

Converting Colors

XYZ(22.3103, 13.1539, 1.7969)

Have a look what the booklet for
XYZ(22.3103, 13.1539, 1.7969)
contains.

XYZ(22.2131, 13.1345, 1.8164)	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(22.2131, 13.1345,
1.8164)**

Conversions

Conversions Part 1

Format	Color
Hex	BD320F
RGB	189, 50, 15
RGB Percent	74%, 20%, 6%
CMY	0.2588, 0.8039, 0.9412
CMYK	0.00, 0.74, 0.92, 0.26
HSL	12°, 85%, 40%
HSV	12°, 92%, 74%
XYZ	22.2131, 13.1345, 1.8164
YIQ	87.5710, 94.0790, 18.5830

Conversions

Conversions Part 2

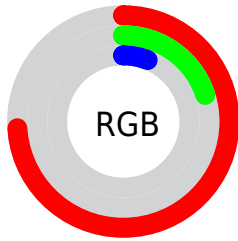
Format	Color
RYB	189, 59, 15
Decimal	12399119
CIELab	42.97, 53.82, 50.56
CIELCh	43, 73.847, 43.210
Yxy	13.1345, 0.5977, 0.3534
Android (android.graphics.Color)	4290589199 (0xFFBD320F)
YUV	87.5710, -35.7775, 88.9532
Hunter-Lab	36.2416, 45.9832, 22.3975

Details

The XYZ color **22.2131, 13.1345, 1.8164** is a dark color, and the websafe version is hex **CC3300**. A complement of this color would be **20.9364, 26.8840, 52.2294**, and the grayscale version is **9.2443, 9.7257, 10.5913**.

A 20% lighter version of the original color is **46.5875, 31.5609, 8.4869**, and **8.7524, 4.5120, 0.4096** is the 20% darker color. If you saturate the color by 10%, you get **21.6801, 12.2067, 1.2135**, and if you desaturate by 10%, it is **23.1699, 14.7266, 3.1273**.

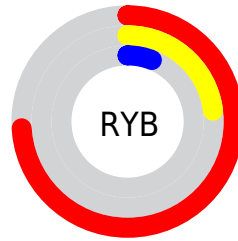
Distribution



Red (74%)

Green (20%)

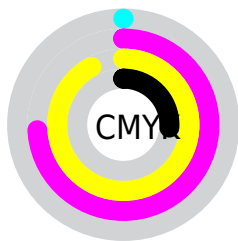
Blue (6%)



Red (74%)

Yellow (23%)

Blue (6%)

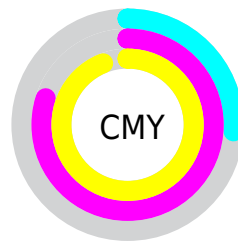


Cyan (0%)

Magenta (74%)

Yellow (92%)

Black (26%)



Cyan (26%)


Magenta (80%)


Yellow (94%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 22.2131, 13.1345, 1.8164 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 22.2131, 13.1345, 1.8164 by changing the saturation by 10% instead.


