

# Converting Colors

YIQ(37.0020, 7.9680, 53.8560)

Have a look what the booklet for  
YIQ(37.0020, 7.9680, 53.8560)  
contains.

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# Color

**YIQ(37.0020, 7.9680,  
53.8560)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4E0078
RGB	78, 0, 120
RGB Percent	31%, 0%, 47%
CMY	0.6939, 1.0000, 0.5295
CMYK	0.35, 1.00, 0.00, 0.53
HSL	279°, 100%, 24%
HSV	279°, 100%, 47%
XYZ	6.5365, 2.9782, 17.9947
YIQ	37.0020, 7.9680, 53.8560

# Conversions

## Conversions Part 2

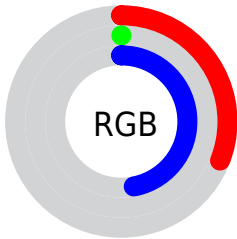
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	78, 0, 120
Decimal	5111928
CIE <sub>Lab</sub>	19.96, 49.87, -47.76
CIE <sub>LCh</sub>	20, 69.050, 316.236
Yxy	2.9782, 0.2376, 0.1083
Android (android.graphics.Color)	4283302008 (0xFF4E0078)
YUV	37.0020, 40.9180, 35.9552
Hunter-Lab	17.2574, 37.4093, -49.7426

# Details

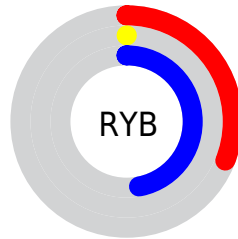
The YIQ color **37.0020, 7.9680, 53.8560** is a dark color, and the websafe version is hex **330066**. A complement of this color would be **82.9980, -7.9680, -53.8560**, and the grayscale version is **37.0000, -0.0000, 0.0000**.

A 20% lighter version of the original color is **94.4100, 6.6390, 50.4070**, and **16.6510, -5.1860, 27.9180** is the 20% darker color. If you saturate the color by 10%, you get **37.0020, 7.9680, 53.8560**, and if you desaturate by 10%, it is **45.2420, 7.0520, 48.4280**.

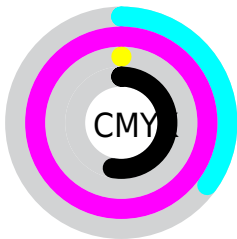
# Distribution



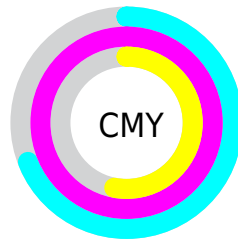
- Red (31%)
- Green (0%)
- Blue (47%)



- Red (31%)
- Yellow (0%)
- Blue (47%)



- Cyan (35%)
- Magenta (100%)
- Yellow (0%)
- Black (53%)



- Cyan (69%)
- Magenta (100%)
- Yellow (53%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 37.0020, 7.9680, 53.8560 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the YIQ color 37.0020, 7.9680, 53.8560 by changing the saturation by 10% instead.



