

# Converting Colors

XYZ(22.1997, 24.8981, 3.6358)

Have a look what the booklet for  
XYZ(22.1997, 24.8981, 3.6358)  
contains.

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# Color

**XYZ(22.2253, 24.9493,  
3.6443)**

# Conversions

## Conversions Part 1

Format	Color
Hex	998A00
RGB	153, 138, 0
RGB Percent	60%, 54%, 0%
CMY	0.4000, 0.4588, 1.0000
CMYK	0.00, 0.10, 1.00, 0.40
HSL	54°, 100%, 30%
HSV	54°, 100%, 60%
XYZ	22.2253, 24.9493, 3.6443
YIQ	126.7530, 53.2380, -39.7380

# Conversions

## Conversions Part 2

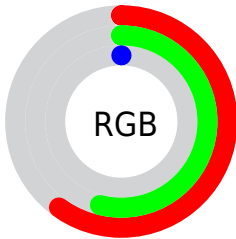
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	17, 153, 0
Decimal	10062336
CIE Lab	57.03, -6.73, 61.45
CIE LCh	57, 61.820, 96.248
Yxy	24.9493, 0.4373, 0.4909
Android (android.graphics.Color)	4288252416 (0xFF998A00)
YUV	126.7530, -62.4892, 23.0186
Hunter-Lab	49.9493, -7.9863, 30.6387

# Details

The XYZ color **22.2253, 24.9493, 3.6443** is a dark color, and the websafe version is hex **999900**. A complement of this color would be **5.9207, 2.6417, 30.3344**, and the grayscale version is **20.2838, 21.3401, 23.2394**.

A 20% lighter version of the original color is **46.5689, 51.5402, 13.1240**, and **8.6094, 9.7414, 1.4265** is the 20% darker color. If you saturate the color by 10%, you get **22.2257, 24.9502, 3.6444**, and if you desaturate by 10%, it is **22.5309, 25.4191, 4.1825**.

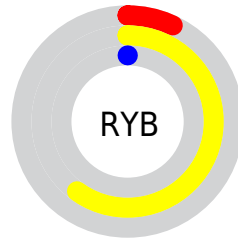
# Distribution



Red (60%)

Green (54%)

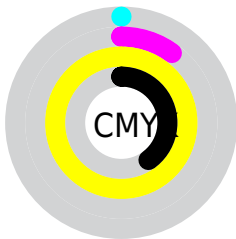
Blue (0%)



Red (7%)

Yellow (60%)

Blue (0%)

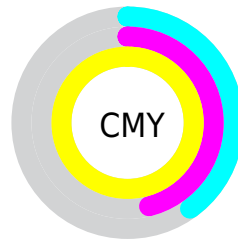


Cyan (0%)

Magenta (10%)

Yellow (100%)

Black (40%)



Cyan (40%)

Magenta (46%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.2253, 24.9493, 3.6443 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 22.2253, 24.9493, 3.6443 by changing the saturation by 10% instead.





