

Converting Colors

XYZ(13.0227, 8.6068, 58.1017)

Have a look what the booklet for
XYZ(13.0227, 8.6068, 58.1017)
contains.

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Color

**XYZ(13.0272, 8.6159,
58.1032)**

Conversions

Conversions Part 1

Format	Color
Hex	0045CC
RGB	0, 69, 204
RGB Percent	0%, 27%, 80%
CMY	0.9998, 0.7294, 0.2000
CMYK	1.00, 0.66, 0.00, 0.20
HSL	220°, 100%, 40%
HSV	220°, 100%, 80%
XYZ	13.0272, 8.6159, 58.1032
YIQ	63.7590, -84.4590, 27.3570

Conversions

Conversions Part 2

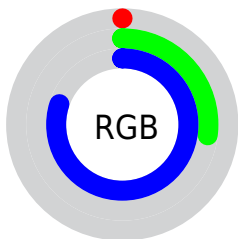
Format	Color
RYB	0, 52, 204
Decimal	17868
CIELab	35.23, 36.96, -73.89
CIELCh	35, 82.616, 296.574
Yxy	8.6159, 0.1634, 0.1080
Android (android.graphics.Color)	4278207948 (0xFF0045CC)
YUV	63.7590, 69.1388, -55.9166
Hunter-Lab	29.3529, 27.8533, -96.8160

Details

The XYZ color **13.0272, 8.6159, 58.1032** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark washed blue. A complement of this color would be **33.5725, 30.1781, 4.0568**, and the grayscale version is **4.7486, 4.9959, 5.4405**.

A 20% lighter version of the original color is **29.7781, 22.7093, 97.4216**, and **5.7372, 2.9220, 28.2786** is the 20% darker color. If you saturate the color by 10%, you get **13.0254, 8.6122, 58.1029**, and if you desaturate by 10%, it is **14.2520, 10.6236, 58.4264**.

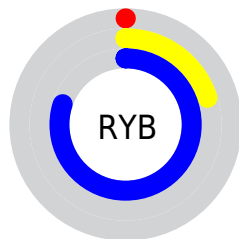
Distribution



Red (0%)

Green (27%)

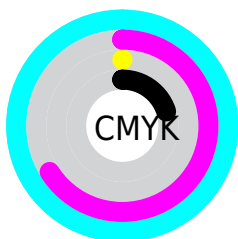
Blue (80%)



Red (0%)

Yellow (20%)

Blue (80%)

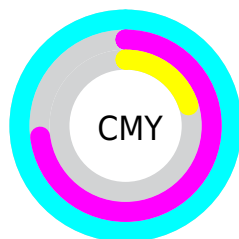


Cyan (100%)

Magenta (66%)

Yellow (0%)

Black (20%)



Cyan (100%)

Magenta (73%)

Yellow (20%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.0272, 8.6159, 58.1032 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 13.0272, 8.6159, 58.1032 by changing the saturation by 10% instead.

■ 13.0272, 8.6159,
58.1032

■ 13.0272, 8.6159,
58.1032

204.7260,
180.4861, 435.1794

■ 7.5244, 4.4915,
41.4764

■ 30.9535, 23.1573,
103.5894

■ 3.8414, 1.9521,
28.3690

■ 44.1078, 34.3431,
133.2858

■ 1.6128, 0.5794,
18.3625

■ 60.5433, 48.6515,
168.1759

■ 0.4007, 0.0000,
11.0385

■ 80.6253, 66.4669,
208.6781

■ 0.0000, 0.0000,
5.9782

■ 104.7192, 88.1736,
255.2110

■ 0.0000, 0.0000,
2.7633

133.1904,

■ 0.0000, 0.0000,

114.1561, 308.1932

0.9751

166.4042,
144.7988, 368.0431

■ 0.0000, 0.0000,
0.0000

■ 13.0272, 8.6159,
58.1032

■ 13.0272, 8.6159,
58.1032

■ 13.0254, 8.6122,
58.1029

■ 14.2520, 10.6236,
58.4264

■ 15.9907, 13.1945,
58.8310

■ 18.3617, 16.4055,
59.3259

■ 21.4323, 20.3062,
59.9169

■ 25.2604, 24.9405,
60.6097

■ 29.8973, 30.3479,
61.4090

■ 35.3896, 36.5649,
62.3195

■ 41.7802, 43.6255,
63.3456

■ 49.1088, 51.5615,
64.4911

Harmonies

Analogous

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



7.6521, 8.6159, 67.8190



13.0272, 8.6159, 58.1032



18.5040, 8.6159, 32.6335

Triad

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



13.0272, 8.6159, 58.1032



14.3669, 8.6159, 0.0000



2.0144, 8.6159, 7.8947

Complementary

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



13.0272, 8.6159, 58.1032



33.5725, 30.1781, 4.0568

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.