37.0020, 7.9680,  
53.8560

37.0020, 7.9680,  
53.8560

253.2390, 0.8250,  
1.5690

26.0790, -0.0990,  
40.3570

94.4100, 6.6390,  
50.4070

16.6510, -5.1860,  
27.9180

121.2360, 7.1890,  
51.4530

5.3580, -15.0870,  
14.6170

148.0620, 7.7390,  
52.4990

3.4370, -8.3000,  
7.2520

175.5460, 9.2520,  
52.6120

0.0000, 0.0000,  
0.0000

200.0660, 19.1110,  
44.6390

219.1930, 16.7750,

31.9030

■ 236.2160, 8.8000,  
16.7360

■ 37.0020, 7.9680,  
53.8560

■ 45.2420, 7.0520,  
48.4280

■ 53.4820, 6.1360,  
43.0000

■ 62.0210, 5.8160,  
37.7840

■ 70.2610, 4.9000,  
32.3560

■ 78.5010, 3.9840,  
26.9280

■ 86.7410, 3.0680,  
21.5000

■ 94.9810, 2.1520,  
16.0720

■ 103.5200, 1.8320,  
10.8560

■ 111.7600, 0.9160,  
5.4280

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



44.5750, -60.7540, 21.7580



37.0020, 7.9680, 53.8560



44.6150, 48.3620, 48.6660

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



37.0020, 7.9680, 53.8560



45.3400, 36.9090, -2.6030



47.4060, -42.5460, -10.8820

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



37.0020, 7.9680, 53.8560



82.9980, -7.9680, -53.8560

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



40.0760, -24.6620, -26.6300



37.0020, 7.9680, 53.8560



41.8640, 5.4140, -21.0340

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



37.0020, 7.9680, 53.8560



33.1890, 66.1560, 23.5320



35.8070, -16.7750, -31.9030



52.6500, -57.3120, 3.4240



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



37.0020, 7.9680, 53.8560



43.2450, 63.7230, 40.0990



35.8070, -16.7750, -31.9030



44.7670, -36.4930, -15.9570

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



37.0020, 7.9680, 53.8560



123.3280, 2.7930, 20.9770



38.3340, -50.0700, 15.3540



59.5740, 1.7400, 12.5240



207.0000, 0.0000, -0.0000



79.0000, -0.0000, 0.0000



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



37.0020, 7.9680, 53.8560



47.9830, 10.1200, 69.9280



47.5080, 38.7780, 57.1620



56.8800, 0.4580, 2.7140



38.4690, 8.1510, 56.0470



77.7640, 16.8520, 113.1400



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



40.6680, 58.0380, 38.5020



52.8000, 75.6420, 49.8660



72.4920, -38.7780, -57.1620



57.0220, 2.9340, 1.8940



42.3910, 60.3760, 40.1840



85.3800, 121.9440, 80.7920



# Previews

## White Background



This preview shows how the YIQ color 37.0020, 7.9680, 53.8560 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

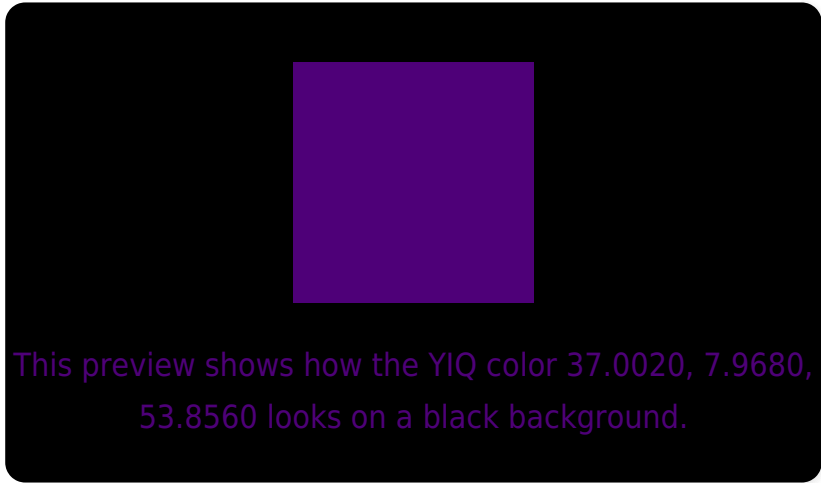
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

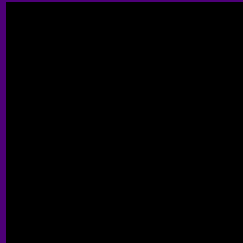
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**YIQ 37.0020, 7.9680, 53.8560**

## **Background**



This preview shows how black text looks on a background with the YIQ color 37.0020, 7.9680, 53.8560.



This preview shows how white text looks on a background with the YIQ color 37.0020, 7.9680,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

37.0020, 7.9680, 53.8560

### Protanopia

41.4340, -47.7760, 6.8160

### Deuteranopia

41.4850, -43.7860, 0.5820



## Tritanopia

52.7240, 9.7650, 4.7490

# Trichromacy



## Original Color

37.0020, 7.9680, 53.8560

## Protanomaly

39.8100, -27.7430, 23.7210

## Deuteranomaly

39.9580, -25.4040, 19.8760

## Tritanomaly

47.0900, 9.3950, 22.4750

# Monochromacy



## Original Color

37.0020, 7.9680, 53.8560

## Achromatopsia

37.0000, -0.0000, 0.0000

## Achromatomaly

37.2740, 2.8850, 19.3090

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 37.0020, 7.9680, 53.8560 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(78, 0, 120)` looks like.

```
.text, #text, p{  
    color:rgb(78, 0, 120)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(78, 0, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 0, 120) }
```

## Border

The CSS property to change the border of an element to YIQ 37.0020, 7.9680, 53.8560 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(78, 0, 120) }
```



If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(78, 0, 120) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(78, 0, 120) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 0, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 0, 120);  
box-shadow:4px 4px 4px 4px rgb(78, 0, 120)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 37.0020, 7.9680, 53.8560 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 0, 120) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(78, 0,  
120) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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