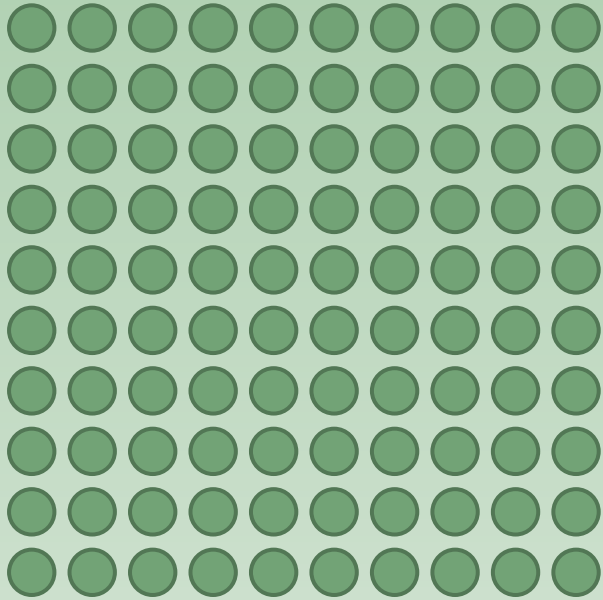
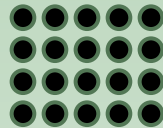


