



Feeling Auto Layout

From Leading to Trailing

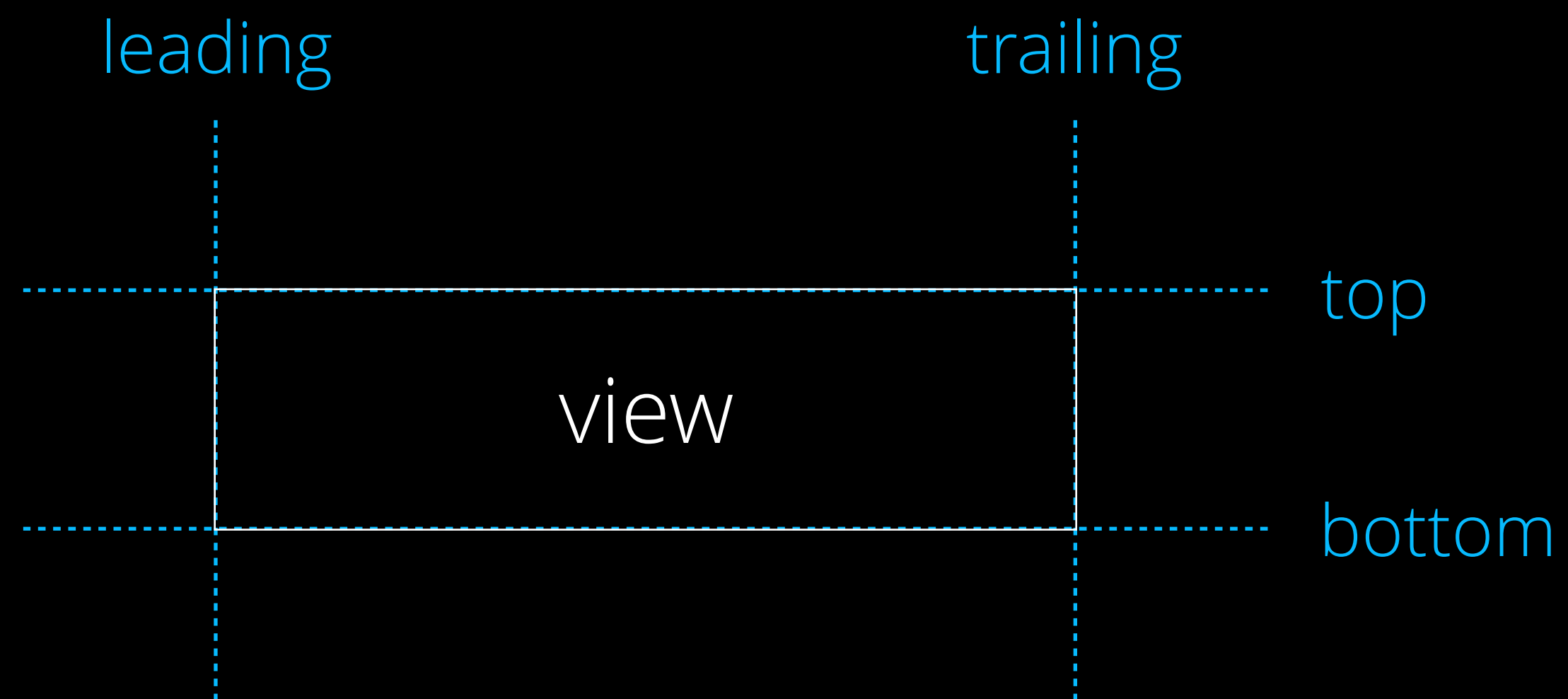
misha-hildebrand.de

— Summary —

Recap

1

Layout Anchors

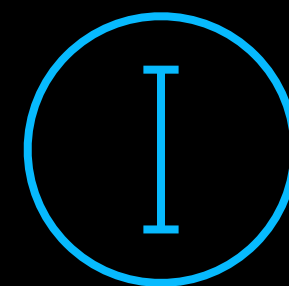


Recap

2

The Constraint Formula:

$$\text{anchor2} = \text{multiplier} \times \text{anchor1} + \text{constant}$$



Recap

3

Rule of Thumb:



