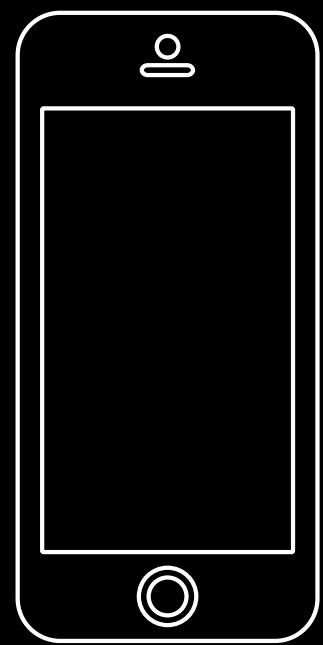


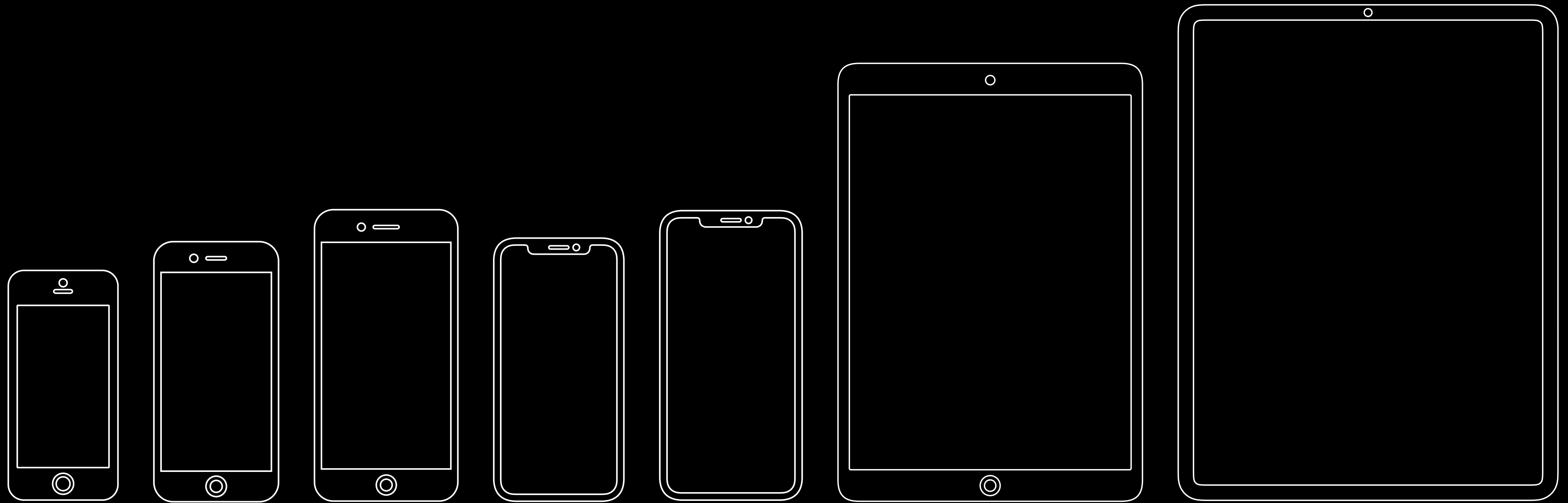
Lesson 2—10:

Auto Layout and Stack Views

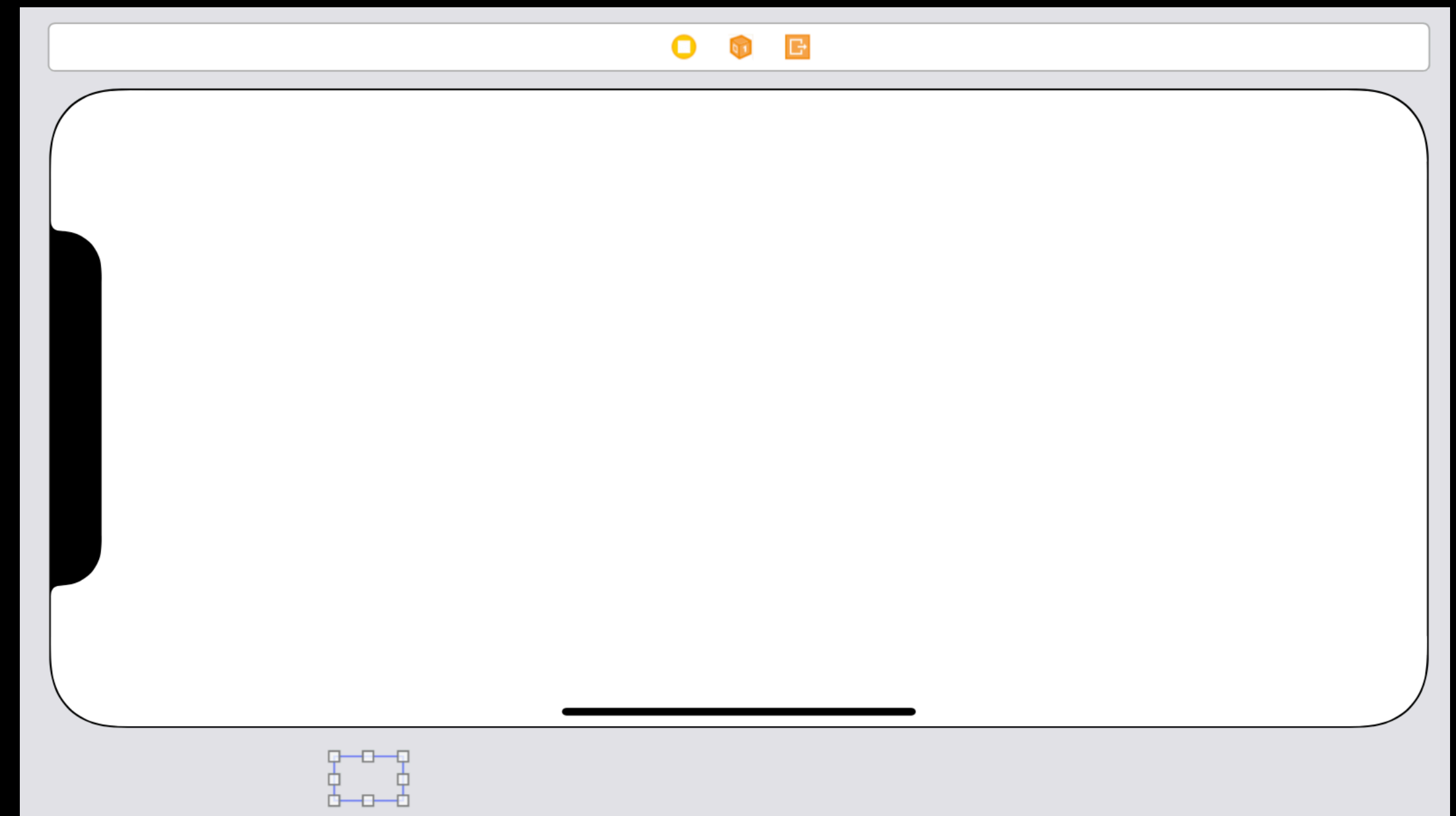
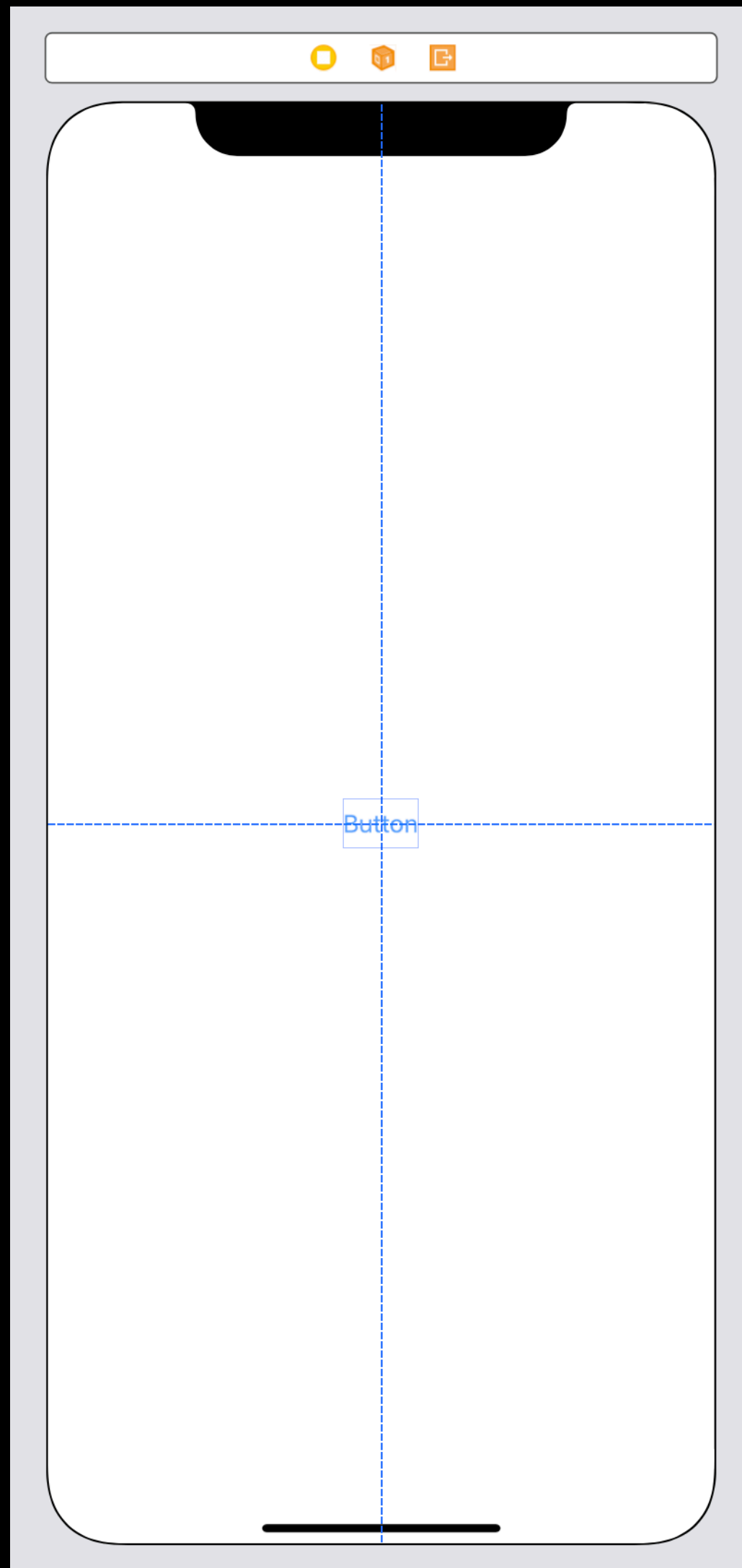
Layout for multiple sizes