 22.2253, 24.9493,  
3.6443


 22.2253, 24.9493,  
3.6443


256.3309,  
277.5854, 144.1857


 14.1401, 16.0393,  
1.4323


 46.5942, 51.5750,  
13.1807


 8.3005, 9.5520,  
0.1667


 63.6085, 70.0594,  
21.3423


 4.3412, 5.1029,  
0.0000

 84.3300, 92.5041,  
32.3240

 1.8969, 2.3078,  
0.0000

 109.1238,  
119.2935, 46.5446


 0.5751, 0.7778,  
0.0000


 138.3555,  
150.8119, 64.4225


 0.0000, 0.0000,  
0.0000


 172.3904,


187.4437, 86.3763


 211.5937,  
229.5734, 112.8245


 22.2253, 24.9493,  
3.6443


 22.2253, 24.9493,  
3.6443

 22.2257, 24.9502,  
3.6444

 22.5309, 25.4191,  
4.1825

 22.9043, 25.9199,  
5.0654

 23.3761, 26.4648,  
6.4517

 23.9583, 27.0587,  
8.4047

 24.6613, 27.7058,  
10.9788

■ 25.4941, 28.4096,  
14.2216

■ 26.4650, 29.1735,  
18.1764

■ 27.5815, 30.0005,  
22.8827

■ 28.8504, 30.8934,  
28.3771

# Harmonies

## Analogous

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



29.7982, 24.9493, 4.5342



22.2253, 24.9493, 3.6443



16.3744, 24.9493, 5.9866

# Triad

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



22.2253, 24.9493, 3.6443



14.1361, 24.9493, 58.3590



38.9388, 24.9493, 46.6805

# Complementary

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



22.2253, 24.9493, 3.6443



5.9207, 2.6417, 30.3344

# 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.



32.9714, 24.9493, 73.9014



22.2253, 24.9493, 3.6443



18.5193, 24.9493, 82.7165

# Square

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



22.2253, 24.9493, 3.6443



12.3597, 24.9493, 31.7571



25.2668, 24.9493, 89.5161



40.4907, 24.9493, 23.0394



# Rectangle

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



22.2253, 24.9493, 3.6443



13.8903, 24.9493, 10.4466



25.2668, 24.9493, 89.5161



37.3308, 24.9493, 56.0145

# Sweetspot

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



22.2259, 24.9505, 3.6448



47.2851, 52.1621, 32.0904



13.2252, 6.8078, 1.0806



10.2878, 11.3992, 6.4562



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.



22.2259, 24.9505, 3.6448



39.7282, 44.5316, 6.5016



15.7851, 25.0473, 4.0030



6.6572, 7.1194, 6.6292



18.3829, 20.6482, 3.0166



0.2878, 0.3347, 0.0494



# Inverse Universe

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



5.9207, 2.6417, 30.3344



10.5385, 4.6015, 54.3047



7.6870, 3.2987, 30.3681



5.9308, 6.1189, 7.7975



4.9057, 2.2081, 25.0754

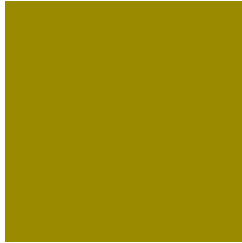


0.0846, 0.0555, 0.3786



# Previews

## White Background



This preview shows how the XYZ color 22.2253, 24.9493, 3.6443 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 22.2253, 24.9493, 3.6443 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 22.2253, 24.9493, 3.6443**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.2253, 24.9493, 3.6443.



This preview shows how white text looks on a background with the XYZ color 22.2253, 24.9493,



# 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

22.2253, 24.9493, 3.6443

### Protanopia

22.4632, 24.8599, 3.6145

### Deuteranopia

25.3254, 24.8932, 4.0423



## Tritanopia

27.0046, 24.8504, 27.4181

# Trichromacy



## Original Color

22.2253, 24.9493, 3.6443

## Protanomaly

22.2721, 24.7613, 3.6056

## Deuteranomaly

24.1738, 24.9062, 3.8499

## Tritanomaly

24.1133, 24.4762, 12.6860

# Monochromacy



## Original Color

22.2253, 24.9493, 3.6443

## Achromatopsia

20.1725, 21.2231, 23.1119

## Achromatomaly

19.7548, 22.0609, 11.0016

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.2253, 24.9493, 3.6443 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(153, 138, 0)` looks like.

```
.text, #text, p{  
    color:rgb(153, 138, 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(153, 138, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 138, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 22.2253, 24.9493, 3.6443 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(153, 138, 0) }
```



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

```
.border{ border-color:rgb(153, 138, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 138, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 138, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 138, 0);  
box-shadow:4px 4px 4px 4px rgb(153, 138,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.2253, 24.9493, 3.6443 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 138, 0) }
```

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

```
.background{ background-color: rgb(153,  
138, 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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