

# Converting Colors

YIQ(50.5450, 20.1610, 69.6730)

Have a look what the booklet for  
YIQ(50.5450, 20.1610, 69.6730)  
contains.

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# Color

**YIQ(50.5450, 20.1610,  
69.6730)**

# Conversions

## Conversions Part 1

Format	Color
Hex	710093
RGB	113, 0, 147
RGB Percent	44%, 0%, 58%
CMY	0.5565, 1.0000, 0.4236
CMYK	0.23, 1.00, 0.00, 0.42
HSL	286°, 100%, 29%
HSV	286°, 100%, 58%
XYZ	12.0877, 5.6231, 28.0485
YIQ	50.5450, 20.1610, 69.6730

# Conversions

## Conversions Part 2

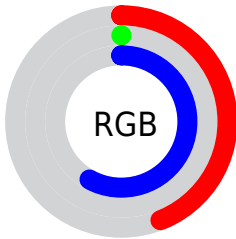
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	113, 0, 147
Decimal	7405715
CIE <sub>Lab</sub>	28.44, 59.89, -50.63
CIE <sub>LCh</sub>	28, 78.423, 319.785
Yxy	5.6231, 0.2642, 0.1229
Android (android.graphics.Color)	4285595795 (0xFF710093)
YUV	50.5450, 47.5523, 54.7730
Hunter-Lab	23.7131, 49.4917, -53.5305

# Details

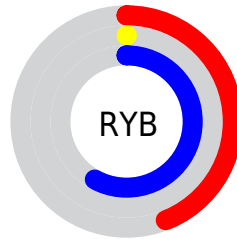
The YIQ color **50.5450, 20.1610, 69.6730** is a dark color, and the websafe version is hex **660099**. A complement of this color would be **96.4550, -20.1610, -69.6730**, and the grayscale version is **50.0000, -0.0000, -0.0000**.

A 20% lighter version of the original color is **114.6490, 16.6320, 62.0400**, and **28.1720, 4.0730, 41.8410** is the 20% darker color. If you saturate the color by 10%, you get **50.5450, 20.1610, 69.6730**, and if you desaturate by 10%, it is **60.2470, 17.8240, 62.4640**.

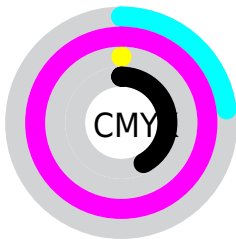
# Distribution



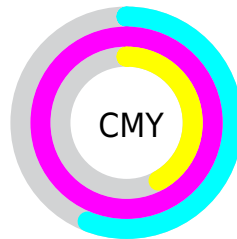
- Red (44%)
- Green (0%)
- Blue (58%)



- Red (44%)
- Yellow (0%)
- Blue (58%)



- Cyan (23%)
- Magenta (100%)
- Yellow (0%)
- Black (42%)



- Cyan (56%)
- Magenta (100%)
- Yellow (42%)

# Brightness & Saturation Gradients

These gradients show how the YIQ color 50.5450, 20.1610, 69.6730 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 50.5450, 20.1610, 69.6730 by changing the saturation by 10% instead.