Layout for multiple sizes

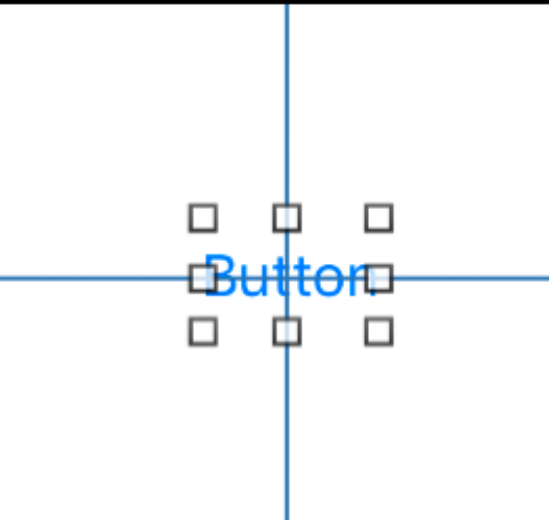
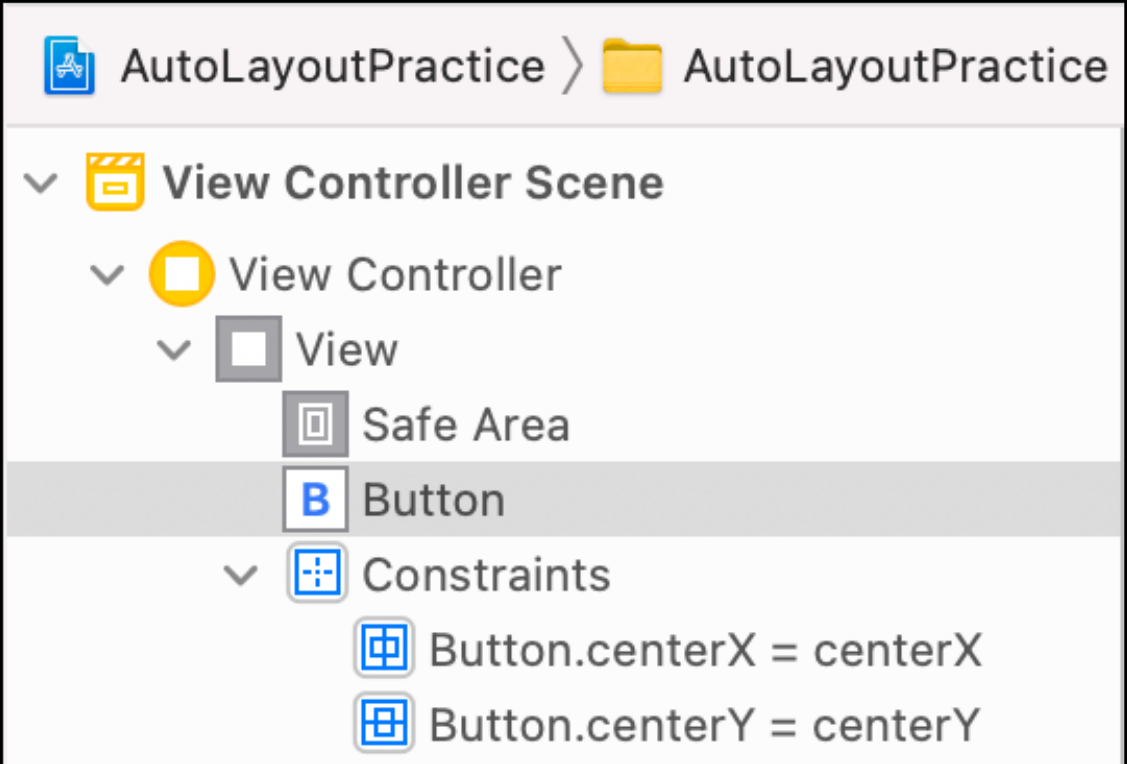
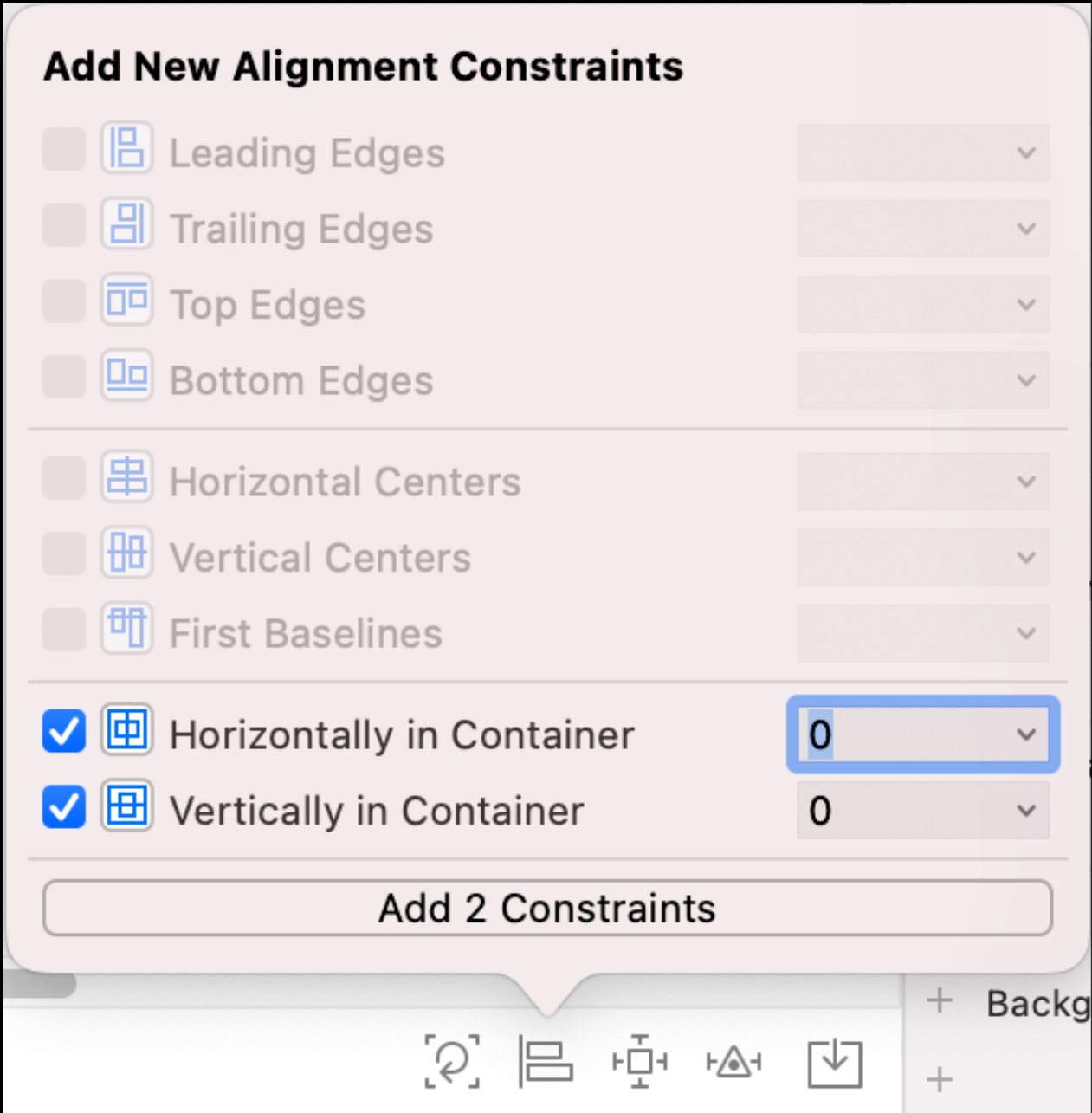


Why Auto Layout?

