

Converting Colors

XYZ(11.6887, 19.7405, 0.6153)

Have a look what the booklet for
XYZ(11.6887, 19.7405, 0.6153)
contains.

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Color

**XYZ(12.2131, 20.0017,
3.2170)**

Conversions

Conversions Part 1

Format	Color
Hex	4C8B00
RGB	76, 139, 0
RGB Percent	30%, 55%, 0%
CMY	0.7020, 0.4549, 1.0000
CMYK	0.45, 0.00, 1.00, 0.45
HSL	87°, 100%, 27%
HSV	87°, 100%, 55%
XYZ	12.2131, 20.0017, 3.2170
YIQ	104.3170, 7.0710, -56.5850

Conversions

Conversions Part 2

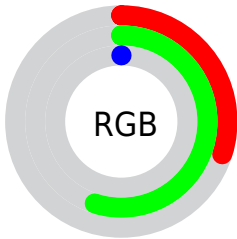
Format	Color
RYB	0, 139, 63
Decimal	5016320
CIELab	51.84, -40.10, 55.13
CIELCh	52, 68.176, 126.030
Yxy	20.0017, 0.3447, 0.5645
Android (android.graphics.Color)	4283206400 (0xFF4C8B00)
YUV	104.3170, -51.4283, -24.8340
Hunter-Lab	44.7233, -29.5206, 27.0415

Details

The XYZ color **12.2131, 20.0017, 3.2170** is a dark color, and the websafe version is hex **669900**. A complement of this color would be **6.7112, 2.9215, 24.6374**, and the grayscale version is **13.3764, 14.0730, 15.3255**.

A 20% lighter version of the original color is **29.4432, 43.3705, 12.1297**, and **3.7034, 7.0896, 1.1732** is the 20% darker color. If you saturate the color by 10%, you get **12.2132, 20.0024, 3.2171**, and if you desaturate by 10%, it is **12.8176, 20.3049, 3.6559**.

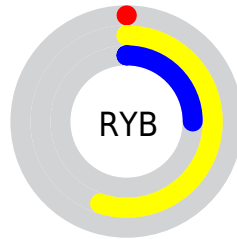
Distribution



Red (30%)

Green (55%)

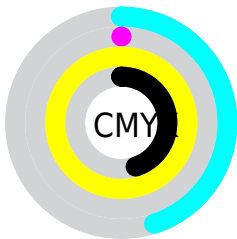
Blue (0%)



Red (0%)

Yellow (55%)

Blue (25%)

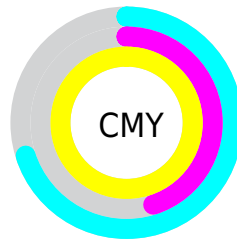


Cyan (45%)

Magenta (0%)

Yellow (100%)

Black (45%)



Cyan (70%)

Magenta (45%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2131, 20.0017, 3.2170 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 12.2131, 20.0017, 3.2170 by changing the saturation by 10% instead.

■ 12.2131, 20.0017,
3.2170

■ 12.2131, 20.0017,
3.2170

199.5522,
251.9243, 139.0782

■ 6.9622, 12.3963,
1.2065

■ 29.4961, 43.4200,
12.1594

■ 3.4846, 7.0142,
0.0000

■ 42.2590, 60.0017,
19.9283

■ 1.4149, 3.4710,
0.0000

■ 58.2565, 80.3443,
30.4537

■ 0.2668, 1.3823,
0.0000

■ 77.8541, 104.8322,
44.1543


■ 0.0000, 0.2036,
0.0000


■ 101.4172,
133.8497, 61.4485


■ 0.0000, 0.0000,
0.0000


■ 129.3109,


167.7813, 82.7548


 161.9009,
207.0114, 108.4919


 12.2131, 20.0017,
3.2170


 12.2131, 20.0017,
3.2170


 12.2132, 20.0024,
3.2171

 12.8176, 20.3049,
3.6559

 13.5220, 20.6532,
4.3605

 14.3549, 21.0588,
5.4716

 15.3269, 21.5262,
7.0388

 16.4473, 22.0592,
9.1047

■ 17.7243, 22.6613,
11.7070

■ 19.1656, 23.3355,
14.8797

■ 20.7781, 24.0849,
18.6539

■ 22.5684, 24.9123,
23.0587

Harmonies

Analogous

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



17.6482, 20.0017, 1.6175



12.2131, 20.0017, 3.2170



9.2653, 20.0017, 9.6813

Triad

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



12.2131, 20.0017, 3.2170



14.1043, 20.0017, 78.4009



35.5379, 20.0017, 18.0181

Complementary

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



12.2131, 20.0017, 3.2170



6.7112, 2.9215, 24.6374

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.



33.9340, 20.0017, 41.2031



12.2131, 20.0017, 3.2170



20.4423, 20.0017, 85.8447

Square

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



12.2131, 20.0017, 3.2170



10.1575, 20.0017, 52.7364



27.9542, 20.0017, 69.3752



31.9199, 20.0017, 6.1804

Rectangle

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



12.2131, 20.0017, 3.2170



8.5918, 20.0017, 19.2465



27.9542, 20.0017, 69.3752



35.6011, 20.0017, 24.5233

Sweetspot

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



12.2136, 20.0026, 3.2174



34.1412, 41.7044, 26.2386



12.4010, 8.9953, 1.0829



7.6389, 9.5032, 5.5357



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021

Same Dimension

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



12.2136, 20.0026, 3.2174



21.6778, 35.7198, 5.7521



9.3202, 18.5110, 3.0820



5.2160, 5.7341, 5.3843



11.0424, 18.0626, 2.9044



0.0903, 0.1287, 0.0201

Inverse Universe

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



6.7112, 2.9215, 24.6374



11.8311, 5.1351, 44.1106



14.1845, 6.7742, 24.9871



4.9759, 4.9960, 6.3079



6.0759, 2.6464, 22.2362



0.0569, 0.0261, 0.1485

Previews

White Background



This preview shows how the XYZ color 12.2131, 20.0017, 3.2170 looks on a white 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

Black 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

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

XYZ 12.2131, 20.0017, 3.2170

Background



This preview shows how black text looks on a background with the XYZ color 12.2131, 20.0017, 3.2170.



This preview shows how white text looks on a background with the XYZ color 12.2131, 20.0017,

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

12.2131, 20.0017, 3.2170

Protanopia

17.7304, 19.6549, 2.8593

Deuteranopia

20.0885, 19.7750, 3.8568



Tritanopia

17.0981, 19.9211, 27.7549

Trichromacy



Original Color

12.2131, 20.0017, 3.2170

Protanomaly

15.0527, 19.4135, 2.9538

Deuteranomaly

16.0470, 19.1465, 3.4221

Tritanomaly

14.1212, 19.5226, 12.4752

Monochromacy



Original Color

12.2131, 20.0017, 3.2170

Achromatopsia

13.1579, 13.8432, 15.0752

Achromatomaly

11.9608, 15.4956, 7.5148

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2131, 20.0017, 3.2170 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(76, 139, 0)` looks like.

```
.text, #text, p{  
    color:rgb(76, 139, 0)  
}
```

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(76, 139, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 139, 0) }
```

Border

The CSS property to change the border of an element to XYZ 12.2131, 20.0017, 3.2170 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(76, 139, 0) }
```


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

```
.border{ border-color:rgb(76, 139, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 139, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 139, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 139, 0);  
box-shadow:4px 4px 4px 4px rgb(76, 139, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.2131, 20.0017, 3.2170 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 139, 0) }
```

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

```
.background{ background-color: rgb(76, 139,  
0) }
```

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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