

# Converting Colors

XYZ(20.9937, 27.7327, 4.2465)

Have a look what the booklet for  
XYZ(20.9937, 27.7327, 4.2465)  
contains.

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# Color

**XYZ(21.0641, 27.7690,  
4.2498)**

# Conversions

## Conversions Part 1

Format	Color
Hex	859900
RGB	133, 153, 0
RGB Percent	52%, 60%, 0%
CMY	0.4784, 0.4000, 0.9999
CMYK	0.13, 0.00, 1.00, 0.40
HSL	68°, 100%, 30%
HSV	68°, 100%, 60%
XYZ	21.0641, 27.7690, 4.2498
YIQ	129.5780, 37.1930, -51.8230

# Conversions

## Conversions Part 2

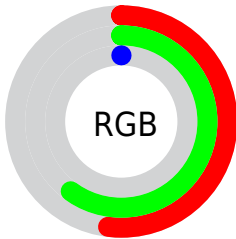
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 153, 20
Decimal	8755456
CIELab	59.68, -23.63, 62.64
CIELCh	60, 66.947, 110.665
Yxy	27.7690, 0.3968, 0.5231
Android (android.graphics.Color)	4286945536 (0xFF859900)
YUV	129.5780, -63.8820, 3.0011
Hunter-Lab	52.6963, -20.8674, 32.1058

# Details

The XYZ color **21.0641, 27.7690, 4.2498** is a dark color, and the websafe version is hex **999900**. A complement of this color would be **6.0391, 2.4493, 30.2931**, and the grayscale version is **21.2793, 22.3875, 24.3799**.

A 20% lighter version of the original color is **44.7177, 56.0407, 14.5909**, and **7.9758, 11.1650, 1.7347** is the 20% darker color. If you saturate the color by 10%, you get **21.0644, 27.7701, 4.2500**, and if you desaturate by 10%, it is **21.4720, 27.9700, 4.7308**.

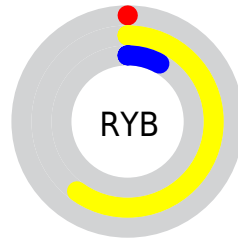
# Distribution



Red (52%)

Green (60%)

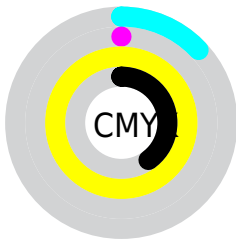
Blue (0%)



Red (0%)

Yellow (60%)

Blue (8%)

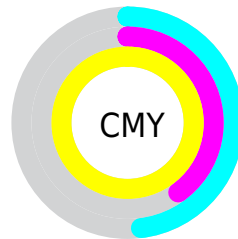


Cyan (13%)

Magenta (0%)

Yellow (100%)

Black (40%)



Cyan (48%)

Magenta (40%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.0641, 27.7690, 4.2498 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 XYZ color 21.0641, 27.7690, 4.2498 by changing the saturation by 10% instead.





 21.0641, 27.7690,  
4.2498


 21.0641, 27.7690,  
4.2498


250.3442,  
291.3615, 150.9627


 13.2836, 18.1516,  
1.7634


 44.6847, 56.1154,  
14.5819

 7.7025, 11.0589,  
0.4036

 61.2554, 75.6132,  
23.2646

 3.9554, 6.1065,  
0.0000

 81.4870, 99.1733,  
34.8499

 1.6769, 2.9099,  
0.0000

 105.7447,  
127.1801, 49.7562

 0.4417, 1.0849,  
0.0000

 134.3939,  
160.0178, 68.4021

 0.0000, 0.0000,  
0.0000

 167.8000,

198.0711, 91.2061

206.3283,  
241.7242, 118.5868

21.0641, 27.7690,  
4.2498

21.0641, 27.7690,  
4.2498

21.0644, 27.7701,  
4.2500

21.4720, 27.9700,  
4.7308

21.9508, 28.1991,  
5.5559

22.5310, 28.4694,  
6.8837

23.2248, 28.7859,  
8.7776

24.0425, 29.1526,  
11.2918

■ 24.9932, 29.5733,  
14.4742

■ 26.0852, 30.0511,  
18.3678

■ 27.3259, 30.5892,  
23.0123

■ 28.7223, 31.1903,  
28.4443

# Harmonies

## Analogous

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



29.1182, 27.7690, 3.6388



21.0641, 27.7690, 4.2498



15.7143, 27.7690, 9.2900

# Triad

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



21.0641, 27.7690, 4.2498



17.3751, 27.7690, 82.4065



45.8953, 27.7690, 38.4303

# Complementary

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



21.0641, 27.7690, 4.2498



6.0391, 2.4493, 30.2931

# 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.



41.0632, 27.7690, 70.3686



21.0641, 27.7690, 4.2498



23.8445, 27.7690, 103.3330

# Square

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



21.0641, 27.7690, 4.2498



13.9217, 27.7690, 49.8132



32.5538, 27.7690, 98.0308



44.7050, 27.7690, 16.6060



# Rectangle

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



21.0641, 27.7690, 4.2498



13.8376, 27.7690, 17.2963



32.5538, 27.7690, 98.0308



44.8886, 27.7690, 48.4102

# Sweetspot

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



21.0647, 27.7703, 4.2504



46.5879, 53.7607, 32.4357



13.3518, 7.2009, 0.6866



10.1153, 11.7959, 6.5418



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178



# Same Dimension

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



21.0647, 27.7703, 4.2504



37.6102, 49.6728, 7.6055



13.1755, 23.7032, 3.8812



6.6294, 7.1819, 6.6427



17.4282, 22.9604, 3.5132



0.2799, 0.3532, 0.0534



# Inverse Universe

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



6.0391, 2.4493, 30.2931



10.7234, 4.3386, 54.2442



10.4031, 4.6990, 30.4974



5.9559, 6.0631, 7.7854



5.0079, 2.0327, 25.0361



0.0919, 0.0392, 0.3751



# Previews

## White Background



This preview shows how the XYZ color 21.0641, 27.7690, 4.2498 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 21.0641, 27.7690, 4.2498 looks on a black 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 × Fail

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

**XYZ 21.0641, 27.7690, 4.2498**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.0641, 27.7690, 4.2498.



This preview shows how white text looks on a background with the XYZ color 21.0641, 27.7690, 4.2498.



# 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

21.0641, 27.7690, 4.2498

### Deuteranopia

28.0467, 27.5067, 4.8084

### Tritanopia

27.0998, 27.6657, 34.0487

# Trichromacy



**Original Color**

21.0641, 27.7690, 4.2498

**Deuteranomaly**

25.0840, 27.2790, 4.4736

**Tritanomaly**

23.4211, 27.0836, 15.3025

# Monochromacy



**Original Color**

21.0641, 27.7690, 4.2498

**Achromatopsia**

21.2178, 22.3228, 24.3095

**Achromatomaly**

20.0099, 23.6268, 11.6894

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.0641, 27.7690, 4.2498 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(133, 153, 0)` looks like.

```
.text, #text, p{  
    color:rgb(133, 153, 0)  
}
```

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(133, 153, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 153, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 21.0641, 27.7690, 4.2498 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(133, 153, 0) }
```

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

```
.border{ border-color:rgb(133, 153, 0) }
```

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

Here you see how a box with a 4 pixel rgb(133, 153, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 153, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 153, 0);  
box-shadow:4px 4px 4px 4px rgb(133, 153,  
0) }
```



# Background

The CSS property to change the background color of an element to XYZ 21.0641, 27.7690, 4.2498 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 153, 0) }
```

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

```
.background{ background-color: rgb(133,  
153, 0) }
```

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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