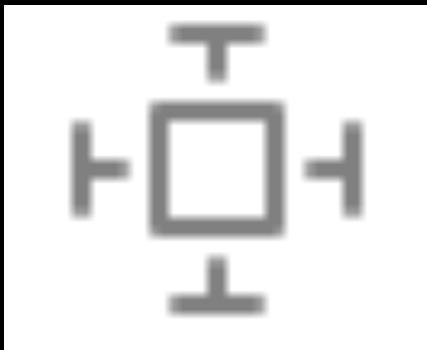


Create alignment constraints

Text



Create size constraints



Add New Constraints

389

20

H

H

30

399

Spacing to nearest neighbor

☒ Constrain to margins

☐ Width

46

☒ Height

60

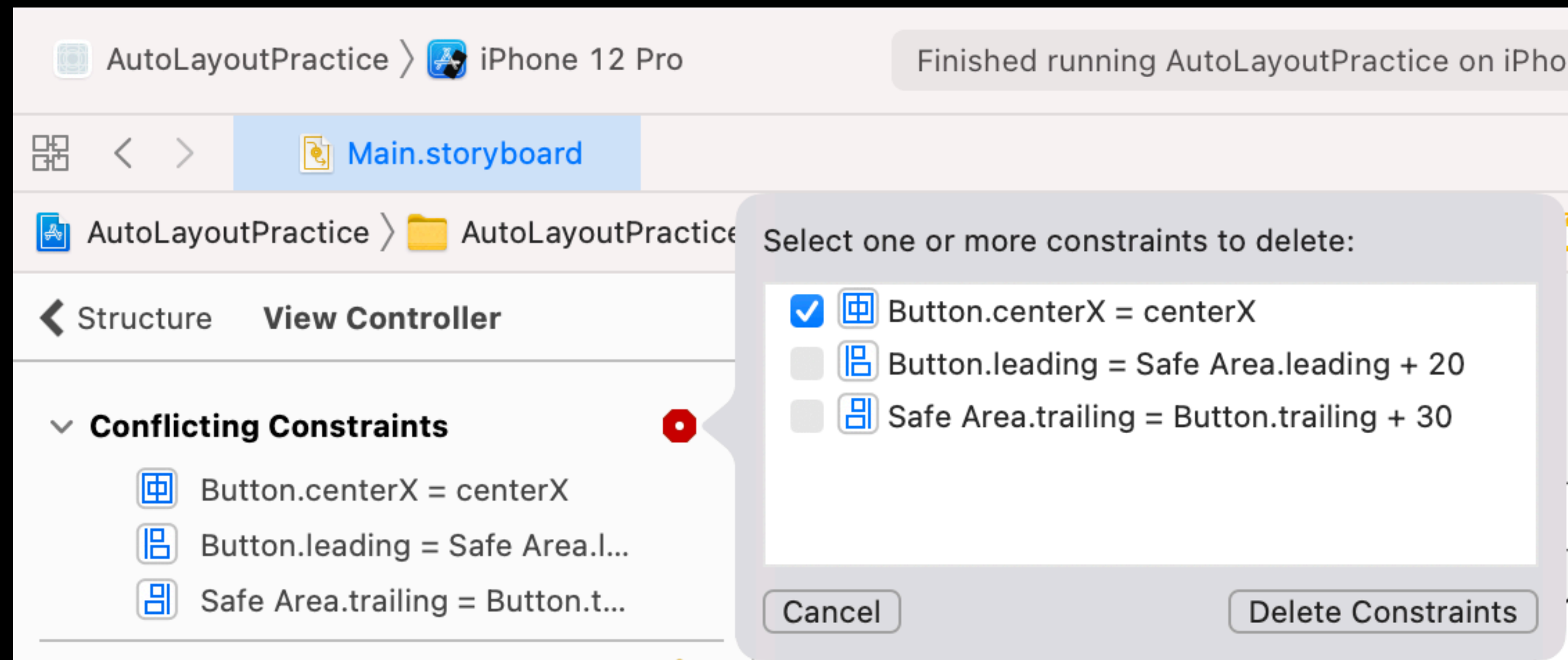
☐ Equal Widths

☐ Equal Heights

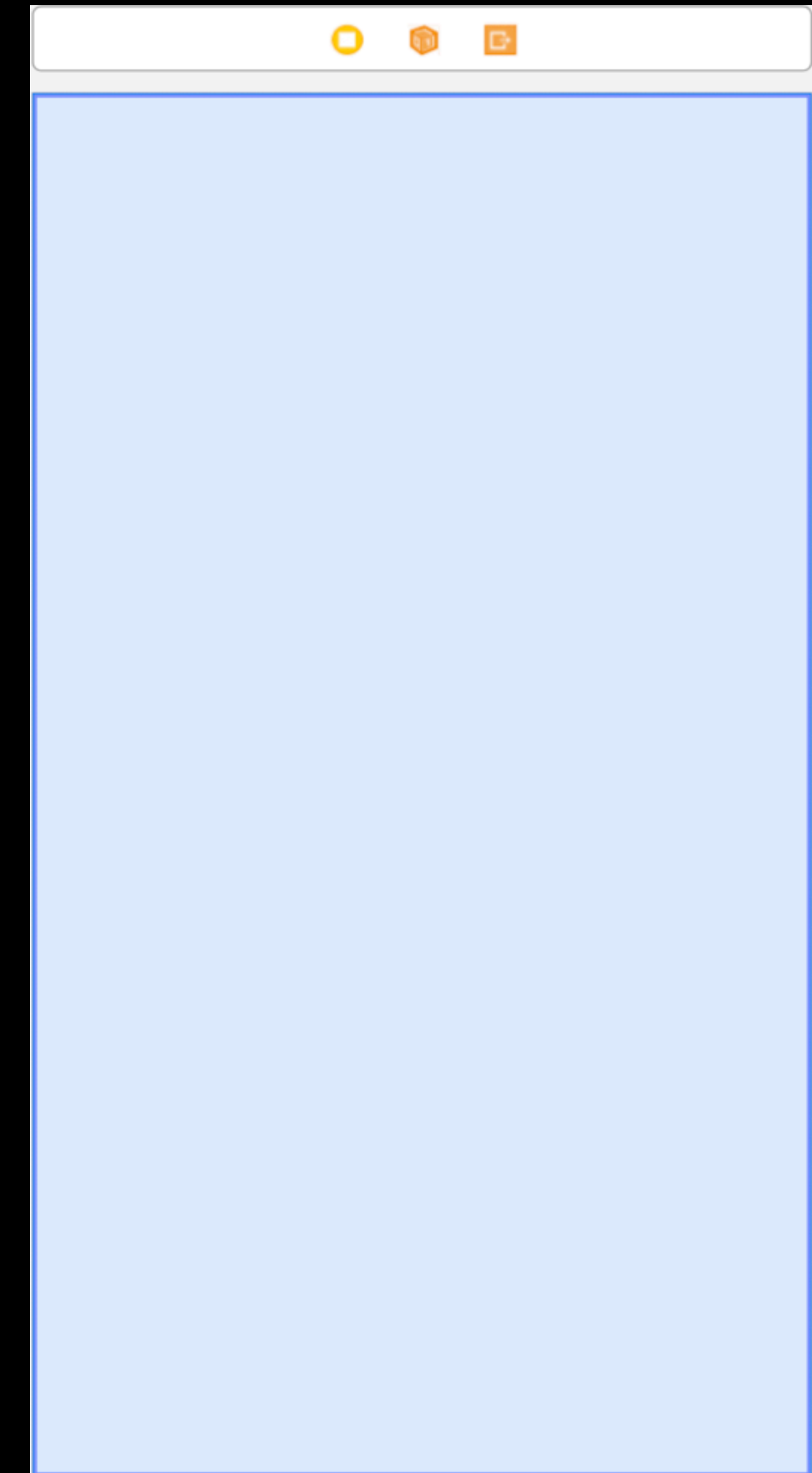
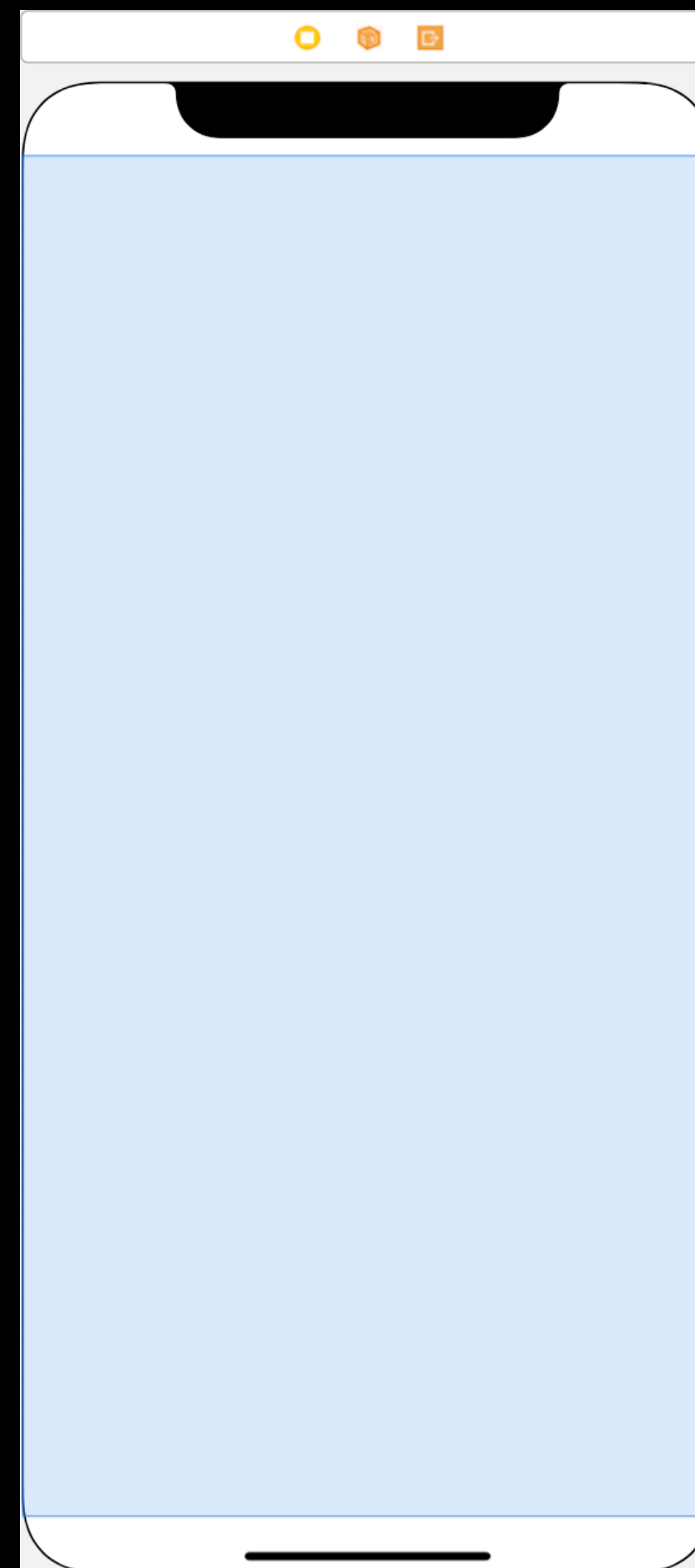
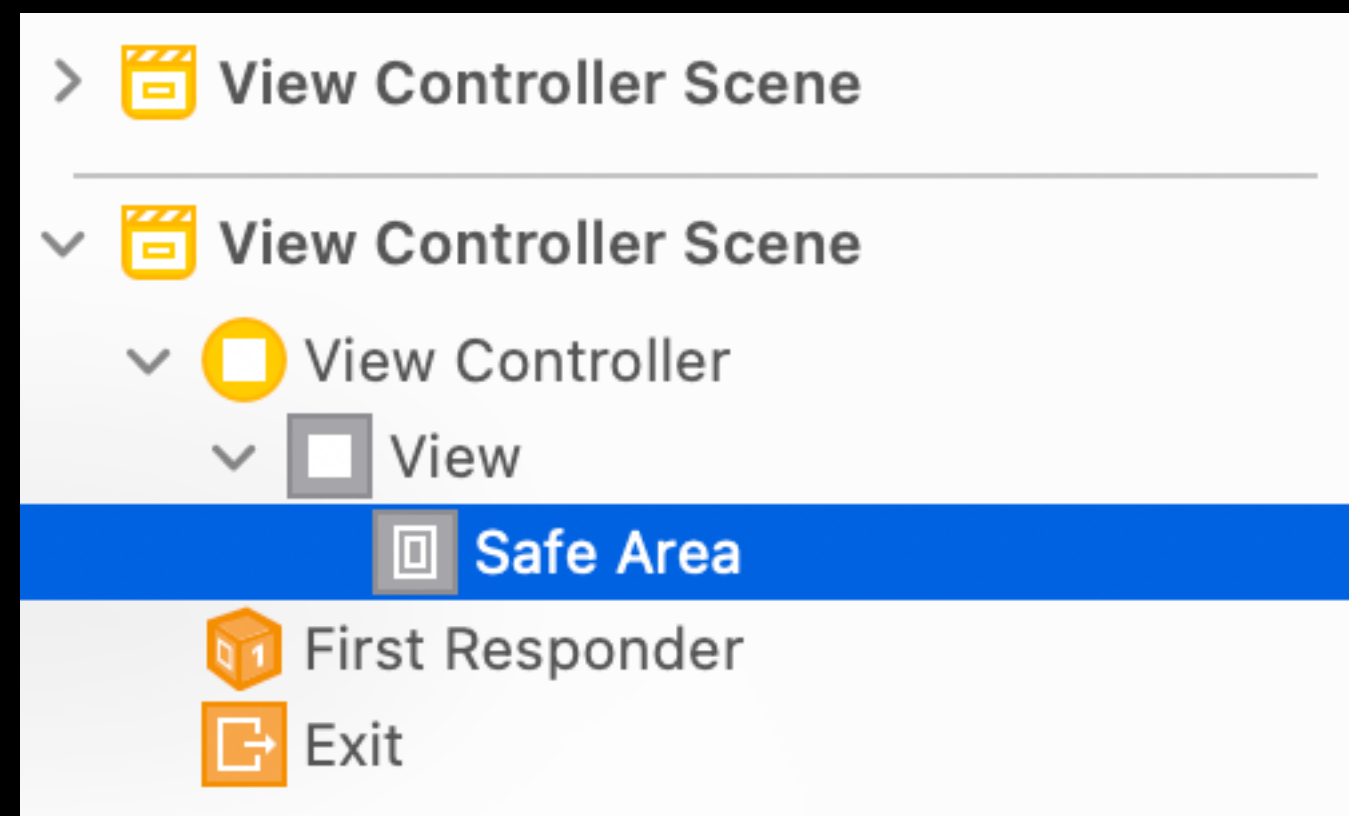
☐ Aspect Ratio

