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CGAffineTransform

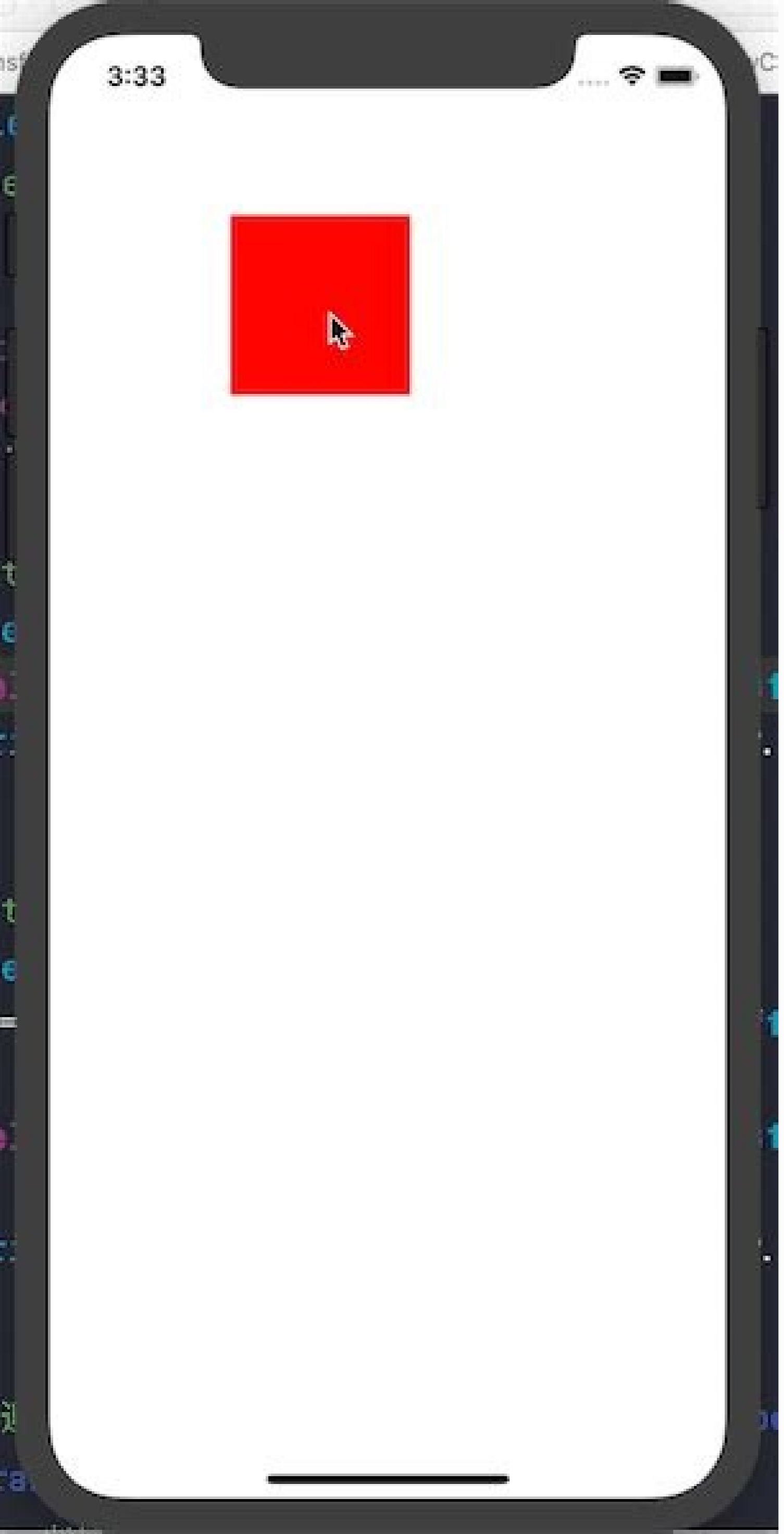
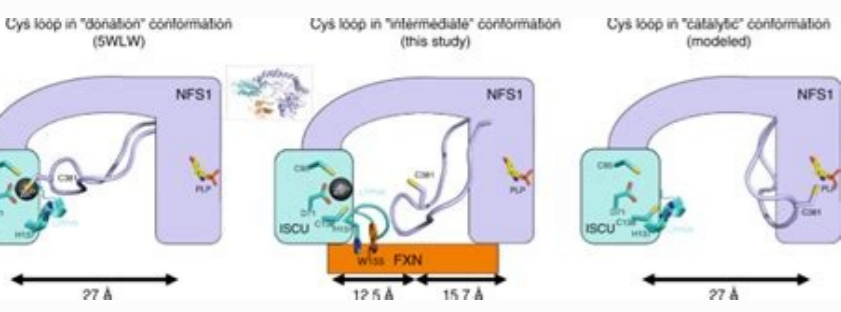
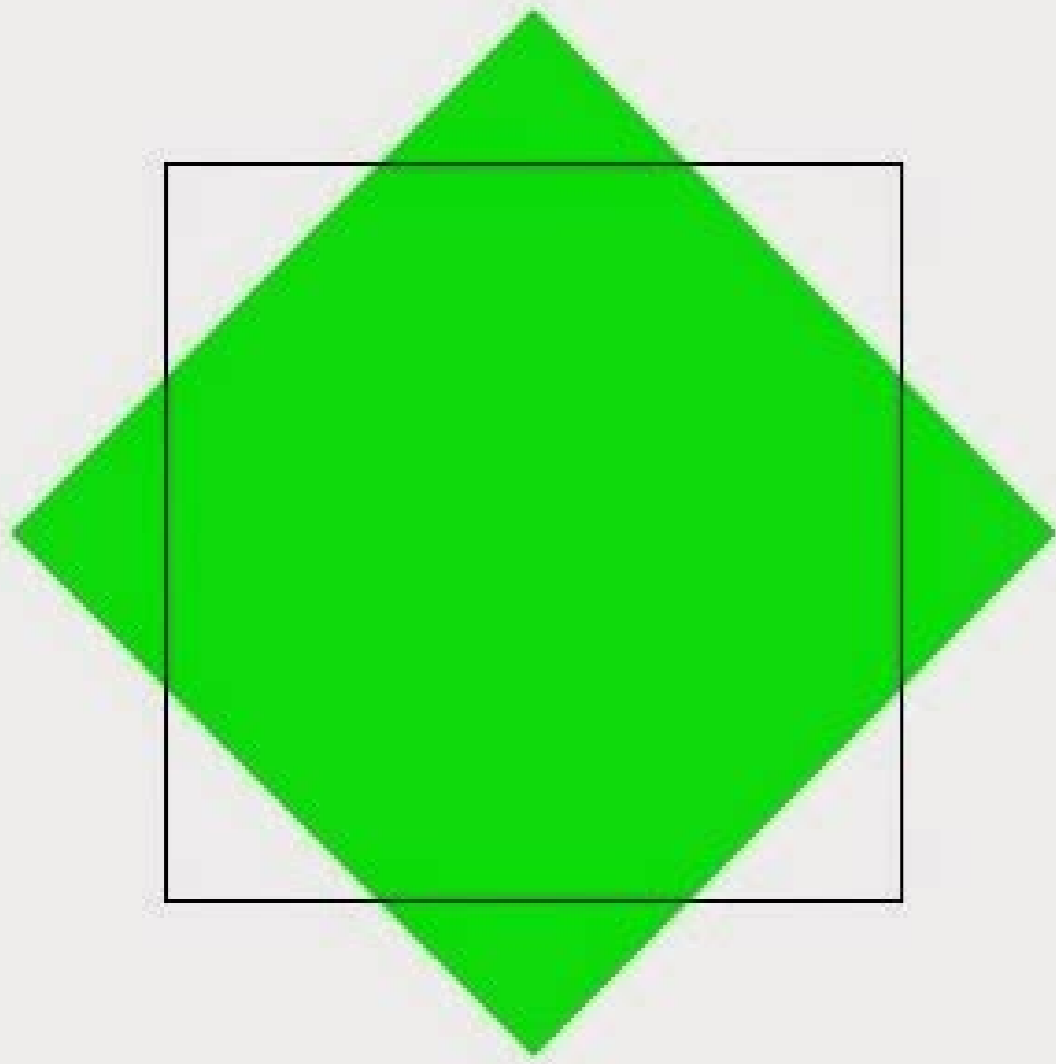
```

struct
CGAffineTransform
{
    CGFloat a, b, c, d;
    CGFloat tx, ty;
};
    
```

$$\begin{bmatrix} a & b & 0 \\ c & d & 0 \\ t_x & t_y & 1 \end{bmatrix} \rightarrow [x' \ y' \ 1] = [x \ y \ 1] \times \begin{bmatrix} a & b & 0 \\ c & d & 0 \\ t_x & t_y & 1 \end{bmatrix}$$

Table 5-1 Affine transform functions for translation, rotation, and scaling

Function	Use
CGAffineTransformMakeTranslation	To construct a new translation matrix from x and y values that specify how much to move the origin.
CGAffineTransformTranslate	To apply a translation operation to an existing affine transform.
CGAffineTransformRotation	To construct a new rotation matrix from a value that specifies in radians how much to rotate the coordinate system.
CGAffineTransformRotate	To apply a rotation operation to an existing affine transform.
CGAffineTransformScale	To construct a new scaling matrix from x and y values that specify how much to stretch or shrink coordinates.
CGAffineTransformScale	To apply a scaling operation to an existing affine transform.



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