

Converting Colors

XYZ(12.6287, 14.7372, 30.5372)

Have a look what the booklet for
XYZ(12.6287, 14.7372, 30.5372)
contains.

XYZ(12.7088, 14.8575, 30.6317)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.7088, 14.8575,
30.6317)**

Conversions

Conversions Part 1

Format	Color
Hex	317295
RGB	49, 114, 149
RGB Percent	19%, 45%, 58%
CMY	0.8078, 0.5529, 0.4157
CMYK	0.67, 0.23, 0.00, 0.42
HSL	201°, 50%, 39%
HSV	201°, 67%, 58%
XYZ	12.7088, 14.8575, 30.6317
YIQ	98.5550, -49.9750, -2.8950

Conversions

Conversions Part 2

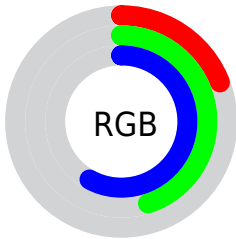
Format	Color
R_{YB}	49, 88, 149
Decimal	3240597
CIE _{Lab}	45.44, -9.14, -25.12
CIE _{LCh}	45, 26.733, 249.999
Yxy	14.8575, 0.2184, 0.2553
Android (android.graphics.Color)	4281430677 (0xFF317295)
YUV	98.5550, 24.8694, -43.4597
Hunter-Lab	38.5454, -8.6013, -20.1354

Details

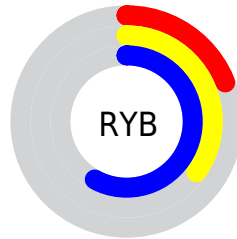
The XYZ color **12.7088, 14.8575, 30.6317** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **16.1199, 12.9531, 4.5572**, and the grayscale version is **11.6973, 12.3065, 13.4018**.

A 20% lighter version of the original color is **30.3596, 34.6484, 61.5876**, and **4.1528, 4.7783, 12.2587** is the 20% darker color. If you saturate the color by 10%, you get **11.5339, 13.4035, 30.4133**, and if you desaturate by 10%, it is **14.1558, 16.5021, 30.8732**.

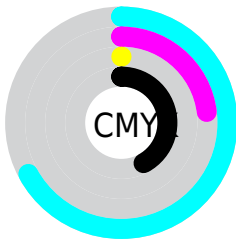
Distribution



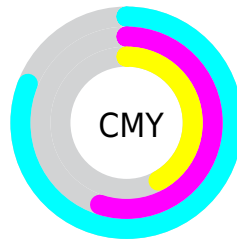
- Red (19%)
- Green (45%)
- Blue (58%)



- Red (19%)
- Yellow (35%)
- Blue (58%)



- Cyan (67%)
- Magenta (23%)
- Yellow (0%)
- Black (42%)



- Cyan (81%)
- Magenta (55%)
- Yellow (42%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7088, 14.8575, 30.6317 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 12.7088, 14.8575, 30.6317 by changing the saturation by 10% instead.