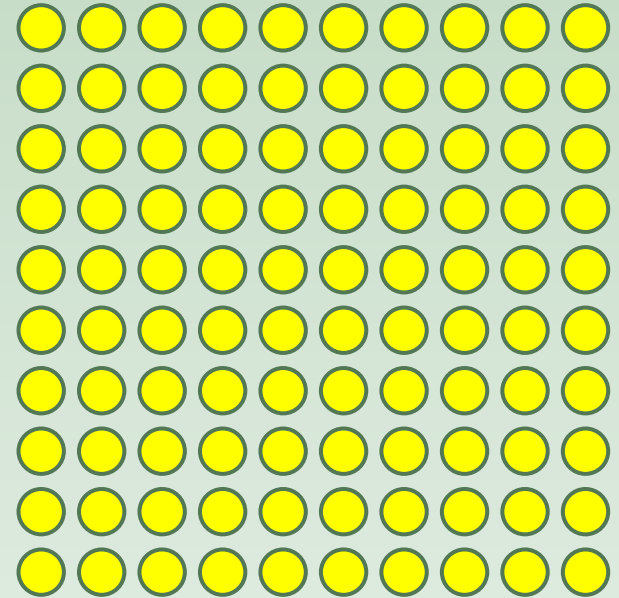
FASE 1



SOLUTO

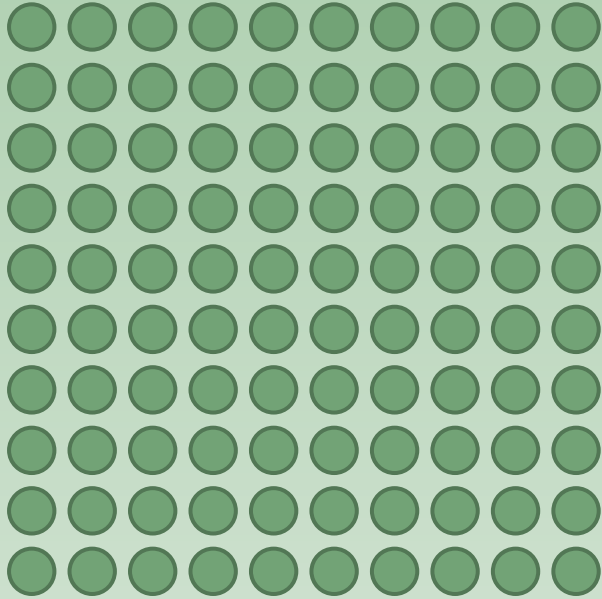


FASE 2

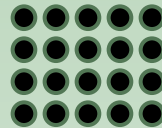


Fasi, componenti, concentrazioni, equilibrio

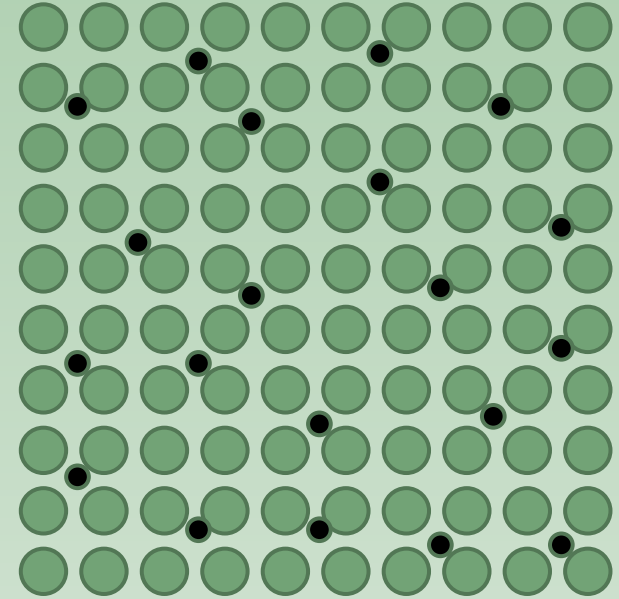
FASE 1



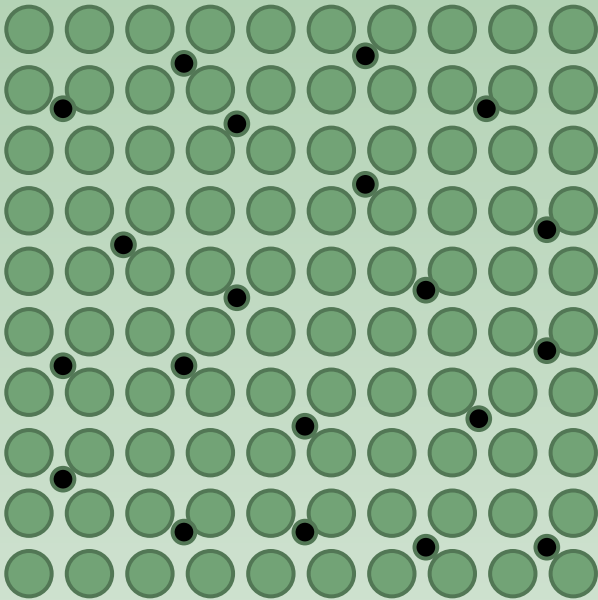
SOLUTO



FASE 1 + SOLUTO



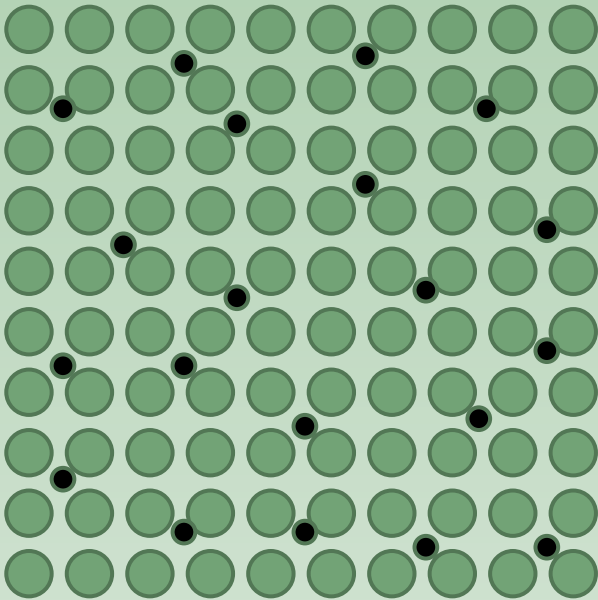
FASE 1 + SOLUTO



FRAZIONE

$$x_s = \frac{\text{numerosità (soluto)}}{\text{numerosità (soluto + solvente)}} = \frac{20}{20 + 100}$$

