PROPOSE

Android Mobile touch motion

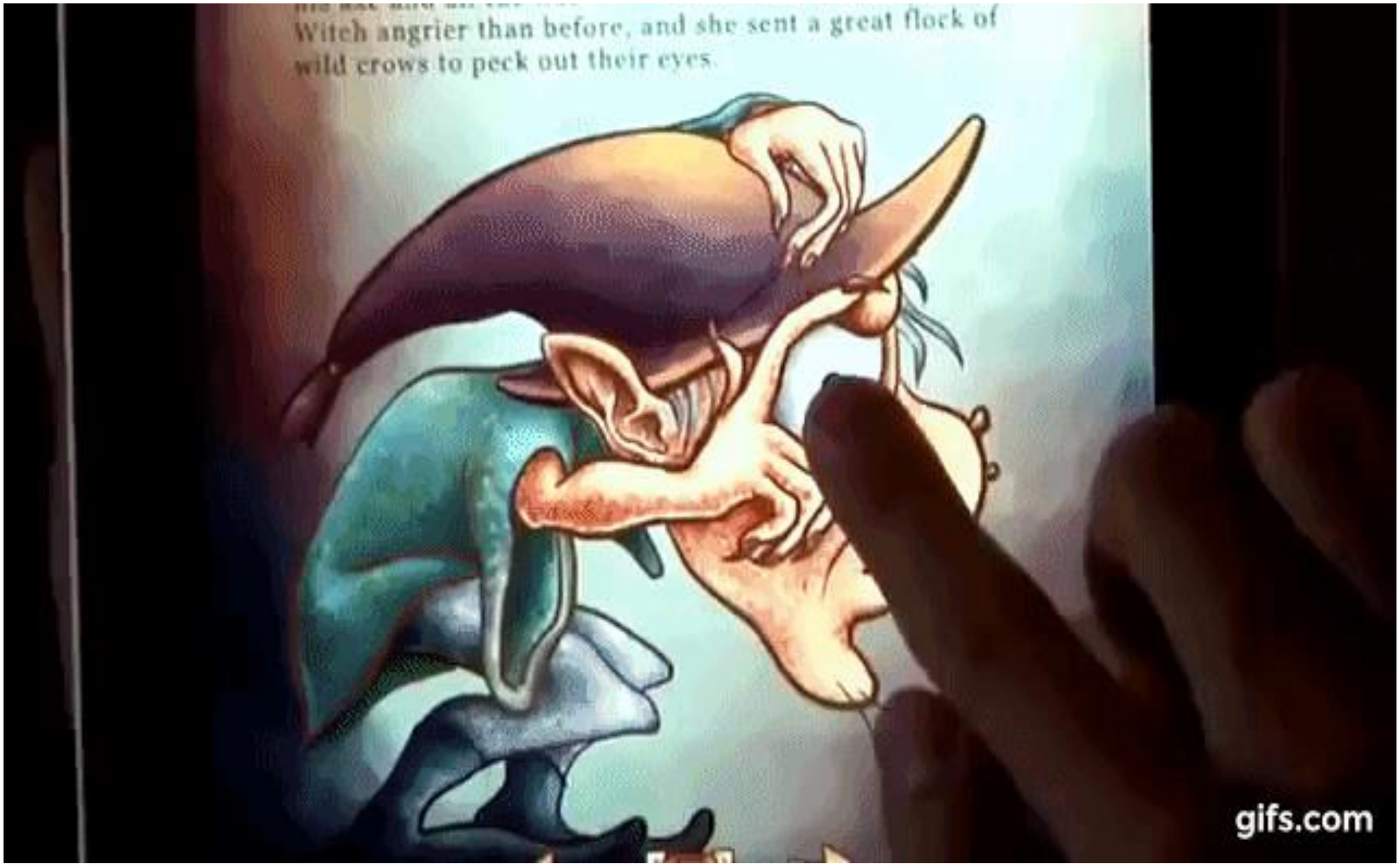
Propose Mobile touch motion

Jae Woong Oh

Propose Mobile touch motion

PROPOSE（プロポーズ）

Motion E-BOOK



Propose Mobile touch motion

It's too difficult

◀freely1028@gmail.com

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#괌 #대상상금 #남편수상 #구찌 #행복함

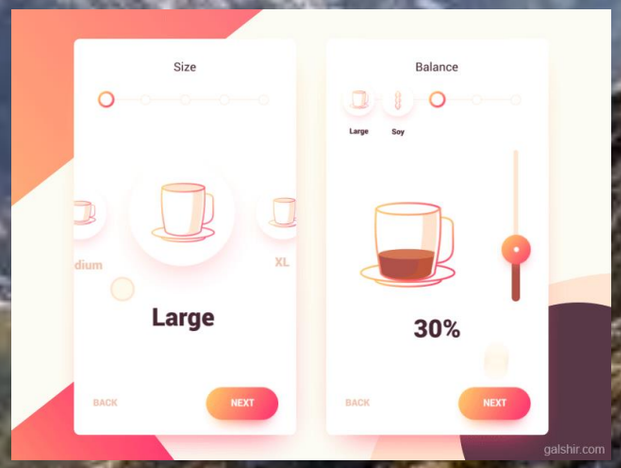
Propose Mobile touch motion

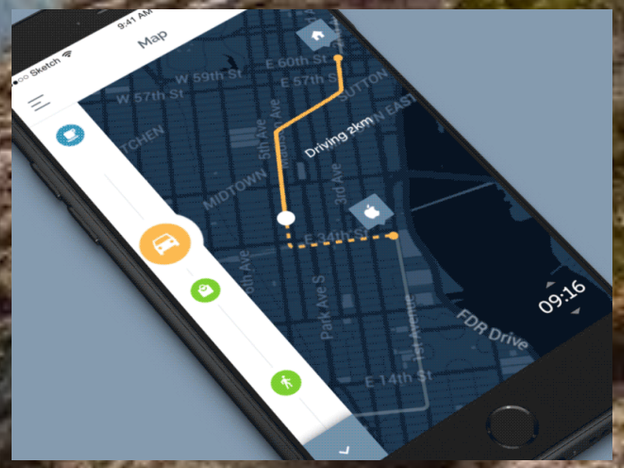
Motion Development

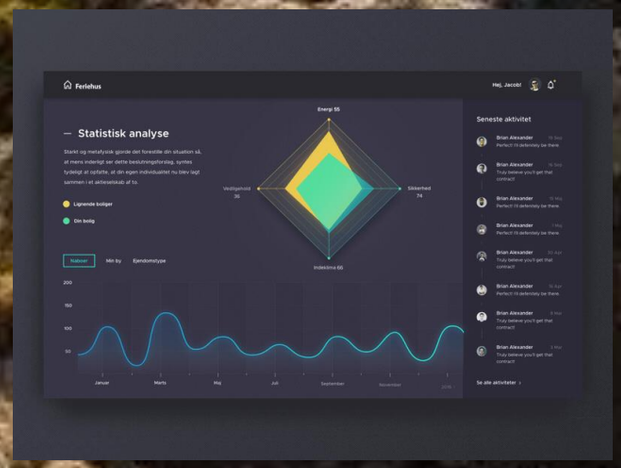
App

必ず越えなければならない山!

