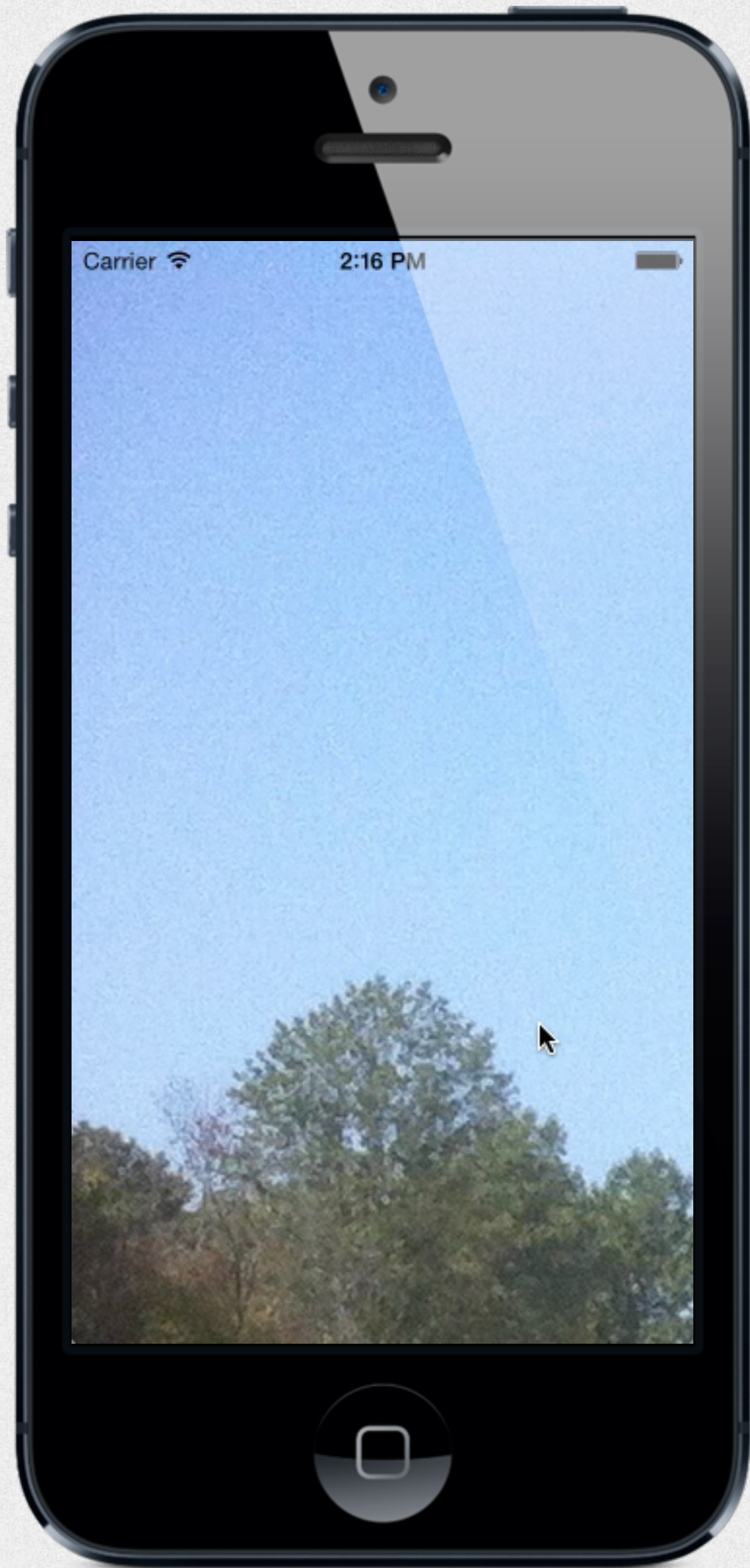


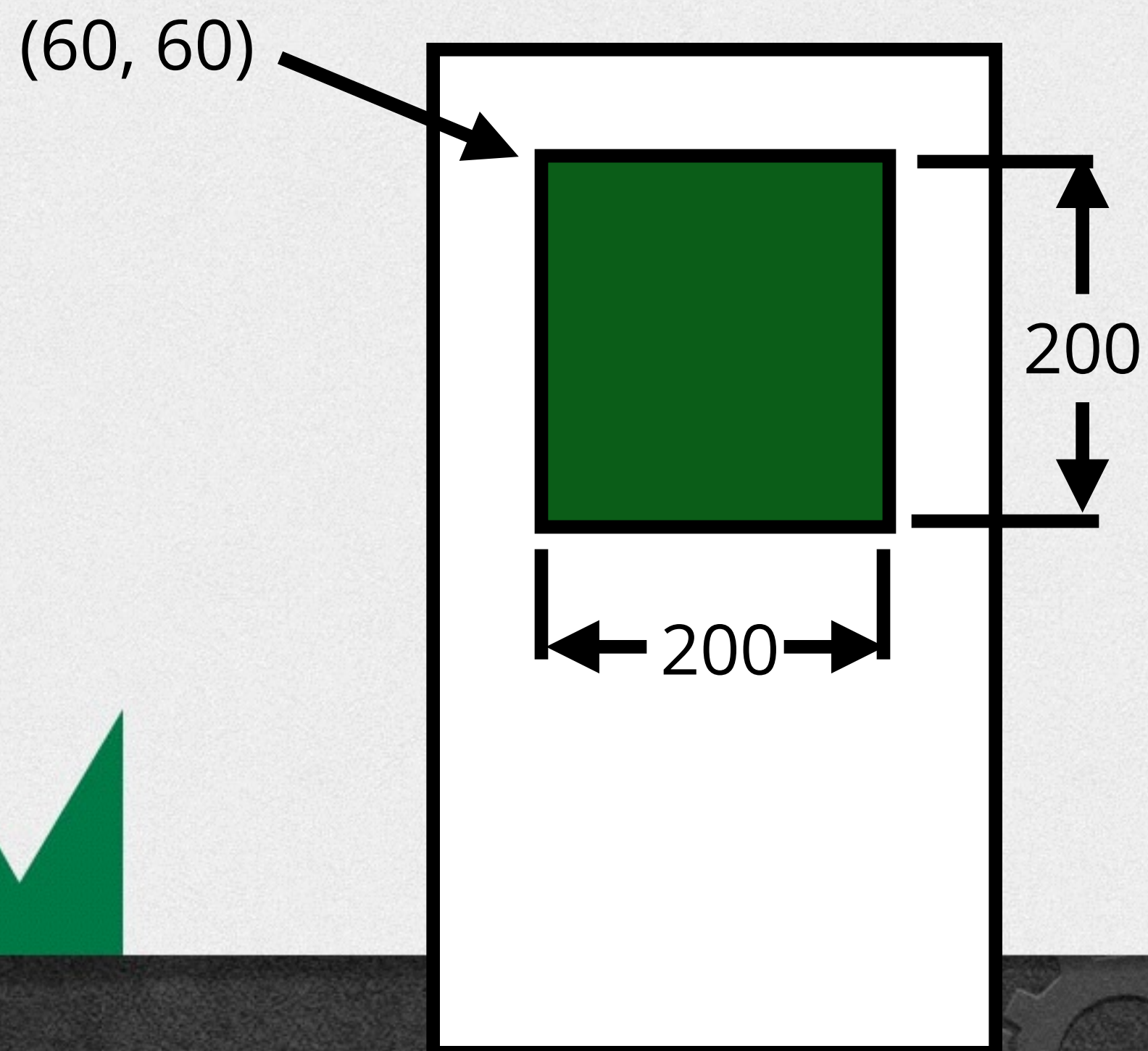