50.5450, 20.1610,  
69.6730

50.5450, 20.1610,  
69.6730

255.0000, -0.0000,  
-0.0000

39.5080, 12.4150,  
55.8630

114.6490, 16.6320,  
62.0400

28.1720, 4.0730,  
41.8410

142.9480, 17.2280,  
62.2520

18.2600, -2.5270,  
29.2890

170.3180, 19.0620,  
62.0540

5.3580, -15.0870,  
14.6170

195.1260, 28.0500,  
53.3460

3.4370, -8.3000,  
7.2520


211.5620, 20.3500,  
38.7020


0.0000, 0.0000,  
0.0000


227.9980, 12.6500,


24.0580


 245.6080, 4.4000,  
8.3680


 50.5450, 20.1610,  
69.6730

 60.2470, 17.8240,  
62.4640

 69.6610, 16.3580,  
55.9900

 79.3630, 14.0210,  
48.7810

 89.3640, 12.2800,  
41.7840

 98.4790, 10.2180,  
35.0980

■ 108.1810, 7.8810,  
27.8890

■ 118.1820, 6.1400,  
20.8920

■ 127.8840, 3.8030,  
13.6830

■ 137.2980, 2.3370,  
7.2090

# Harmonies

## Analogous

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



57.4840, -76.4350, 25.1090



50.5450, 20.1610, 69.6730



57.6160, 64.9570, 61.7970

# Triad

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



50.5450, 20.1610, 69.6730



63.3590, 43.9250, -8.6110



64.4410, -58.8220, -13.2700

# Complementary

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



50.5450, 20.1610, 69.6730



96.4550, -20.1610, -69.6730

# 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.



55.9710, -37.7280, -32.1280



50.5450, 20.1610, 69.6730



57.4690, 4.7280, -30.6320

# Square

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



50.5450, 20.1610, 69.6730



43.6210, 82.6150, 28.1110



49.3080, -23.1000, -43.9320



70.5970, -76.1560, 3.5240



# Rectangle

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



50.5450, 20.1610, 69.6730



55.1490, 81.9690, 50.8410



49.3080, -23.1000, -43.9320



61.4600, -51.8060, -19.2780

# Sweetspot

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



50.5450, 20.1610, 69.6730



153.6540, 7.9270, 27.0550



36.7160, -56.5370, 27.9350



74.0630, 4.8570, 16.6090



224.0000, -0.0000, 0.0000



97.0000, -0.0000, 0.0000



# Same Dimension

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



50.5450, 20.1610, 69.6730



65.7270, 26.3010, 90.5650



56.2650, 52.9440, 64.7520



69.2930, 0.7330, 3.2370



47.4260, 18.8780, 65.3900



3.5320, 1.5580, 4.8060



# Inverse Universe

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



47.8290, 76.6980, 41.7380



62.1250, 99.7120, 54.1760



90.7350, -52.9440, -64.7520



69.2070, 3.8510, 1.7950



44.9100, 71.9760, 39.2080



3.2180, 5.3180, 2.7420



# Previews

## White Background



This preview shows how the YIQ color 50.5450, 20.1610, 69.6730 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

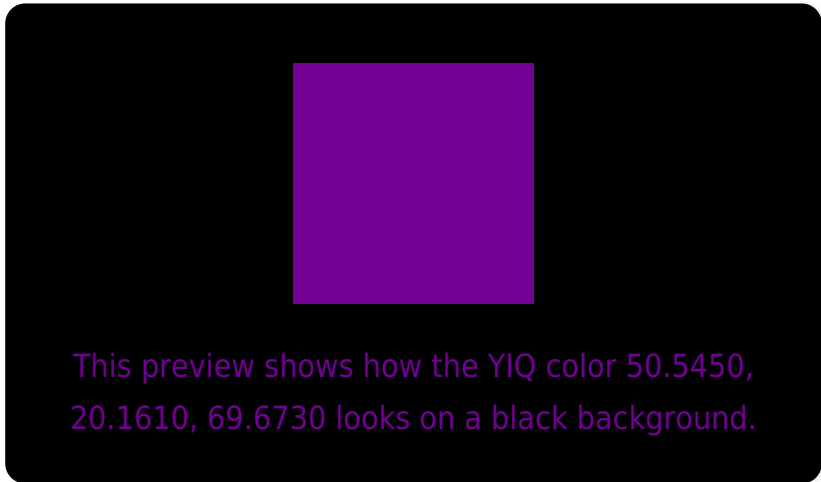
Any Text WCAG AA ✓ Pass

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

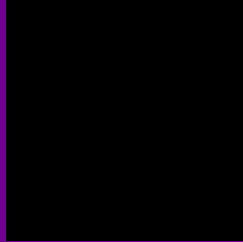
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# YIQ 50.5450, 20.1610, 69.6730

## Background



This preview shows how black text looks on a background with the YIQ color 50.5450, 20.1610, 69.6730.



This preview shows how white text looks on a background with the YIQ color 50.5450, 20.1610,



# 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

50.5450, 20.1610, 69.6730

### Protanopia

56.2180, -64.6030, 8.9090

### Deuteranopia

56.5140, -59.9250, 1.2190



## Tritanopia

71.0140, 23.7480, 10.1480

# Trichromacy



## Original Color

50.5450, 20.1610, 69.6730

## Protanomaly

53.9160, -33.6130, 30.9870

## Deuteranomaly

54.4230, -30.9070, 25.9970

## Tritanomaly

63.7160, 22.5520, 31.8320

# Monochromacy



## Original Color

50.5450, 20.1610, 69.6730

## Achromatopsia

51.0000, -0.0000, -0.0000

## Achromatomaly

50.7140, 7.6980, 25.6980

# CSS Examples

## Text

The CSS property to change the color of the text to YIQ 50.5450, 20.1610, 69.6730 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(113, 0, 147)` looks like.

```
.text, #text, p{  
    color:rgb(113, 0, 147)  
}
```

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(113, 0, 147) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(113, 0, 147) }
```

## Border

The CSS property to change the border of an element to YIQ 50.5450, 20.1610, 69.6730 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(113, 0, 147) }
```



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

```
.border{ border-color:rgb(113, 0, 147) }
```

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

Here you see how a box with a 4 pixel rgb(113, 0, 147) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(113, 0, 147); -webkit-box-  
shadow:4px 4px 4px 4px rgb(113, 0, 147);  
box-shadow:4px 4px 4px 4px rgb(113, 0,  
147) }
```

# Background

The CSS property to change the background color of an element to YIQ 50.5450, 20.1610, 69.6730 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(113, 0, 147) }
```

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

```
.background{ background-color: rgb(113, 0,  
147) }
```

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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