

Converting Colors

XYZ(13.0020, 23.3358, 10.7957)

Have a look what the booklet for
XYZ(13.0020, 23.3358, 10.7957)
contains.

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Color

**XYZ(12.9211, 23.1745,
10.8133)**

Conversions

Conversions Part 1

Format	Color
Hex	17984D
RGB	23, 152, 77
RGB Percent	9%, 60%, 30%
CMY	0.9098, 0.4039, 0.6980
CMYK	0.85, 0.00, 0.49, 0.40
HSL	145°, 74%, 34%
HSV	145°, 85%, 60%
XYZ	12.9211, 23.1745, 10.8133
YIQ	104.8790, -52.8090, -50.6730

Conversions

Conversions Part 2

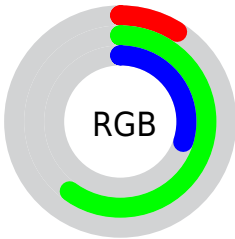
Format	Color
R_{YB}	23, 114, 152
Decimal	1546317
CIE _{Lab}	55.25, -50.03, 30.23
CIE _{LCh}	55, 58.450, 148.856
Yxy	23.1745, 0.2755, 0.4940
Android (android.graphics.Color)	4279736397 (0xFF17984D)
YUV	104.8790, -13.7443, -71.8079
Hunter-Lab	48.1399, -36.3341, 20.3801

Details

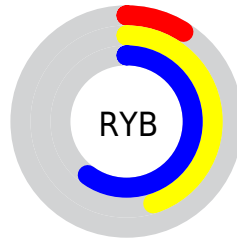
The XYZ color **12.9211, 23.1745, 10.8133** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **15.4604, 8.1703, 12.3174**, and the grayscale version is **13.4411, 14.1411, 15.3996**.

A 20% lighter version of the original color is **30.6578, 48.4851, 27.8214**, and **4.7915, 9.2081, 2.7531** is the 20% darker color. If you saturate the color by 10%, you get **12.3748, 22.9271, 9.2684**, and if you desaturate by 10%, it is **13.7087, 23.5426, 12.5918**.

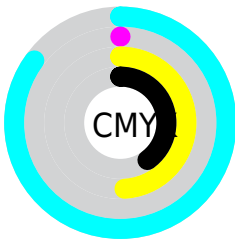
Distribution



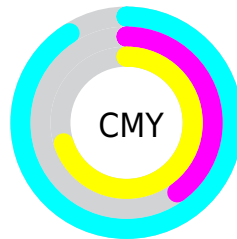
- Red (9%)
- Green (60%)
- Blue (30%)



- Red (9%)
- Yellow (45%)
- Blue (60%)



- Cyan (85%)
- Magenta (0%)
- Yellow (49%)
- Black (40%)



- Cyan (91%)
- Magenta (40%)
- Yellow (70%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9211, 23.1745, 10.8133 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 12.9211, 23.1745, 10.8133 by changing the saturation by 10% instead.