Scroll View School

Getting Started: Frames vs Bounds

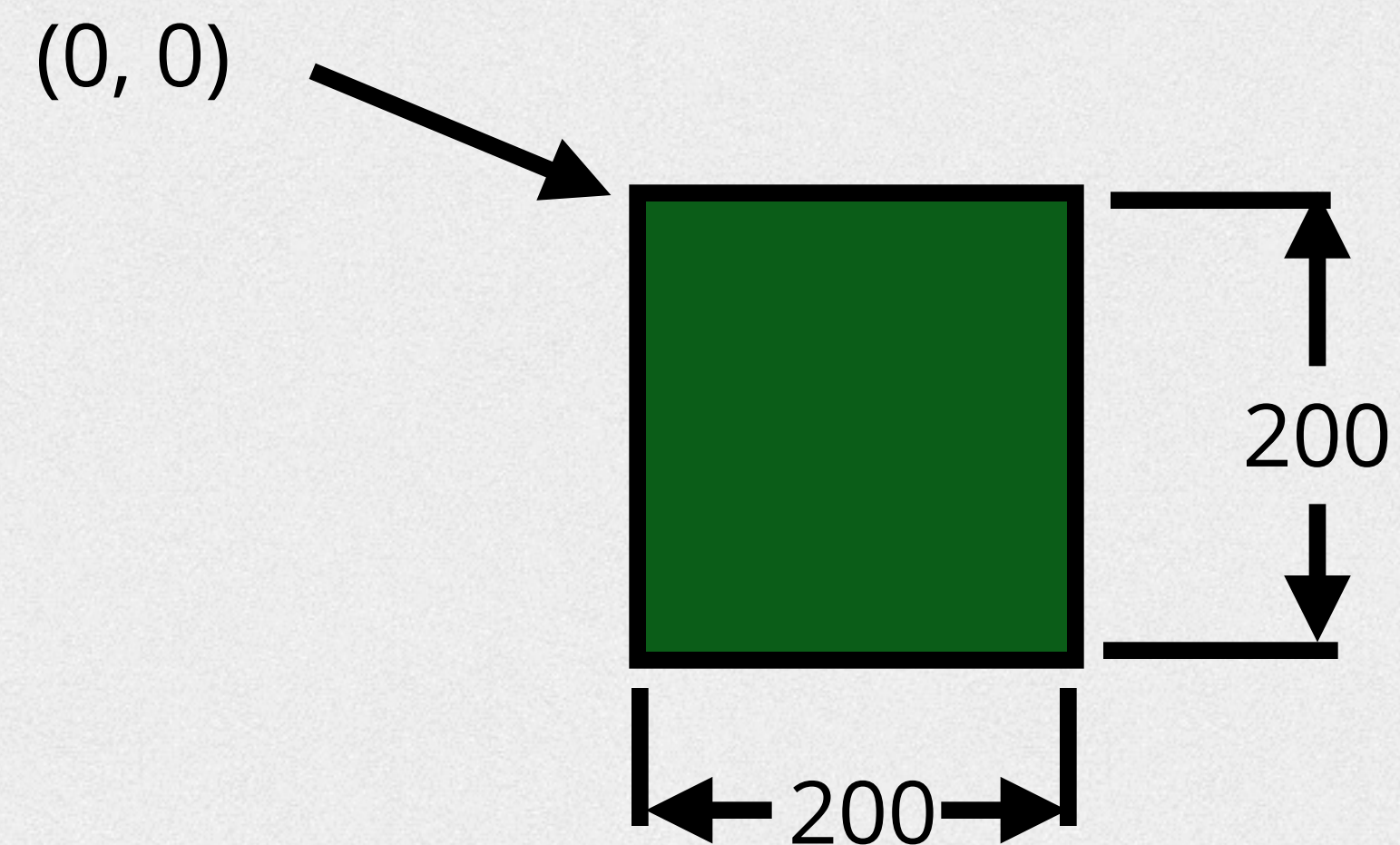


Bounds vs Frame