Add 3 Constraints

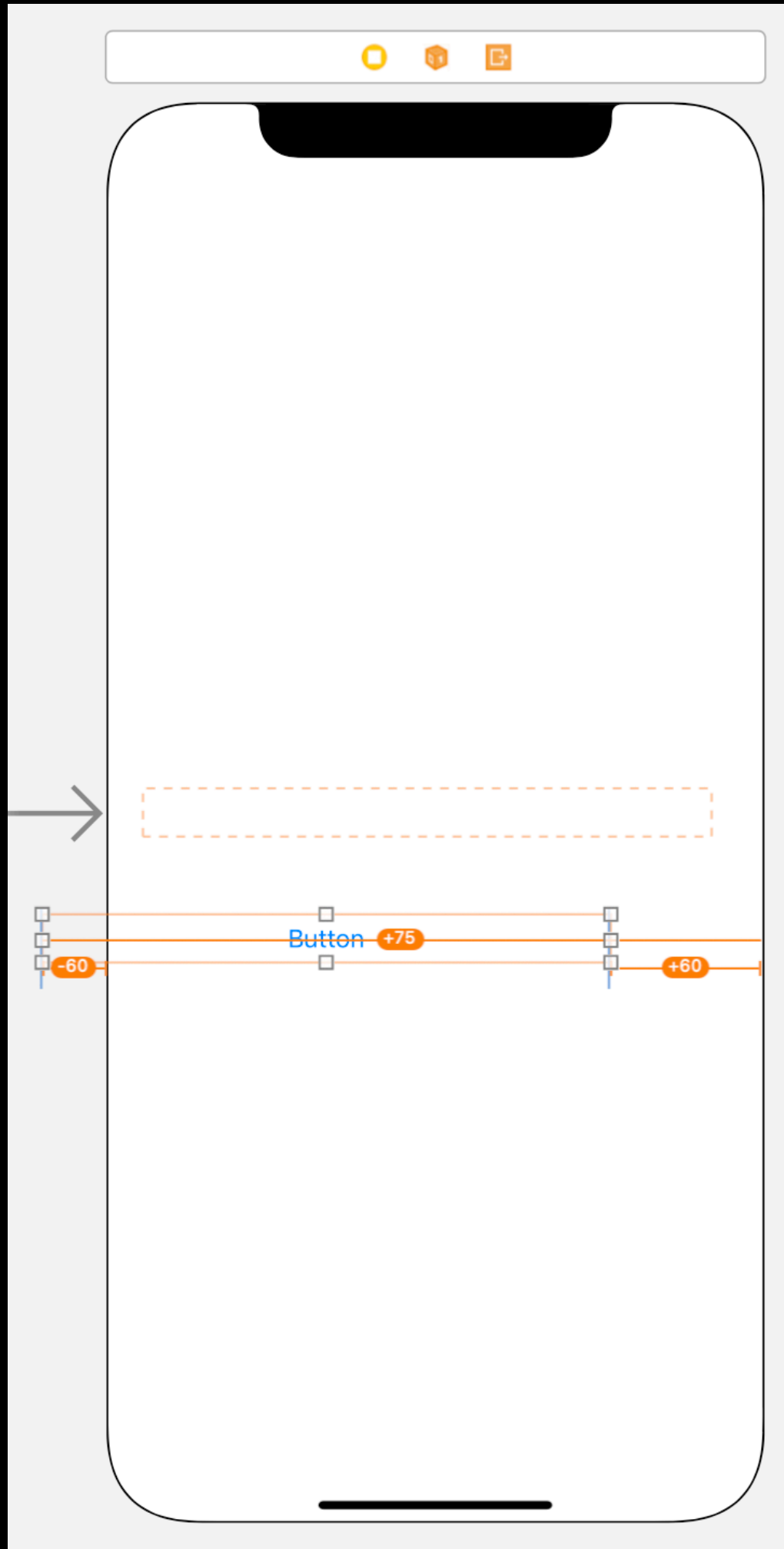
Resolve constraint issues



Safe area layout guide



Resolve constraint warnings



▼ **Misplaced Views**

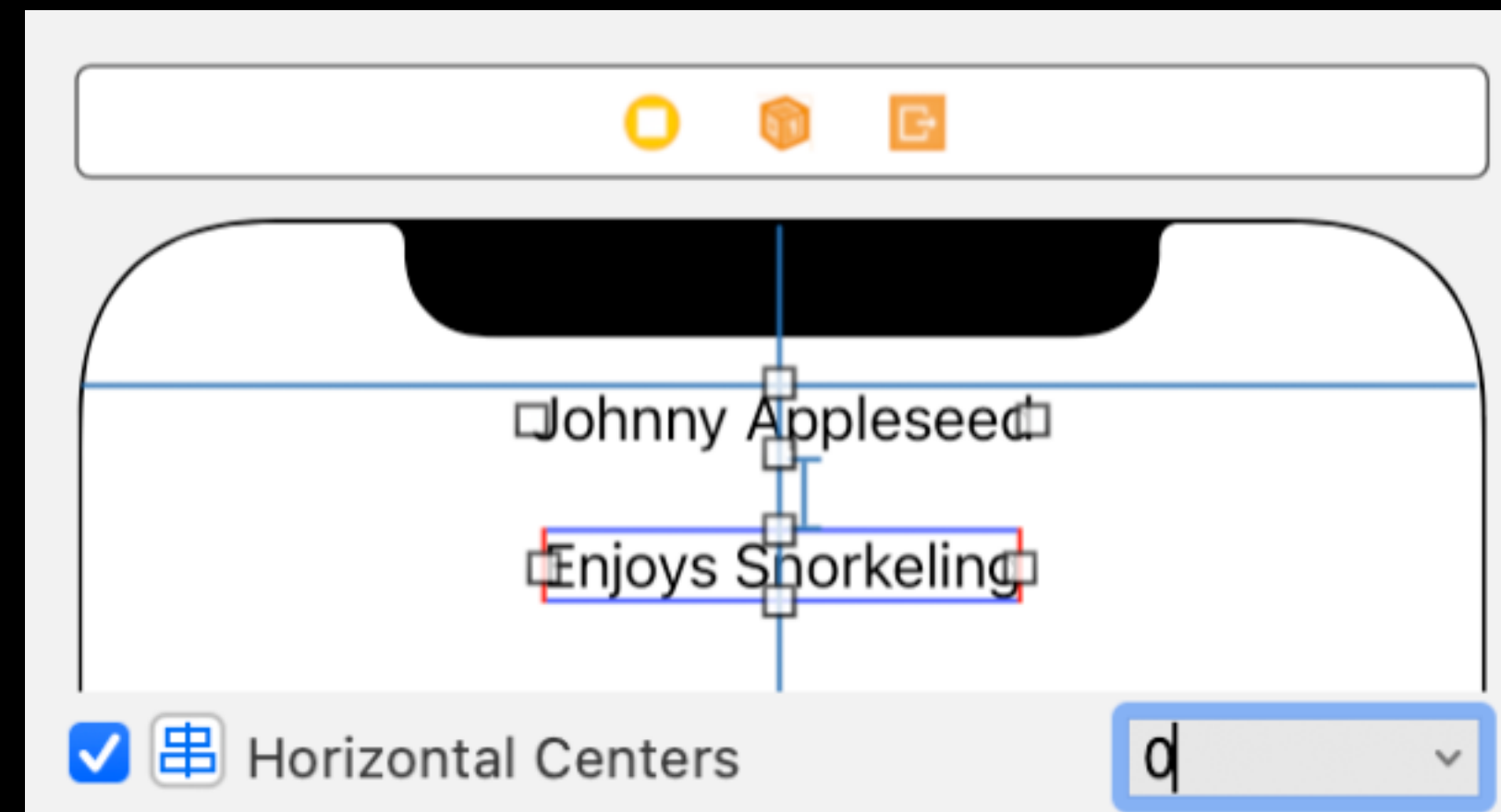
