

Converting Colors

XYZ(12.0368, 20.9828, 12.2996)

Have a look what the booklet for
XYZ(12.0368, 20.9828, 12.2996)
contains.

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Color

**XYZ(12.0546, 21.0513,
12.2321)**

Conversions

Conversions Part 1

Format	Color
Hex	129156
RGB	18, 145, 86
RGB Percent	7%, 57%, 34%
CMY	0.9294, 0.4314, 0.6627
CMYK	0.88, 0.00, 0.41, 0.43
HSL	152°, 78%, 32%
HSV	152°, 88%, 57%
XYZ	12.0546, 21.0513, 12.2321
YIQ	100.3010, -56.7530, -45.2730

Conversions

Conversions Part 2

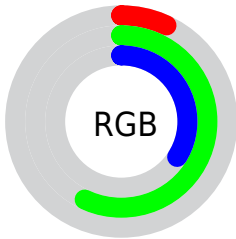
Format	Color
RYB	18, 101, 145
Decimal	1216854
CIELab	53.01, -46.23, 22.47
CIElCh	53, 51.398, 154.074
Yxy	21.0513, 0.2659, 0.4643
Android (android.graphics.Color)	4279406934 (0xFF129156)
YUV	100.3010, -7.0504, -72.1780
Hunter-Lab	45.8817, -33.3953, 16.3104

Details

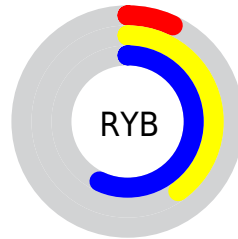
The XYZ color **12.0546, 21.0513, 12.2321** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **13.2337, 6.9887, 7.6739**, and the grayscale version is **12.2186, 12.8550, 13.9991**.

A 20% lighter version of the original color is **29.2180, 45.2100, 30.4790**, and **4.2974, 7.9819, 3.3217** is the 20% darker color. If you saturate the color by 10%, you get **11.5906, 20.8426, 10.8600**, and if you desaturate by 10%, it is **12.7015, 21.3525, 13.7473**.

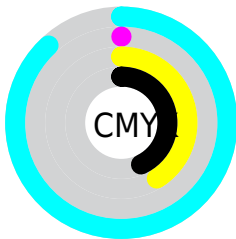
Distribution



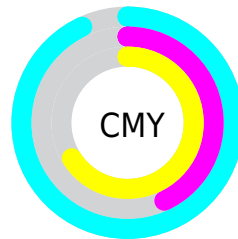
- Red (7%)
- Green (57%)
- Blue (34%)



- Red (7%)
- Yellow (40%)
- Blue (57%)



- Cyan (88%)
- Magenta (0%)
- Yellow (41%)
- Black (43%)



- Cyan (93%)
- Magenta (43%)
- Yellow (66%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.0546, 21.0513, 12.2321 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 12.0546, 21.0513, 12.2321 by changing the saturation by 10% instead.