FASE 1 + SOLUTO

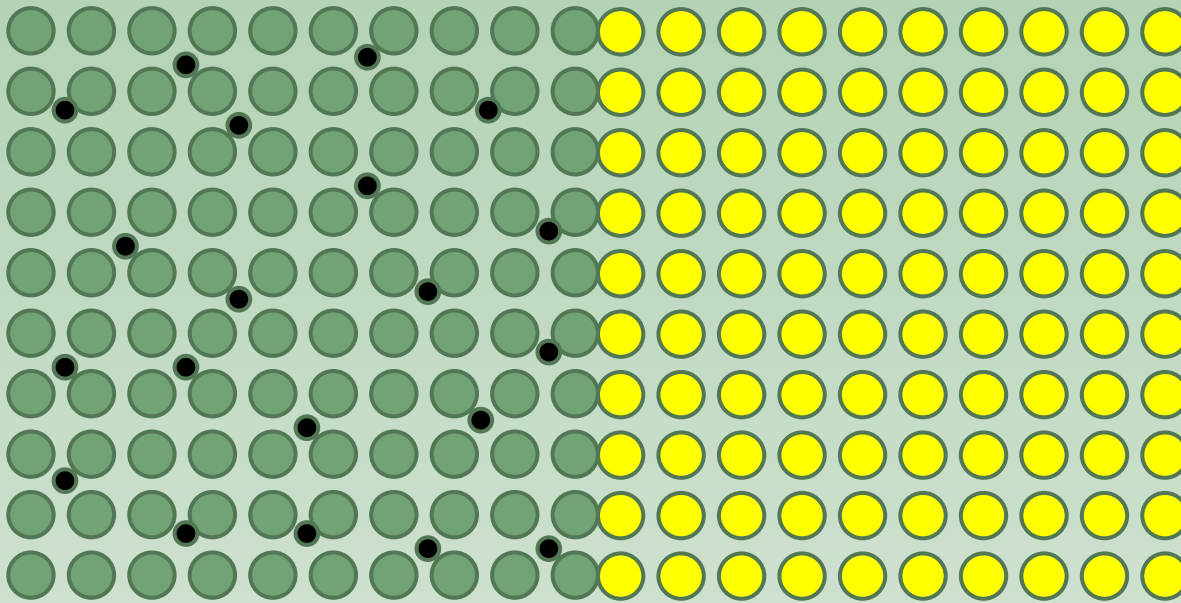


RAPPORTO

$$X_s = \frac{\text{numerosità (soluto)}}{\text{numerosità (solvente)}} = \frac{20}{100}$$