B Button

Expected: x=20, y=407

Actual: x=-40, y=482

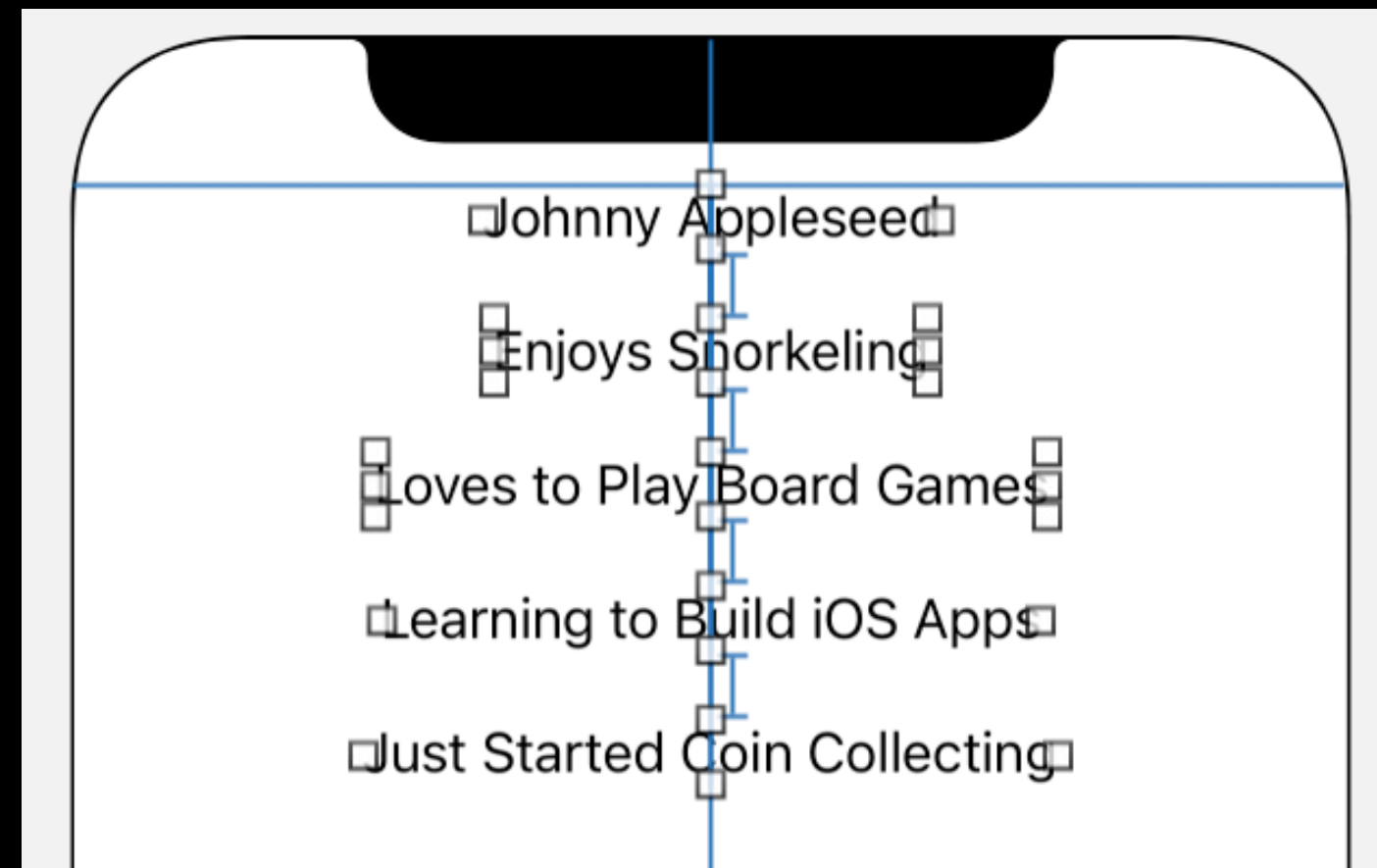


Constraints between siblings



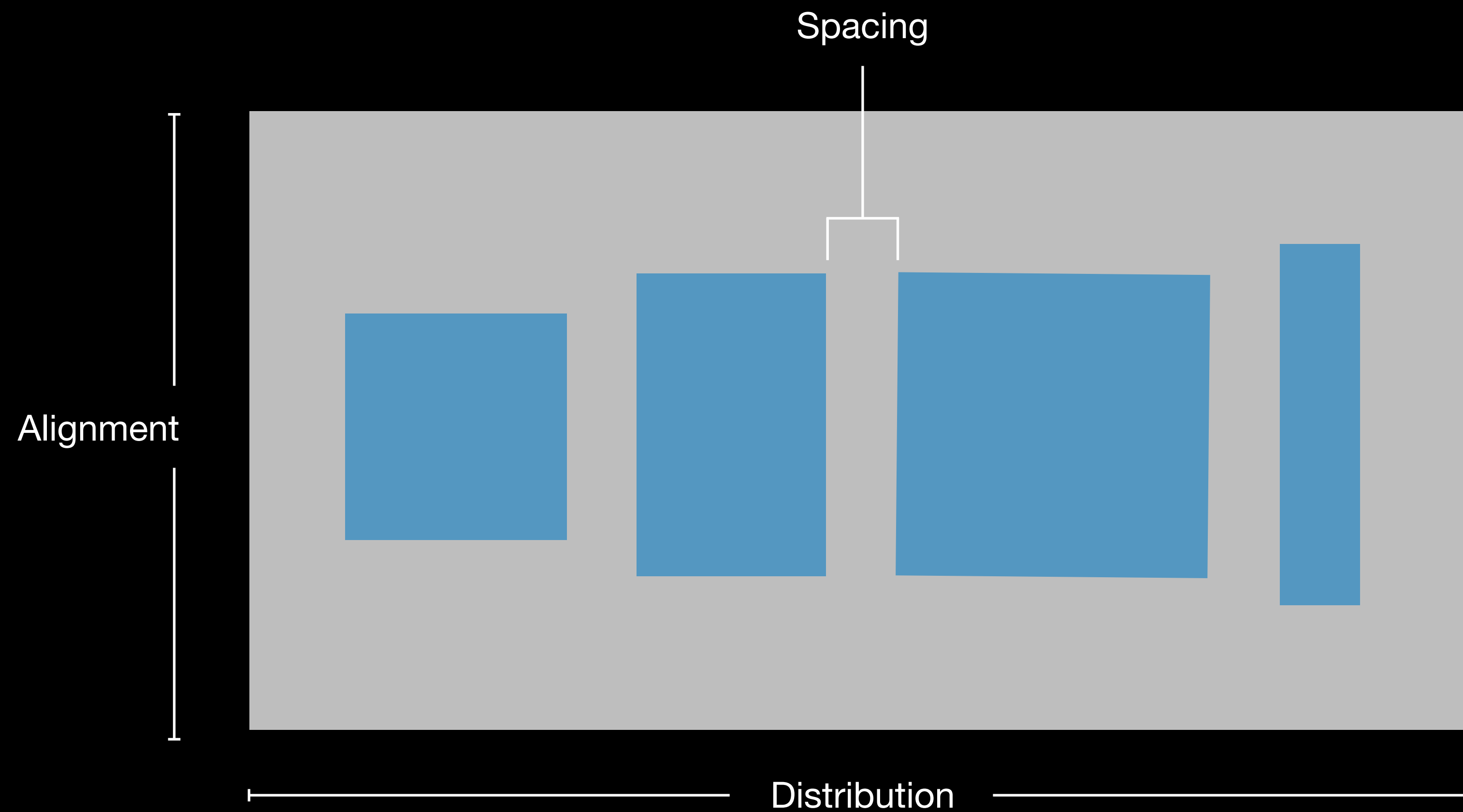
