



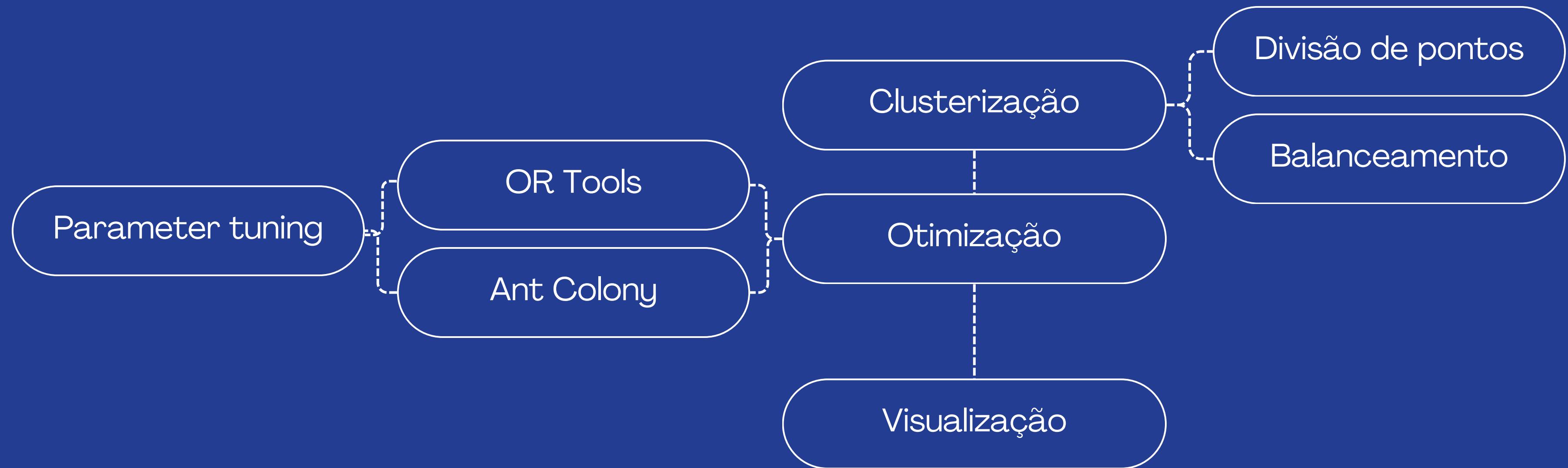
AÉGIS

Sprint Review 04

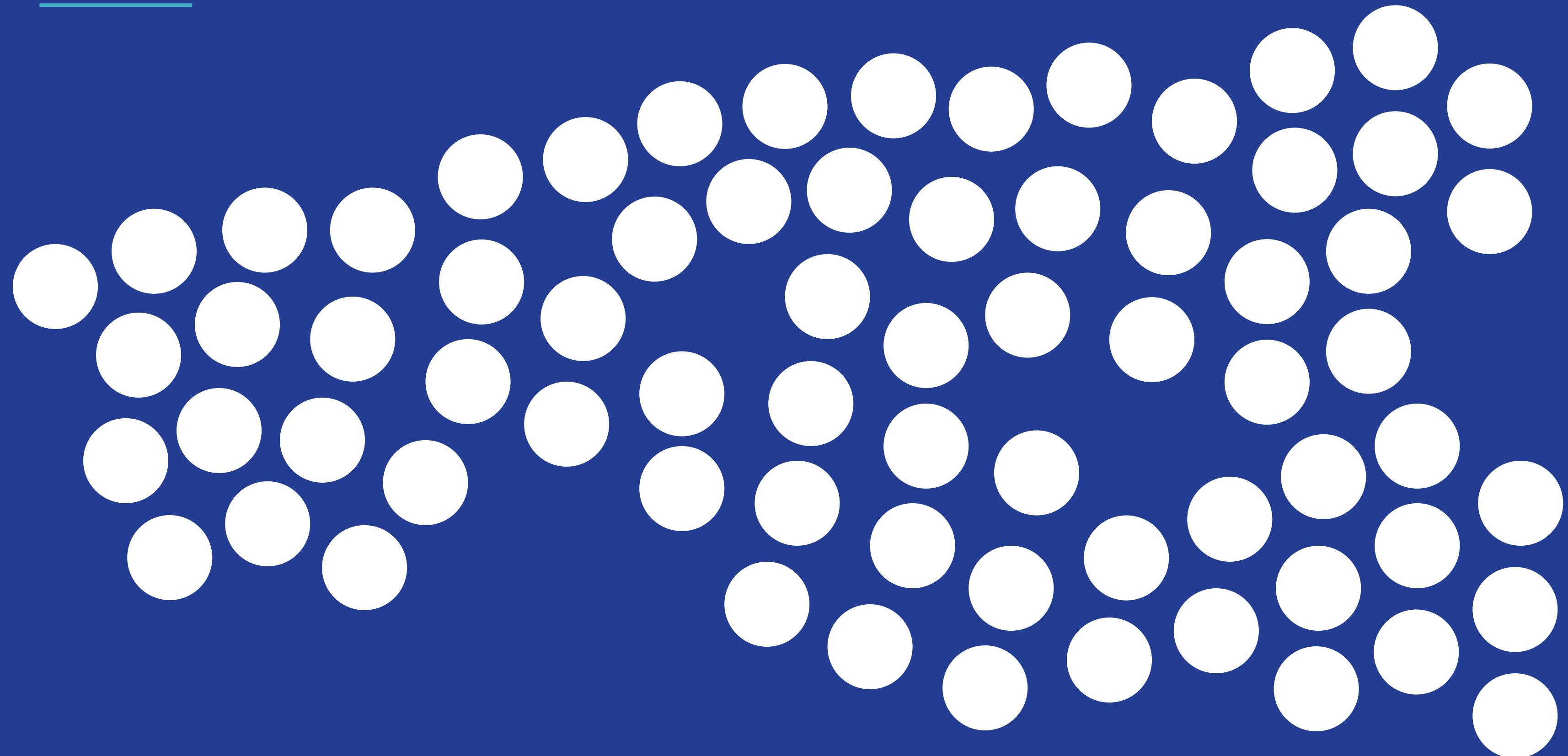
Let's bora



Passos para resolução do problema



Clusterização



Clusterização - divisão dos pontos

Entrada de dados: 378.300