FASE 1 + SOLUTO

FASE 2



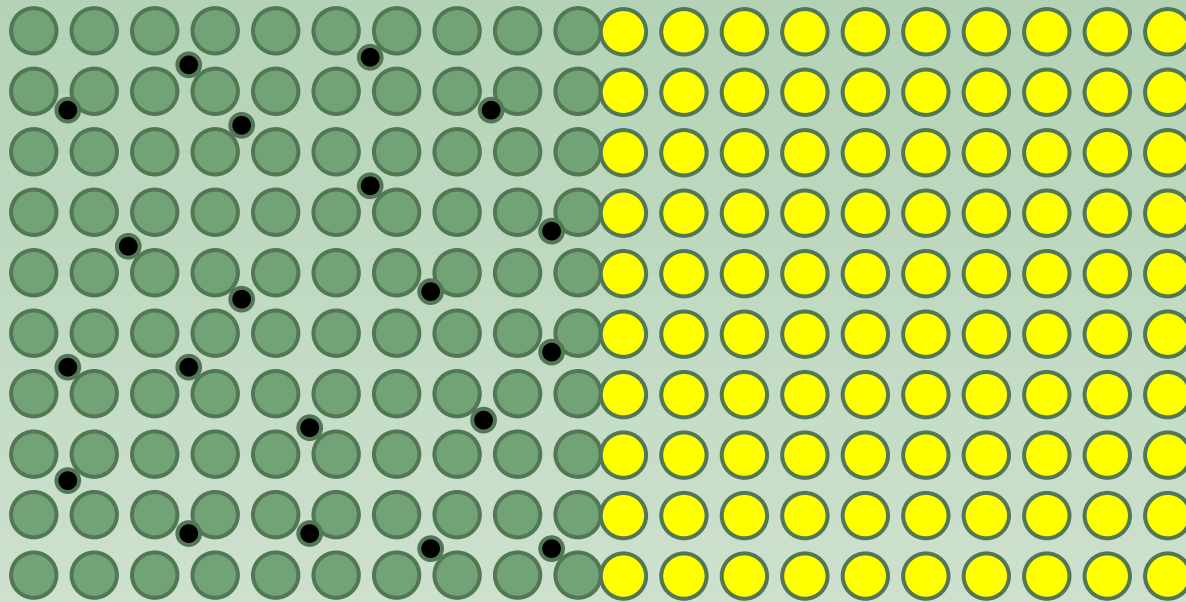
interfase

CONTATTO TRA LE FASI

Fasi, componenti, concentrazioni, equilibrio

FASE 1 + SOLUTO

FASE 2



TRASPORTO TRA LE FASI

$$x_s = \frac{15}{100 + 15}$$

$$y_s = \frac{5}{100 + 5}$$

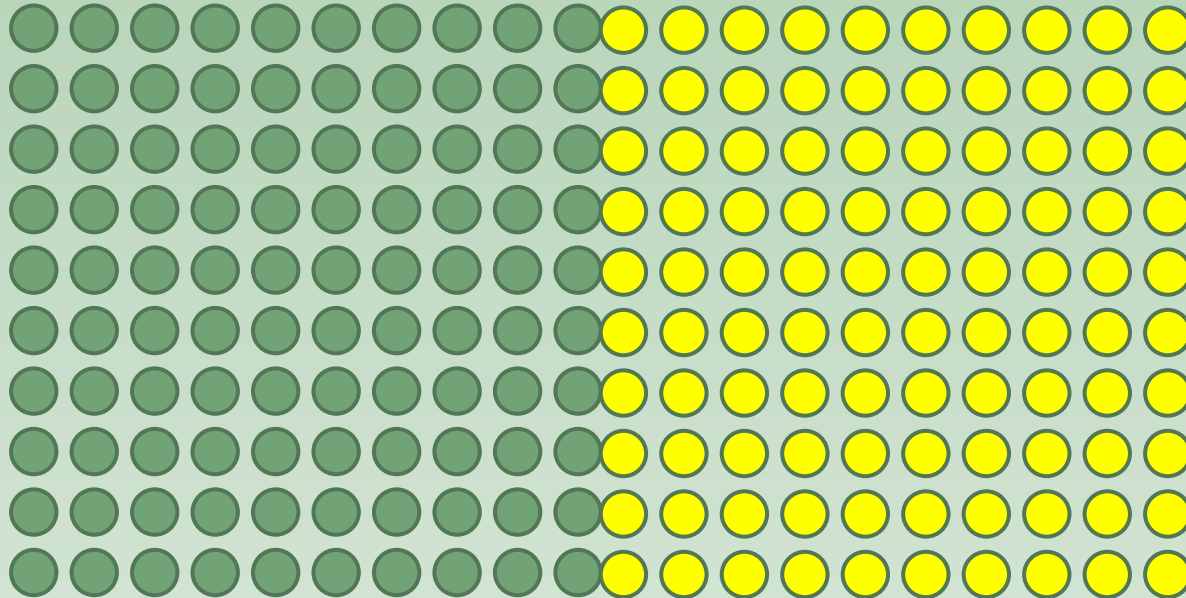
$$K(T) = \frac{y_s}{x_s} = 0.365$$

PARTIZIONE DI EQUILIBRIO TRA LE FASI

Fasi, componenti, concentrazioni, equilibrio

FASE 1

FASE 2

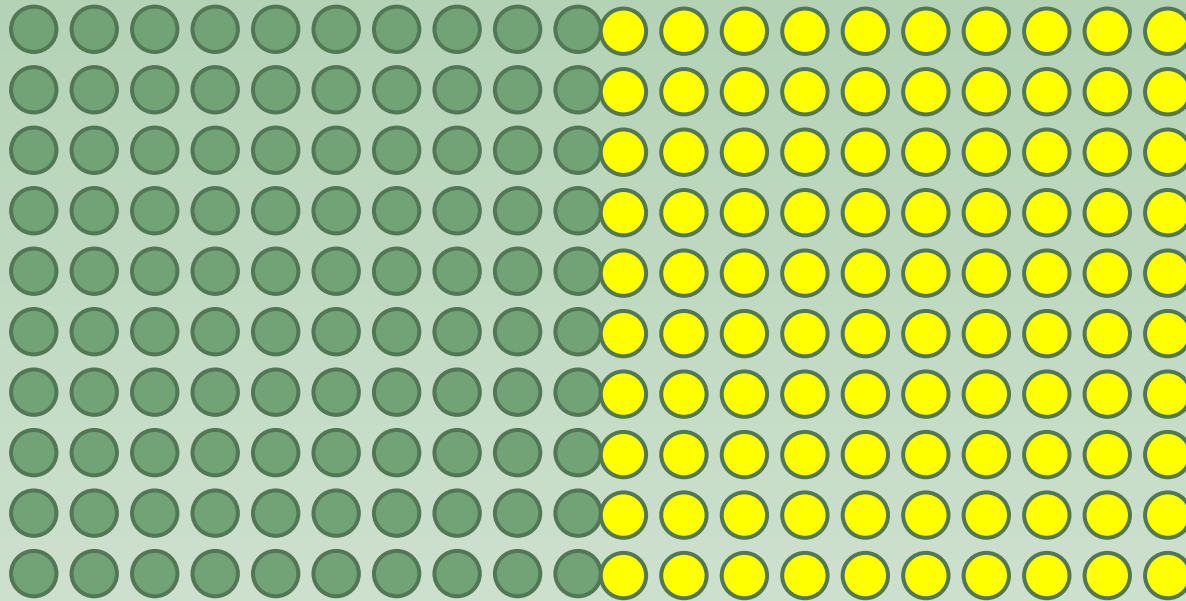


FASI PARZIALMENTE SOLUBILI

Fasi, componenti, concentrazioni, equilibrio

FASE 1

FASE 2



$$x = \left[\frac{\text{verde}}{\text{verde} + \text{giallo}} \right]_1$$

$$y = \left[\frac{\text{verde}}{\text{verde} + \text{giallo}} \right]_2$$

Fasi, componenti, concentrazioni, equilibrio

$$x = \left[\frac{\text{verde}}{\text{verde} + \text{giallo}} \right]_1$$

$$y = \left[\frac{\text{verde}}{\text{verde} + \text{giallo}} \right]_2$$

$$x = 0.3$$

$$\text{verde}_0 = 100$$

$$y = 0.6$$

$$\text{giallo}_0 = 100$$

$$(K = 2)$$

$$\text{verde}_1 = 20.00$$

$$\text{giallo}_1 = 46.67$$

$$\text{totale}_1 = 66.67$$

$$\text{verde}_2 = 80.00$$

$$\text{giallo}_0 = 53.33$$

$$\text{totale}_1 = 133.33$$

Fasi, componenti, concentrazioni, equilibrio

$$V_0 = V_1 + V_2$$

$$g_0 = g_1 + g_2$$

Bilanci di materia

$$K = \frac{y}{x}$$

Coefficiente di partizione tra le fasi (termodinamica)

$$x = \frac{V_1}{V_1 + g_1}; y = \frac{V_2}{V_2 + g_2}$$

Espressione delle concentrazioni

$$K_{g,v} = \frac{y}{1-y} \frac{1-x}{x}$$

Partizione relativa

$$\frac{v_1}{v_0} = \frac{\left[1 + \left(\frac{g_0}{v_0} \right) \right] K_X - 1}{(K - 1)}$$