Stack views

Text



Stack views

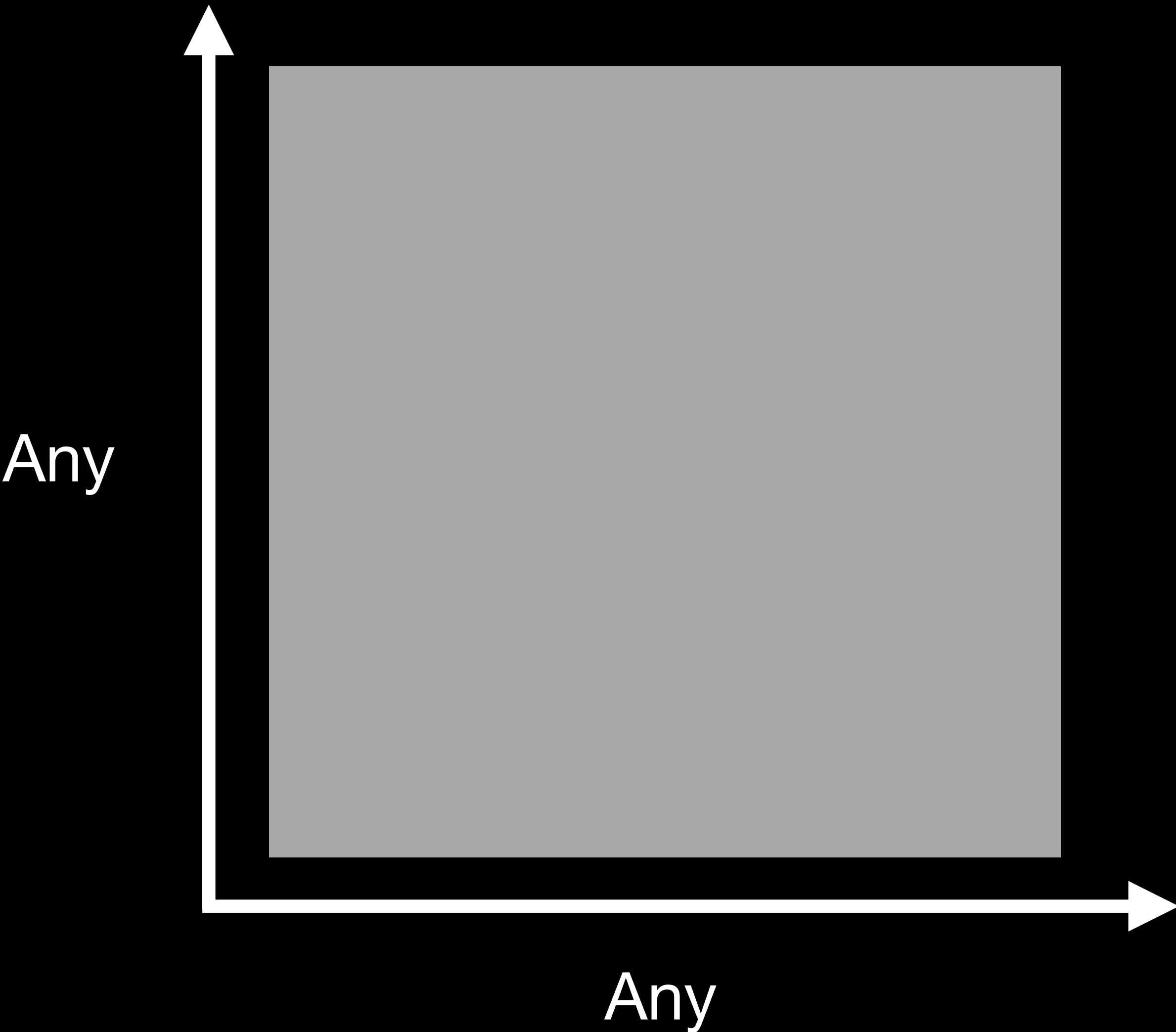
Stack view attributes



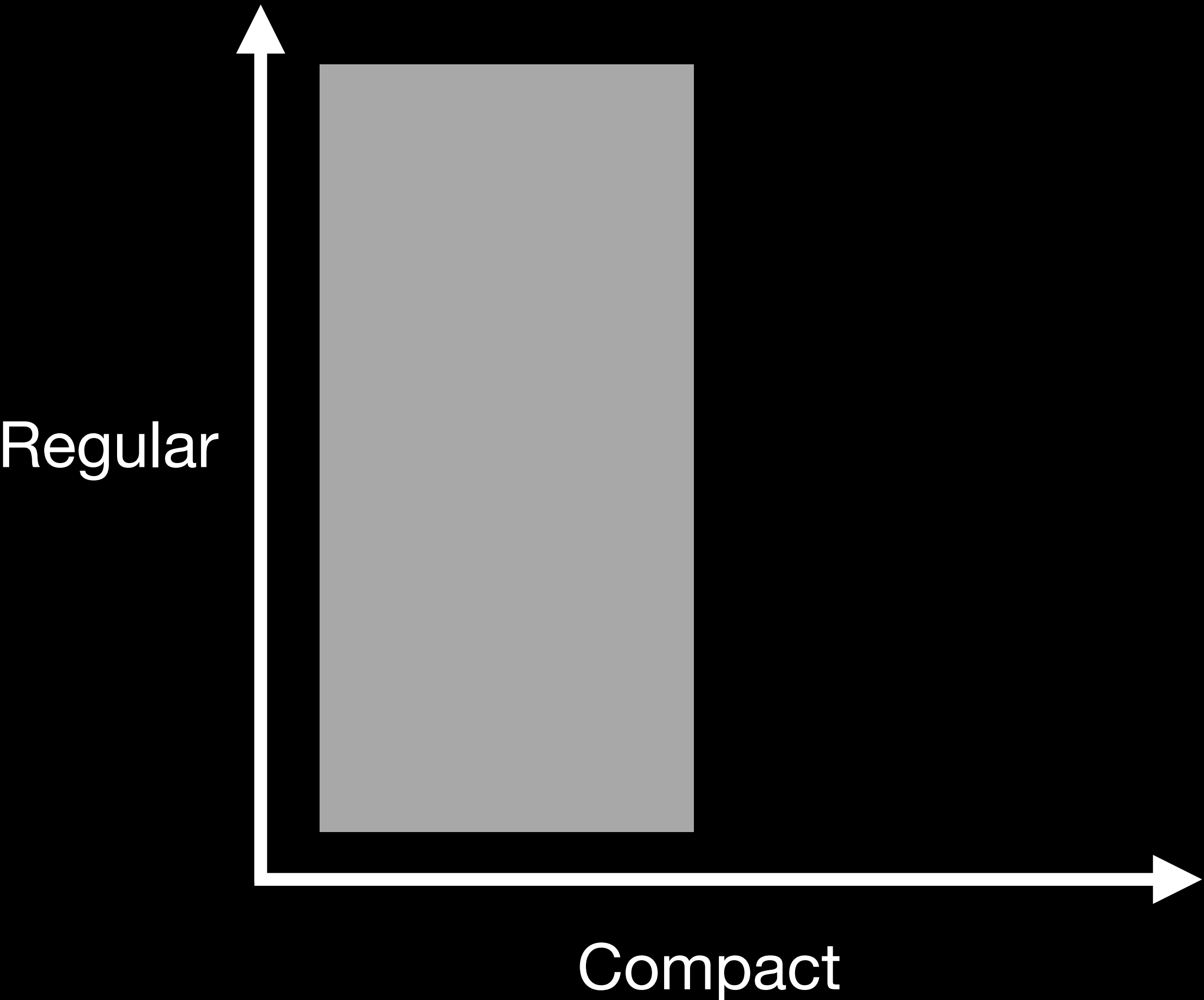
Size classes



Size classes



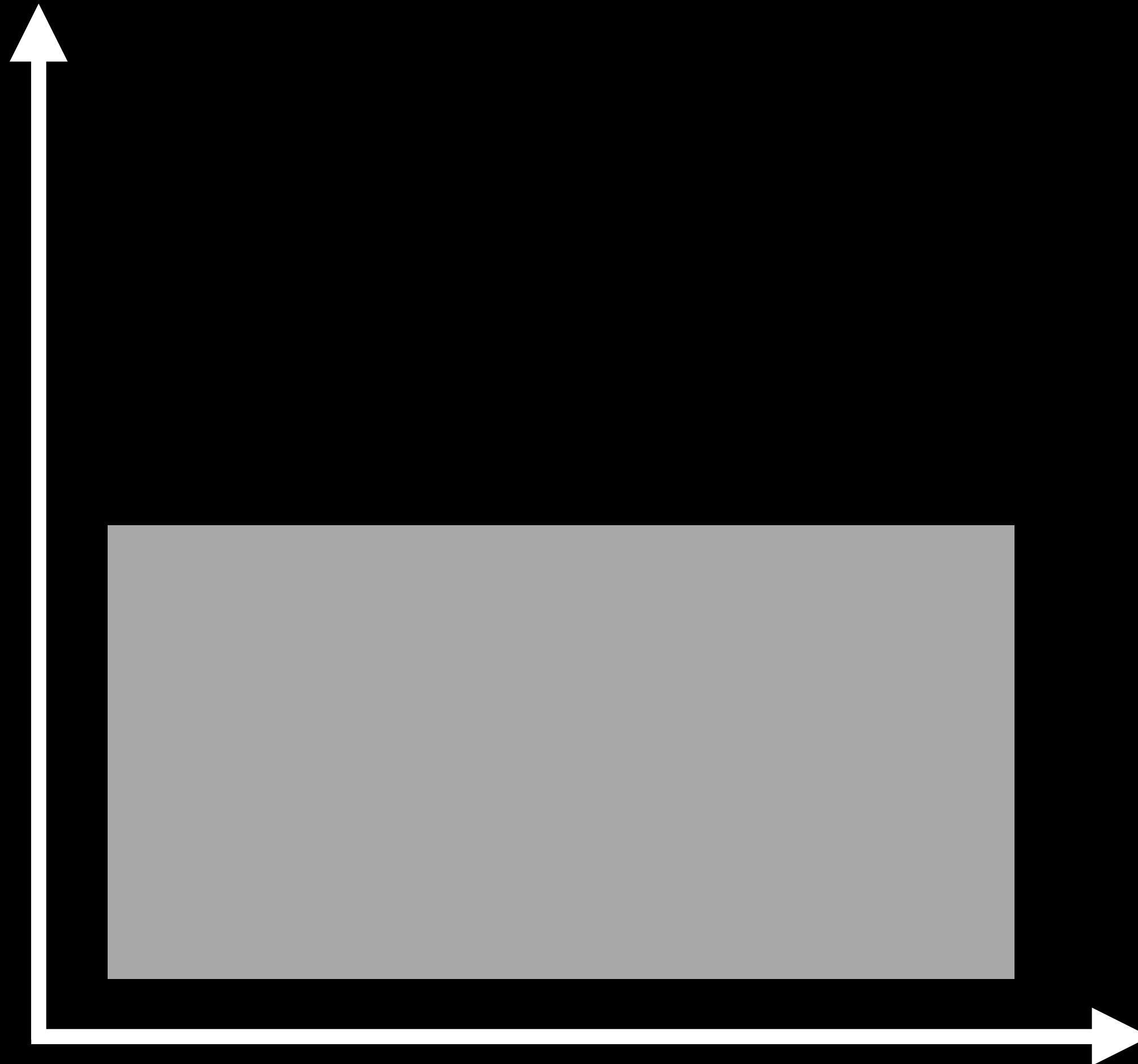