■ 12.7088, 14.8575,
30.6317

■ 12.7088, 14.8575,
30.6317

■ 202.7184,
222.5021, 319.1364

■ 7.3039, 8.7194,
20.0625

■ 30.3854, 34.6030,
61.7325

■ 3.7009, 4.5586,
12.2559

■ 43.3879, 48.9792,
83.1012

■ 1.5344, 1.9907,
6.7936

■ 59.6536, 66.8703,
108.9067

■ 0.3490, 0.6021,
3.2569

■ 79.5479, 88.6606,
139.5676

■ 0.0000, 0.0000,
1.2272

■ 103.4362,
114.7345, 175.5025

■ 0.0000, 0.0000,
0.0010

■ 131.6838,

■ 0.0000, 0.0000,

145.4765, 217.1300

0.0000

164.6561,
181.2709, 264.8684

■ 12.7088, 14.8575,
30.6317

■ 12.7088, 14.8575,
30.6317

■ 11.5339, 13.4035,
30.4133

■ 14.1558, 16.5021,
30.8732

■ 10.6047, 12.1249,
30.2154

■ 15.8952, 18.3478,
31.1377

■ 9.8798, 10.9998,
30.0365

■ 17.9468, 20.4058,
31.4268

■ 9.6855, 10.6912,
29.9872

■ 20.3282, 22.6859,
31.7414

■ 23.0555, 25.1973,
32.0824

■ 26.1439, 27.9485,
32.4507

■ 29.6076, 30.9475,
32.8470

■ 33.4598, 34.2019,
33.2721

■ 37.7132, 37.7188,
33.7268

Harmonies

Analogous

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



11.0923, 14.8575, 25.3962



12.7088, 14.8575, 30.6317



14.8773, 14.8575, 31.4853

Triad

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



12.7088, 14.8575, 30.6317



18.7658, 14.8575, 14.1424



11.5472, 14.8575, 8.4918

Complementary

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



12.7088, 14.8575, 30.6317



16.1199, 12.9531, 4.5572

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.



13.3920, 14.8575, 6.8649



12.7088, 14.8575, 30.6317



17.6576, 14.8575, 9.5126

Square

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



12.7088, 14.8575, 30.6317



18.5336, 14.8575, 20.7384



15.6354, 14.8575, 7.1817



10.4721, 14.8575, 12.3393

Rectangle

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



12.7088, 14.8575, 30.6317



16.3696, 14.8575, 29.2715



15.6354, 14.8575, 7.1817



12.0894, 14.8575, 7.7196

Sweetspot

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



12.7093, 14.8580, 30.6321



39.6088, 43.5954, 57.2484



13.6150, 22.7884, 12.0696



8.5022, 9.4078, 12.6526



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.



12.7093, 14.8580, 30.6321



19.6834, 22.6994, 54.2652



8.5256, 6.4906, 29.2375



5.7950, 6.2240, 7.3657



8.1801, 9.0550, 25.2477



0.1278, 0.1663, 0.3183

Inverse Universe

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



16.5305, 9.8018, 16.9407



27.5025, 14.6148, 25.7420



21.4744, 23.6621, 6.3420



5.9500, 5.8751, 6.8427



12.2560, 6.1075, 10.0951



0.1640, 0.0803, 0.1972

Previews

White Background



This preview shows how the XYZ color 12.7088, 14.8575, 30.6317 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 × Fail

Black Background



This preview shows how the XYZ color 12.7088, 14.8575, 30.6317 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

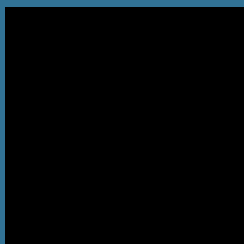
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7088, 14.8575, 30.6317

Background



This preview shows how black text looks on a background with the XYZ color 12.7088, 14.8575, 30.6317.



This preview shows how white text looks on a background with the XYZ color 12.7088, 14.8575,

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

12.7088, 14.8575, 30.6317

Protanopia

15.0417, 14.8326, 28.0568

Deuteranopia

15.0543, 14.7666, 31.3349



Tritanopia

11.0368, 14.8642, 22.3661

Trichromacy



Original Color

12.7088, 14.8575, 30.6317

Protanomaly

13.8877, 14.6871, 28.8910

Deuteranomaly

13.9542, 14.6758, 30.9514

Tritanomaly

11.6489, 14.9433, 25.1920

Monochromacy



Original Color

12.7088, 14.8575, 30.6317

Achromatopsia

11.8596, 12.4772, 13.5877

Achromatomaly

11.5545, 12.9343, 18.7172

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7088, 14.8575, 30.6317 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(49, 114, 149)` looks like.

```
.text, #text, p{  
    color:rgb(49, 114, 149)  
}
```

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(49, 114, 149) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 114, 149) }
```

Border

The CSS property to change the border of an element to XYZ 12.7088, 14.8575, 30.6317 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(49, 114, 149) }
```


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

```
.border{ border-color:rgb(49, 114, 149) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 114, 149)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 114, 149); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 114, 149);  
box-shadow:4px 4px 4px 4px rgb(49, 114,  
149) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7088, 14.8575, 30.6317 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 114, 149) }
```

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

```
.background{ background-color: rgb(49, 114,  
149) }
```

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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