Developer







Propose Mobile touch motion

Easy

```
if ((Build.VERSION.SDK_INT >= 21) && getBackground() == null) {
    setBackgroundResource(R.drawable.control_background_multi_material);
}

mUiThreadId = Thread.currentThread().getId();

a = context.obtainStyledAttributes(attrs, io.apptik.widget.mslider.R.styleable.MultiSlider,
        defStyle, styleRes);
mNoInvalidate = true;
int numThumbs = a.getInt(io.apptik.widget.mslider.R.styleable.MultiSlider_thumbNumber, 2);
initMultiSlider(numThumbs);

Drawable trackDrawable = a.getDrawable(io.apptik.widget.mslider.R.styleable
        .MultiSlider_android_track);
if (trackDrawable == null) {
    trackDrawable = ContextCompat.getDrawable(getContext(),
            R.drawable.multislider_track_material
    );
}

setTrackDrawable(getTintedDrawable(trackDrawable, a.getColor(io.apptik.widget.mslider.R.styleable.MultiSlider_
mMinWidth = a.getDimensionPixelSize(R.styleable.MultiSlider_minWidth, mMinWidth);
mMaxWidth = a.getDimensionPixelSize(R.styleable.MultiSlider_maxWidth, mMaxWidth);
mMinHeight = a.getDimensionPixelSize(R.styleable.MultiSlider_minHeight, mMinHeight);
mMaxHeight = a.getDimensionPixelSize(R.styleable.MultiSlider_maxHeight, mMaxHeight);


setStep(a.getInt(io.apptik.widget.mslider.R.styleable.MultiSlider_scaleStep, mStep));
setStepsThumbsApart(a.getInt(io.apptik.widget.mslider.R.styleable
                .MultiSlider_stepsThumbsApart,
        mStepsThumbsApart));
setDrawThumbsApart(a.getBoolean(io.apptik.widget.mslider.R.styleable
                .MultiSlider_drawThumbsApart,
        mDrawThumbsApart));
setMax(a.getInt(io.apptik.widget.mslider.R.styleable.MultiSlider_scaleMax, mScaleMax),true);
setMin(a.getInt(io.apptik.widget.mslider.R.styleable.MultiSlider_scaleMin, mScaleMin),true);


mMirrorForRtl = a.getBoolean(io.apptik.widget.mslider.R.styleable.MultiSlider_mirrorForRTL,
        mMirrorForRtl);

// --> now place thumbs

defThumbDrawable = a.getDrawable(io.apptik.widget.mslider.R.styleable
        .MultiSlider_android_thumb);

if (defThumbDrawable == null) {
    if (Build.VERSION.SDK_INT >= 21) {
        defThumbDrawable = ContextCompat.getDrawable(getContext(), R.drawable.multislider_thumb_material_anim)
    } else {
        defThumbDrawable = ContextCompat.getDrawable(getContext(), R.drawable.multislider_thumb_material);
    }
}

defRangeDrawable = a.getDrawable(io.apptik.widget.mslider.R.styleable
        .MultiSlider_range);
if (defRangeDrawable == null) {
    defRangeDrawable = ContextCompat.getDrawable(getContext(),
            R.drawable.multislider_range_material
    );
}

Drawable range1Drawable = a.getDrawable(io.apptik.widget.mslider.R.styleable
        .MultiSlider_range1);
Drawable range2Drawable = a.getDrawable(io.apptik.widget.mslider.R.styleable
        .MultiSlider_range2);


defRangeColor = a.getColor(io.apptik.widget.mslider.R.styleable.MultiSlider_rangeColor, 0);
defThumbColor = a.getColor(io.apptik.widget.mslider.R.styleable.MultiSlider_thumbColor, 0);
setThumbDrawables(defThumbDrawable, defRangeDrawable, range1Drawable, range2Drawable); //

int thumbOffset = a.getDimensionPixelOffset(io.apptik.widget.mslider.R.styleable
        .MultiSlider_android_thumbOffset, defThumbDrawable.getIntrinsicWidth() / 2);
setThumbOffset(thumbOffset);
```

