

# Converting Colors

XYZ(12.7206, 9.1965, 1.5210)

Have a look what the booklet for  
XYZ(12.7206, 9.1965, 1.5210)  
contains.

<b>XYZ(12.6720, 9.1622, 1.5161)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(12.6720, 9.1622,  
1.5161)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8C3F0E
RGB	140, 63, 14
RGB Percent	55%, 25%, 5%
CMY	0.4510, 0.7529, 0.9451
CMYK	0.00, 0.55, 0.90, 0.45
HSL	23°, 82%, 30%
HSV	23°, 90%, 55%
XYZ	12.6720, 9.1622, 1.5161
YIQ	80.4370, 61.6210, 1.0850

# Conversions

## Conversions Part 2

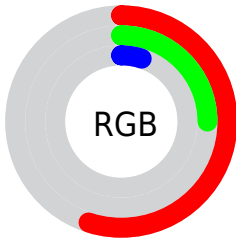
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	140, 94, 14
Decimal	9191182
CIE Lab	36.29, 30.02, 42.05
CIE LCh	36, 51.666, 54.473
Yxy	9.1622, 0.5427, 0.3924
Android (android.graphics.Color)	4287381262 (0xFF8C3F0E)
YUV	80.4370, -32.7534, 52.2368
Hunter-Lab	30.2691, 21.7571, 18.2187

# Details

The XYZ color **12.6720, 9.1622, 1.5161** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **8.6556, 9.4685, 26.1821**, and the grayscale version is **7.7645, 8.1688, 8.8958**.

A 20% lighter version of the original color is **30.2169, 24.0783, 7.6124**, and **3.7381, 2.1806, 0.2239** is the 20% darker color. If you saturate the color by 10%, you get **12.1553, 8.2558, 0.9530**, and if you desaturate by 10%, it is **13.3138, 10.2373, 2.3731**.

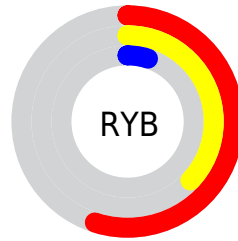
# Distribution



Red (55%)

Green (25%)

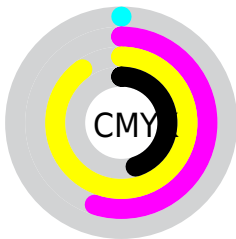
Blue (5%)



Red (55%)

Yellow (37%)

Blue (5%)

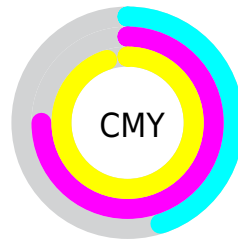


Cyan (0%)

Magenta (55%)

Yellow (90%)

Black (45%)



Cyan (45%)

Magenta (75%)

Yellow (95%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6720, 9.1622, 1.5161 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 12.6720, 9.1622, 1.5161 by changing the saturation by 10% instead.



