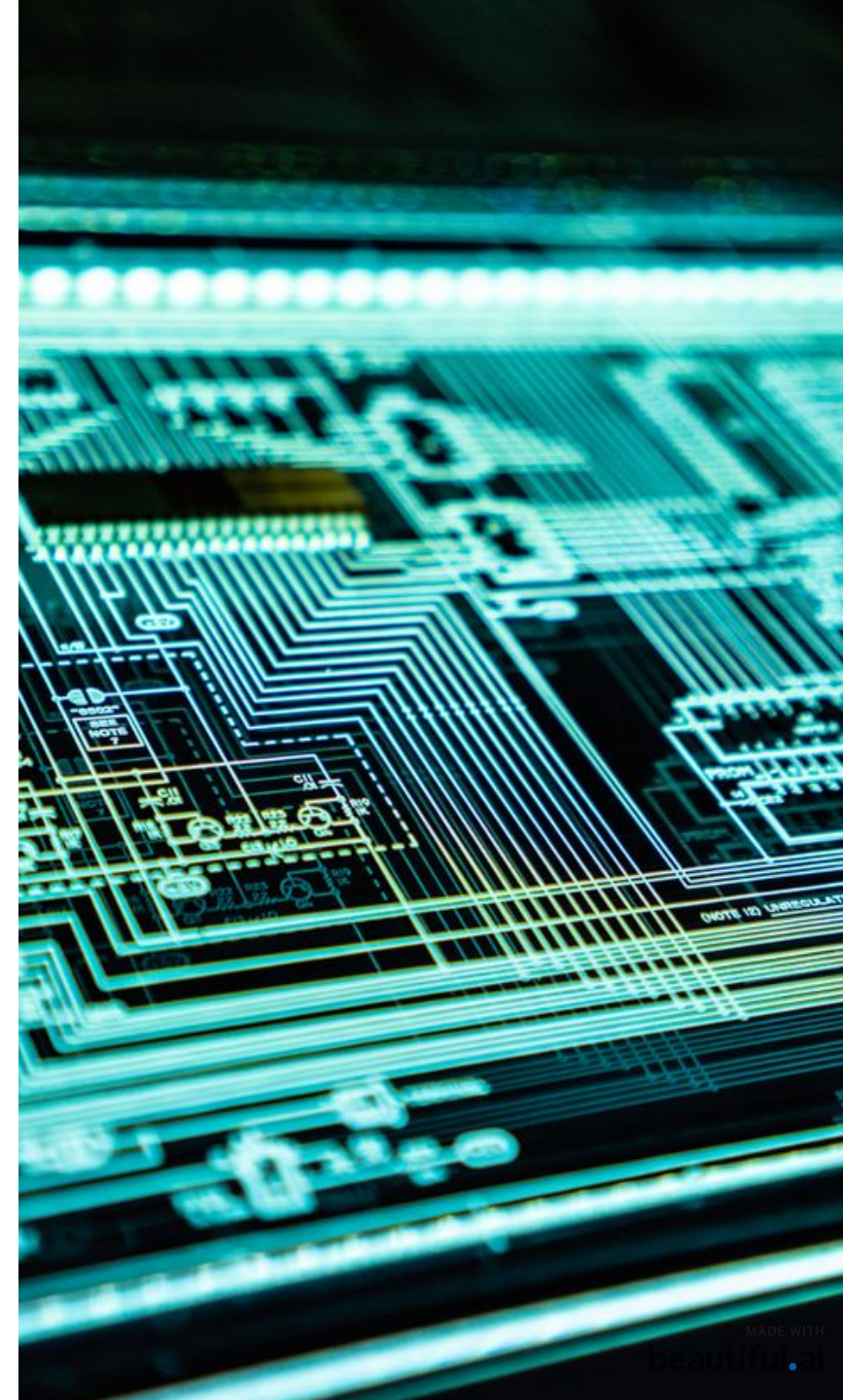
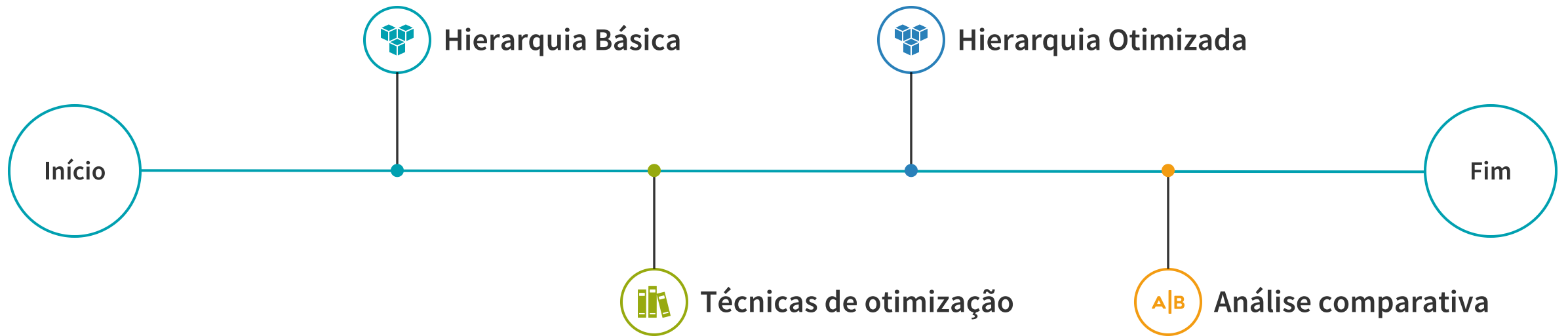