Size classes



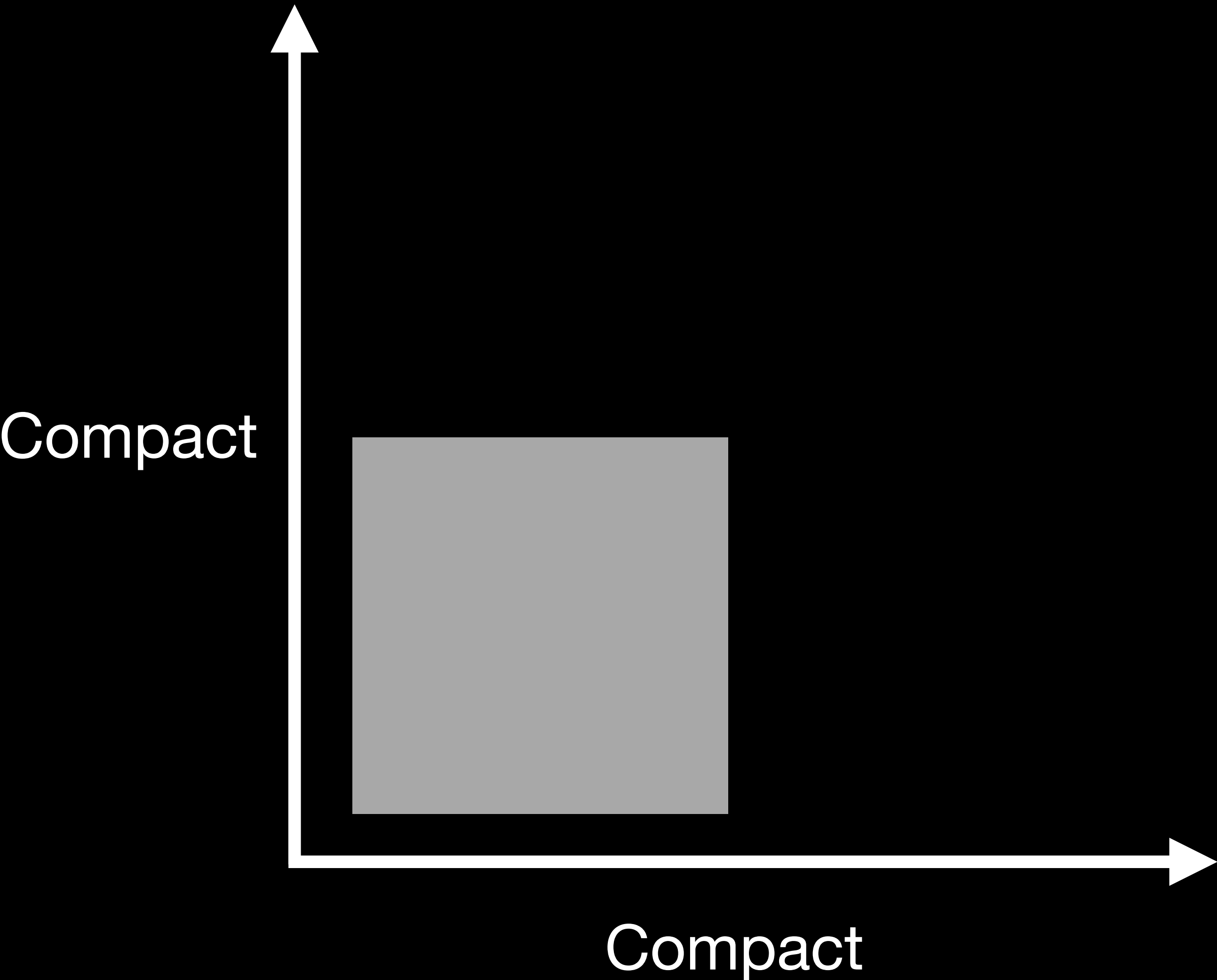
Size classes

Compact

Regular

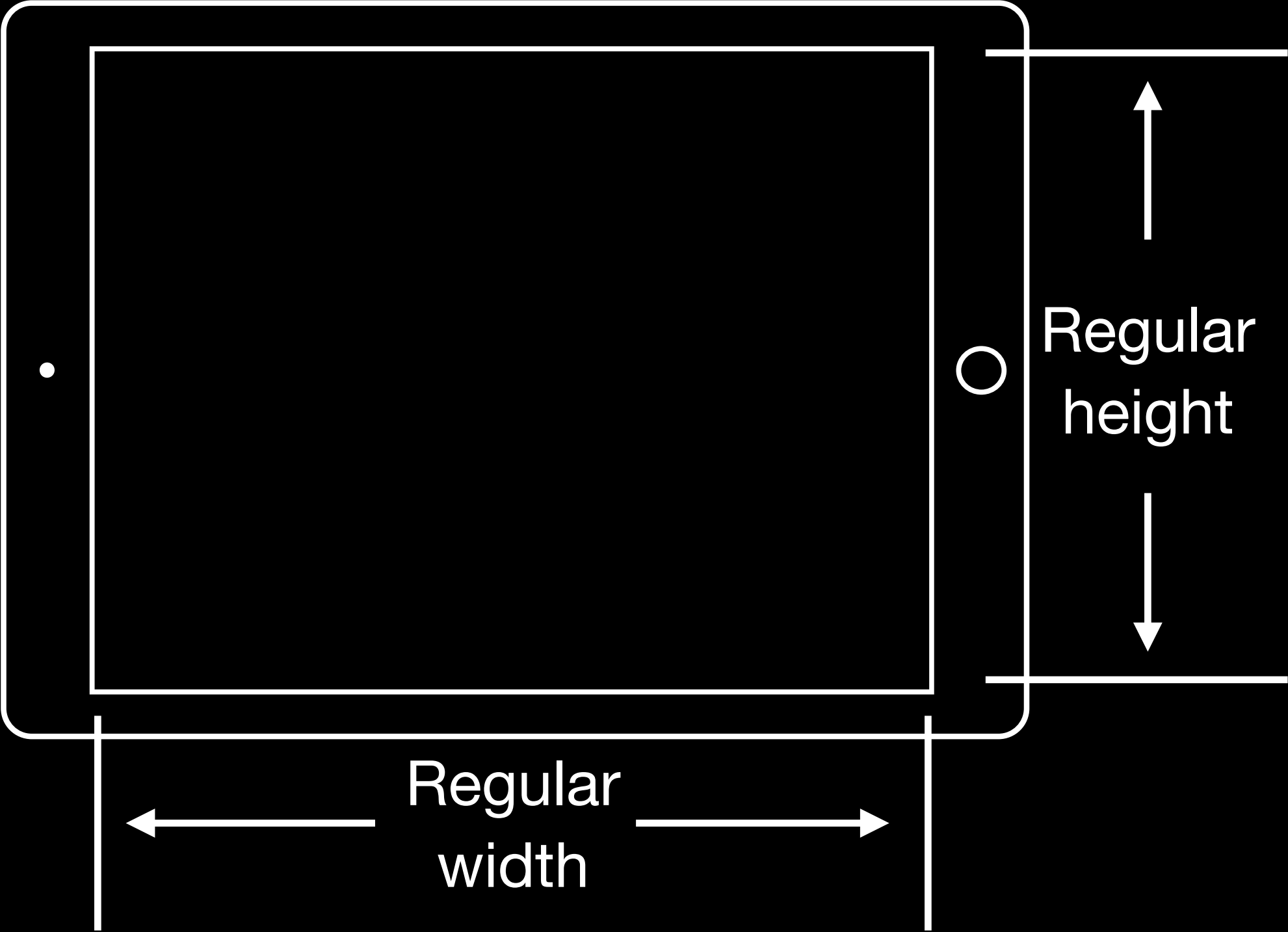
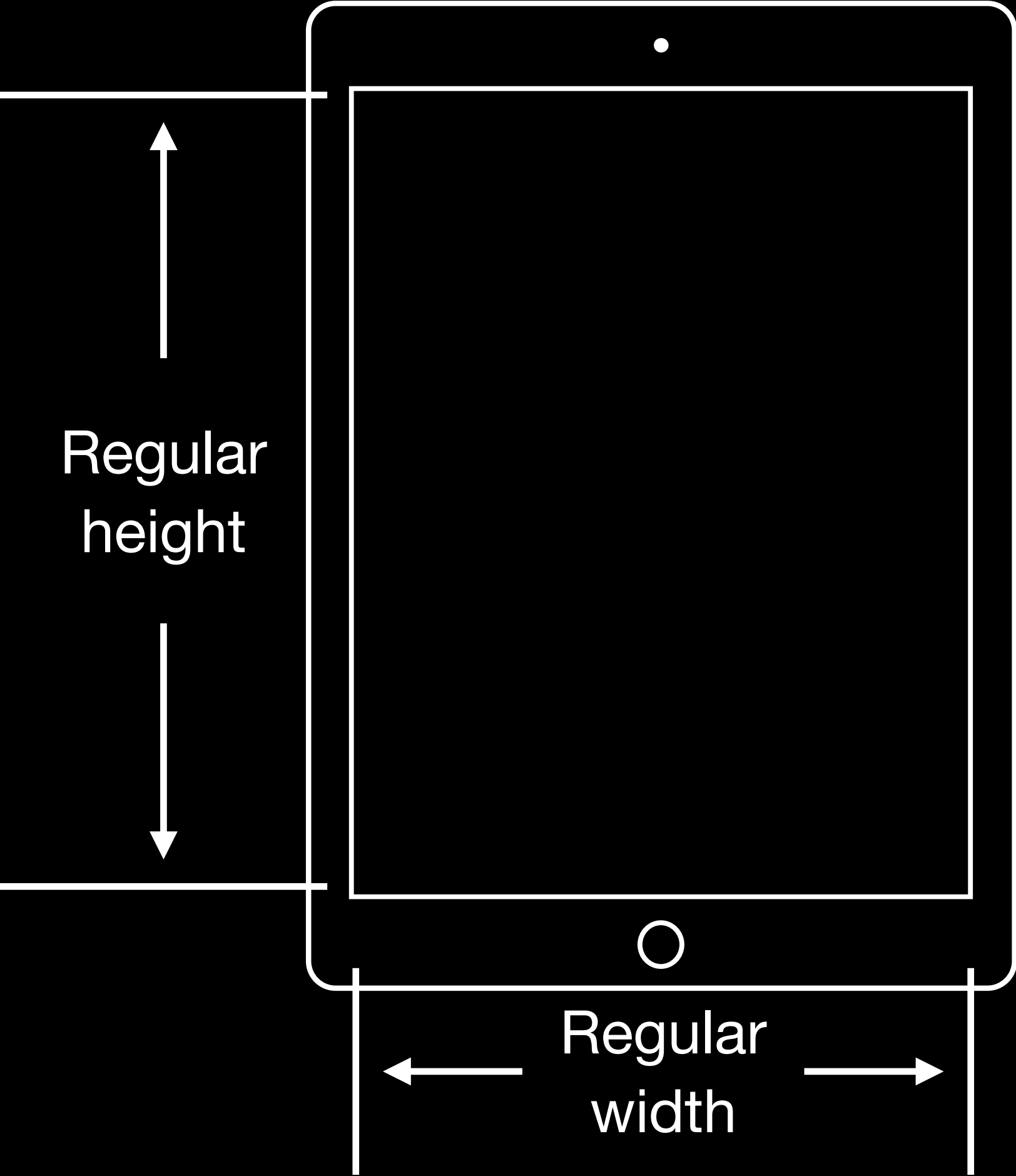


