Auto Layout
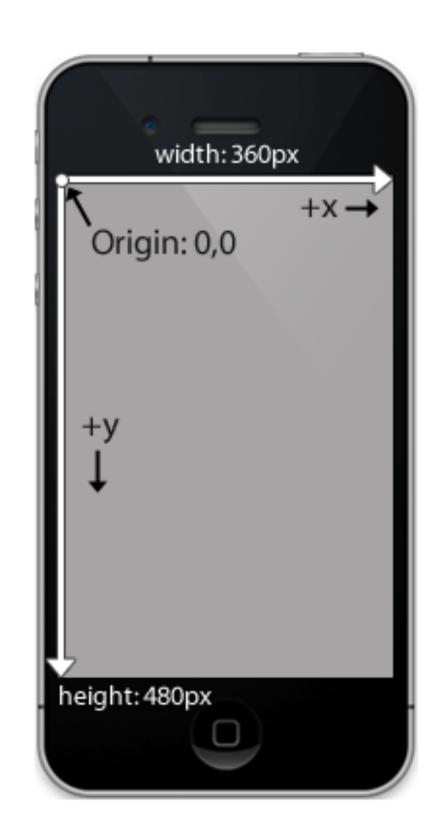
width: 360px

+x →

Origin: 0,0

+y

↓

height: 480px

What is Auto Layout?

Auto Layout is a system that lets you lay out your app's user interface by creating a mathematical description of the relationships between the elements. You define these relationships in terms of constraints either on individual elements, or between sets of elements.

- Apple's Layout Guide

Advantages

- Way more sophisticated (can accomplish more)

- Really helpful for internationalization / device rotation

- Makes animations more safe/consistent.

- Using w/ Size Classes can help use same UI for iPhone as well as iPad

📎 **Kelly Westover**   11:30 AM
Birthday party

● **Gilbert Solano**   11:27 AM
New kitten

● **Steve Benedict**   11:27 AM
Jersey trip

● **Tim Butler**   11:27 AM
Moving next week

● **Fermin Mata**   11:26 AM
Beautiful site

● **Jake Harman**   11:26 AM
Camping in Yosemite

Updated Just Now
15 Unread

From: **Kelly Westover** >   Hide

To: **Katie Ball** >

Birthday party
July 24, 2014 at 11:30 AM

I've got balloons. I've got cake. I even bought trick candles. We're meeting at my place at 7:00 p.m. this Friday. (As you know, Uli has no idea we're throwing him a party.) We'll have hors d'oeuvres before we light the cake and sing. Then we're all heading out in the Mission.

Sep 2014

| | Day | Week | **Month** | Year | | |

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	**9**	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

OCT

1	2	3	4	

9:00 AM 10:00 AM	Conference call
11:00 AM 12:00 PM	Go for run
1:00 PM 2:00 PM	Brainstorming session
3:00 PM 4:00 PM	Check-in
5:00 PM 7:00 PM	Family movie

Today   Calendars   Inbox

Constraints

- Can be built in Interface Builder

- Can be written in code using a "Visual Format Language"

- Can be built with objects.

- (Also a few third party options)

Intrinsic Size

- Height and Width figured out at layout time

- Content views that have content:

  - UILabel

  - UIImage

Other Thoughts

- No one way to use auto layout

- People new to auto layout tend to over constrain things

- Runtime will remove constraints if needed

Demos