# Hierarquia de Memória

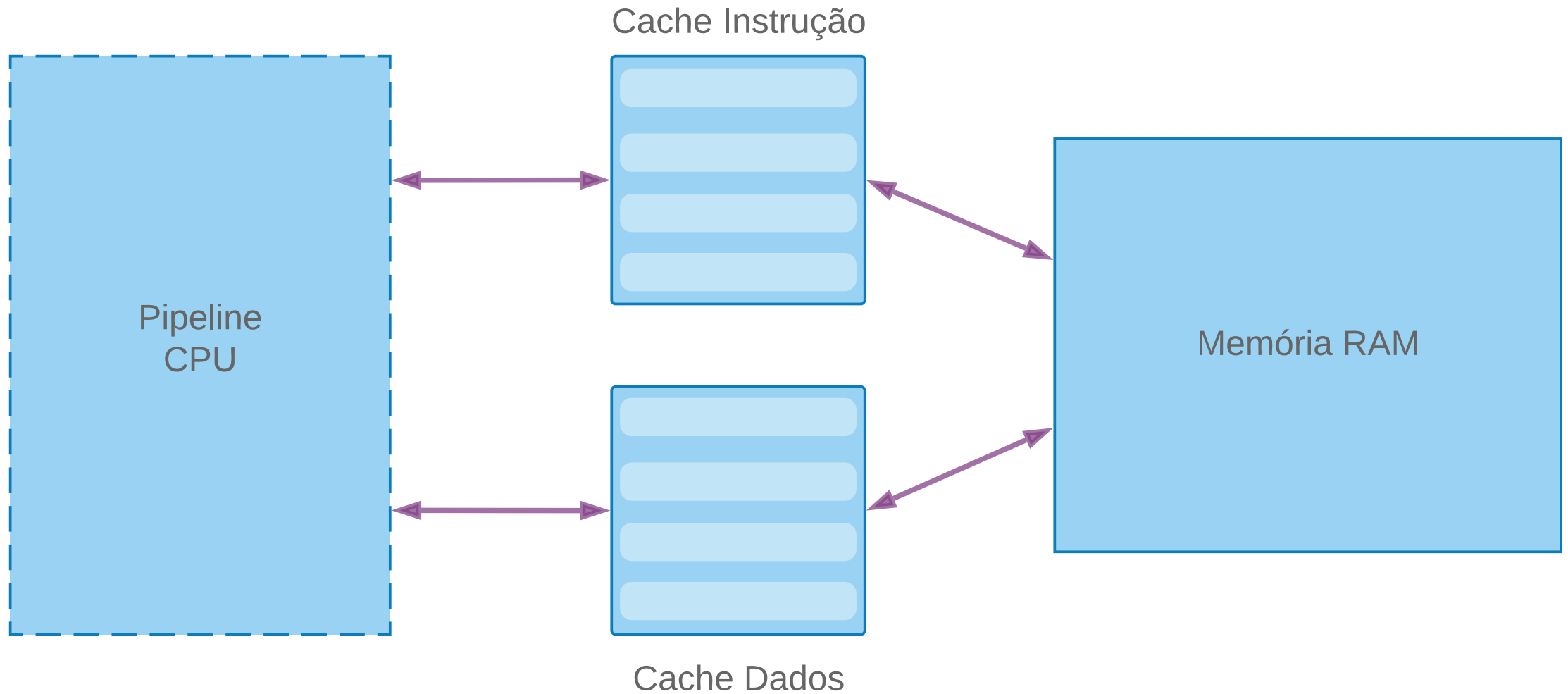
Uma análise introdutória de técnicas de otimização