**2 (non-redundant) constraints
per view and dimension**

needed to compute the frame for a view

Recap

4

Layout Flow:

Top
Superview



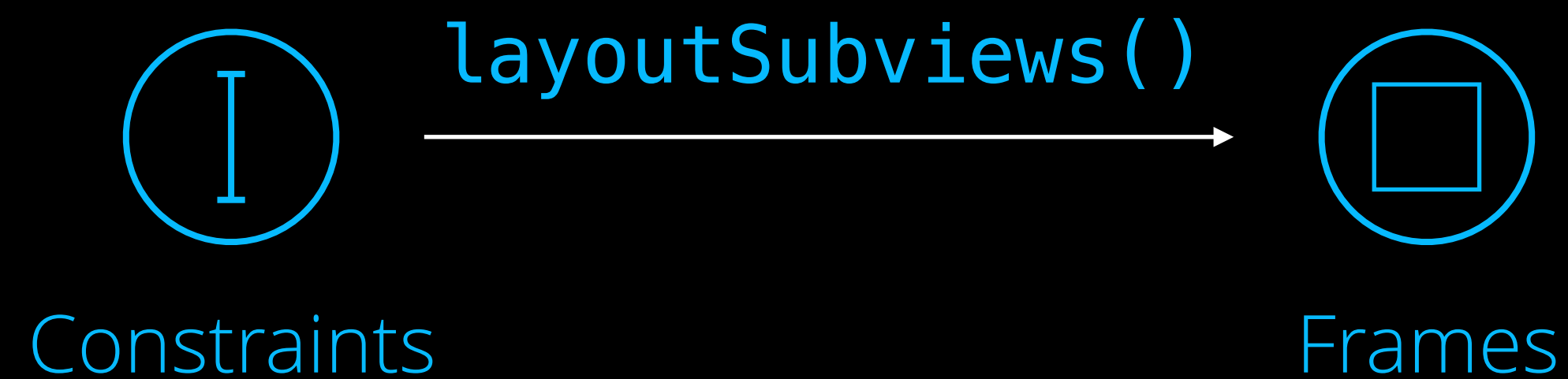
Subview
Bottom

Recap

5

Resolving Constraints:

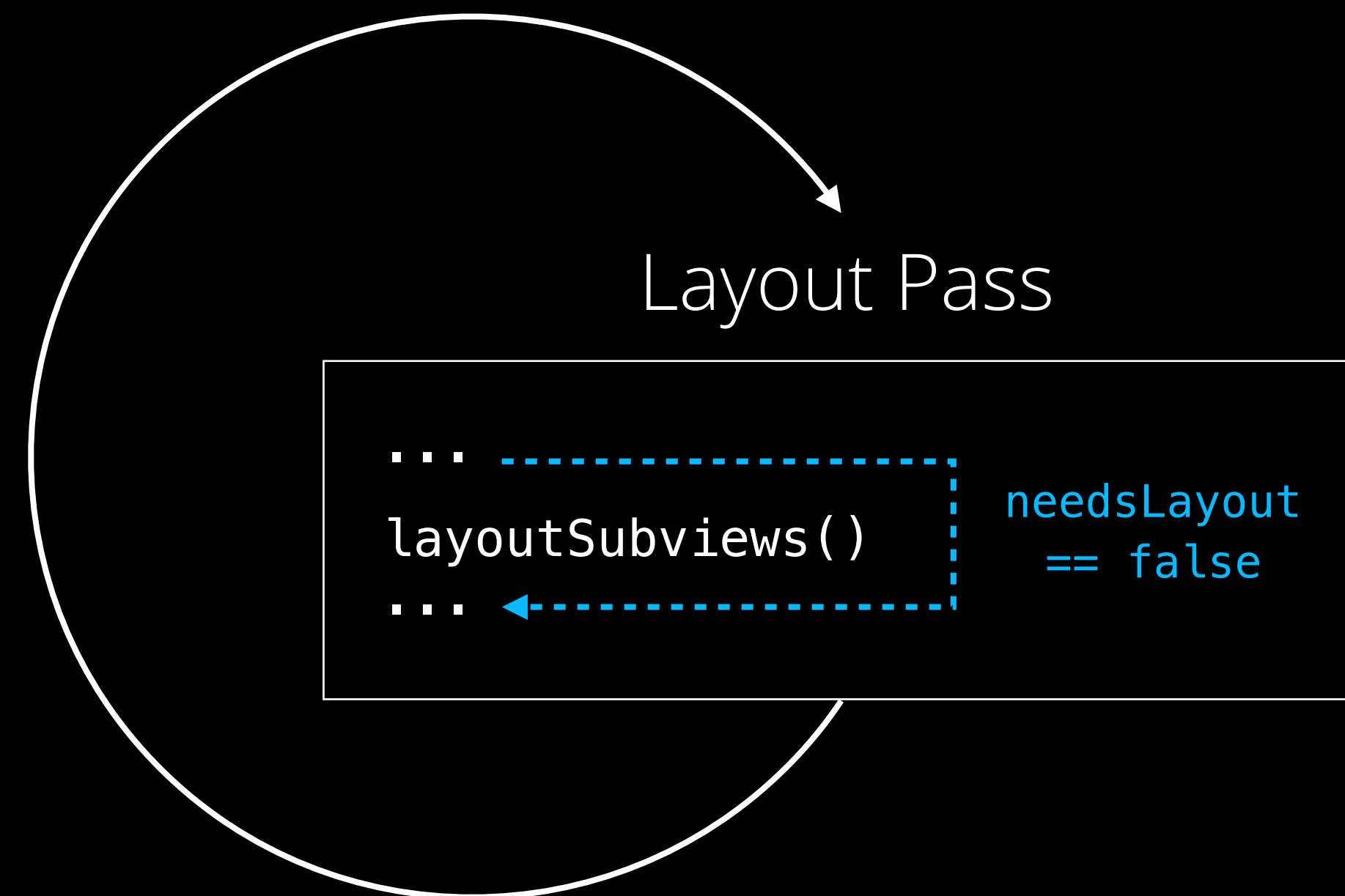
The system solves a set of linear equations.