Code less

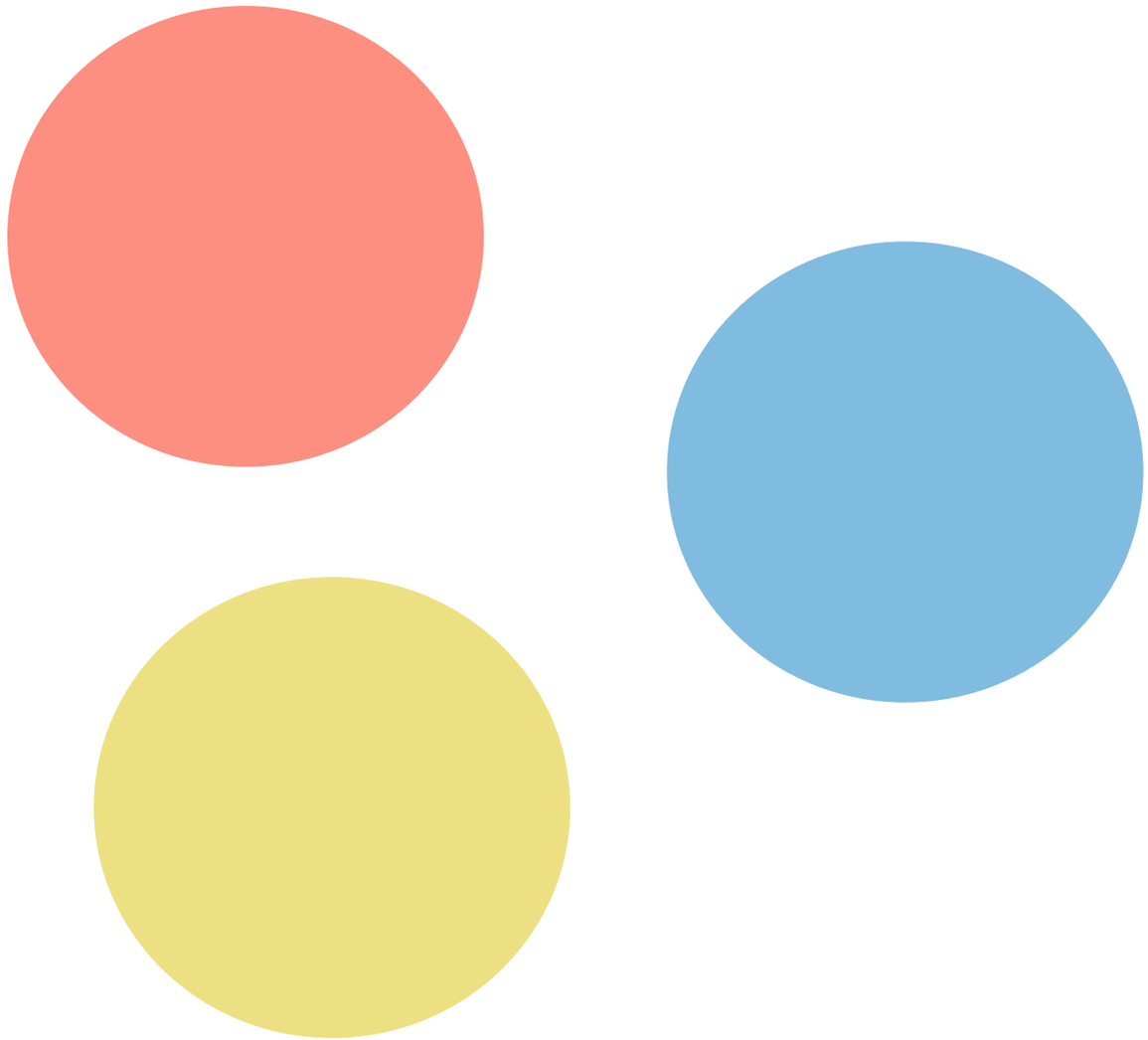
```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.main_layout);
    ViewGroup move_lyt = (ViewGroup)findViewById(R.id.move_lyt);

    ObjectAnimator paperAnim = ObjectAnimator.ofFloat(move_lyt, View.ROTATION_Y, 0,180);

    Propose propose = new Propose(this);
    propose.motionRight.play(paperAnim);
    move_lyt.setOnTouchListener(propose);

}
```

https://github.com/muabe/Samples/blob/master/paper/src/com/markjmind/propose/sample/paper/MainActivity.java

Combination

RGB Three colors make all the colors of the world

motion A + motion B = motion C



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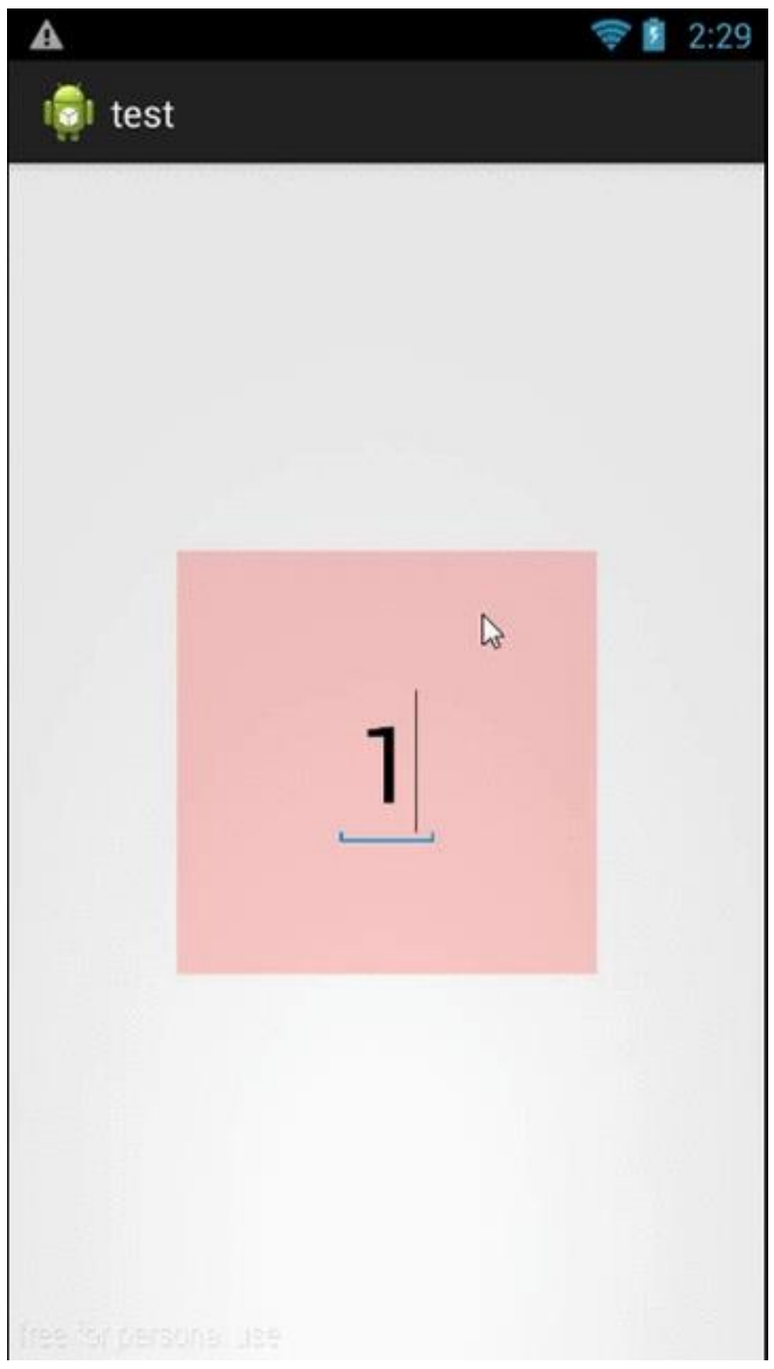


jaggi772 <notifications@github.com> 9월 6일

muabe/Propose, 나, Mention에게

@muabe i have tried to make animate like https://www.youtube.com/watch?v=X0x4wgDQV20 shown video but no success. I need this type of animation. Plz help.

Plantaer <notifications@github.com> 7월 24일

muabe/Propose, Subscribed에게

I'm really excited about this library. More immersive apps is what i want to achieve. Could you please share with Cube Out Transform (https://www.youtube.com/watch?v=K_5Y16Fz0Ps) project or something similar?

1. I don't understand how split one object (like circular ImageView on video) between left drawer and different Layout. How is it attached?
2. In Story Book on video (hadn't found sample code), how to transform only a half of Layout, View (whatever it is)? I mean page of the book.

Thank you in advance for your help.

josyjanga <notifications@github.com> 수신거부 16. 1. 25.