■ 12.0546, 21.0513,
12.2321

■ 12.0546, 21.0513,
12.2321

198.5290,
257.5510, 216.9680

■ 6.8533, 13.1615,
6.7775

■ 29.2105, 45.1729,
30.5878

■ 3.4161, 7.5399,
3.2470

■ 41.8959, 62.1735,
44.3260

■ 1.3774, 3.8020,
1.2221

■ 57.8066, 82.9798,
61.6625

■ 0.2400, 1.5634,
0.0000

■ 77.3081, 107.9762,
83.0158

■ 0.0000, 0.3327,
0.0000

■ 100.7658,
137.5472, 108.8045

■ 0.0000, 0.0000,
0.0000

■ 128.5449,

172.0770, 139.4470

161.0108,
211.9502, 175.3620

■ 12.0546, 21.0513,
12.2321

■ 12.0546, 21.0513,
12.2321

■ 11.5906, 20.8426,
10.8600

■ 12.7015, 21.3525,
13.7473

■ 11.4879, 20.7964,
10.5482

■ 13.5733, 21.7660,
15.4097

■ 14.6941, 22.3048,
17.2242

■ 16.0846, 22.9794,
19.1952

■ 17.7628, 23.7992,
21.3267

■ 19.7455, 24.7725,
23.6224

■ 22.0480, 25.9074,
26.0862

■ 24.6844, 27.2109,
28.7214

■ 27.6682, 28.6900,
31.5317

Harmonies

Analogous

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



14.7417, 21.0513, 6.0698



12.0546, 21.0513, 12.2321



11.3431, 21.0513, 25.0973

Triad

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



12.0546, 21.0513, 12.2321



20.7547, 21.0513, 67.1552



29.8888, 21.0513, 9.9812

Complementary

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



12.0546, 21.0513, 12.2321



13.2337, 6.9887, 7.6739

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.



32.2408, 21.0513, 20.8748



12.0546, 21.0513, 12.2321



26.4008, 21.0513, 57.3827

Square

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



12.0546, 21.0513, 12.2321



15.8076, 21.0513, 61.3626



30.8622, 21.0513, 38.5166



24.8949, 21.0513, 5.2404

Rectangle

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



12.0546, 21.0513, 12.2321



11.9538, 21.0513, 37.3000



30.8622, 21.0513, 38.5166



31.0517, 21.0513, 12.8135

Sweetspot

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



12.0551, 21.0521, 12.2326



35.7618, 44.5601, 42.7476



13.3175, 21.8843, 4.0947



7.6969, 9.7856, 9.2209



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



12.0551, 21.0521, 12.2326



20.4837, 37.2065, 18.4223



14.8515, 21.1549, 30.0896



5.4560, 6.0746, 6.3671



9.8664, 17.8424, 9.1168



0.1055, 0.1750, 0.1458

Inverse Universe

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



13.2337, 6.9887, 7.6739



22.6596, 11.4796, 10.1819



12.0782, 6.6467, 1.2189



5.5066, 5.4632, 6.1657



10.9071, 5.5199, 5.1623



0.1152, 0.0572, 0.1070

Previews

White Background



This preview shows how the XYZ color 12.0546, 21.0513, 12.2321 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 12.0546, 21.0513, 12.2321 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 12.0546, 21.0513, 12.2321

Background



This preview shows how black text looks on a background with the XYZ color 12.0546, 21.0513, 12.2321.



This preview shows how white text looks on a background with the XYZ color 12.0546, 21.0513,

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

12.0546, 21.0513, 12.2321

Protanopia

19.1525, 20.7901, 10.2112

Deuteranopia

21.0427, 20.5952, 12.9914



Tritanopia

16.0888, 21.1591, 31.6699

Trichromacy



Original Color

12.0546, 21.0513, 12.2321



Protanomaly

14.4888, 19.7488, 10.8328



Deuteranomaly

15.0625, 19.2054, 12.5860



Tritanomaly

14.2456, 21.0484, 23.0506

Monochromacy



Original Color

12.0546, 21.0513, 12.2321



Achromatopsia

12.1130, 12.7438, 13.8780



Achromatomaly

10.8367, 14.6191, 13.0771

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0546, 21.0513, 12.2321 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(18, 145, 86)` looks like.

```
.text, #text, p{  
    color:rgb(18, 145, 86)  
}
```

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(18, 145, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 145, 86) }
```

Border

The CSS property to change the border of an element to XYZ 12.0546, 21.0513, 12.2321 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(18, 145, 86) }
```


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

```
.border{ border-color:rgb(18, 145, 86) }
```

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

Here you see how a box with a 4 pixel rgb(18, 145, 86) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 145, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 145, 86);  
box-shadow:4px 4px 4px 4px rgb(18, 145,  
86) }
```

Background

The CSS property to change the background color of an element to XYZ 12.0546, 21.0513, 12.2321 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 145, 86) }
```

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

```
.background{ background-color: rgb(18, 145,  
86) }
```

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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