

Converting Colors

XYZ(13.2025, 16.3222, 31.8037)

Have a look what the booklet for
XYZ(13.2025, 16.3222, 31.8037)
contains.

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Color

**XYZ(13.1862, 16.3024,
31.7299)**

Conversions

Conversions Part 1

Format	Color
Hex	257997
RGB	37, 121, 151
RGB Percent	15%, 47%, 59%
CMY	0.8549, 0.5255, 0.4078
CMYK	0.75, 0.20, 0.00, 0.41
HSL	196°, 61%, 37%
HSV	196°, 75%, 59%
XYZ	13.1862, 16.3024, 31.7299
YIQ	99.3040, -59.6940, -8.4780

Conversions

Conversions Part 2

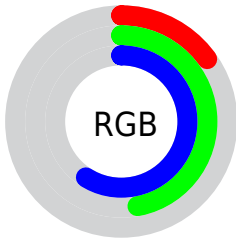
Format	Color
R_{YB}	37, 85, 151
Decimal	2455959
CIE _{Lab}	47.37, -14.30, -23.34
CIE _{LCh}	47, 27.374, 238.502
Yxy	16.3024, 0.2154, 0.2663
Android (android.graphics.Color)	4280646039 (0xFF257997)
YUV	99.3040, 25.4861, -54.6406
Hunter-Lab	40.3762, -12.3633, -18.3300

Details

The XYZ color **13.1862, 16.3024, 31.7299** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **15.1042, 10.7280, 3.0255**, and the grayscale version is **11.8855, 12.5045, 13.6174**.

A 20% lighter version of the original color is **31.1086, 36.9476, 63.2496**, and **4.6176, 5.5548, 12.8854** is the 20% darker color. If you saturate the color by 10%, you get **12.2793, 15.1330, 31.5523**, and if you desaturate by 10%, it is **14.3382, 17.6283, 31.9254**.

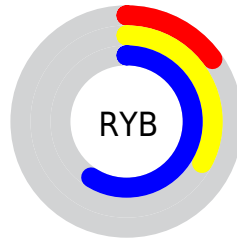
Distribution



Red (15%)

Green (47%)

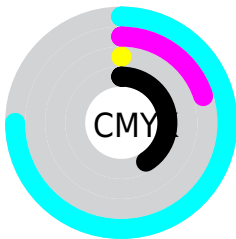
Blue (59%)



Red (15%)

Yellow (33%)

Blue (59%)

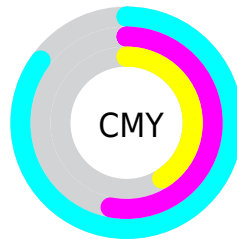


Cyan (75%)

Magenta (20%)

Yellow (0%)

Black (41%)



Cyan (85%)

Magenta (53%)

Yellow (41%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.1862, 16.3024, 31.7299 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 13.1862, 16.3024, 31.7299 by changing the saturation by 10% instead.