Intervalo de pontos: 300 - 400

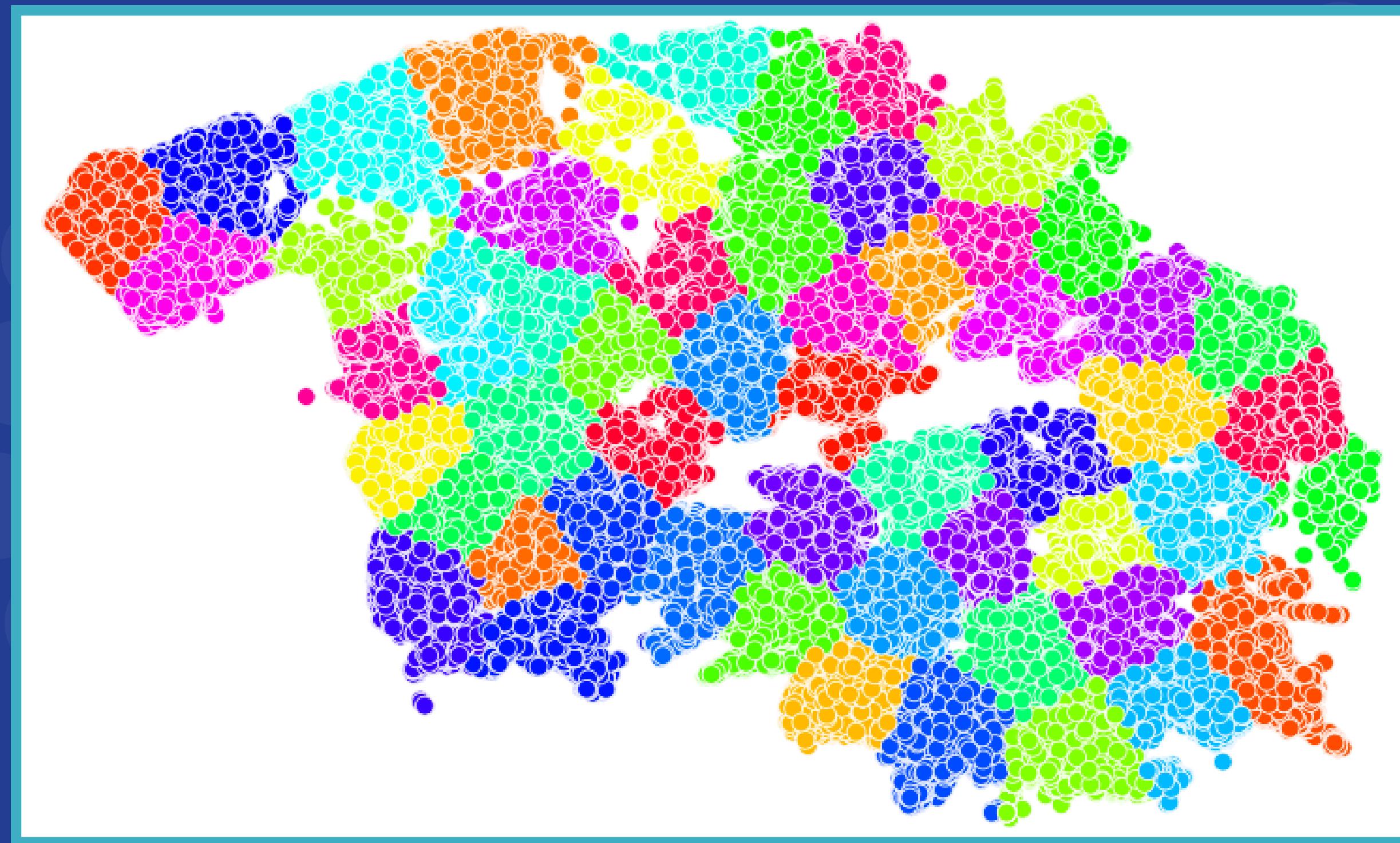
N de leiturstas: X

N de dias: 22

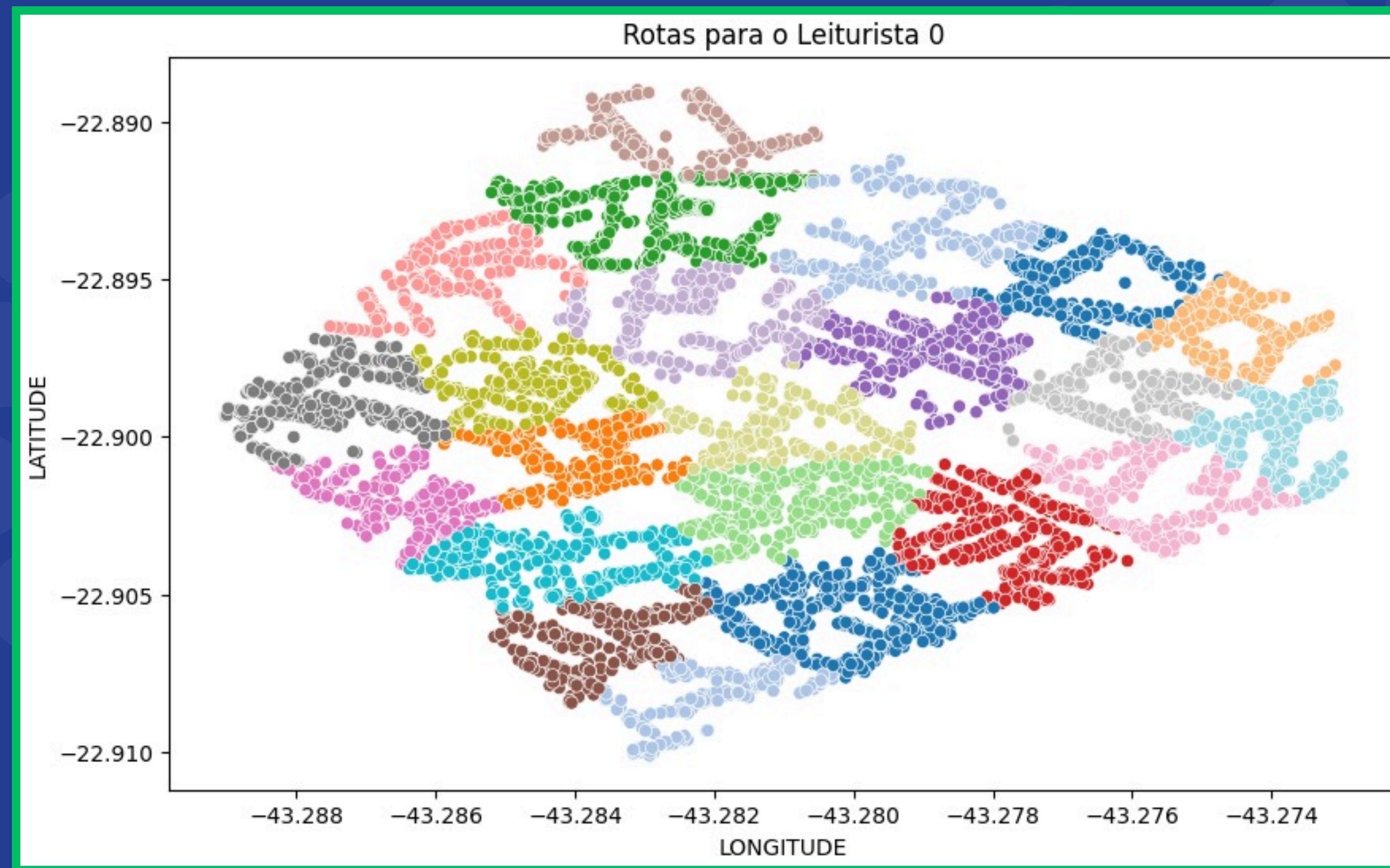
$$378.300 / (X * 22) = [300 - 400]$$

$$378.300 / (50 * 22) \sim= 343$$

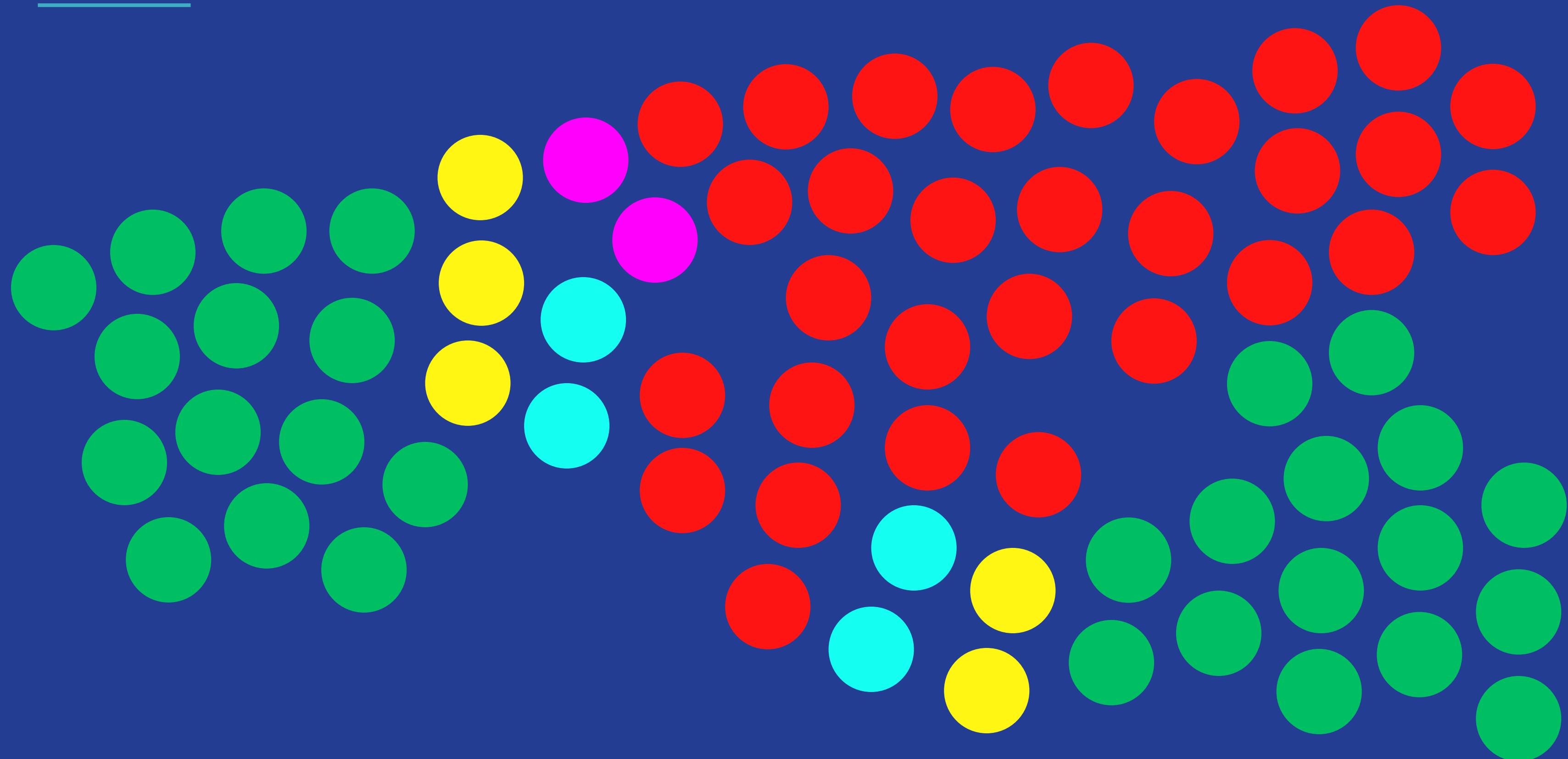