■ 12.9211, 23.1745,
10.8133

■ 12.9211, 23.1745,
10.8133

204.0592,
268.6200, 207.0734

■ 7.4509, 14.7224,
5.8288

■ 30.7645, 48.6797,
27.9458

■ 3.7945, 8.6248,
2.6742

■ 43.8683, 66.5016,
40.9308

■ 1.5865, 4.4973,
0.9304

■ 60.2475, 88.2155,
57.4199

■ 0.3836, 1.9554,
0.0000

■ 80.2672, 114.2060,
77.8314

■ 0.0000, 0.5814,
0.0000

■ 104.2929,
144.8572, 102.5840

■ 0.0000, 0.0000,
0.0000

■ 132.6898,

180.5537, 132.0962

165.8235,
221.6798, 166.7865

■ 12.9211, 23.1745,
10.8133

■ 12.9211, 23.1745,
10.8133

■ 12.3748, 22.9271,
9.2684

■ 13.7087, 23.5426,
12.5918

■ 12.1437, 22.8234,
8.5609

■ 14.7689, 24.0456,
14.6124

■ 16.1287, 24.6977,
16.8846

■ 17.8112, 25.5107,
19.4172

■ 19.8371, 26.4952,
22.2183

■ 22.2253, 27.6607,
25.2957

■ 24.9932, 29.0161,
28.6569

■ 28.1572, 30.5697,
32.3091

■ 31.7327, 32.3292,
36.2591

Harmonies

Analogous

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



16.4976, 23.1745, 5.0074



12.9211, 23.1745, 10.8133



11.6937, 23.1745, 24.5211

Triad

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



12.9211, 23.1745, 10.8133



21.7766, 23.1745, 81.0894



34.9793, 23.1745, 11.5365

Complementary

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



12.9211, 23.1745, 10.8133



15.4604, 8.1703, 12.3174

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.



37.1446, 23.1745, 25.9587



12.9211, 23.1745, 10.8133



28.6707, 23.1745, 71.7494

Square

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



12.9211, 23.1745, 10.8133



16.1417, 23.1745, 70.3164



34.6388, 23.1745, 48.8204



29.1921, 23.1745, 5.2559

Rectangle

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



12.9211, 23.1745, 10.8133



12.1402, 23.1745, 38.7556



34.6388, 23.1745, 48.8204



36.2000, 23.1745, 15.2907

Sweetspot

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



12.9217, 23.1754, 10.8138



38.9490, 48.6854, 44.2981



16.4475, 25.1300, 4.7943



8.5297, 10.9078, 9.6593



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.



12.9217, 23.1754, 10.8138



21.3494, 40.2501, 14.6654



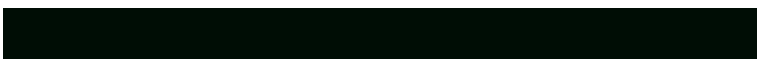
16.4086, 24.5702, 29.1757



6.2341, 6.9663, 7.1559



10.1966, 19.1421, 7.2558



0.1700, 0.2932, 0.2009

Inverse Universe

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



15.4604, 8.1703, 12.3174



25.9022, 13.0012, 17.1101



13.5410, 7.4025, 2.2096



6.3518, 6.2799, 7.2325



12.3629, 6.1994, 8.4360



0.2029, 0.0999, 0.2215

Previews

White Background



This preview shows how the XYZ color 12.9211, 23.1745, 10.8133 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



This preview shows how the XYZ color 12.9211, 23.1745, 10.8133 looks on a 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 12.9211, 23.1745, 10.8133

Background



This preview shows how black text looks on a background with the XYZ color 12.9211, 23.1745, 10.8133.



This preview shows how white text looks on a background with the XYZ color 12.9211, 23.1745,

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

12.9211, 23.1745, 10.8133

Protanopia

20.8988, 22.6945, 9.0733

Deuteranopia

23.1616, 22.8309, 11.5736



Tritanopia

17.6633, 23.0036, 34.5195

Trichromacy



Original Color

12.9211, 23.1745, 10.8133



Protanomaly

15.8020, 21.7130, 9.6615



Deuteranomaly

16.4559, 21.1732, 11.0041



Tritanomaly

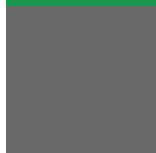
15.2819, 22.6944, 23.6537

Monochromacy



Original Color

12.9211, 23.1745, 10.8133



Achromatopsia

13.4271, 14.1263, 15.3836



Achromatomaly

11.9267, 16.2411, 13.3327

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9211, 23.1745, 10.8133 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(23, 152, 77)` looks like.

```
.text, #text, p{  
    color:rgb(23, 152, 77)  
}
```

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(23, 152, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(23, 152, 77) }
```

Border

The CSS property to change the border of an element to XYZ 12.9211, 23.1745, 10.8133 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(23, 152, 77) }
```


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

```
.border{ border-color:rgb(23, 152, 77) }
```

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

Here you see how a box with a 4 pixel rgb(23, 152, 77) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(23, 152, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(23, 152, 77);  
box-shadow:4px 4px 4px 4px rgb(23, 152,  
77) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9211, 23.1745, 10.8133 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(23, 152, 77) }
```

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

```
.background{ background-color: rgb(23, 152,  
77) }
```

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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