

# Converting Colors

YIQ(31.7520, 21.7300, 13.6820)

Have a look what the booklet for  
YIQ(31.7520, 21.7300, 13.6820)  
contains.

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# Color

**YIQ(31.7520, 21.7300,  
13.6820)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3D111F
RGB	61, 17, 31
RGB Percent	24%, 7%, 12%
CMY	0.7607, 0.9334, 0.8784
CMYK	0.00, 0.72, 0.49, 0.76
HSL	341°, 56%, 15%
HSV	341°, 72%, 24%
XYZ	2.3740, 1.4924, 1.4606
YIQ	31.7520, 21.7300, 13.6820

# Conversions

## Conversions Part 2

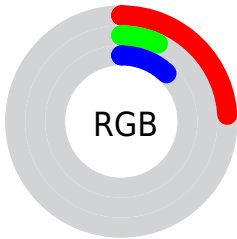
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	61, 17, 31
Decimal	4002079
CIE Lab	12.56, 23.05, 1.72
CIE LCh	13, 23.119, 4.265
Yxy	1.4924, 0.4457, 0.2802
Android (android.graphics.Color)	4282192159 (0xFF3D111F)
YUV	31.7520, -0.3707, 25.6505
Hunter-Lab	12.2163, 13.3094, 1.4626

# Details

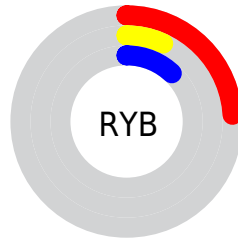
The YIQ color **31.7520, 21.7300, 13.6820** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **46.2480, -21.7300, -13.6820**, and the grayscale version is **32.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **78.1330, 25.0310, 14.4310**, and **0.0000, 0.0000, 0.0000** is the 20% darker color. If you saturate the color by 10%, you get **27.7740, 24.6640, 15.5760**, and if you desaturate by 10%, it is **35.7300, 18.7960, 11.7880**.

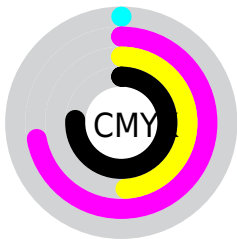
# Distribution



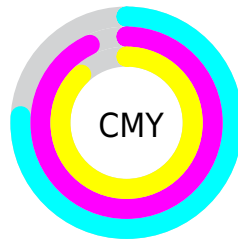
- Red (24%)
- Green (7%)
- Blue (12%)



- Red (24%)
- Yellow (7%)
- Blue (12%)



- Cyan (0%)
- Magenta (72%)
- Yellow (49%)
- Black (76%)



- Cyan (76%)
- Magenta (93%)
- Yellow (88%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 31.7520, 21.7300, 13.6820 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 31.7520, 21.7300, 13.6820 by changing the saturation by 10% instead.