Clusterização – divisão dos pontos



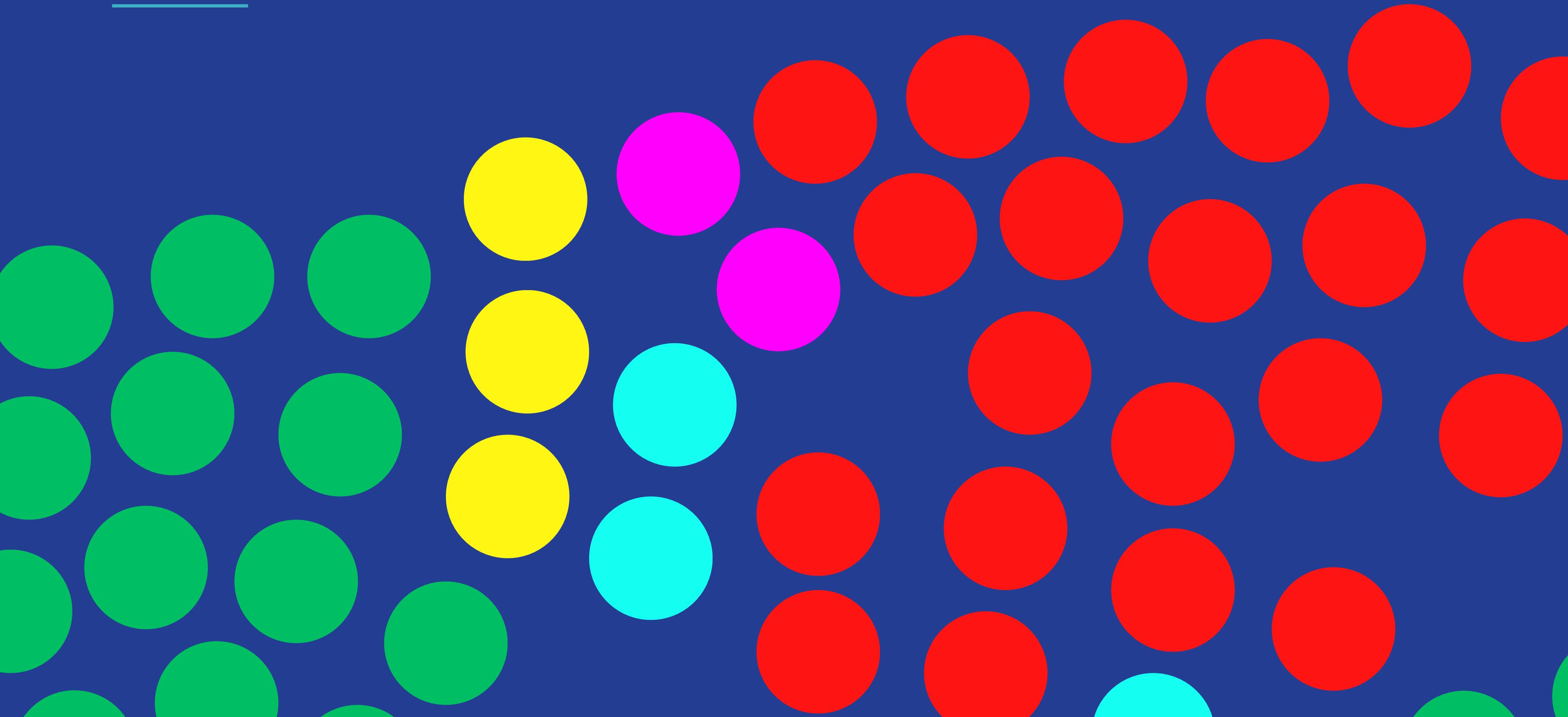
Clusterização - divisão dos pontos



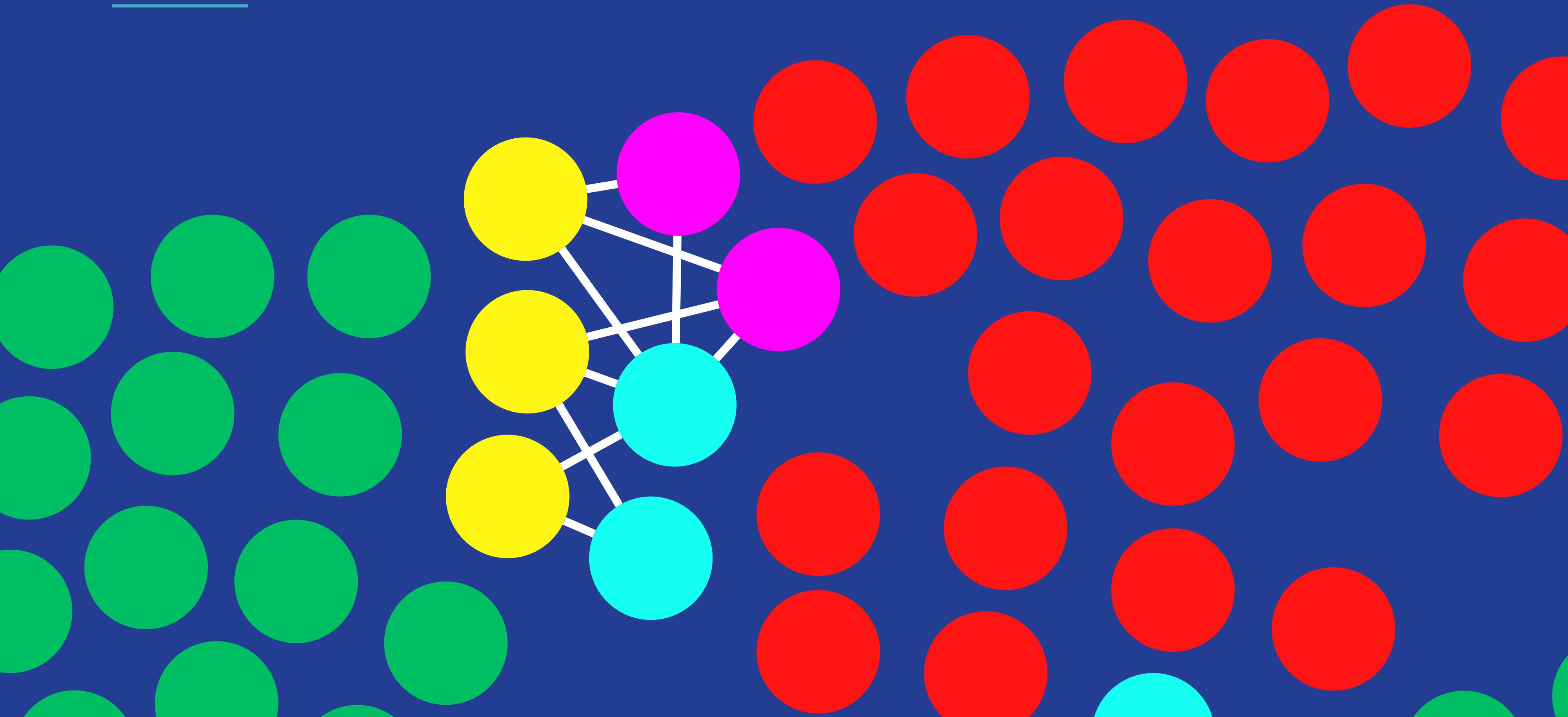
Clusterização - balanceamento



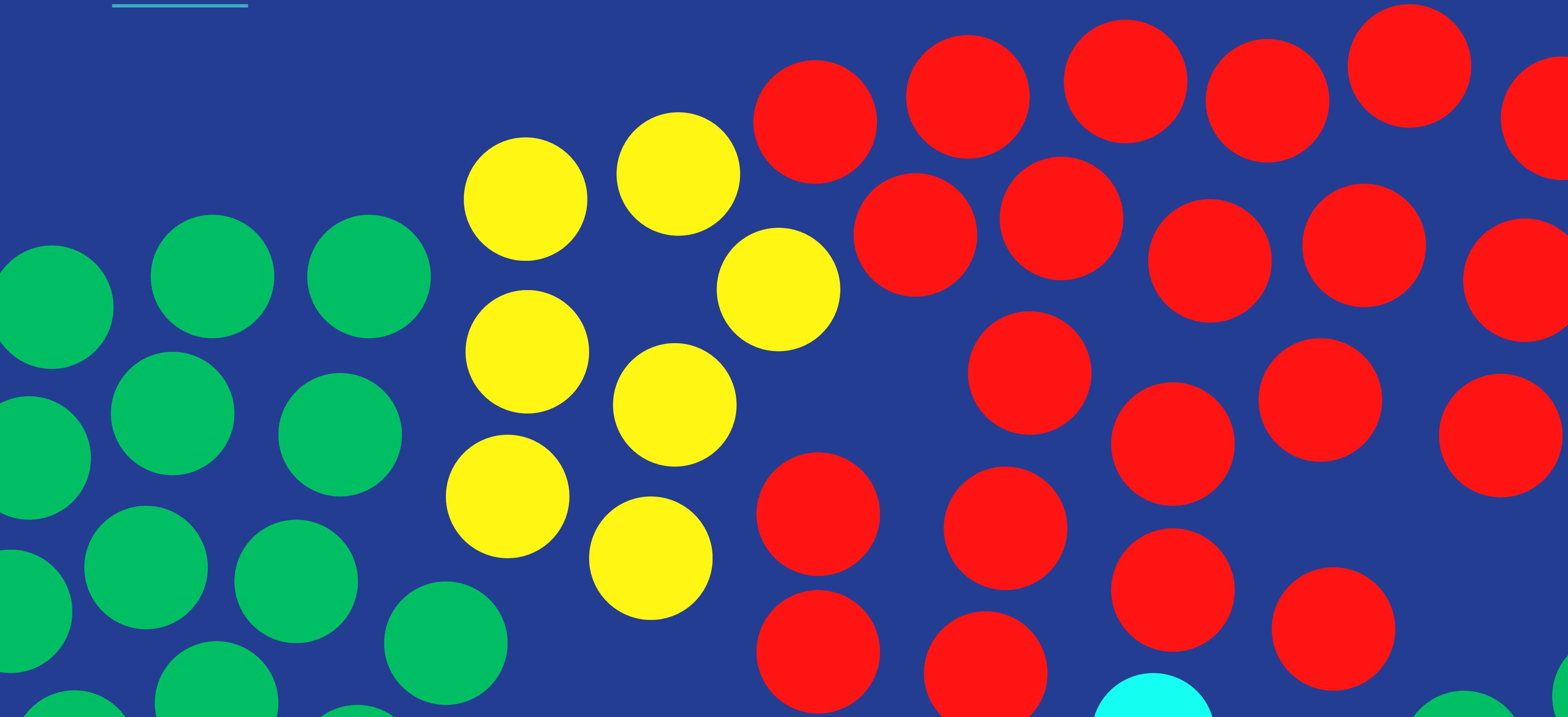
