

# Converting Colors

XYZ(21.2027, 19.7792, 2.0793)

Have a look what the booklet for  
XYZ(21.2027, 19.7792, 2.0793)  
contains.

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# Color

**XYZ(21.2150, 19.7028,  
2.6849)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A47100
RGB	164, 113, 0
RGB Percent	64%, 44%, 0%
CMY	0.3569, 0.5568, 1.0000
CMYK	0.00, 0.31, 1.00, 0.36
HSL	41°, 100%, 32%
HSV	41°, 100%, 64%
XYZ	21.2150, 19.7028, 2.6849
YIQ	115.3670, 66.6690, -24.3310

# Conversions

## Conversions Part 2

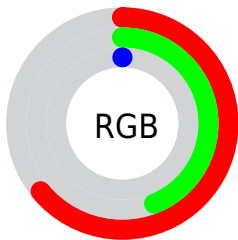
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	74, 164, 0
Decimal	10776832
CIE <sub>Lab</sub>	51.50, 12.35, 58.17
CIE <sub>LCh</sub>	51, 59.463, 78.010
Yxy	19.7028, 0.4866, 0.4519
Android (android.graphics.Color)	4288966912 (0xFFA47100)
YUV	115.3670, -56.8759, 42.6511
Hunter-Lab	44.3878, 7.6347, 27.4852

# Details

The XYZ color **21.2150, 19.7028, 2.6849** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **7.8848, 5.0483, 35.6805**, and the grayscale version is **16.5615, 17.4240, 18.9747**.

A 20% lighter version of the original color is **45.1210, 43.1277, 10.7968**, and **7.9537, 6.9064, 0.9139** is the 20% darker color. If you saturate the color by 10%, you get **21.2151, 19.7032, 2.6849**, and if you desaturate by 10%, it is **21.8971, 20.9126, 3.3888**.

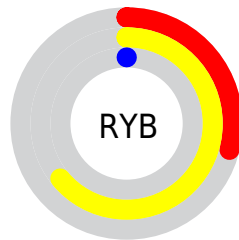
# Distribution



Red (64%)

Green (44%)

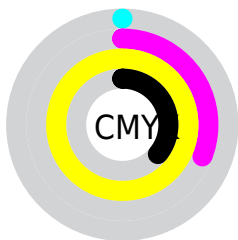
Blue (0%)



Red (29%)

Yellow (64%)

Blue (0%)

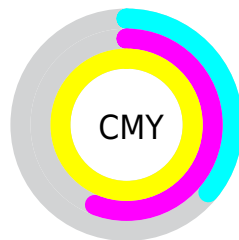


Cyan (0%)

Magenta (31%)

Yellow (100%)

Black (36%)



Cyan (36%)

Magenta (56%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.2150, 19.7028, 2.6849 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 21.2150, 19.7028, 2.6849 by changing the saturation by 10% instead.