JaeWoongOh/And.에게

Hi, the library works really nice I have downloaded the storybook example and would like to know, how the 3D effect, when touching the book, can be disabled? I don't want it to be moved in y-direction

Impossible

In this figure we see two similar triangles, both havi
(green) as their hypotenuses. The catheti of the left
the catheti of the right triangle are x_1 and x_3. Sinc
it follows that

$$\frac{-y_1}{f} = \frac{x_1}{x_3} \text{ or } y_1 = -\frac{f\,x_1}{x_3}$$

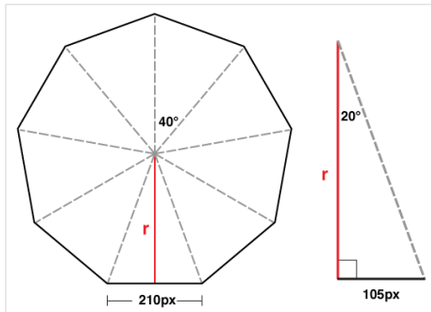
A similar investigation, looking in the negative direc

$$\frac{-y_2}{f} = \frac{x_2}{x_3} \text{ or } y_2 = -\frac{f\,x_2}{x_3}$$

This can be summarized as

$$\begin{pmatrix} y_1 \\ y_2 \end{pmatrix} = -\frac{f}{x_3}\begin{pmatrix} x_1 \\ x_2 \end{pmatrix}$$

get a right triangle, prime for some trigonometry.



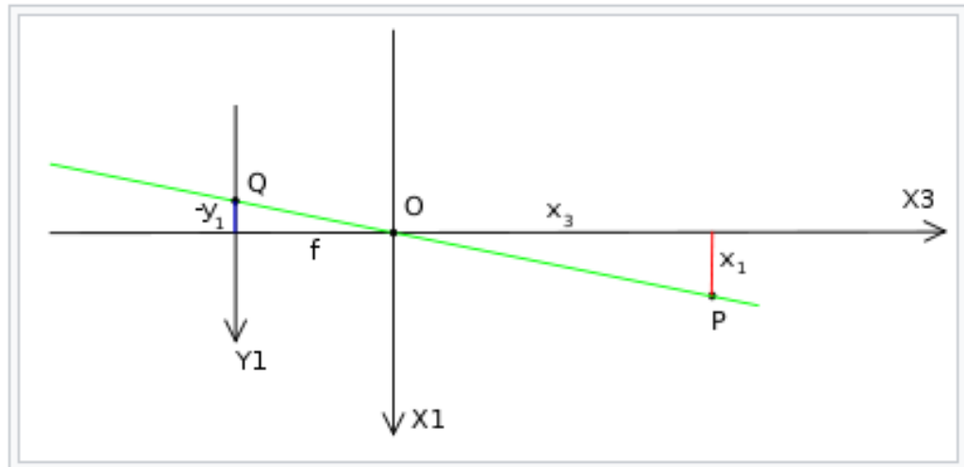
We can determine the length of *r* in this diagram with a basic tangent equation.

$$\tan = \frac{\text{opposite}}{\text{adjacent}}$$

$$\tan(20°) = \frac{105\text{px}}{r}$$

$$r = \frac{105\text{px}}{\tan(20°)}$$

$$r = 288\text{px}$$



The geometry of a pinhole camera as seen from the X2 axis

which is an expression that describes the relation between the 3D coordinates (x_1, x_2, x_3) of point **P** and its image coordinates (y_1, y_2) given by point **Q** in the image plane.

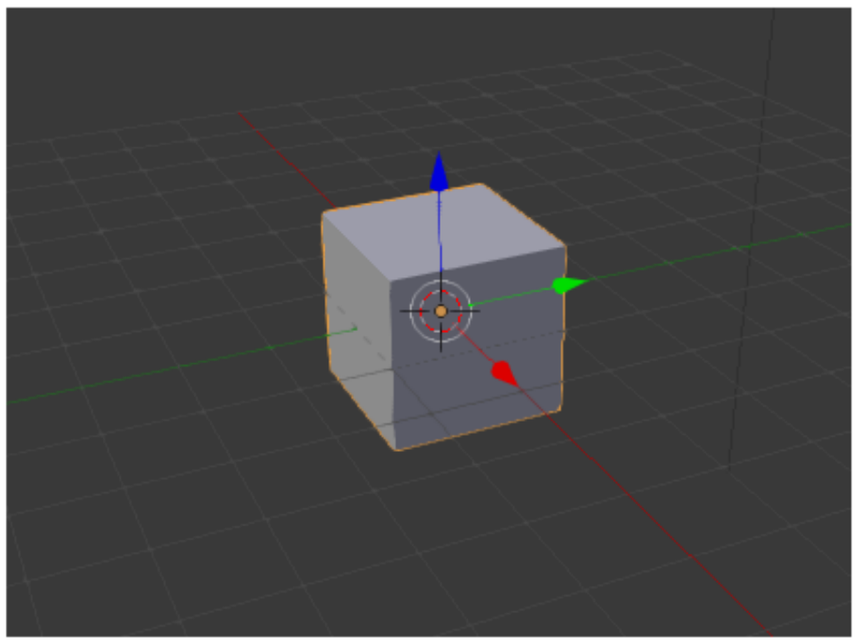
Rotated image and the virtual image plane [edit]

The mapping from 3D t
This corresponds to hov
their distance to the foc
to produce an unrotatec

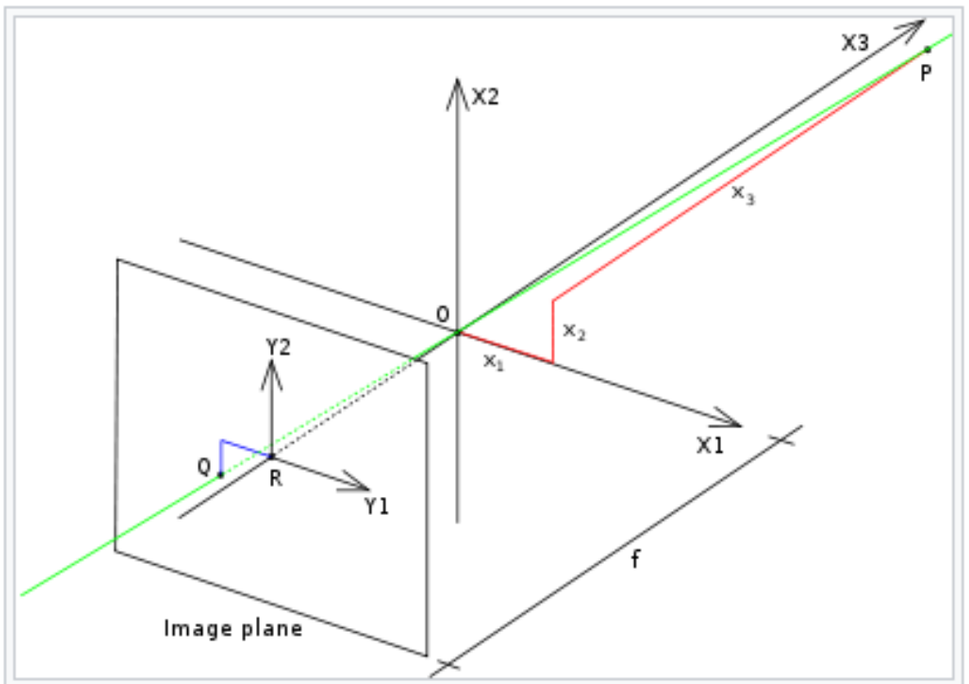
- Rotate the coordinat
  would solve the prol
  such an order that it
- Place the image plar
  front) image plane w
  one.