Clusterização - balanceamento



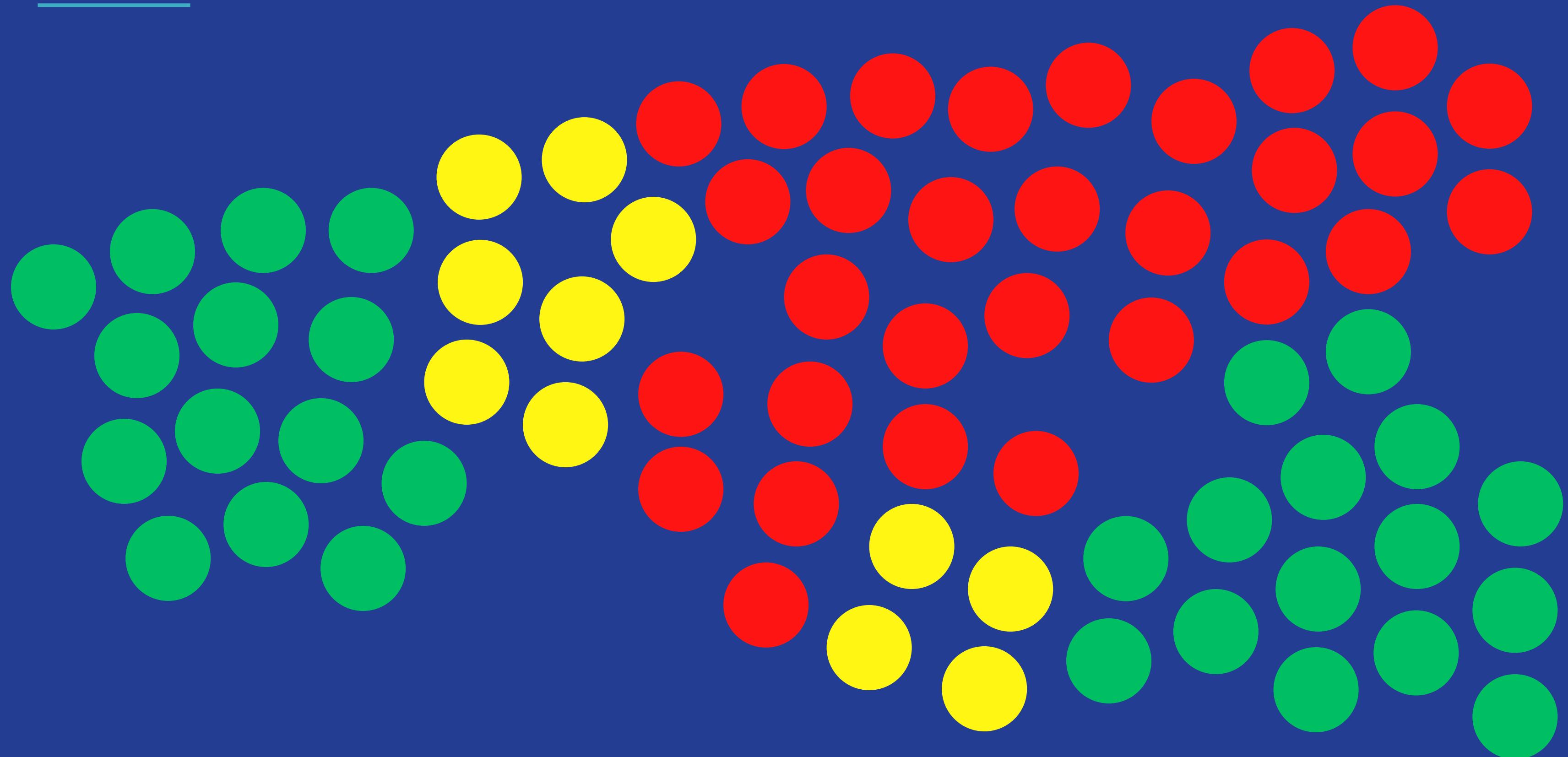
Clusterização - balanceamento



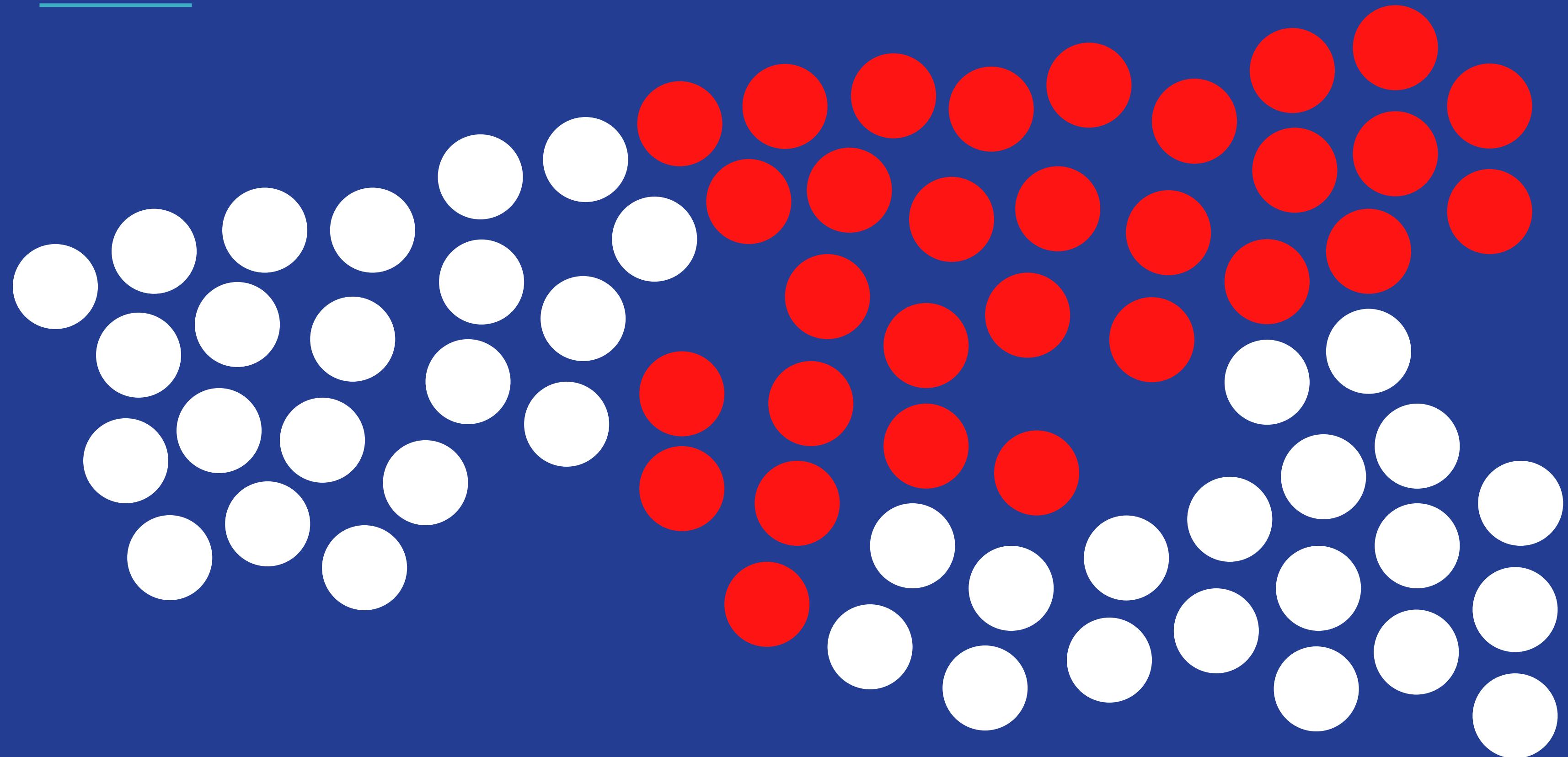
Clusterização - balanceamento



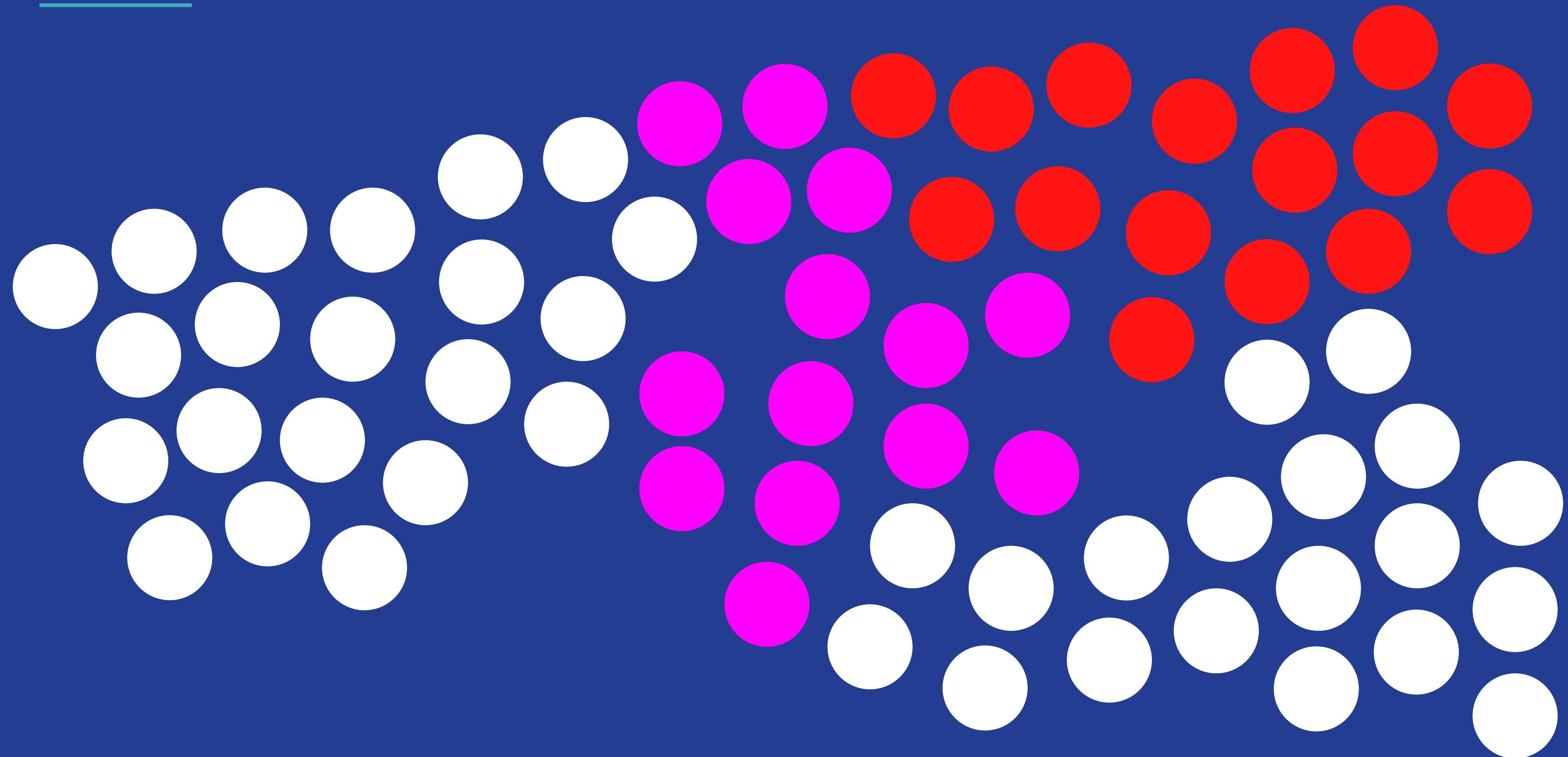
Clusterização - balanceamento



