

Converting Colors

XYZ(19.9418, 10.2491, 2.3440)

Have a look what the booklet for
XYZ(19.9418, 10.2491, 2.3440)
contains.

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Color

**XYZ(20.0417, 10.3002,
2.3707)**

Conversions

Conversions Part 1

Format	Color
Hex	B80021
RGB	184, 0, 33
RGB Percent	72%, 0%, 13%
CMY	0.2784, 0.9999, 0.8706
CMYK	0.00, 1.00, 0.82, 0.28
HSL	349°, 100%, 36%
HSV	349°, 100%, 72%
XYZ	20.0417, 10.3002, 2.3707
YIQ	58.7780, 99.0710, 49.2710

Conversions

Conversions Part 2

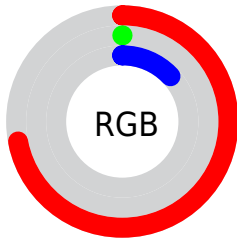
Format	Color
RYB	184, 0, 33
Decimal	12058657
CIELab	38.38, 63.22, 37.90
CIElCh	38, 73.715, 30.944
Yxy	10.3002, 0.6127, 0.3149
Android (android.graphics.Color)	4290248737 (0xFFB80021)
YUV	58.7780, -12.7086, 109.8197
Hunter-Lab	32.0939, 55.3036, 18.0861

Details

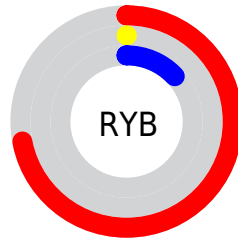
The XYZ color **20.0417, 10.3002, 2.3707** is a dark color, and the websafe version is hex **CC0033**. A complement of this color would be **22.7295, 36.5164, 35.1433**, and the grayscale version is **4.1367, 4.3521, 4.7395**.

A 20% lighter version of the original color is **43.0290, 26.3914, 10.0339**, and **7.8852, 4.0649, 0.3690** is the 20% darker color. If you saturate the color by 10%, you get **20.0411, 10.2999, 2.3685**, and if you desaturate by 10%, it is **20.5261, 10.8514, 3.8202**.

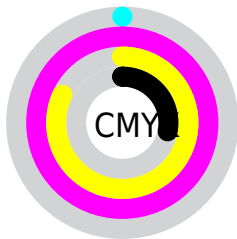
Distribution



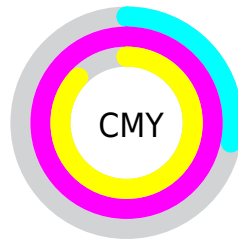
- Red (72%)
- Green (0%)
- Blue (13%)



- Red (72%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (82%)
- Black (28%)



- Cyan (28%)
- Magenta (100%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.0417, 10.3002, 2.3707 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 20.0417, 10.3002, 2.3707 by changing the saturation by 10% instead.

■ 20.0417, 10.3002,
2.3707

■ 20.0417, 10.3002,
2.3707

244.9700,
192.8014, 127.8908

■ 12.5338, 5.5985,
0.7704

■ 42.9905, 26.3586,
10.0315

■ 7.1831, 2.6025,
0.0000

■ 59.1621, 38.4841,
16.9419

■ 3.6242, 0.9279,
0.0000

■ 78.9523, 53.8529,
26.4635

■ 1.4918, 0.0000,
0.0000

■ 102.7265, 72.8495,
39.0151


■ 0.3203, 0.0000,
0.0000


■ 130.8500, 95.8583,
55.0150


■ 0.0000, 0.0000,
0.0000


■ 163.6882,


123.2636, 74.8819


 201.6064,
155.4498, 99.0343


 20.0417, 10.3002,
2.3707


 20.0417, 10.3002,
2.3707


 20.0411, 10.2999,
2.3685

 20.5261, 10.8514,
3.8202

 21.3265, 11.8644,
5.8990

 22.5307, 13.4996,
8.6842

 24.1856, 15.8370,
12.2340

 26.3315, 18.9445,
16.6003

■ 29.0040, 22.8820,
21.8302

■ 32.2354, 27.7034,
27.9675

■ 36.0554, 33.4583,
35.0525

■ 40.4916, 40.1922,
43.1235

Harmonies

Analogous

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



22.2348, 10.3002, 10.7849



20.0417, 10.3002, 2.3707



14.9963, 10.3002, 0.1208

Triad

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



20.0417, 10.3002, 2.3707



3.7319, 10.3002, 2.6488



9.9430, 10.3002, 63.9108

Complementary

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



20.0417, 10.3002, 2.3707



22.7295, 36.5164, 35.1433

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.



5.9542, 10.3002, 53.8765



20.0417, 10.3002, 2.3707



3.1540, 10.3002, 11.6568

Square

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



20.0417, 10.3002, 2.3707



5.7670, 10.3002, 0.2057



3.8125, 10.3002, 31.0592



15.3494, 10.3002, 52.6449

Rectangle

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



20.0417, 10.3002, 2.3707



11.3171, 10.3002, 0.0000



3.8125, 10.3002, 31.0592



8.4069, 10.3002, 62.8758

Sweetspot

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



20.0419, 10.3009, 2.3708



58.1045, 49.7235, 50.0769



21.2800, 9.9714, 46.1501



11.9755, 9.8957, 9.7561



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988

Same Dimension

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



20.0419, 10.3009, 2.3708



36.2686, 18.6469, 3.9685



21.2950, 13.2459, 1.4354



9.0686, 9.0378, 9.7085



13.8315, 7.1063, 1.7333



0.5078, 0.2586, 0.1675

Inverse Universe

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



20.0419, 10.3009, 2.3708



36.2686, 18.6469, 3.9685



16.0803, 18.3173, 48.0351



9.0686, 9.0378, 9.7085



13.8315, 7.1063, 1.7333



0.5078, 0.2586, 0.1675

Previews

White Background



This preview shows how the XYZ color 20.0417, 10.3002, 2.3707 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



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 20.0417, 10.3002, 2.3707

Background



This preview shows how black text looks on a background with the XYZ color 20.0417, 10.3002, 2.3707.



This preview shows how white text looks on a background with the XYZ color 20.0417, 10.3002,

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

20.0417, 10.3002, 2.3707

Protanopia

10.0137, 10.9014, 4.8252

Deuteranopia

10.9194, 10.7988, 1.9991



Tritanopia

19.7137, 10.4379, 0.9757

Trichromacy



Original Color

20.0417, 10.3002, 2.3707

Protanomaly

11.5533, 8.2229, 3.4609

Deuteranomaly

12.5435, 8.5490, 1.7481

Tritanomaly

19.7033, 10.3109, 1.2995

Monochromacy



Original Color

20.0417, 10.3002, 2.3707

Achromatopsia

4.1570, 4.3735, 4.7627

Achromatomaly

6.9778, 4.5596, 3.5299

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.0417, 10.3002, 2.3707 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(184, 0, 33)` looks like.

```
.text, #text, p{  
    color:rgb(184, 0, 33)  
}
```

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(184, 0, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(184, 0, 33) }
```

Border

The CSS property to change the border of an element to XYZ 20.0417, 10.3002, 2.3707 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(184, 0, 33) }
```


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

```
.border{ border-color:rgb(184, 0, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(184, 0, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(184, 0, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(184, 0, 33);  
box-shadow:4px 4px 4px 4px rgb(184, 0, 33)  
}
```

Background

The CSS property to change the background color of an element to XYZ 20.0417, 10.3002, 2.3707 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(184, 0, 33) }
```

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

```
.background{ background-color: rgb(184, 0,  
33) }
```

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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