# Atividades



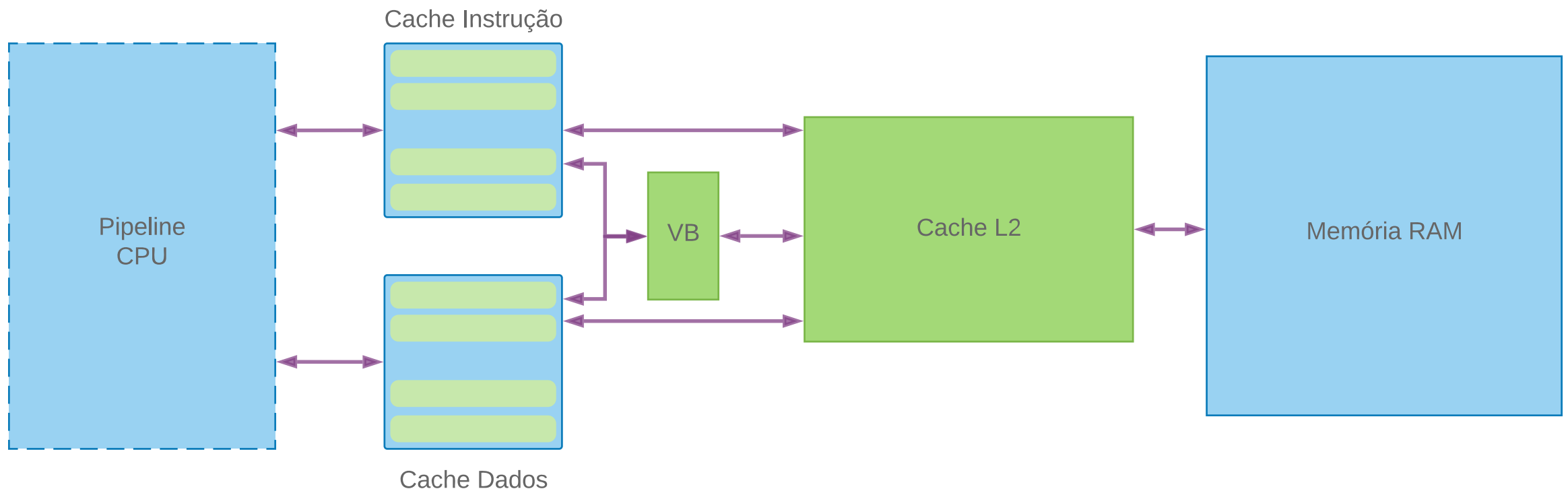
# Hierarquia de Memória Básica



# Técnicas de otimização

- 1 Nonblocking Caches
- 2 Exclusion Policy
- 3 Banked cache
- 4 Critical Word First/Early Start
- 5 Buffer Write Back
- 6 Merging Write Buffer
- 7 n-way associativity
- 8 Hardware Prefetching
- 9 Multiple Levels
- 10 Inclusion Policy

# Hierarquia de Memória Otimizada



# Análise Comparativa

	Relative Stall Time	Miss Rate	Memory Access Time
Básica	91.740%	52.080%	124ns *
Otimizada	70.40%	35.90%	74 ns *
A/B	diminuiu 28%	diminuiu 31.1%	diminuiu 40.3%