

Converting Colors

XYZ(12.9113, 16.0500, 31.7923)

Have a look what the booklet for
XYZ(12.9113, 16.0500, 31.7923)
contains.

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Color

**XYZ(12.8378, 15.9433,
31.6789)**

Conversions

Conversions Part 1

Format	Color
Hex	1E7897
RGB	30, 120, 151
RGB Percent	12%, 47%, 59%
CMY	0.8823, 0.5294, 0.4078
CMYK	0.80, 0.21, 0.00, 0.41
HSL	195°, 67%, 35%
HSV	195°, 80%, 59%
XYZ	12.8378, 15.9433, 31.6789
YIQ	96.6240, -63.5910, -9.4390

Conversions

Conversions Part 2

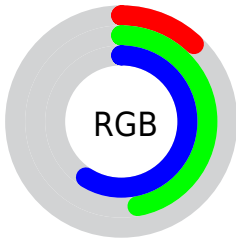
Format	Color
R_{YB}	30, 82, 151
Decimal	1996951
CIE _{Lab}	46.90, -14.58, -24.08
CIE _{LCh}	47, 28.148, 238.801
Yxy	15.9433, 0.2123, 0.2637
Android (android.graphics.Color)	4280187031 (0xFF1E7897)
YUV	96.6240, 26.8074, -58.4292
Hunter-Lab	39.9291, -12.4854, -19.0891

Details

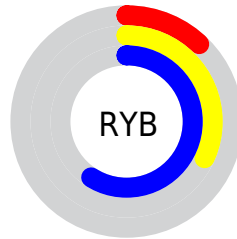
The XYZ color **12.8378, 15.9433, 31.6789** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **14.6664, 10.0117, 2.3884**, and the grayscale version is **11.2187, 11.8030, 12.8535**.

A 20% lighter version of the original color is **30.4913, 36.3457, 63.1660**, and **4.5535, 5.4266, 12.8640** is the 20% darker color. If you saturate the color by 10%, you get **12.0422, 14.8566, 31.5114**, and if you desaturate by 10%, it is **13.8644, 17.1776, 31.8634**.

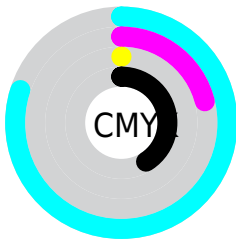
Distribution



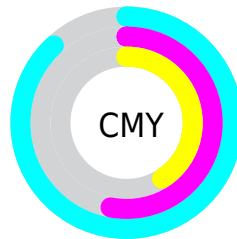
- Red (12%)
- Green (47%)
- Blue (59%)



- Red (12%)
- Yellow (32%)
- Blue (59%)



- Cyan (80%)
- Magenta (21%)
- Yellow (0%)
- Black (41%)



- Cyan (88%)
- Magenta (53%)
- Yellow (41%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8378, 15.9433, 31.6789 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 12.8378, 15.9433, 31.6789 by changing the saturation by 10% instead.