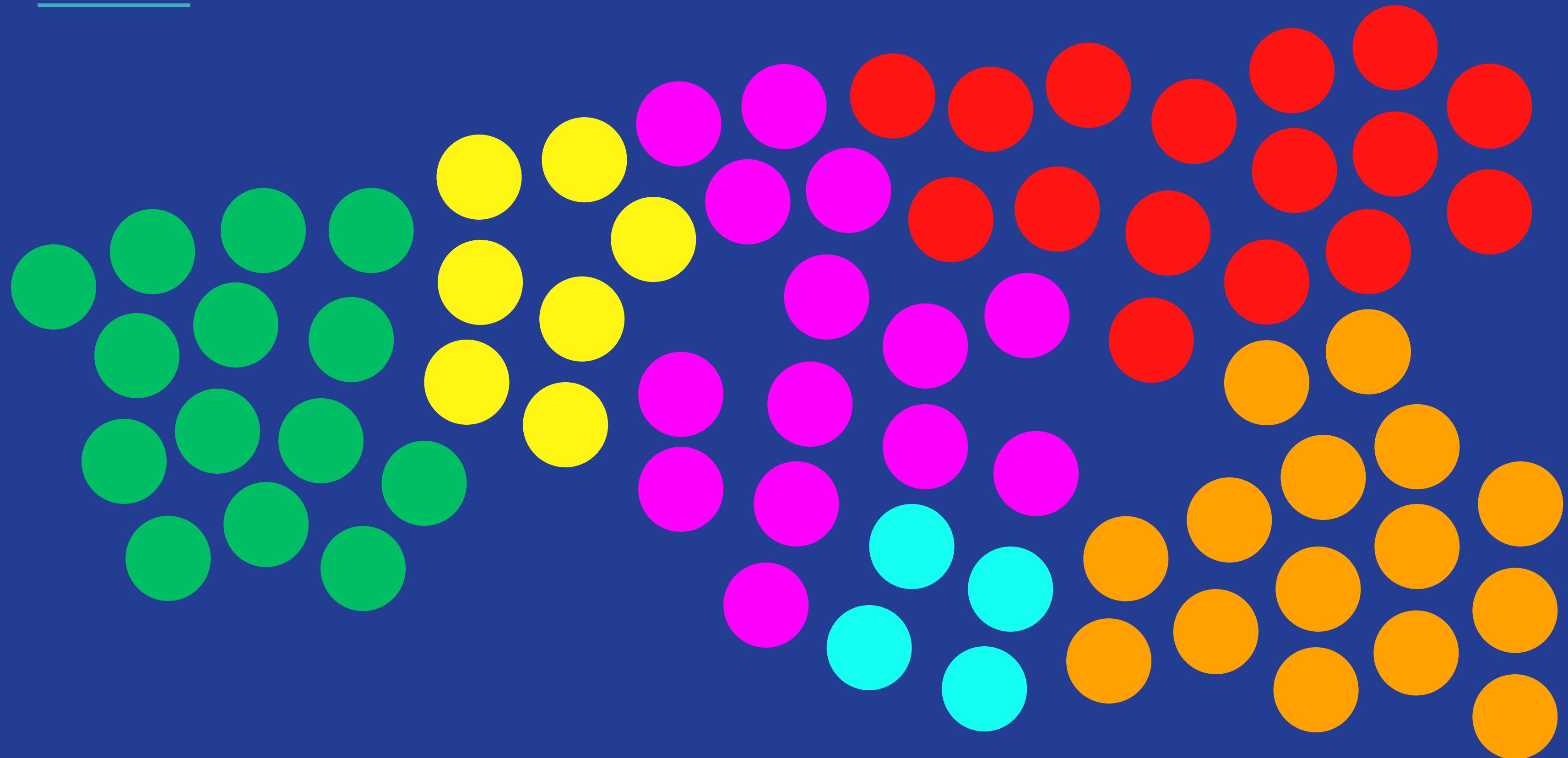
Clusterização - balanceamento



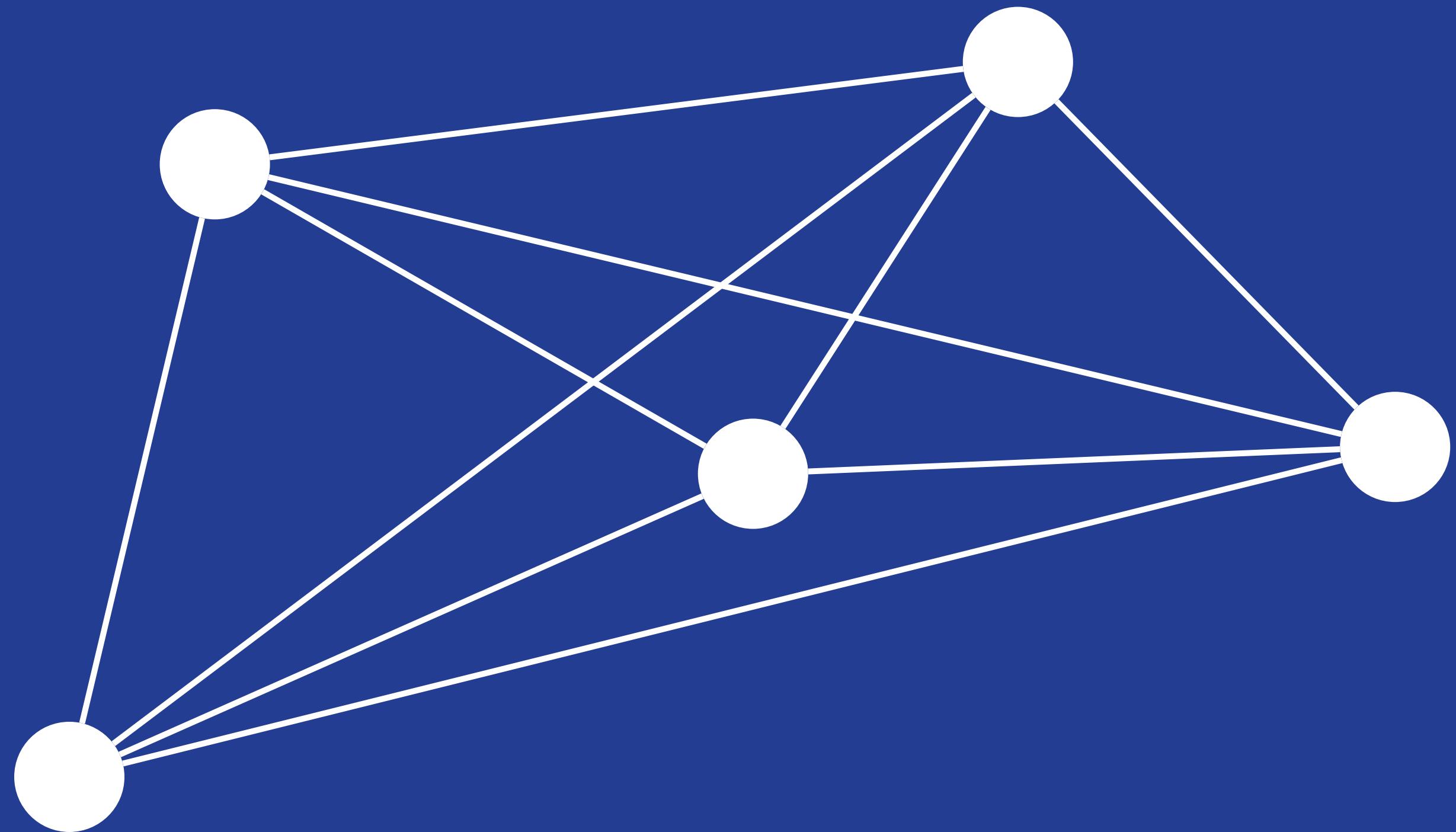
Clusterização - balanceamento



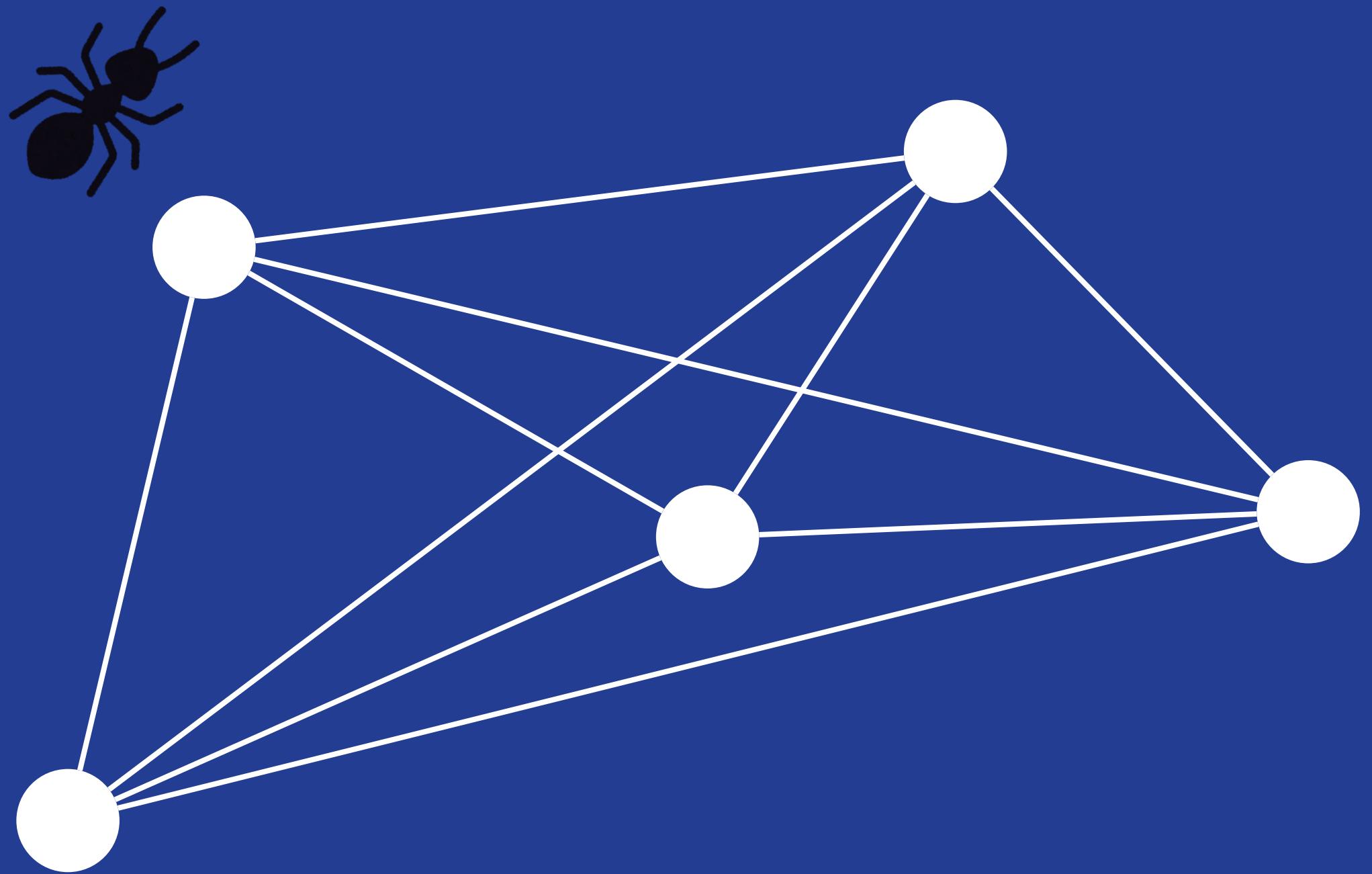
Clusterização - balanceamento



Otimização - Ant Colony Optimization

