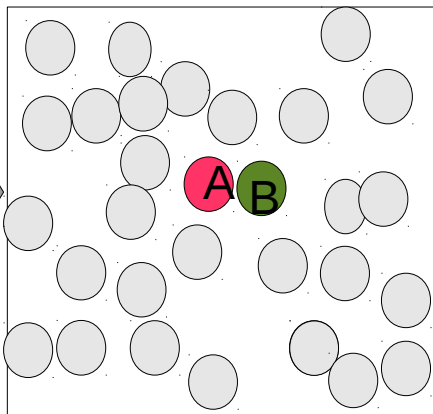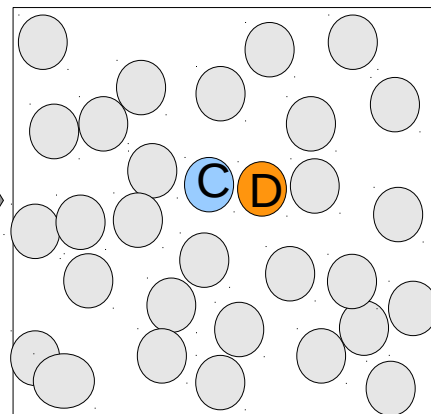$$A(g) + B(g) \rightleftharpoons C(g) + D(g)$$

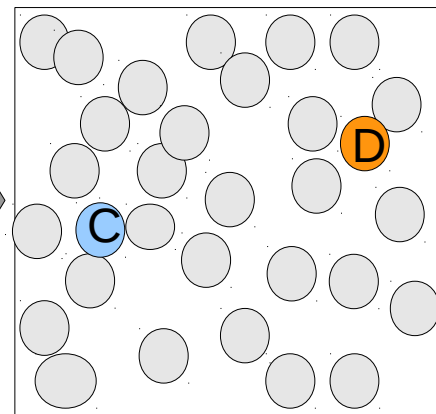Addition of **A** and **B** to the system

Species **A** and **B** meet

Reaction between **A** and **B**, producing **C** and **D**

Species **C** and **D** move apart

Random movement of (reactants) molecules with a probability to collision

Activation and reaction

Random movement of (products) molecules

Reaction Process