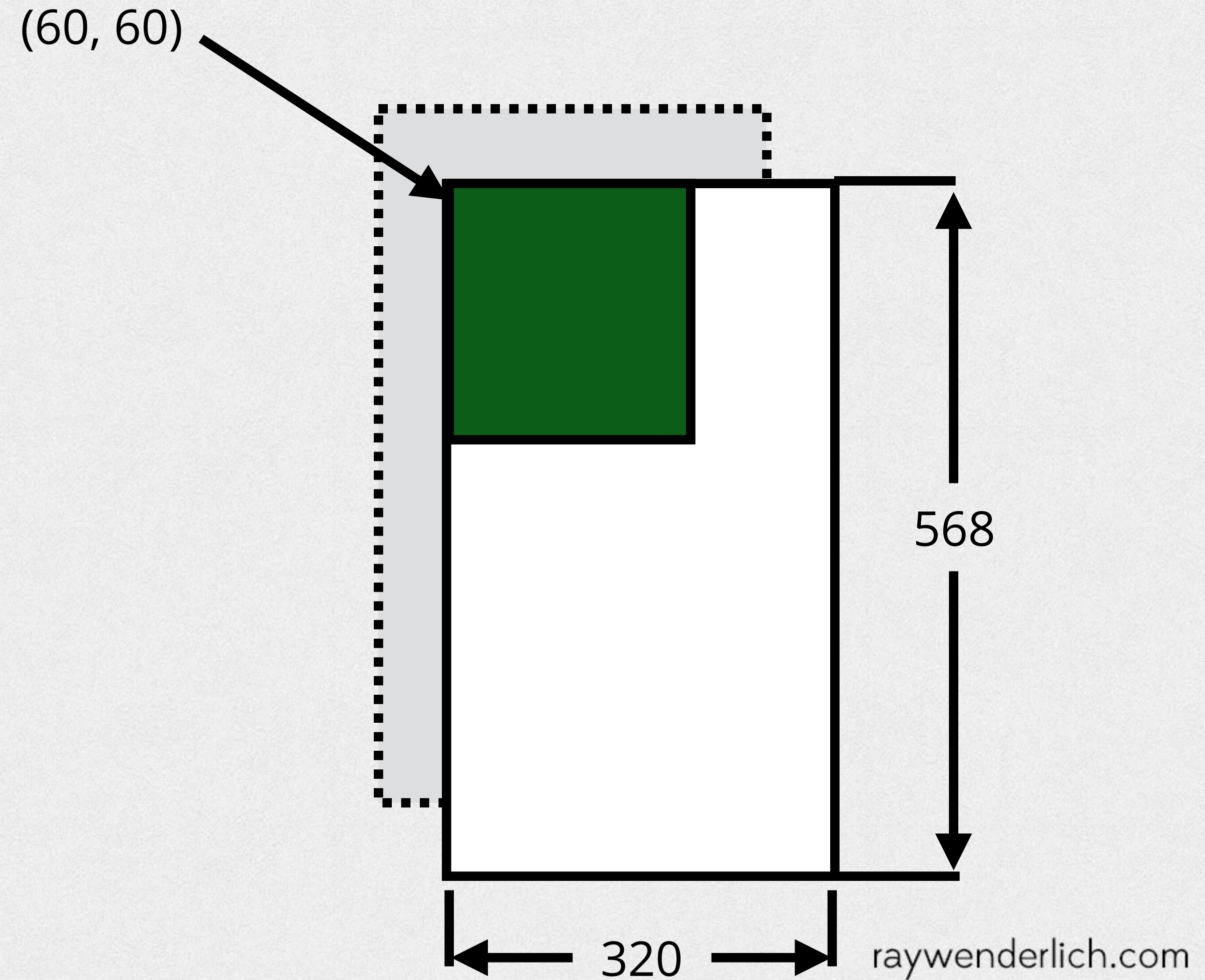
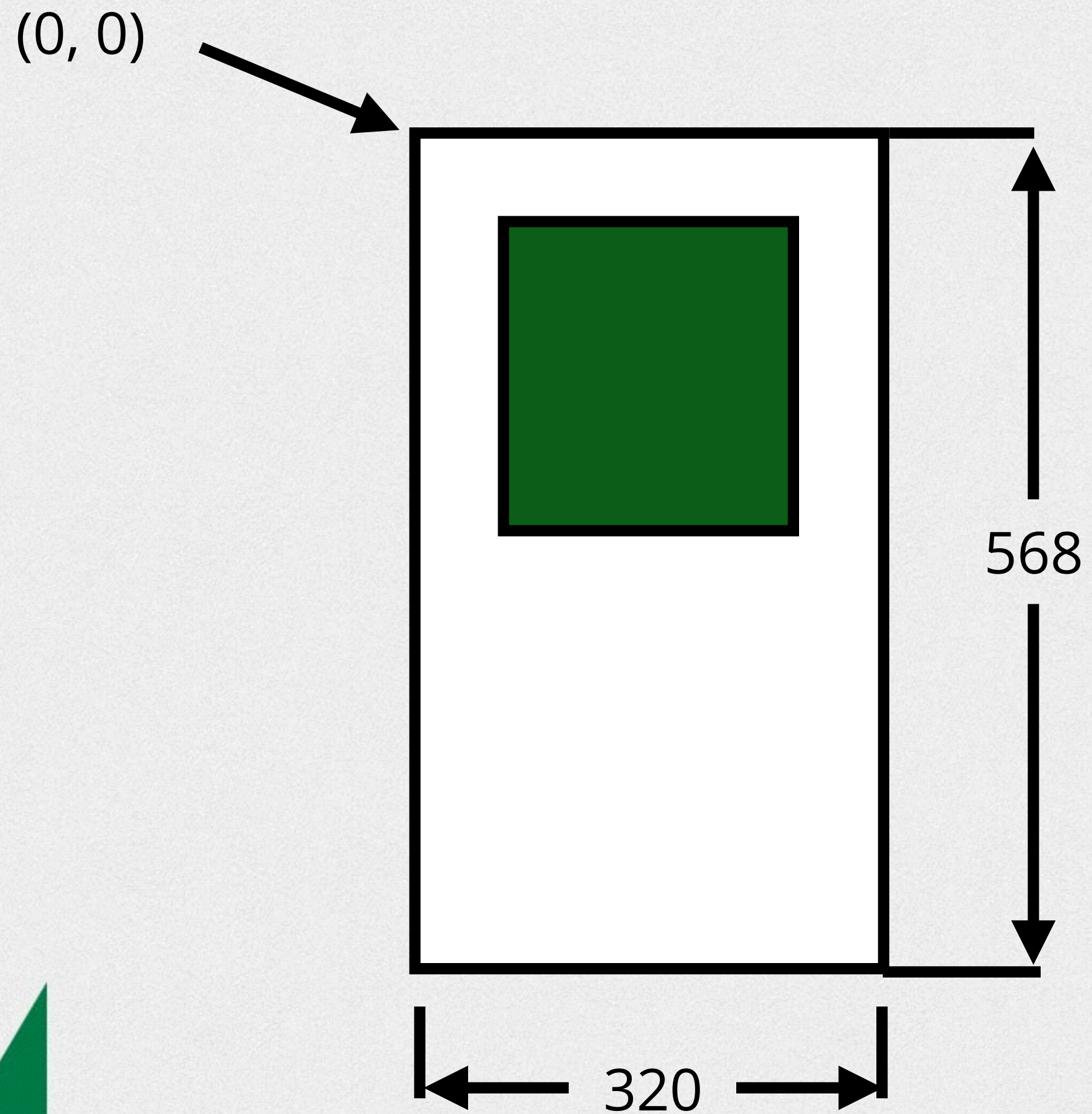
⚙️ **Frame:** Size and location of view within **superview's coordinate system**