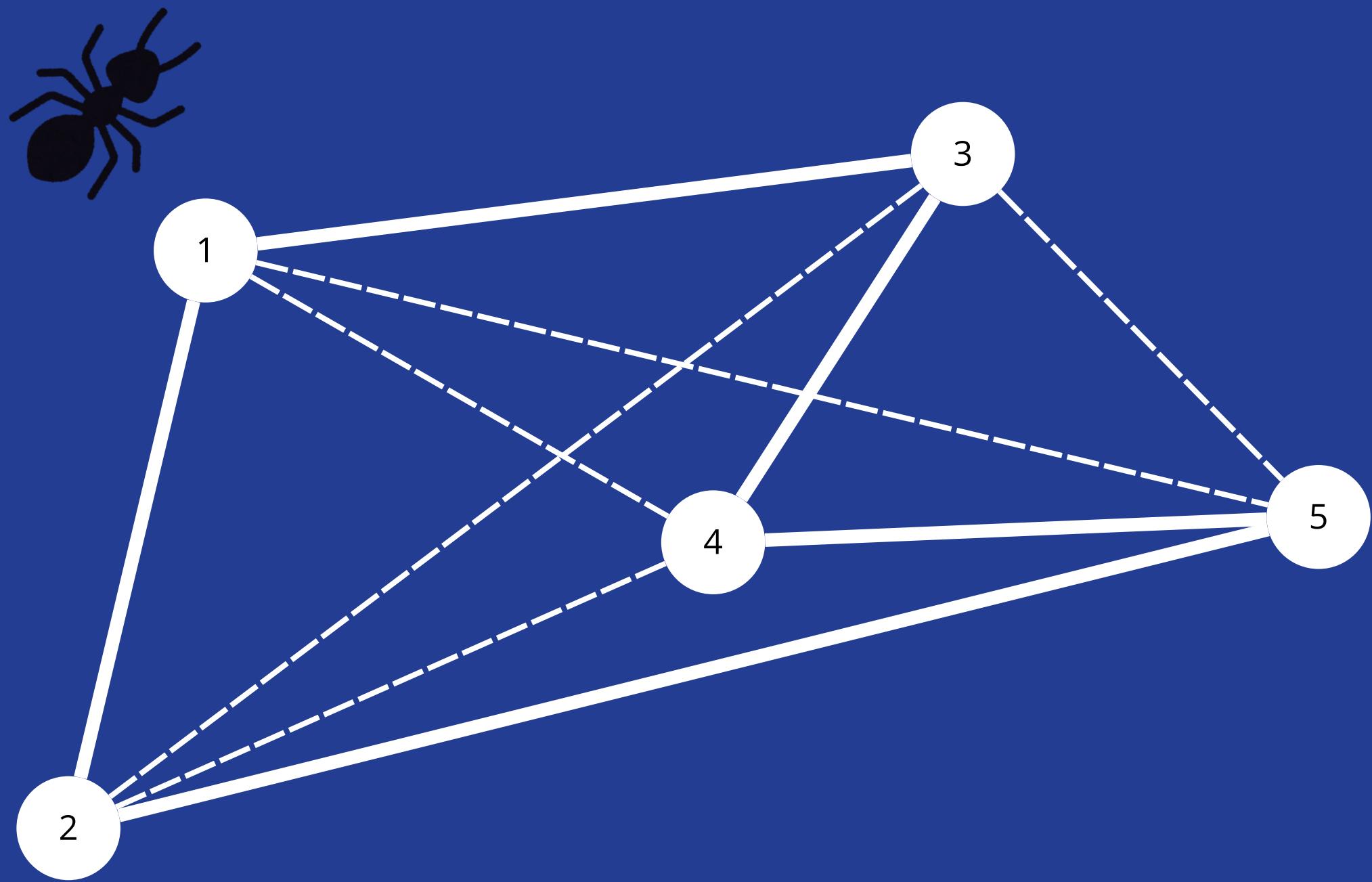


Otimização - Ant Colony Optimization



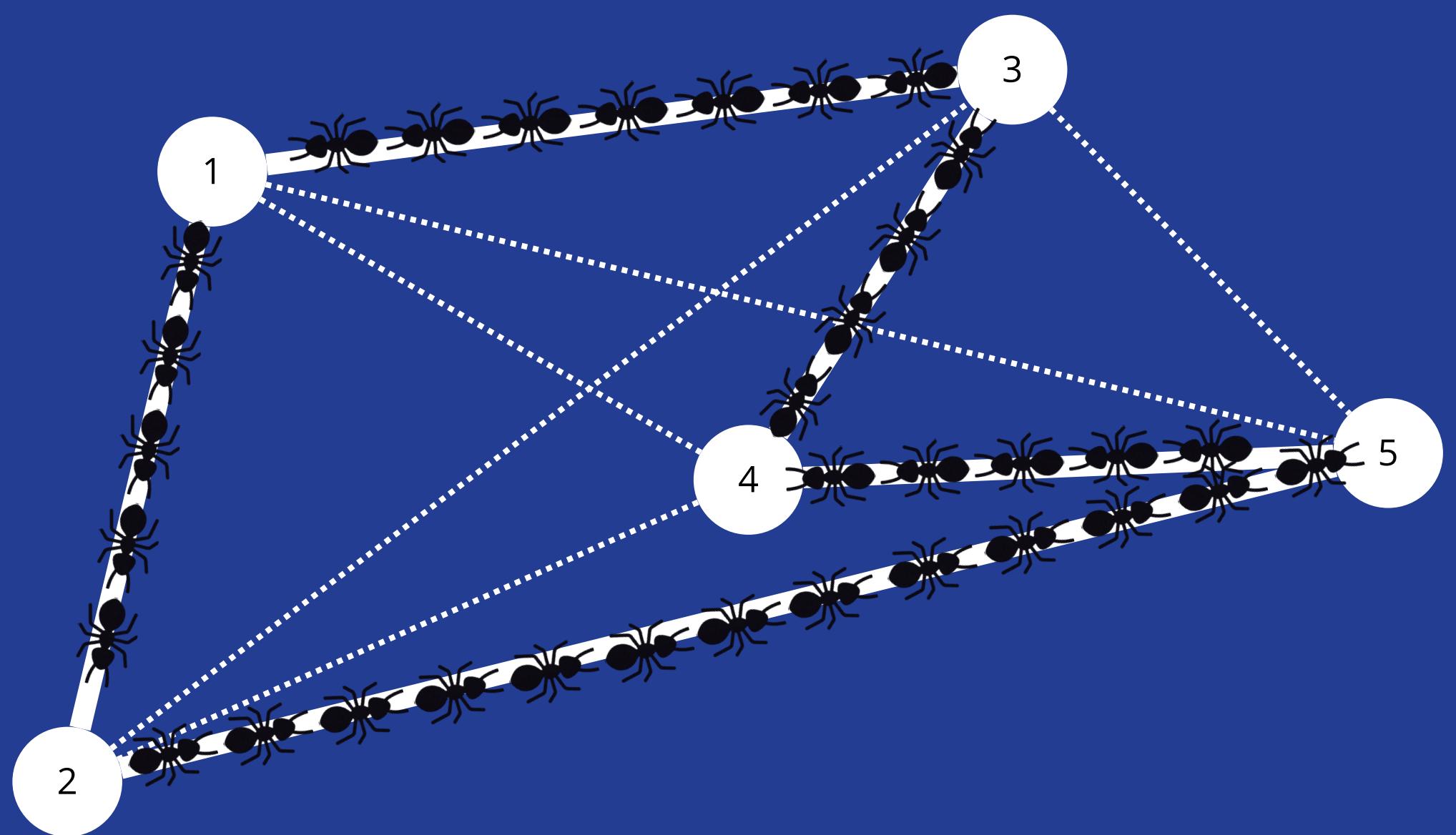
	1	2	3	4	5
1		1	1	1	1
2	1		1	1	1
3	1	1		1	1
4	1	1	1		1
5	1	1	1	1	

Otimização - Ant Colony Optimization



	1	2	3	4	5
1		0.9	0.9	0.7	0.7
2	0.9		0.7	0.7	0.9
3	0.9	0.7		0.9	0.7
4	0.7	0.7	0.9		0.9
5	0.7	0.9	0.7	0.9	

Otimização - Ant Colony Optimization



	1	2	3	4	5
1		0.9	0.9	0.2	0.2
2	0.9		0.2	0.2	0.9
3	0.9	0.2		0.9	0.2
4	0.2	0.2	0.9		0.9
5	0.2	0.9	0.2	0.9	

