

Converting Colors

XYZ(12.8556, 6.9168, 0.6575)

Have a look what the booklet for
XYZ(12.8556, 6.9168, 0.6575)
contains.

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Color

**XYZ(12.7781, 6.8849,
0.6554)**

Conversions

Conversions Part 1

Format	Color
Hex	961100
RGB	150, 17, 0
RGB Percent	59%, 7%, 0%
CMY	0.4118, 0.9333, 1.0000
CMYK	0.00, 0.89, 1.00, 0.41
HSL	7°, 100%, 29%
HSV	7°, 100%, 59%
XYZ	12.7781, 6.8849, 0.6554
YIQ	54.8290, 84.7250, 22.9090

Conversions

Conversions Part 2

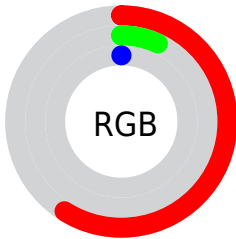
Format	Color
R_{YB}	150, 19, 0
Decimal	9834752
CIE Lab	31.54, 51.21, 45.01
CIE LCh	32, 68.181, 41.312
Yxy	6.8849, 0.6289, 0.3389
Android (android.graphics.Color)	4288024832 (0xFF961100)
YUV	54.8290, -27.0307, 83.4650
Hunter-Lab	26.2391, 41.0088, 16.8864

Details

The XYZ color **12.7781, 6.8849, 0.6554** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **13.8904, 18.9727, 31.7839**, and the grayscale version is **3.6362, 3.8256, 4.1661**.

A 20% lighter version of the original color is **30.4093, 19.6592, 4.9882**, and **4.1198, 2.1238, 0.1928** is the 20% darker color. If you saturate the color by 10%, you get **12.7782, 6.8853, 0.6555**, and if you desaturate by 10%, it is **13.1360, 7.4630, 1.2001**.

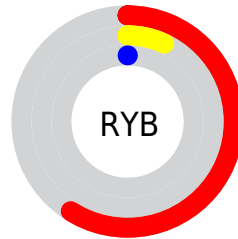
Distribution



Red (59%)

Green (7%)

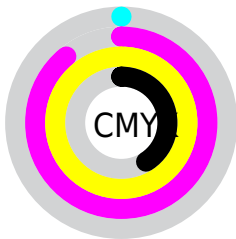
Blue (0%)



Red (59%)

Yellow (7%)

Blue (0%)

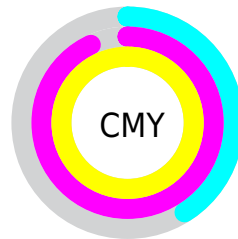


Cyan (0%)

Magenta (89%)

Yellow (100%)

Black (41%)



Cyan (41%)


Magenta (93%)

Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the XYZ color 12.7781, 6.8849, 0.6554 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 12.7781, 6.8849, 0.6554 by changing the saturation by 10% instead.


 12.7781, 6.8849,
0.6554


 12.7781, 6.8849,
0.6554


 203.1571,
166.7038, 96.5332


 7.3519, 3.3902,
0.0000


 30.5093, 19.7413,
4.9631


 3.7314, 1.3387,
0.0000

 43.5449, 29.8718,
9.4933


 1.5513, 0.1709,
0.0000

 59.8477, 42.9830,
16.1763

 0.3604, 0.0000,
0.0000


 79.7831, 59.4593,
25.4308


 0.0000, 0.0000,
0.0000


 103.7164, 79.6852,
37.6751

 132.0129,


104.0450, 53.3279


 165.0380,
132.9231, 72.8078

 12.7781, 6.8849,
0.6554


 12.7781, 6.8849,
0.6554


 12.7782, 6.8853,
0.6555

 13.1360, 7.4630,
1.2001

 13.6982, 8.3503,
2.1181

 14.5099, 9.5908,
3.5691

 15.5964, 11.2167,
5.6179

 16.9798, 13.2564,
8.3204

■ 18.6798, 15.7357,
11.7255

■ 20.7145, 18.6782,
15.8780

■ 23.1007, 22.1060,
20.8185

■ 25.8539, 26.0396,
26.5850

Harmonies

Analogous

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



15.2653, 6.8849, 4.3933



12.7781, 6.8849, 0.6554



8.8677, 6.8849, 0.0000

Triad

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



12.7781, 6.8849, 0.6554



2.1018, 6.8849, 2.9583



7.9105, 6.8849, 44.8668

Complementary

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



12.7781, 6.8849, 0.6554



13.8904, 18.9727, 31.7839

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.



4.6663, 6.8849, 42.8450



12.7781, 6.8849, 0.6554



2.0014, 6.8849, 11.7970

Square

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



12.7781, 6.8849, 0.6554



3.1097, 6.8849, 0.2218



2.7618, 6.8849, 27.8675



11.8722, 6.8849, 32.1533

Rectangle

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



12.7781, 6.8849, 0.6554



6.3954, 6.8849, 0.0000



2.7618, 6.8849, 27.8675



6.6946, 6.8849, 46.0590

Sweetspot

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



12.7782, 6.8853, 0.6555



36.3276, 32.6328, 27.5501



16.9507, 8.2332, 23.6172



7.7357, 6.7772, 5.4601



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



12.7782, 6.8853, 0.6555



22.4834, 12.0161, 1.1343



16.2337, 13.7962, 1.8073



5.8507, 5.9151, 6.0738



10.6114, 5.7371, 0.5481



0.1402, 0.0909, 0.0102

Inverse Universe

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



13.8904, 18.9727, 31.7839



24.4328, 33.3213, 56.0652



7.1208, 5.4337, 29.5274



5.9085, 6.4511, 7.4035



11.5351, 15.7650, 26.3660



0.1540, 0.2187, 0.3270

Previews

White Background



This preview shows how the XYZ color 12.7781, 6.8849, 0.6554 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

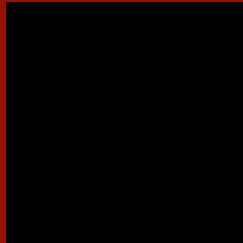
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7781, 6.8849, 0.6554

Background



This preview shows how black text looks on a background with the XYZ color 12.7781, 6.8849, 0.6554.



This preview shows how white text looks on a background with the XYZ color 12.7781, 6.8849,

0.6554.

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

12.7781, 6.8849, 0.6554

Protanopia

6.6092, 7.3332, 1.6832

Deuteranopia

7.2064, 7.2519, 1.0199



Tritanopia

12.8293, 6.8812, 0.9998

Trichromacy



Original Color

12.7781, 6.8849, 0.6554

Protanomaly

7.7392, 6.0101, 1.1000

Deuteranomaly

8.4756, 6.2592, 0.7614

Tritanomaly

12.8068, 6.8721, 0.8812

Monochromacy



Original Color

12.7781, 6.8849, 0.6554

Achromatopsia

3.6313, 3.8204, 4.1605

Achromatomaly

5.3128, 3.8809, 2.0592

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7781, 6.8849, 0.6554 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(150, 17, 0)` looks like.

```
.text, #text, p{  
    color:rgb(150, 17, 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(150, 17, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 17, 0) }
```

Border

The CSS property to change the border of an element to XYZ 12.7781, 6.8849, 0.6554 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(150, 17, 0) }
```


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

```
.border{ border-color:rgb(150, 17, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 17, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 17, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 17, 0);  
box-shadow:4px 4px 4px 4px rgb(150, 17, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.7781, 6.8849, 0.6554 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 17, 0) }
```

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

```
.background{ background-color: rgb(150, 17,  
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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