■ 12.8378, 15.9433,
31.6789

■ 12.8378, 15.9433,
31.6789

■ 203.5342,
229.0069, 324.1015

■ 7.3932, 9.4840,
20.8536

■ 30.6159, 36.4997,
63.3994

■ 3.7577, 5.0582,
12.8268

■ 43.6800, 51.3657,
85.1317

■ 1.5660, 2.2815,
7.1801

■ 60.0148, 69.8027,
111.3367

■ 0.3701, 0.7639,
3.4948

■ 79.9854, 92.1951,
142.4329

■ 0.0000, 0.0000,
1.3525

■ 103.9573,
118.9274, 178.8390

■ 0.0000, 0.0000,
0.1043

■ 132.2958,

■ 0.0000, 0.0000,

150.3838, 220.9734

0.0000

165.3663,
186.9489, 269.2547

■ 12.8378, 15.9433,
31.6789

■ 12.8378, 15.9433,
31.6789

■ 12.0422, 14.8566,
31.5114

■ 13.8644, 17.1776,
31.8634

■ 11.4147, 13.8918,
31.3582

■ 15.1474, 18.5720,
32.0649

■ 16.7102, 20.1392,
32.2850

■ 18.5731, 21.8900,
32.5248

■ 20.7546, 23.8342,
32.7850

■ 23.2714, 25.9806,
33.0667

■ 26.1391, 28.3378,
33.3705

■ 29.3723, 30.9134,
33.6973

■ 32.9848, 33.7149,
34.0476

Harmonies

Analogous

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



11.3825, 15.9433, 24.7200



12.8378, 15.9433, 31.6789



15.0551, 15.9433, 34.6843

Triad

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



12.8378, 15.9433, 31.6789



20.3792, 15.9433, 17.6440



12.9916, 15.9433, 8.0042

Complementary

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



12.8378, 15.9433, 31.6789



14.6664, 10.0117, 2.3884

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.



15.2526, 15.9433, 7.0488



12.8378, 15.9433, 31.6789



19.6774, 15.9433, 11.6277

Square

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



12.8378, 15.9433, 31.6789



19.5600, 15.9433, 25.3454



17.7324, 15.9433, 8.1743



11.4643, 15.9433, 11.2566

Rectangle

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



12.8378, 15.9433, 31.6789



16.7262, 15.9433, 33.5573



17.7324, 15.9433, 8.1743



13.6828, 15.9433, 7.4500

Sweetspot

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



12.8383, 15.9439, 31.6793



39.6373, 44.8082, 58.9934



12.4249, 22.7386, 8.0449



8.6761, 9.8992, 13.3709



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.



12.8383, 15.9439, 31.6793



20.7005, 25.2492, 56.2162



7.7511, 5.7694, 29.9835



6.2506, 6.7585, 7.9041



9.7343, 11.8652, 26.6849



0.1740, 0.2343, 0.4084

Inverse Universe

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



16.6174, 8.8646, 18.6050



28.2910, 14.0931, 29.2689



19.8045, 20.2880, 4.1012



6.3936, 6.2966, 7.4527



13.3722, 6.6031, 13.7508



0.2143, 0.1045, 0.2812

Previews

White Background



This preview shows how the XYZ color 12.8378, 15.9433, 31.6789 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 12.8378, 15.9433, 31.6789 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 12.8378, 15.9433, 31.6789

Background



This preview shows how black text looks on a background with the XYZ color 12.8378, 15.9433, 31.6789.



This preview shows how white text looks on a background with the XYZ color 12.8378, 15.9433,

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

12.8378, 15.9433, 31.6789

Protanopia

15.9061, 15.7452, 28.1874

Deuteranopia

16.0423, 15.7240, 32.3265



Tritanopia

11.3166, 15.8594, 24.6550

Trichromacy



Original Color

12.8378, 15.9433, 31.6789

Protanomaly

14.0739, 15.4221, 29.4291

Deuteranomaly

14.2451, 15.4550, 31.9381

Tritanomaly

11.8312, 15.8837, 27.2532

Monochromacy



Original Color

12.8378, 15.9433, 31.6789

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

11.0101, 12.8040, 18.7207

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8378, 15.9433, 31.6789 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(30, 120, 151)` looks like.

```
.text, #text, p{  
    color:rgb(30, 120, 151)  
}
```

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(30, 120, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(30, 120, 151) }
```

Border

The CSS property to change the border of an element to XYZ 12.8378, 15.9433, 31.6789 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(30, 120, 151) }
```


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

```
.border{ border-color:rgb(30, 120, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(30, 120, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(30, 120, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(30, 120, 151);  
box-shadow:4px 4px 4px 4px rgb(30, 120,  
151) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8378, 15.9433, 31.6789 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(30, 120, 151) }
```

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

```
.background{ background-color: rgb(30, 120,  
151) }
```

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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