■ 31.7520, 21.7300,  
13.6820

■ 31.7520, 21.7300,  
13.6820

■ 250.3040, 2.2000,  
4.1840

■ 12.6440, 21.9140,  
10.3460

■ 78.1330, 25.0310,  
14.4310

■ 0.0000, 0.0000,  
0.0000

■ 102.6170, 26.5440,  
14.5440


■ 128.2150, 27.7360,  
14.9680


■ 154.2260, 29.2030,  
15.9150


■ 181.5250, 29.7990,  
16.1270


■ 209.1230, 30.9910,


16.5510


 230.5450, 17.8790,  
11.8870


 31.7520, 21.7300,  
13.6820

 31.7520, 21.7300,  
13.6820


 27.7740, 24.6640,  
15.5760


 35.7300, 18.7960,  
11.7880


 23.7960, 27.5980,  
17.4700

 39.7080, 15.8620,  
9.8940

 20.4050, 30.2570,  
18.8410

 43.6860, 12.9280,  
8.0000

 47.7780, 9.6730,  
6.4170

 51.7560, 6.7390,  
4.5230

■ 56.3210, 3.5300,  
2.1060

■ 60.2990, 0.5960,  
0.2120

■ 64.2770, -2.3380,  
-1.6820

■ 68.2550, -5.2720,  
-3.5760

# Harmonies

## Analogous

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



33.2440, 11.5970, 15.6050



31.7520, 21.7300, 13.6820



31.2760, 25.7660, 6.6140

# Triad

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



31.7520, 21.7300, 13.6820



28.8950, 4.1290, -14.2630



29.2600, -30.0310, -0.9030

# Complementary

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



31.7520, 21.7300, 13.6820



46.2480, -21.7300, -13.6820

# 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.



29.1800, -27.0500, -5.3700



31.7520, 21.7300, 13.6820



24.9450, -16.5030, -14.7990

# Square

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



31.7520, 21.7300, 13.6820



30.7440, 15.0400, -8.2560



27.4700, -22.2350, -10.0350



27.3680, -30.2150, 2.4330



# Rectangle

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



31.7520, 21.7300, 13.6820



30.6470, 25.8590, -0.5810



27.4700, -22.2350, -10.0350



29.5050, -29.3430, -2.3590

# Sweetspot

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



31.7520, 21.7300, 13.6820



67.6530, 8.5270, 5.1590



30.6870, 3.1600, 19.8320



33.7450, 5.2720, 3.5760



168.0000, -0.0000, -0.0000



41.0000, 0.0000, -0.0000



# Same Dimension

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



31.7520, 21.7300, 13.6820



33.1390, 34.0620, 21.4700



34.2650, 24.2990, 5.6670



29.0110, 1.4670, 0.9470



31.5260, 46.3940, 29.2580



74.4720, 109.5210, 69.1450



# Inverse Universe

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



31.7520, 21.7300, 13.6820



33.1390, 34.0620, 21.4700



43.7350, -24.2990, -5.6670



29.0110, 1.4670, 0.9470



31.5260, 46.3940, 29.2580

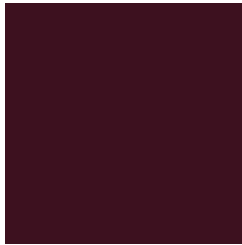


74.4720, 109.5210, 69.1450



# Previews

## White Background



This preview shows how the YIQ color 31.7520, 21.7300, 13.6820 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

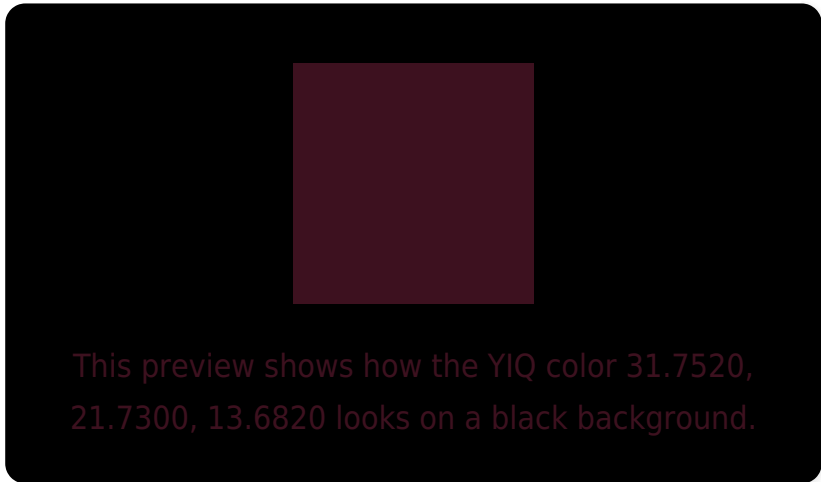
Any Text WCAG AA ✓ Pass

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 31.7520, 21.7300, 13.6820

## Background



This preview shows how black text looks on a background with the YIQ color 31.7520, 21.7300, 13.6820.



This preview shows how white text looks on a background with the YIQ color 31.7520, 21.7300,



# 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

31.7520, 21.7300, 13.6820

### Protanopia

34.3850, -2.5220, 1.6540

### Deuteranopia

34.3380, 4.8600, 0.0280



## Tritanopia

31.3730, 24.1150, 9.0030

# Trichromacy



## Original Color

31.7520, 21.7300, 13.6820

## Protanomaly

33.5110, 6.0510, 5.9790

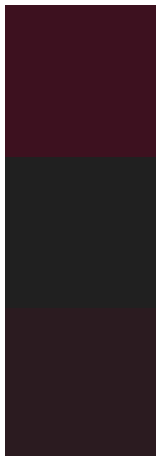
## Deuteranomaly

33.3220, 10.9570, 5.1730

## Tritanomaly

31.2420, 23.1060, 10.7700

# Monochromacy



## Original Color

31.7520, 21.7300, 13.6820

## Achromatopsia

32.0000, -0.0000, -0.0000

## Achromatomaly

32.3540, 7.9310, 4.9470

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 31.7520, 21.7300, 13.6820 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(61, 17, 31)` looks like.

```
.text, #text, p{  
    color:rgb(61, 17, 31)  
}
```

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(61, 17, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(61, 17, 31) }
```

## Border

The CSS property to change the border of an element to YIQ 31.7520, 21.7300, 13.6820 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(61, 17, 31) }
```



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

```
.border{ border-color:rgb(61, 17, 31) }
```

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

Here you see how a box with a 4 pixel rgb(61, 17, 31) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(61, 17, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(61, 17, 31);  
box-shadow:4px 4px 4px 4px rgb(61, 17, 31)  
}
```

# Background

The CSS property to change the background color of an element to YIQ 31.7520, 21.7300, 13.6820 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(61, 17, 31) }
```

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

```
.background{ background-color: rgb(61, 17,  
31) }
```

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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