In both cases, the result

$$\begin{pmatrix} y_1 \\ y_2 \end{pmatrix} = \frac{f}{x_3}\begin{pmatrix} x_1 \\ x_2 \end{pmatrix}$$

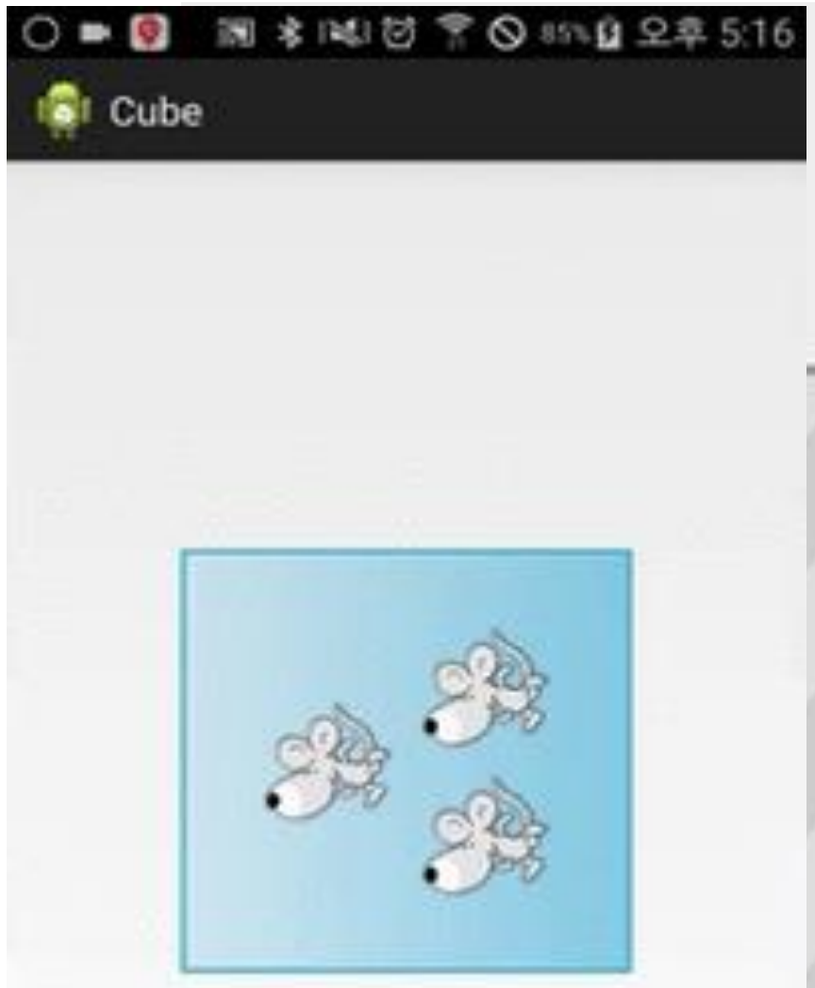


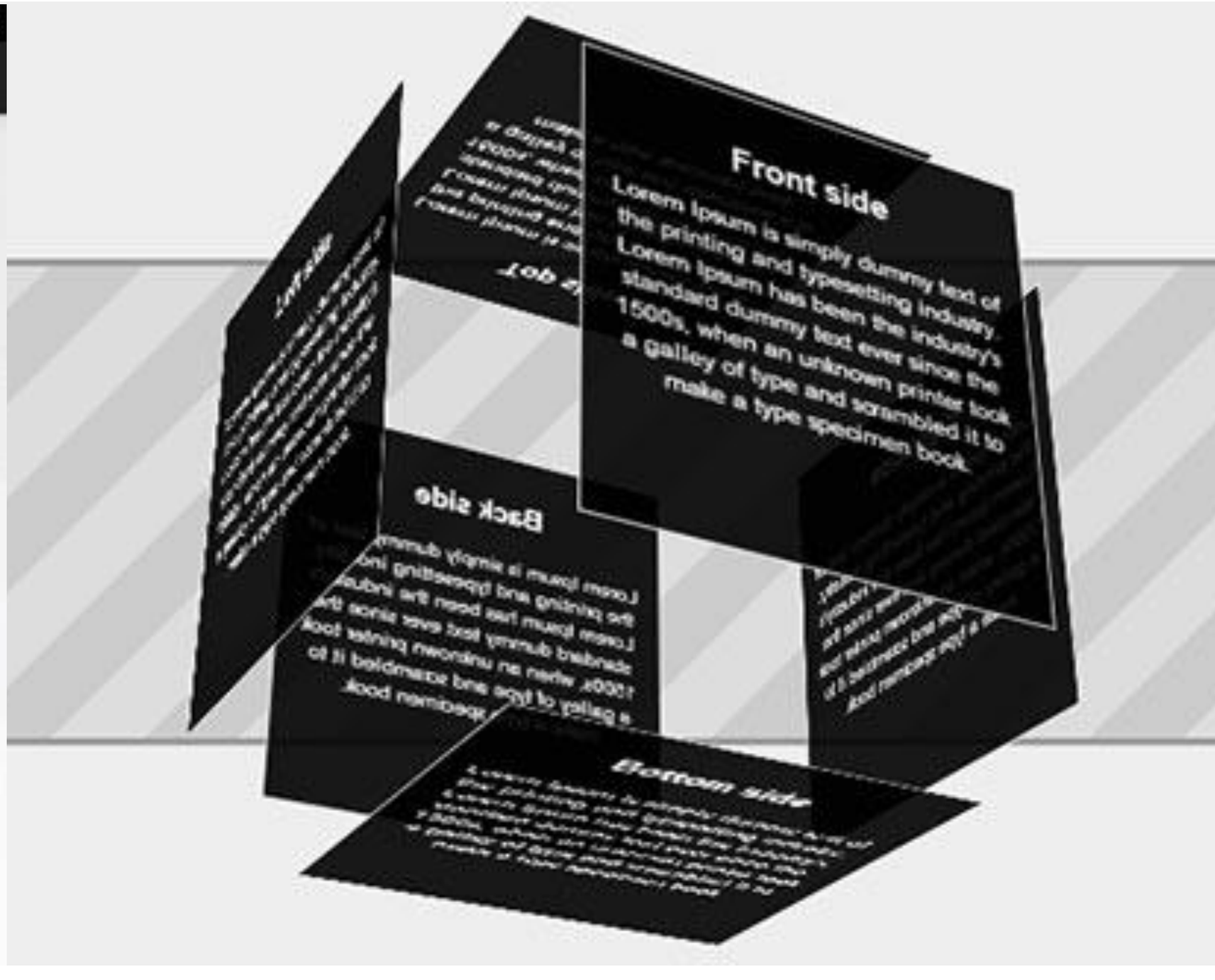
This is the code for my `GLSurfaceView.Renderer`:



The geometry of a pinhole camera

Propose Mobile touch motion





https://github.com/muabe/Samples/tree/master/propose_cube

Combination

```
motion1.play(anim1).with(anim2).with(anim3).next(anim3)

Combine.all(motion1, motion2).or(motion3. motion4)
```

Code less

```
if ((Build.VERSION.SDK_INT >= 21) && getBackground() == null) {
    setBackgroundResource(R.drawable.control_background_multi_material);
}

mUiThreadId = Thread.currentThread().getId();

a = context.obtainStyledAttributes(attrs, io.apptik.widget.mslider.R.styleable.MultiSlider,
        defStyle, styleRes);
mNoInvalidate = true;
int numThumbs = a.getInt(io.apptik.widget.mslider.R.styleable.MultiSlider_thumbNumber, 2);
initMultiSlider(numThumbs);

Drawable trackDrawable = a.getDrawable(io.apptik.widget.mslider.R.styleable
        .MultiSlider_android_track);
if (trackDrawable == null) {
    trackDrawable = ContextCompat.getDrawable(getContext(),
            R.drawable.multislider_track_material
    );
}

setTrackDrawable(getTintedDrawable(trackDrawable, a.getColor(io.apptik.widget.mslider.R.styleable.MultiSlider_
mMinWidth = a.getDimensionPixelSize(R.styleable.MultiSlider_minWidth, mMinWidth);
mMaxWidth = a.getDimensionPixelSize(R.styleable.MultiSlider_maxWidth, mMaxWidth);
mMinHeight = a.getDimensionPixelSize(R.styleable.MultiSlider_minHeight, mMinHeight);
mMaxHeight = a.getDimensionPixelSize(R.styleable.MultiSlider_maxHeight, mMaxHeight);


setStep(a.getInt(io.apptik.widget.mslider.R.styleable.MultiSlider_scaleStep, mStep));
setStepsThumbsApart(a.getInt(io.apptik.widget.mslider.R.styleable
                .MultiSlider_stepsThumbsApart,
        mStepsThumbsApart));
setDrawThumbsApart(a.getBoolean(io.apptik.widget.mslider.R.styleable
                .MultiSlider_drawThumbsApart,
        mDrawThumbsApart));
setMax(a.getInt(io.apptik.widget.mslider.R.styleable.MultiSlider_scaleMax, mScaleMax),true);
setMin(a.getInt(io.apptik.widget.mslider.R.styleable.MultiSlider_scaleMin, mScaleMin),true);


mMirrorForRtl = a.getBoolean(io.apptik.widget.mslider.R.styleable.MultiSlider_mirrorForRTL,
        mMirrorForRtl);

// --> now place thumbs

defThumbDrawable = a.getDrawable(io.apptik.widget.mslider.R.styleable
        .MultiSlider_android_thumb);

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    if (Build.VERSION.SDK_INT >= 21) {
        defThumbDrawable = ContextCompat.getDrawable(getContext(), R.drawable.multislider_thumb_material_anim)
    } else {
        defThumbDrawable = ContextCompat.getDrawable(getContext(), R.drawable.multislider_thumb_material);
    }
}

defRangeDrawable = a.getDrawable(io.apptik.widget.mslider.R.styleable
        .MultiSlider_range);
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    );
}

Drawable range1Drawable = a.getDrawable(io.apptik.widget.mslider.R.styleable
        .MultiSlider_range1);
Drawable range2Drawable = a.getDrawable(io.apptik.widget.mslider.R.styleable
        .MultiSlider_range2);


defRangeColor = a.getColor(io.apptik.widget.mslider.R.styleable.MultiSlider_rangeColor, 0);
defThumbColor = a.getColor(io.apptik.widget.mslider.R.styleable.MultiSlider_thumbColor, 0);
setThumbDrawables(defThumbDrawable, defRangeDrawable, range1Drawable, range2Drawable); //

int thumbOffset = a.getDimensionPixelOffset(io.apptik.widget.mslider.R.styleable
        .MultiSlider_android_thumbOffset, defThumbDrawable.getIntrinsicWidth() / 2);
setThumbOffset(thumbOffset);
```
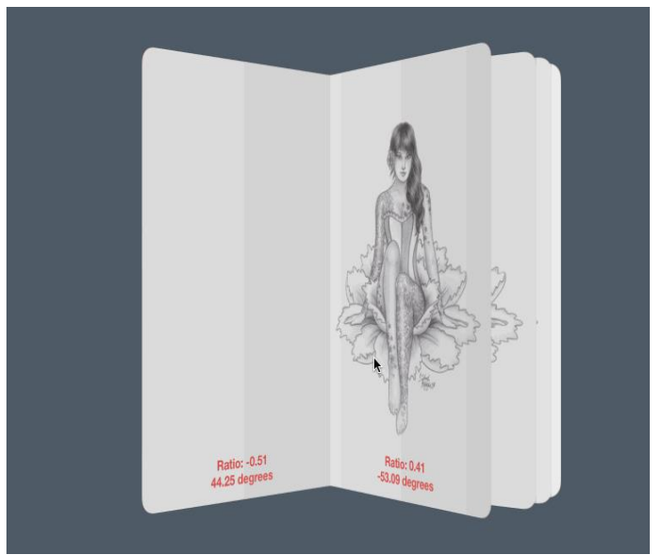




```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.main_layout);
    ViewGroup move_lyt = (ViewGroup)findViewById(R.id.move_lyt);

    ObjectAnimator paperAnim = ObjectAnimator.ofFloat(move_lyt, View.ROTATION_Y, 0,180);

    Propose propose = new Propose(this);
    propose.motionRight.play(paperAnim);
    move_lyt.setOnTouchListener(propose);

}
```

https://github.com/muabe/Samples/blob/master/paper/src/com/markjmind/propose/sample/paper/MainActivity.java