Recap

6

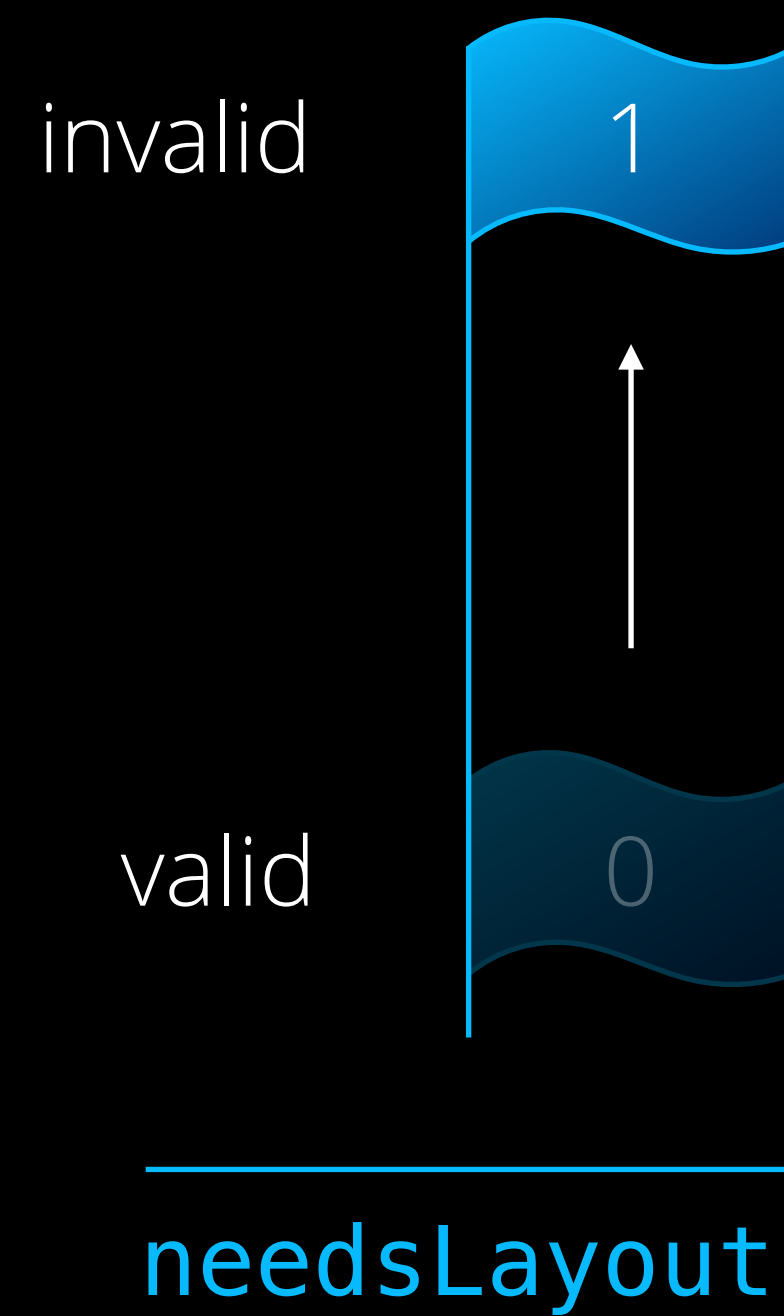
The Layout Cycle:



Recap

7

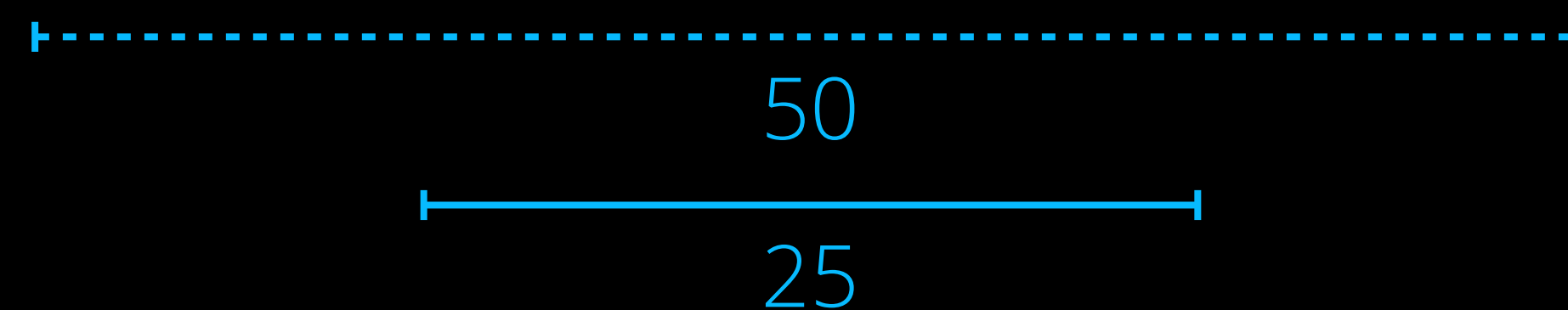
The Principle of Invalidation:



Recap

8

The Intrinsic Content Size:



system-generated

added in Interface Builder

Recap

9

Layout Priorities:

priority < 1000

↳ *fallback* constraints

priority = 1000

↳ *required* constraints

↳ UILayoutPriorityRequired = 1000

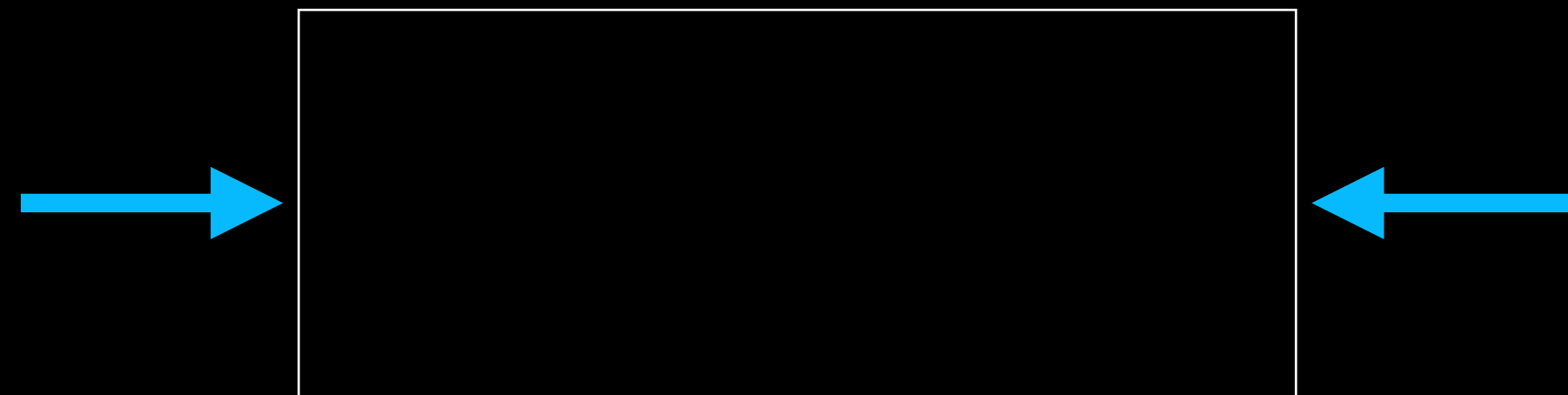
↳ UILayoutPriorityDefaultHigh = 750

↳ UILayoutPriorityDefaultLow = 250

Recap

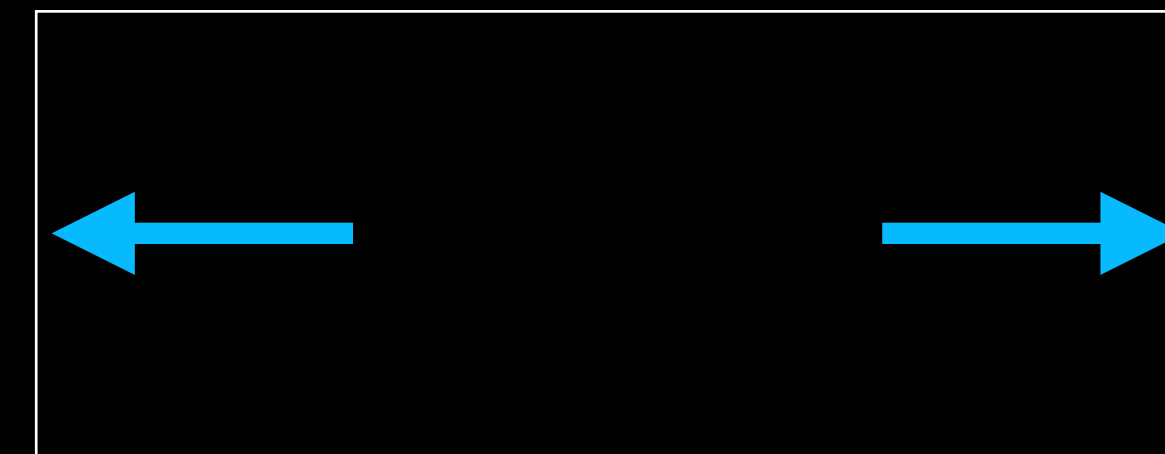
10
CHCR

Content Hugging



Default Priority:
250

Compression Resistance



Default Priority:
750

A powerful tool box



Feel enlightened?