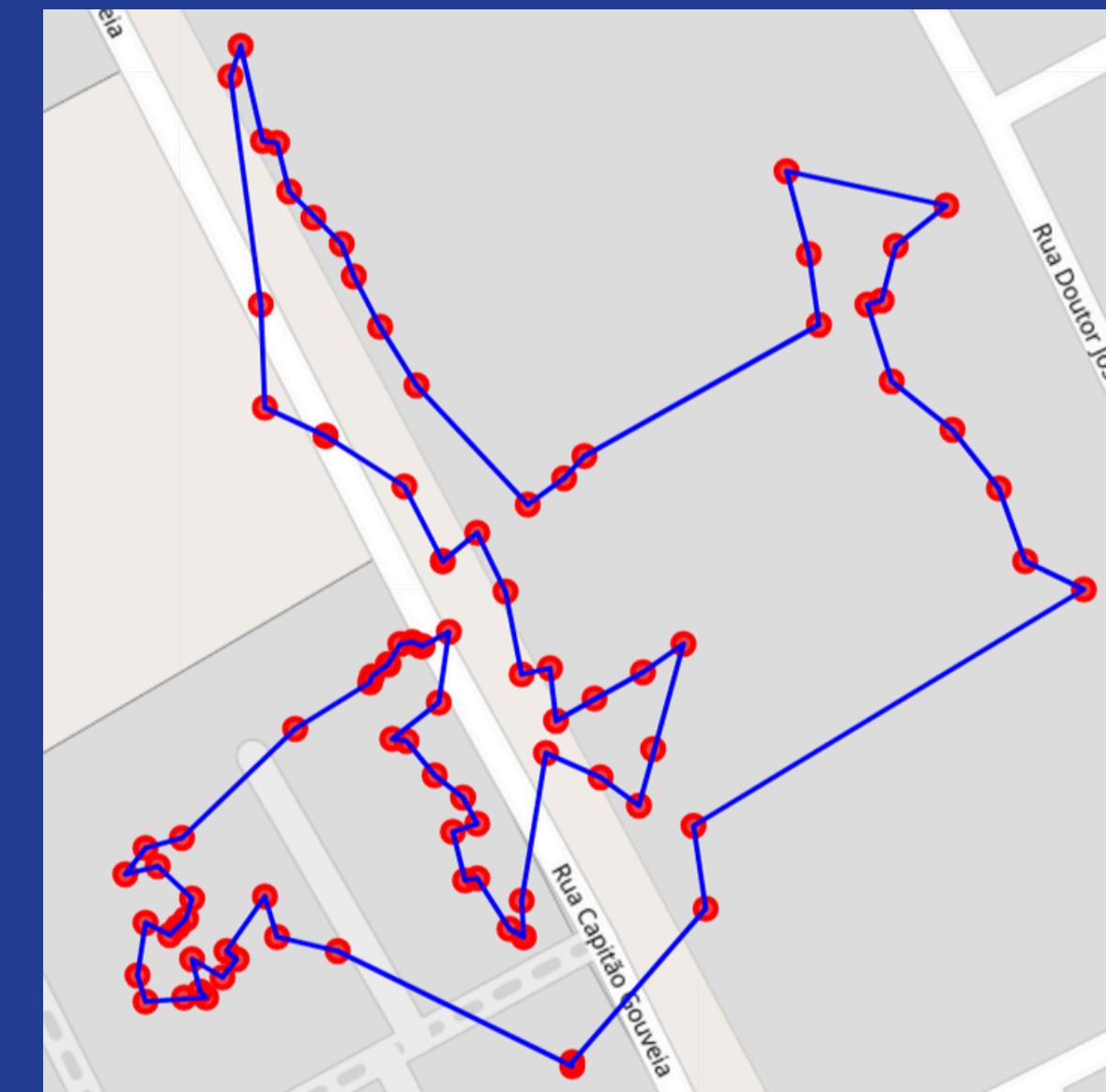
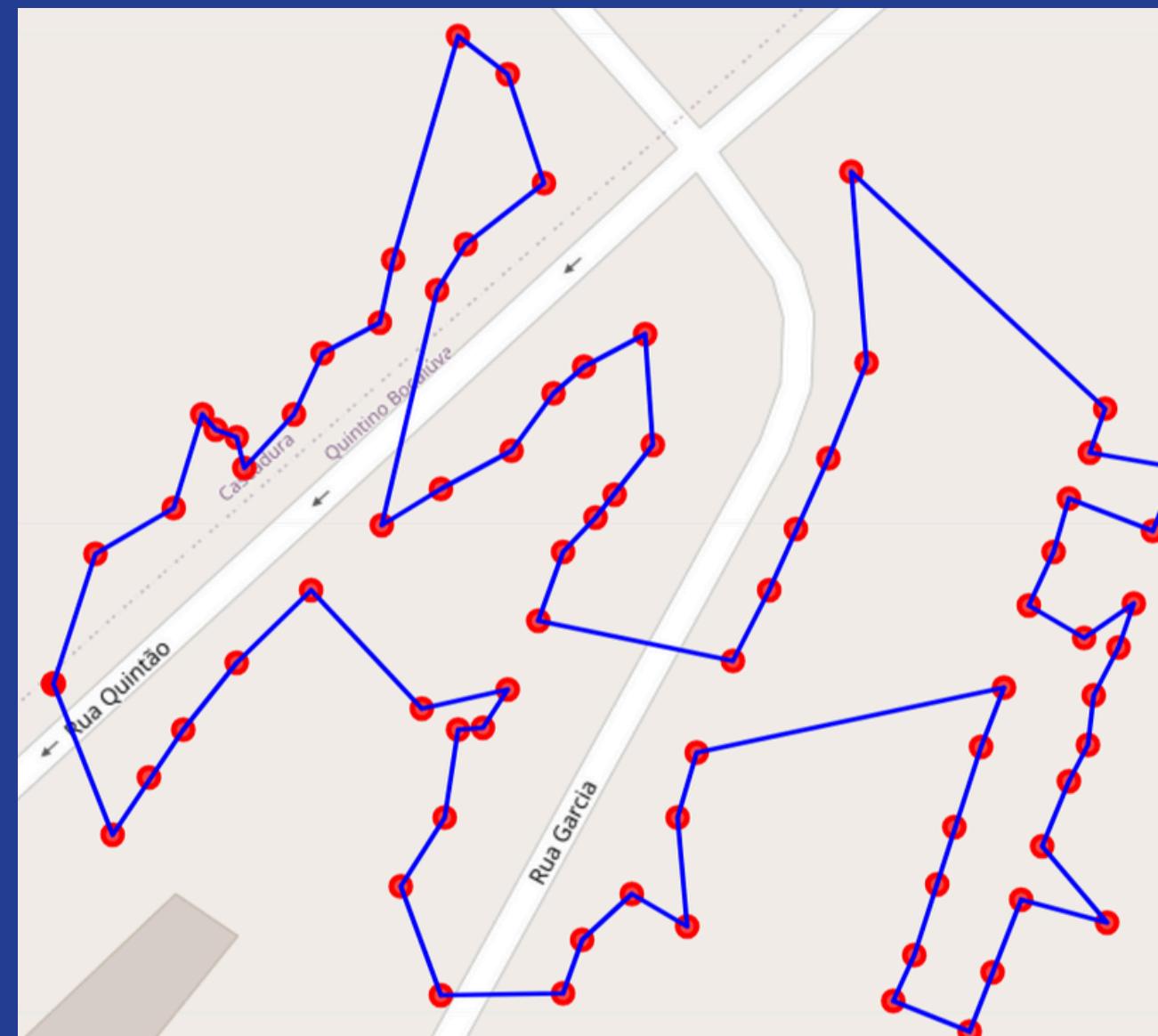
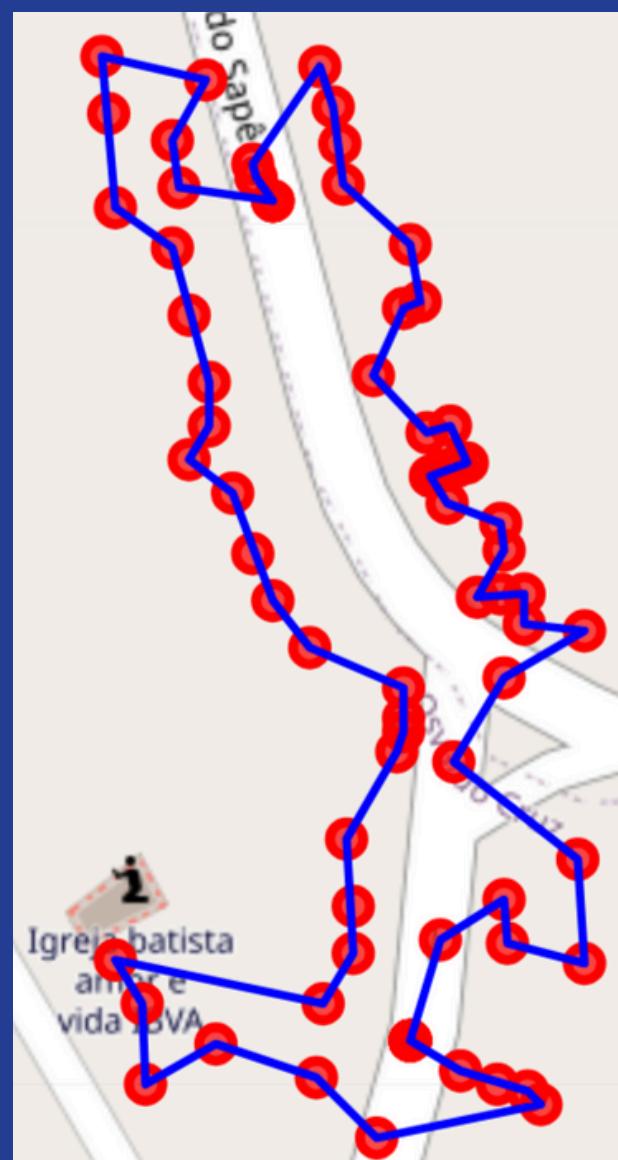
Otimização - OR Tools

“ —

Conjunto de bibliotecas feitas pelo Google e de código aberto projetadas para resolver problemas de otimização combinatória.

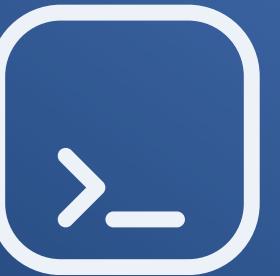


Exemplos de rotas - OR Tools



CLI - Bônus de performance

Executar o algoritmo via linha de comando é mais rápido do que diretamente na aplicação web.



+77%

MAIS RÁPIDO

Aplicação





Entrega final

- Testes de usabilidade
- Aplicação completa
- Artigo finalizado



Somos Aegis



Felipe Spina



João Cauê



João Paulo



Maurício
Azevedo



Mauro
Júnior



Raíssa de
Cássia