Propose v2.0

Propose v2.0

Do Combine everything in world

Plug-In

Propose

Touch motion

+

애니메이션

Plug-In

Player

Touch
motion

+

Sound
Lottie
Animation
Etc output
…
…
…
…

Plug-In

Action

Touch
Sound
압력
Gyro sensor
Acceler
…
…
…

+

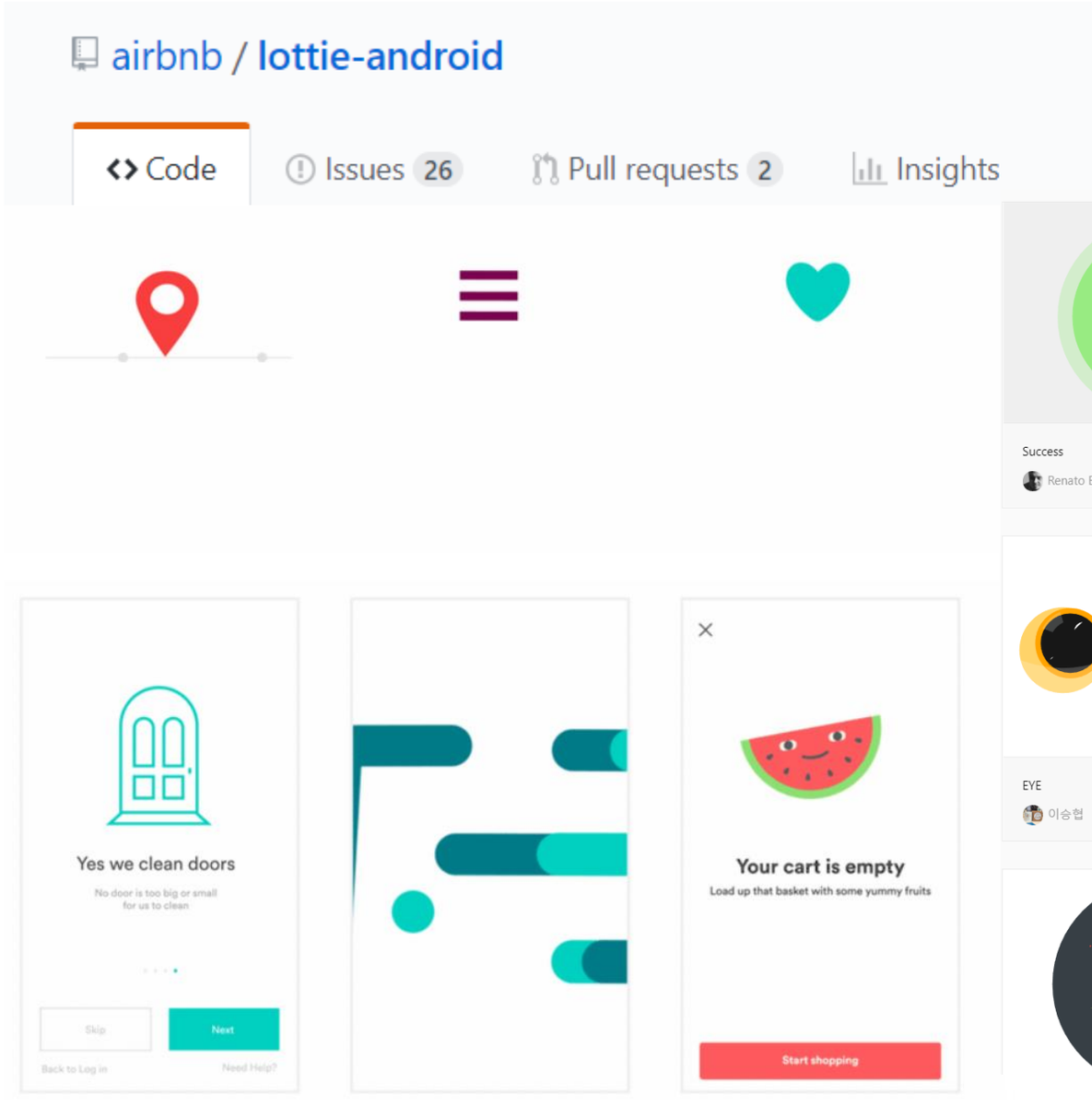
Combination

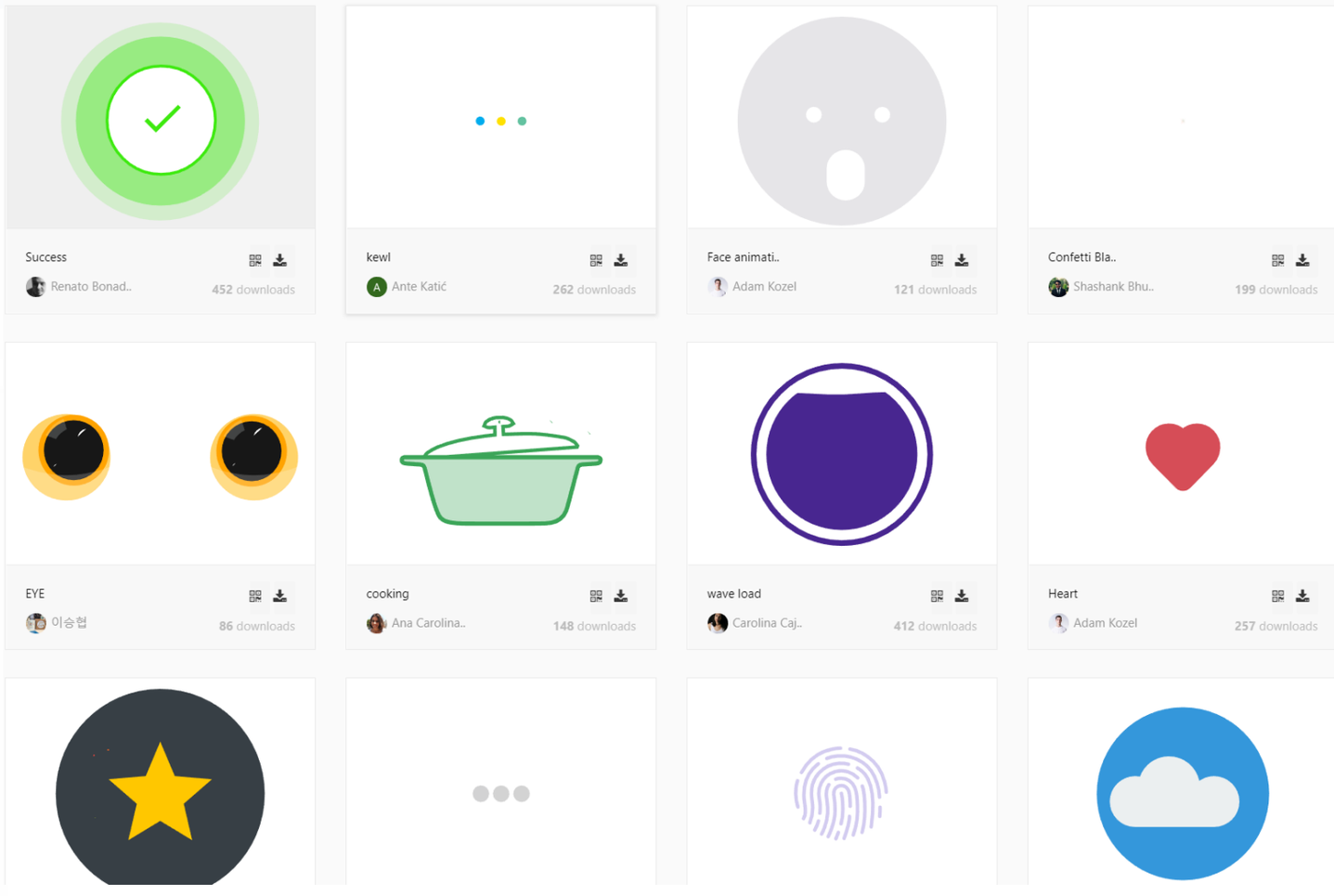
+

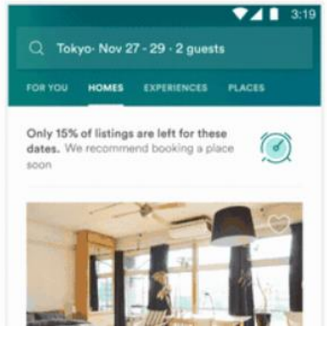