■ 13.1862, 16.3024,
31.7299

■ 13.1862, 16.3024,
31.7299

■ 205.7211,
231.1196, 324.3417

■ 7.6348, 9.7384,
20.8922

■ 31.2364, 37.1224,
63.4804

■ 3.9120, 5.2258,
12.8547

■ 44.4658, 52.1472,
85.2302

■ 1.6525, 2.3804,
7.1990

■ 60.9853, 70.7610,
111.4545

■ 0.4262, 0.8158,
3.5066

■ 81.1603, 93.3482,
142.5718

■ 0.0000, 0.0000,
1.3587

■ 105.3559,
120.2933, 179.0007

■ 0.0000, 0.0000,
0.1092

■ 133.9377,

■ 0.0000, 0.0000,

151.9807, 221.1596

0.0000

167.2710,
188.7946, 269.4671

■ 13.1862, 16.3024,
31.7299

■ 13.1862, 16.3024,
31.7299

■ 12.2793, 15.1330,
31.5523

■ 14.3382, 17.6283,
31.9254

■ 11.5823, 14.1006,
31.3898

■ 15.7585, 19.1222,
32.1389

■ 11.2991, 13.6607,
31.3198

■ 17.4694, 20.7960,
32.3718

■ 19.4903, 22.6602,
32.6251

■ 21.8386, 24.7242,
32.8997

■ 24.5308, 26.9965,
33.1965

■ 27.5818, 29.4854,
33.5161

■ 31.0060, 32.1985,
33.8593

■ 34.8166, 35.1429,
34.2268

Harmonies

Analogous

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



11.7510, 16.3024, 24.9087



13.1862, 16.3024, 31.7299



15.3735, 16.3024, 34.7071

Triad

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



13.1862, 16.3024, 31.7299



20.6341, 16.3024, 18.1016



13.3765, 16.3024, 8.4178

Complementary

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



13.1862, 16.3024, 31.7299



15.1042, 10.7280, 3.0255

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.



15.6170, 16.3024, 7.4748



13.1862, 16.3024, 31.7299



19.9601, 16.3024, 12.1148

Square

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



13.1862, 16.3024, 31.7299



19.8162, 16.3024, 25.6735



18.0586, 16.3024, 8.6317



11.8525, 16.3024, 11.6525

Rectangle

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



13.1862, 16.3024, 31.7299



17.0208, 16.3024, 33.6469



18.0586, 16.3024, 8.6317



14.0631, 16.3024, 7.8663

Sweetspot

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



13.1868, 16.3030, 31.7303



40.0387, 45.0736, 59.0235



12.7988, 22.9145, 8.8265



8.7545, 9.9475, 13.3761



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.



13.1868, 16.3030, 31.7303



21.0465, 25.7258, 56.2900



8.2686, 6.4667, 30.0909



6.2470, 6.7513, 7.9029



9.6363, 11.6693, 26.6522



0.1730, 0.2324, 0.4081

Inverse Universe

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



16.8757, 9.2835, 18.9921



28.5182, 14.3852, 29.8448



20.1181, 20.7558, 4.6968



6.3918, 6.2959, 7.4432



13.3227, 6.5833, 13.4904



0.2138, 0.1043, 0.2786

Previews

White Background



This preview shows how the XYZ color 13.1862, 16.3024, 31.7299 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 13.1862, 16.3024, 31.7299 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 13.1862, 16.3024, 31.7299

Background



This preview shows how black text looks on a background with the XYZ color 13.1862, 16.3024, 31.7299.

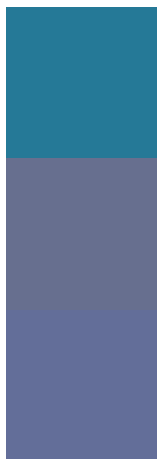


This preview shows how white text looks on a background with the XYZ color 13.1862, 16.3024,

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

13.1862, 16.3024, 31.7299

Protanopia

16.2359, 16.2356, 28.2647

Deuteranopia

16.4713, 16.1044, 32.3773



Tritanopia

11.7992, 16.2853, 25.0757

Trichromacy



Original Color

13.1862, 16.3024, 31.7299

Protanomaly

14.5435, 15.9991, 29.5157

Deuteranomaly

14.6653, 15.8381, 31.9899

Tritanomaly

12.2426, 16.2790, 27.3078

Monochromacy



Original Color

13.1862, 16.3024, 31.7299

Achromatopsia

11.8596, 12.4772, 13.5877

Achromatomaly

11.5082, 13.3599, 19.1117

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.1862, 16.3024, 31.7299 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(37, 121, 151)` looks like.

```
.text, #text, p{  
    color:rgb(37, 121, 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(37, 121, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 121, 151) }
```

Border

The CSS property to change the border of an element to XYZ 13.1862, 16.3024, 31.7299 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(37, 121, 151) }
```


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

```
.border{ border-color:rgb(37, 121, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(37, 121, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(37, 121, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(37, 121, 151);  
box-shadow:4px 4px 4px 4px rgb(37, 121,  
151) }
```

Background

The CSS property to change the background color of an element to XYZ 13.1862, 16.3024, 31.7299 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 121, 151) }
```

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

```
.background{ background-color: rgb(37, 121,  
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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