 22.2131, 13.1345,
1.8164


 22.2131, 13.1345,
1.8164


256.2686,
211.7779, 119.4574


 14.1310, 7.5212,
0.4387


 46.5742, 31.5452,
8.5325


 8.2942, 3.7902,
0.0000


 63.5839, 45.1114,
14.7977


 4.3371, 1.5569,
0.0000

 84.3003, 62.0974,
23.5591

 1.8946, 0.3283,
0.0000

 109.0886, 82.8876,
35.2352


 0.5737, 0.0000,
0.0000


 138.3142,
107.8663, 50.2445


 0.0000, 0.0000,
0.0000


 172.3425,


137.4180, 69.0056


 211.5389,
171.9271, 91.9371


 22.2131, 13.1345,
1.8164


 22.2131, 13.1345,
1.8164


 21.6801, 12.2067,
1.2135

 23.1699, 14.7266,
3.1273

 24.5078, 16.8413,
5.3033

 26.2656, 19.5216,
8.4637

 28.4764, 22.8054,
12.7087

 31.1701, 26.7269,
18.1259

■ 34.3740, 31.3180,
24.7942

■ 38.1129, 36.6082,
32.7852

■ 42.4105, 42.6252,
42.1655

■ 47.2886, 49.3954,
52.9969

Harmonies

Analogous

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



26.3568, 13.1345, 8.2962



22.2131, 13.1345, 1.8164



15.8984, 13.1345, 0.2363

Triad

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



22.2131, 13.1345, 1.8164



4.6953, 13.1345, 7.0558



15.1395, 13.1345, 71.1530

Complementary

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



22.2131, 13.1345, 1.8164



20.9364, 26.8840, 52.2294

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.



9.5971, 13.1345, 69.6947



22.2131, 13.1345, 1.8164



4.6043, 13.1345, 22.6707

Square

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



22.2131, 13.1345, 1.8164



6.4174, 13.1345, 1.4903



6.1139, 13.1345, 48.0098



21.5148, 13.1345, 51.1625

Rectangle

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



22.2131, 13.1345, 1.8164



11.8844, 13.1345, 0.0243



6.1139, 13.1345, 48.0098



13.1033, 13.1345, 73.4379

Sweetspot

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



22.2134, 13.1353, 1.8166



63.8719, 59.3685, 49.3001



27.0064, 13.5002, 31.8416



13.1454, 11.9286, 9.3518



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

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



22.2134, 13.1353, 1.8166



38.6954, 21.5944, 2.1287



29.9896, 28.6878, 4.4087



9.6815, 9.8390, 9.9655



14.6316, 8.3020, 0.8313



0.6199, 0.4188, 0.0482

Inverse Universe

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



20.9364, 26.8840, 52.2294



36.0887, 45.8559, 93.1752



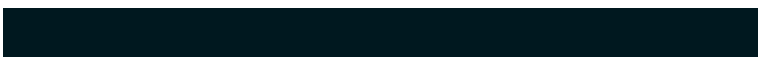
11.4014, 7.8139, 49.0511



9.6411, 10.4746, 12.1859



13.6782, 17.4681, 35.0437



0.5779, 0.7685, 1.3867

Previews

White Background



This preview shows how the XYZ color 22.2131, 13.1345, 1.8164 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 22.2131, 13.1345, 1.8164

Background



This preview shows how black text looks on a background with the XYZ color 22.2131, 13.1345, 1.8164.



This preview shows how white text looks on a background with the XYZ color 22.2131, 13.1345,

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

22.2131, 13.1345, 1.8164

Protanopia

12.1301, 13.4292, 3.0514

Deuteranopia

13.3280, 13.2165, 1.8486



Tritanopia

22.7852, 13.1936, 4.1420

Trichromacy



Original Color

22.2131, 13.1345, 1.8164

Protanomaly

14.4803, 12.1533, 2.3932

Deuteranomaly

15.6586, 12.3276, 1.6977

Tritanomaly

22.6106, 13.1884, 3.0230

Monochromacy



Original Color

22.2131, 13.1345, 1.8164

Achromatopsia

9.2757, 9.7587, 10.6273

Achromatomaly

11.7485, 9.5945, 5.6476

CSS Examples

Text

The CSS property to change the color of the text to XYZ 22.2131, 13.1345, 1.8164 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(189, 50, 15)` looks like.

```
.text, #text, p{  
    color:rgb(189, 50, 15)  
}
```

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(189, 50, 15) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 50, 15) }
```

Border

The CSS property to change the border of an element to XYZ 22.2131, 13.1345, 1.8164 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(189, 50, 15) }
```


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

```
.border{ border-color:rgb(189, 50, 15) }
```

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

Here you see how a box with a 4 pixel rgb(189, 50, 15) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 50, 15); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 50, 15);  
box-shadow:4px 4px 4px 4px rgb(189, 50,  
15) }
```

Background

The CSS property to change the background color of an element to XYZ 22.2131, 13.1345, 1.8164 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 50, 15) }
```

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

```
.background{ background-color: rgb(189, 50,  
15) }
```

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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