Player

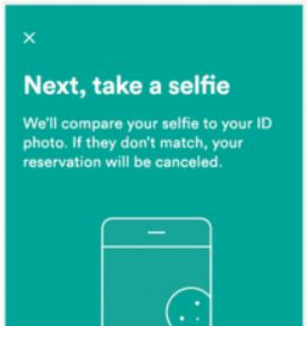
Sound
Lottie
Animation
Etc output
…
…
…
…

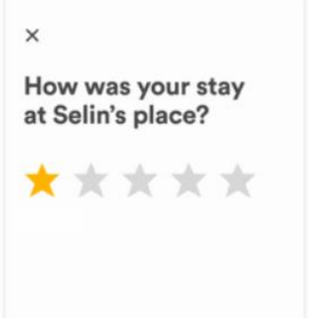
Airbnb Lottie









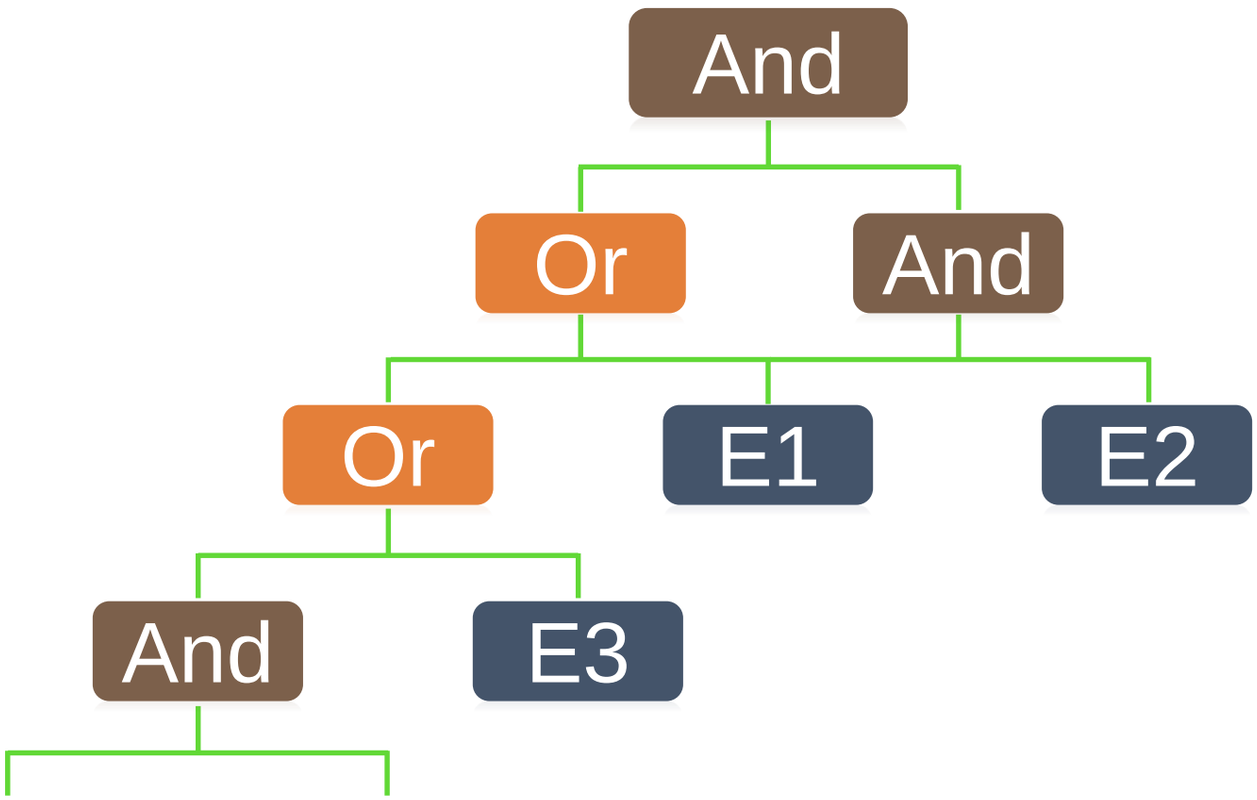


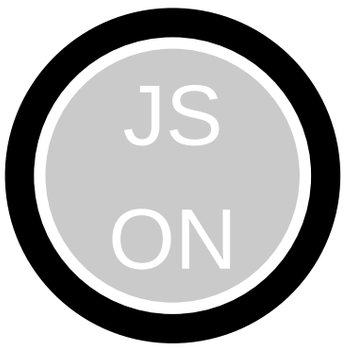
https://github.com/airbnb/lottie-android

https://www.lottiefiles.com

No Country for Old Men, (2007)

JSON Export





Thank you