AutoLayout in iOS

- Anu Mittal

What is Auto Layout? 🤔

- Defines relationship between Views

- Dynamically calculate the size and position of views
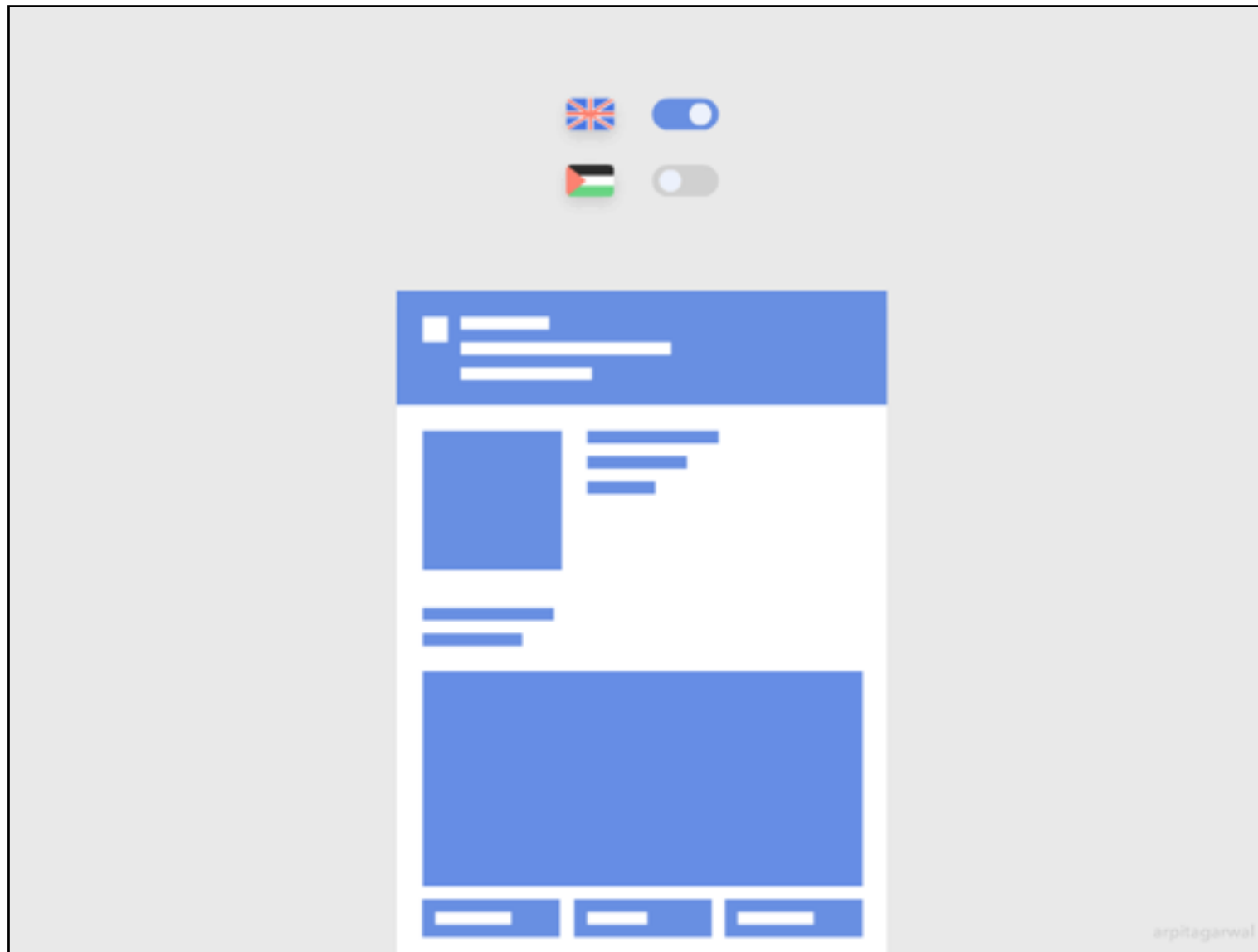
Why Auto Layout?

Responsive to size

Size comparison

iPhone 4s
3.5 inches

iPhone 5s
4 inches

iPhone 6
4.7 inches

iPhone 6
5.5 inches

iPad mini
7.9 inches

iPad Air
9.7 inches

Internationalization

with frames

$$view.frame.origin.x =$$
$$parentview.frame.origin.x$$
$$+ parentview.frame.size.width$$
$$+ K$$

with Autolayout

$$view.setLeftView(parentview, K)$$

Quick Wins 🏆

- Less Code 💻

- Less Calculations 🎛️

- Less Stress 🙌🏼

How?

How are we adding it to Zomato? 💁🏻

Categories and Extensions

```objc
- (void)setupConstraints {
    [self.headingLabel setTopView:self.contentView constant:kVerticalPadding15];
    [self.headingLabel setLeadingView:self.contentView constant:kSidePadding];
    [self.headingLabel setTrailingView:self.contentView constant:kSidePadding];

    [self.titleLabel setBelowView:self.headingLabel constant:kVerticalPadding8];
    [self.titleLabel setSameLeadingTrailingView:self.headingLabel];
    [self.titleLabel setBottomView:self.contentView constant:kVerticalPadding8];
}
```

```objectivec
- (void)setBelowView:(UIView *)view constant:(CGFloat)constant {
    if (![self validate:view]) {
        return;
    }
    self.topConstraint = [self.topAnchor constraintEqualToAnchor:view.bottomAnchor constant:constant];
    self.topConstraint.active = YES;
}

- (void)setBelowView:(UIView *)view {
    [self setBelowView:view constant:0];
}
```

```objectivec
- (void)setSameLeadingTrailingView:(UIView *)view {
    if (![self validate:view]) {
        return;
    }
    self.leadingConstraint = [self.leadingAnchor constraintEqualToAnchor:view.leadingAnchor];
    self.leadingConstraint.active = YES;
    self.trailingConstraint = [self.trailingAnchor constraintEqualToAnchor:view.trailingAnchor];
    self.trailingConstraint.active = YES;
}
```

Thank You! ⭐

Find me at: https://anumittal.in