12.6720, 9.1622,  
1.5161

12.6720, 9.1622,  
1.5161

202.4851,  
184.5833, 114.3419

7.2785, 4.8471,  
0.2299

30.3196, 24.2073,  
7.6698

3.6848, 2.1578,  
0.0000

43.3044, 35.7061,  
13.5450

1.5254, 0.6969,  
0.0000

59.5504, 50.3682,  
21.8439

0.3430, 0.0000,  
0.0000

79.4229, 68.5782,  
32.9850


0.0000, 0.0000,  
0.0000

103.2873, 90.7202,  
47.3868


131.5088,


117.1789, 65.4678


 164.4530,  
148.3384, 87.6467


 12.6720, 9.1622,  
1.5161


 12.6720, 9.1622,  
1.5161


 12.1553, 8.2558,  
0.9530


 13.3138, 10.2373,  
2.3731

 12.1552, 8.2556,  
0.9528

 14.1102, 11.4968,  
3.6662

 15.0740, 12.9510,  
5.4471

 16.2163, 14.6088,  
7.7599

 17.5469, 16.4785,  
10.6439

■ 19.0751, 18.5679,  
14.1345

■ 20.8093, 20.8842,  
18.2643

■ 22.7575, 23.4345,  
23.0634

■ 24.9272, 26.2255,  
28.5601

# Harmonies

## Analogous

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



15.3745, 9.1622, 4.4246



12.6720, 9.1622, 1.5161



9.2979, 9.1622, 0.7797

# Triad

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



12.6720, 9.1622, 1.5161



4.0045, 9.1622, 8.4139



11.4321, 9.1622, 35.1405

# Complementary

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



12.6720, 9.1622, 1.5161



8.6556, 9.4685, 26.1821

# 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.



8.1443, 9.1622, 38.6327



12.6720, 9.1622, 1.5161



4.3162, 9.1622, 18.9006

# Square

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



12.6720, 9.1622, 1.5161



4.6876, 9.1622, 2.9607



5.6717, 9.1622, 31.4538



14.5474, 9.1622, 23.6278



# Rectangle

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



12.6720, 9.1622, 1.5161



7.2959, 9.1622, 0.8775



5.6717, 9.1622, 31.4538



10.2924, 9.1622, 37.4985

# Sweetspot

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



12.6722, 9.1627, 1.5163



34.3394, 33.6909, 26.5827



12.8909, 6.6570, 10.6623



7.7136, 7.4949, 5.6588



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021



# Same Dimension

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



12.6722, 9.1627, 1.5163



21.2839, 14.2620, 1.6311



18.2660, 20.3504, 3.3809



5.1820, 5.3468, 5.3113



10.8187, 7.3719, 0.8527



0.0854, 0.0760, 0.0102



# Inverse Universe

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



8.6556, 9.4685, 26.1821



13.9905, 14.6279, 45.8291



5.3468, 2.8510, 25.0792



5.0122, 5.3674, 6.3777



7.1507, 7.5717, 23.1303



0.0618, 0.0788, 0.1584



# Previews

## White Background



This preview shows how the XYZ color 12.6720, 9.1622, 1.5161 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

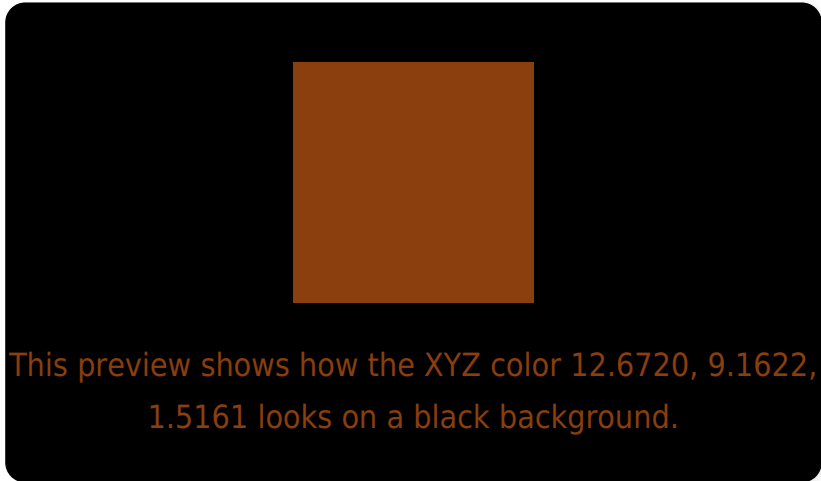
Any Text WCAG AA ✓ Pass

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

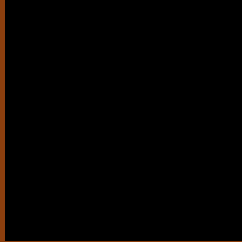
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 12.6720, 9.1622, 1.5161**

## **Background**



This preview shows how black text looks on a background with the XYZ color 12.6720, 9.1622, 1.5161.



This preview shows how white text looks on a background with the XYZ color 12.6720, 9.1622,

1.5161.

# 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

12.6720, 9.1622, 1.5161

### Protanopia

8.3838, 9.2475, 2.0049

### Deuteranopia

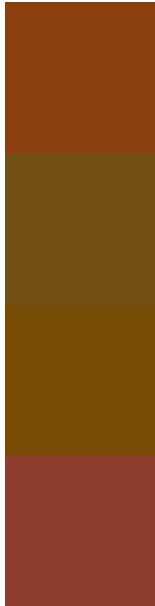
9.3240, 9.2858, 1.3009



## Tritanopia

13.6165, 9.2376, 5.7680

# Trichromacy



## Original Color

12.6720, 9.1622, 1.5161

## Protanomaly

9.6436, 9.0032, 1.8018

## Deuteranomaly

10.2892, 9.0362, 1.3454

## Tritanomaly

13.0740, 9.0839, 3.5469

# Monochromacy



## Original Color

12.6720, 9.1622, 1.5161

## Achromatopsia

7.6249, 8.0220, 8.7359

## Achromatomaly

8.6421, 8.0079, 4.8316

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 12.6720, 9.1622, 1.5161 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(140, 63, 14)` looks like.

```
.text, #text, p{  
    color:rgb(140, 63, 14)  
}
```

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(140, 63, 14) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(140, 63, 14) }
```

## Border

The CSS property to change the border of an element to XYZ 12.6720, 9.1622, 1.5161 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(140, 63, 14) }
```



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

```
.border{ border-color:rgb(140, 63, 14) }
```

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

Here you see how a box with a 4 pixel rgb(140, 63, 14) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(140, 63, 14); -webkit-box-  
shadow:4px 4px 4px 4px rgb(140, 63, 14);  
box-shadow:4px 4px 4px 4px rgb(140, 63,  
14) }
```

# Background

The CSS property to change the background color of an element to XYZ 12.6720, 9.1622, 1.5161 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(140, 63, 14) }
```

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

```
.background{ background-color: rgb(140, 63,  
14) }
```

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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