2.6643, 8.6159, 1.0690



13.0272, 8.6159, 58.1032



8.7507, 8.6159, 0.0000

Square

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



13.0272, 8.6159, 58.1032



19.4659, 8.6159, 1.8456



4.7273, 8.6159, 0.0000



2.4128, 8.6159, 26.7702

Rectangle

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



13.0272, 8.6159, 58.1032



20.7762, 8.6159, 16.9159



4.7273, 8.6159, 0.0000



2.1079, 8.6159, 4.5008

Sweetspot

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



13.0277, 8.6160, 58.1035



58.2045, 60.1031, 103.1411



25.8006, 44.8691, 29.3521



11.5941, 11.8926, 21.9344



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



13.0277, 8.6160, 58.1035



21.3948, 13.9095, 96.1649



11.4538, 4.6463, 57.4202



10.9066, 11.4536, 14.2063



8.2760, 5.5760, 36.5964



0.4970, 0.4277, 1.9113

Inverse Universe

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



25.9766, 13.2680, 6.8219



42.9283, 21.9353, 10.8204



38.9169, 52.1168, 8.0097



11.3662, 11.2752, 12.4631



16.3883, 8.3659, 4.4973



0.8808, 0.4457, 0.4181

Previews

White Background



This preview shows how the XYZ color 13.0272, 8.6159, 58.1032 looks on a white background.

Color Contrast Check

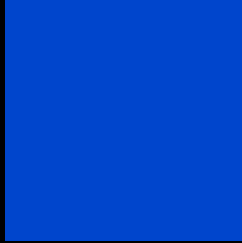
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the XYZ color 13.0272, 8.6159, 58.1032 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

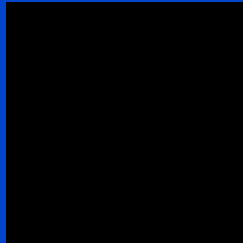
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 13.0272, 8.6159, 58.1032

Background



This preview shows how black text looks on a background with the XYZ color 13.0272, 8.6159, 58.1032.



This preview shows how white text looks on a background with the XYZ color 13.0272, 8.6159,

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

13.0272, 8.6159, 58.1032

Protanopia

9.9365, 8.5645, 38.1752

Deuteranopia

8.2825, 8.5106, 27.5917



Tritanopia

5.9848, 8.5174, 12.6378

Trichromacy



Original Color

13.0272, 8.6159, 58.1032

Protanomaly

10.9249, 8.5051, 44.7819

Deuteranomaly

9.6789, 8.3451, 37.1770

Tritanomaly

7.6143, 8.1182, 24.4582

Monochromacy



Original Color

13.0272, 8.6159, 58.1032

Achromatopsia

4.8732, 5.1269, 5.5832

Achromatomaly

5.9572, 5.6057, 16.9877

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.0272, 8.6159, 58.1032 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(0, 69, 204)` looks like.

```
.text, #text, p{  
    color:rgb(0, 69, 204)  
}
```

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(0, 69, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 69, 204) }
```

Border

The CSS property to change the border of an element to XYZ 13.0272, 8.6159, 58.1032 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(0, 69, 204) }
```


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

```
.border{ border-color:rgb(0, 69, 204) }
```

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

Here you see how a box with a 4 pixel rgb(0, 69, 204) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 69, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 69, 204);  
box-shadow:4px 4px 4px 4px rgb(0, 69, 204)  
}
```

Background

The CSS property to change the background color of an element to XYZ 13.0272, 8.6159, 58.1032 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 69, 204) }
```

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

```
.background{ background-color: rgb(0, 69,  
204) }
```

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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