Size classes



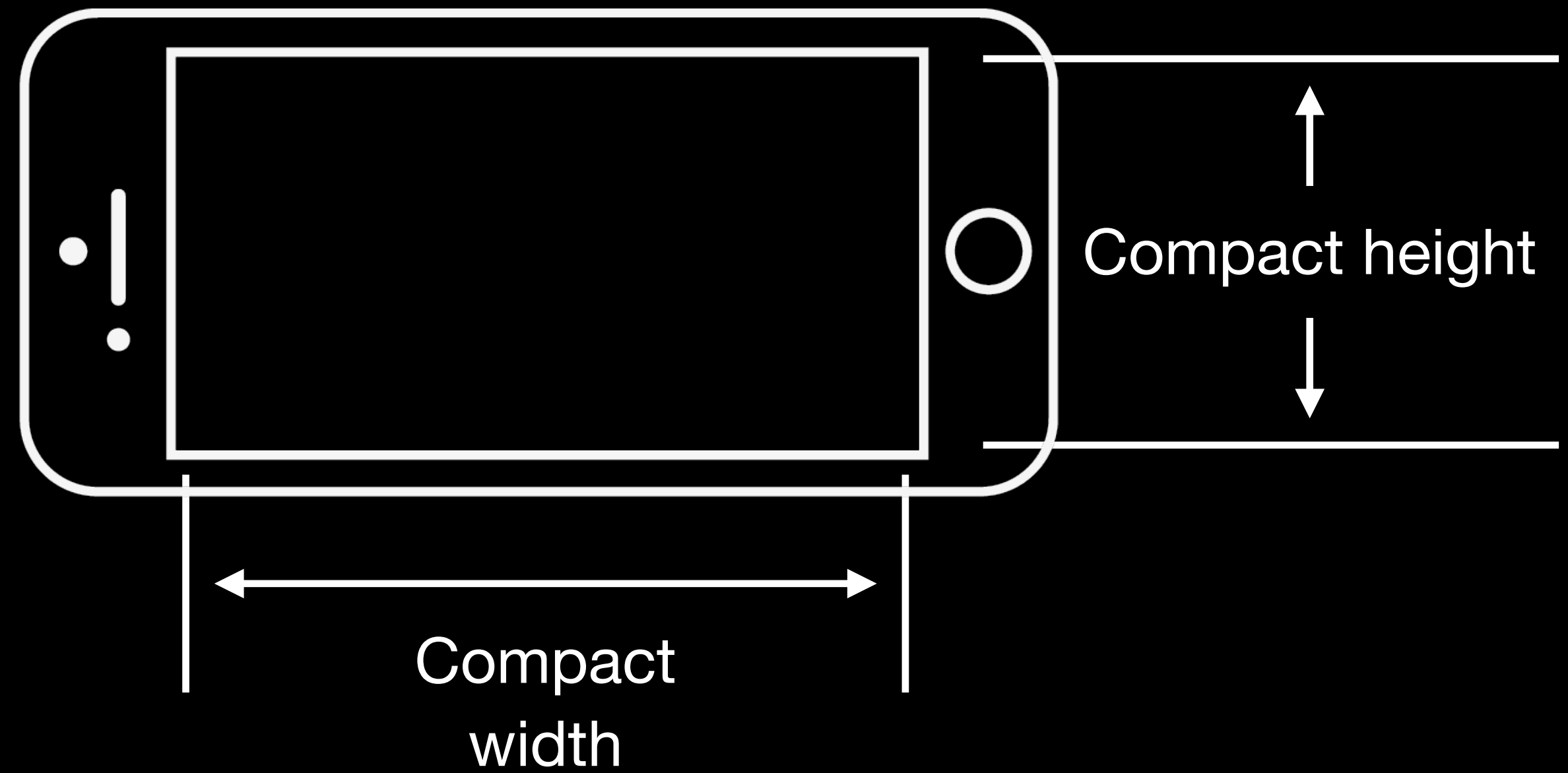
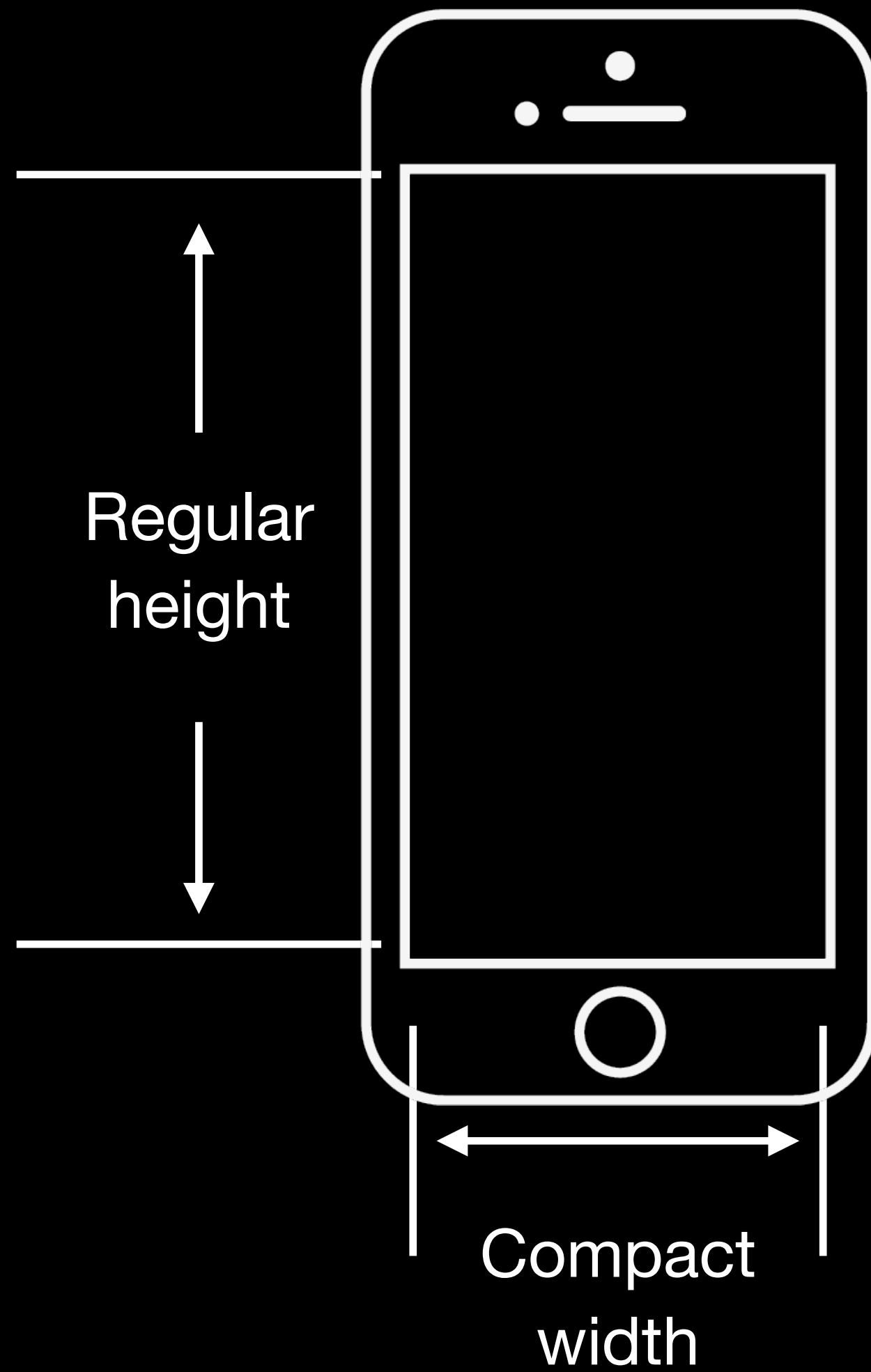
Size classes

iPad



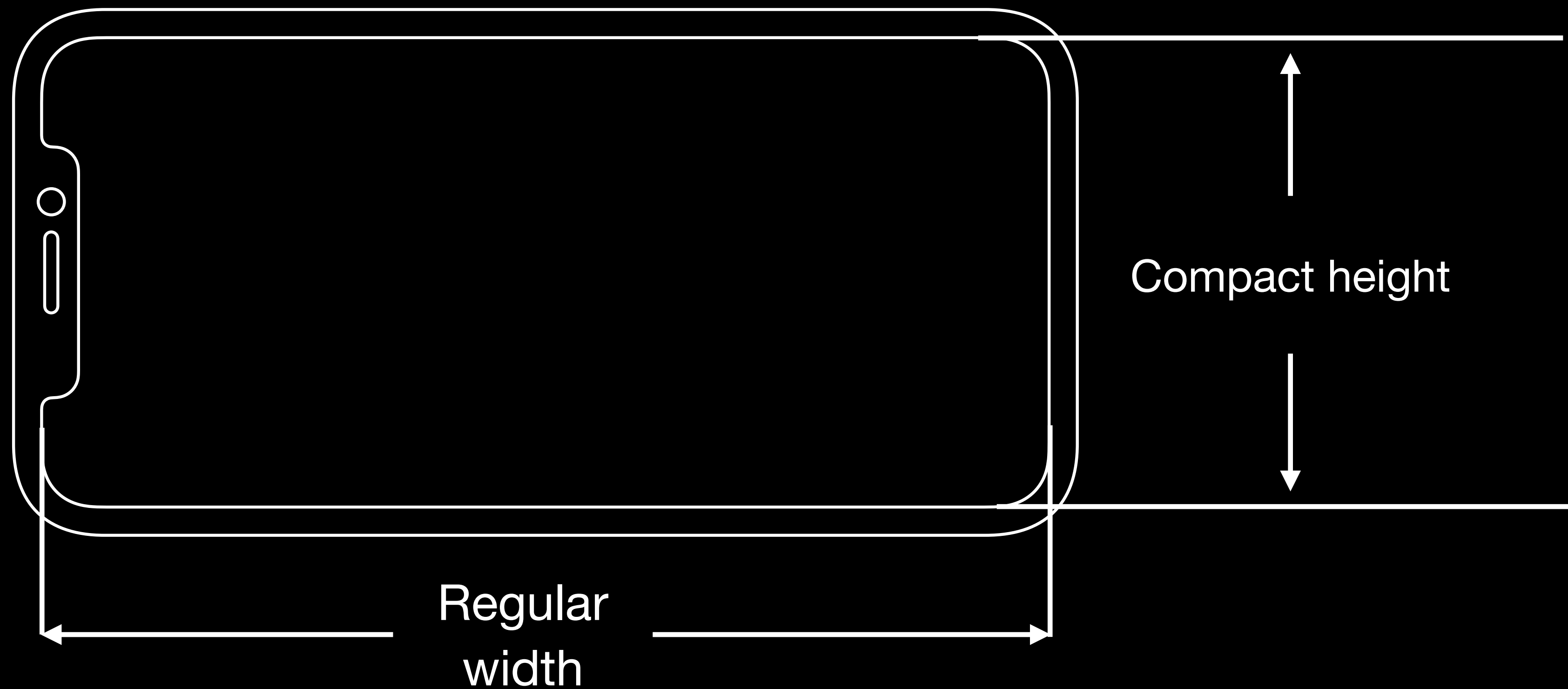
Size classes

iPhone



Size classes

All iPhone “Plus/Max” devices, iPhone XR, and iPhone 11



Unit 2—Lesson 10

Auto Layout and Stack Views



Learn the fundamentals of Auto Layout for building precisely designed user interfaces.

Unit 2—Lesson 10

Lab: Calculator

Use view objects, constraints, and stack views to create a simple calculator that maintains its layout on all device sizes.