⚙️ **Bounds:** Size of view (and content origin) in its **local coordinate system**



Changing Bounds



Demo: Frames vs Bounds



How Scroll Views Work

```
▼ □ UIScreen: Main Screen
  ▼ □ UIWindow
    ▼ □ UIView
      ▼ □ UIScrollView
        □ UIImageView
```



UIScrollView



UIImageView



How Scroll Views Work

Scroll View Frame:
(0, 0, 320, 568)

Scroll View Bounds:
(403, 682.5, 568, 568)

Content Offset:
(403, 682.5)



Image View Frame:
(0, 0, 2592, 1936)

Image View Bounds:
(0, 0, 2592, 1936)

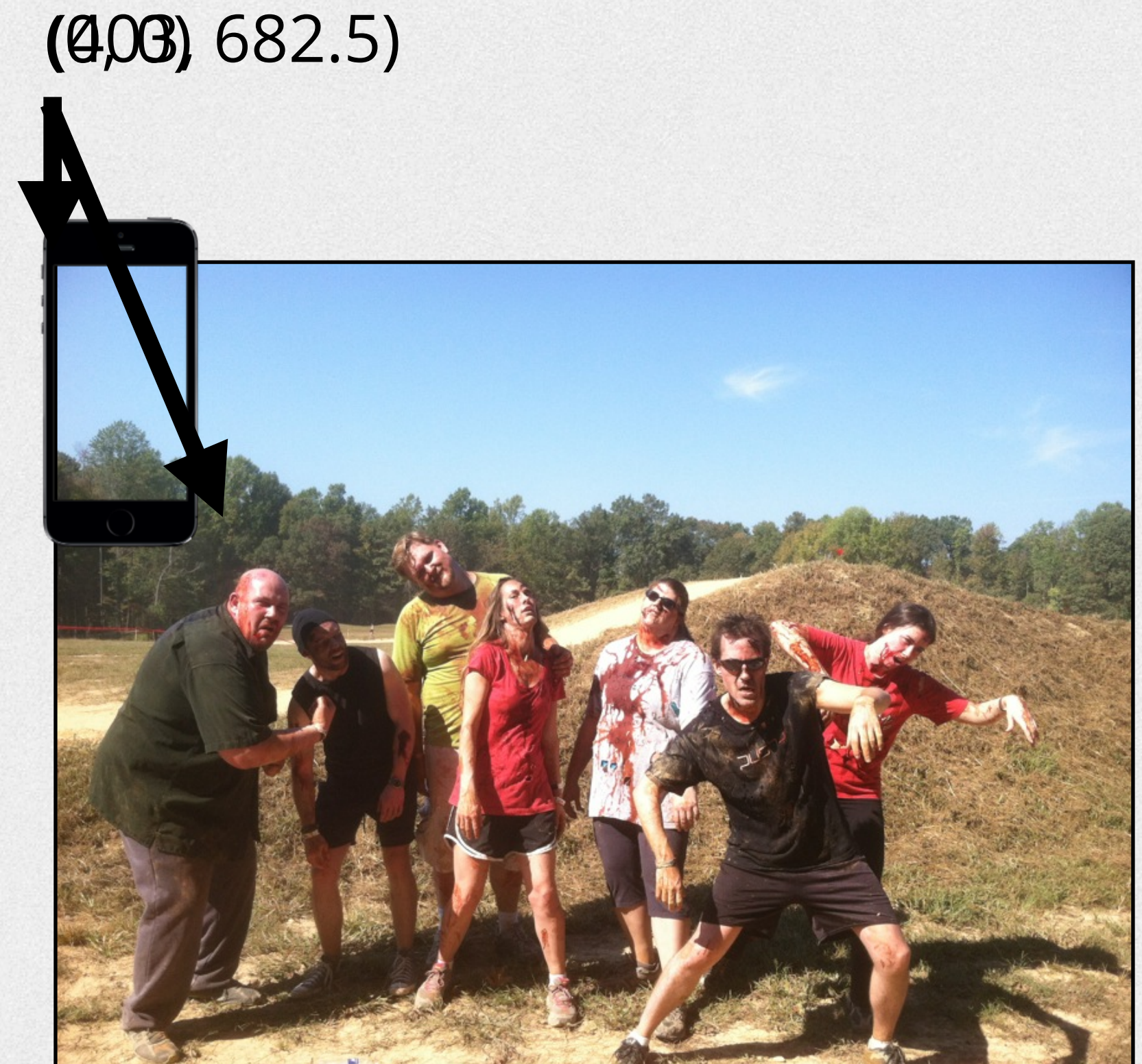
Content Size:
(2592, 1936)

Demo: Basic Scroll View



Key Takeaways

- ⚙️ As you drag, scroll view updates its `bounds.origin`
- ⚙️ `bounds.origin ==.contentOffset`
- ⚙️ You set the `contentSize`



Challenge Time!