21.2150, 19.7028,  
2.6849

21.2150, 19.7028,  
2.6849

251.1290,  
250.3016, 132.2403

13.3946, 12.1792,  
0.9358

44.9337, 42.9183,  
10.8405

7.7797, 6.8658,  
0.0000

61.5626, 59.3791,  
18.0843

4.0049, 3.3783,  
0.0000

81.8585, 79.5876,  
27.9969

1.7049, 1.3323,  
0.0000

106.1867,  
103.9284, 40.9968


0.4593, 0.1660,  
0.0000


134.9125,  
132.7858, 57.5026


0.0000, 0.0000,  
0.0000


168.4012,


166.5442, 77.9327


 207.0183,  
205.5880, 102.7058


 21.2150, 19.7028,  
2.6849


 21.2150, 19.7028,  
2.6849


 21.2151, 19.7032,  
2.6849

 21.8971, 20.9126,  
3.3888

 22.6899, 22.2178,  
4.5174

 23.6274, 23.6337,  
6.2453

 24.7245, 25.1670,  
8.6484

 25.9939, 26.8235,  
11.7916

■ 27.4469, 28.6085,  
15.7318

■ 29.0937, 30.5268,  
20.5205

■ 30.9436, 32.5828,  
26.2048

■ 33.0053, 34.7808,  
32.8282

# Harmonies

## Analogous

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



27.5067, 19.7028, 5.1187



21.2150, 19.7028, 2.6849



15.3965, 19.7028, 2.9148

# Triad

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



21.2150, 19.7028, 2.6849



9.7923, 19.7028, 33.3106



28.6231, 19.7028, 51.8292

# Complementary

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



21.2150, 19.7028, 2.6849



7.8848, 5.0483, 35.6805

# 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.



22.5060, 19.7028, 70.3826



21.2150, 19.7028, 2.6849



12.0478, 19.7028, 56.3510

# Square

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



21.2150, 19.7028, 2.6849



9.5911, 19.7028, 15.3210



16.4414, 19.7028, 72.3744



32.3535, 19.7028, 29.0353



# Rectangle

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



21.2150, 19.7028, 2.6849



12.5089, 19.7028, 4.5744



16.4414, 19.7028, 72.3744



26.7247, 19.7028, 59.1926

# Sweetspot

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



21.2154, 19.7038, 2.6853



52.6304, 55.2069, 36.7109



15.9283, 8.1400, 3.9732



11.2377, 11.7604, 7.2340



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430



# Same Dimension

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



21.2154, 19.7038, 2.6853



38.3161, 35.3785, 4.8092



23.0965, 31.6137, 4.8850



7.4627, 7.8639, 7.5046



16.3106, 15.1951, 2.0733



0.3818, 0.3974, 0.0566



# Inverse Universe

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



7.8848, 5.0483, 35.6805



14.1471, 8.8331, 64.7116



7.2384, 2.9576, 35.3111



6.8718, 7.2026, 8.9311



6.0838, 3.9471, 27.3710

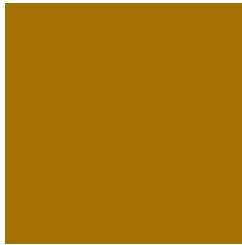


0.1682, 0.1637, 0.5886



# Previews

## White Background



This preview shows how the XYZ color 21.2150, 19.7028, 2.6849 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 21.2150, 19.7028, 2.6849 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 21.2150, 19.7028, 2.6849**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.2150, 19.7028, 2.6849.



This preview shows how white text looks on a background with the XYZ color 21.2150, 19.7028,



# 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

21.2150, 19.7028, 2.6849

### Protanopia

17.9155, 19.9284, 3.2189

### Deuteranopia

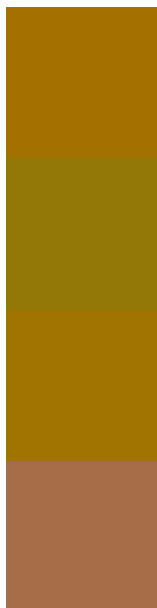
20.0716, 19.7905, 2.7621



## Tritanopia

24.3944, 19.7304, 18.1454

# Trichromacy



## Original Color

21.2150, 19.7028, 2.6849

## Protanomaly

18.9676, 19.7442, 3.0123

## Deuteranomaly

20.5435, 19.8617, 2.7509

## Tritanomaly

22.4686, 19.4085, 8.6929

# Monochromacy



## Original Color

21.2150, 19.7028, 2.6849

## Achromatopsia

16.2955, 17.1441, 18.6699

## Achromatomaly

16.8928, 17.5022, 8.7912

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.2150, 19.7028, 2.6849 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(164, 113, 0)` looks like.

```
.text, #text, p{  
    color:rgb(164, 113, 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(164, 113, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 113, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 21.2150, 19.7028, 2.6849 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(164, 113, 0) }
```



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

```
.border{ border-color:rgb(164, 113, 0) }
```

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

Here you see how a box with a 4 pixel rgb(164, 113, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 113, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 113, 0);  
box-shadow:4px 4px 4px 4px rgb(164, 113,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.2150, 19.7028, 2.6849 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 113, 0) }
```

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

```
.background{ background-color: rgb(164,  
113, 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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