

Converting Colors

XYZ(12.2401, 21.8148, 12.2969)

Have a look what the booklet for
XYZ(12.2401, 21.8148, 12.2969)
contains.

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Color

**XYZ(12.2696, 21.8517,
12.3752)**

Conversions

Conversions Part 1

Format	Color
Hex	009456
RGB	0, 148, 86
RGB Percent	0%, 58%, 34%
CMY	1.0000, 0.4196, 0.6627
CMYK	1.00, 0.00, 0.42, 0.42
HSL	155°, 100%, 29%
HSV	155°, 100%, 58%
XYZ	12.2696, 21.8517, 12.3752
YIQ	96.6800, -68.3060, -50.6580

Conversions

Conversions Part 2

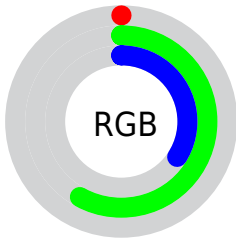
Format	Color
RYB	0, 94, 148
Decimal	37974
CIELab	53.87, -48.46, 23.59
CIELCh	54, 53.898, 154.049
Yxy	21.8517, 0.2639, 0.4700
Android (android.graphics.Color)	4278228054 (0xFF009456)
YUV	96.6800, -5.2652, -84.7884
Hunter-Lab	46.7458, -34.9534, 17.0260

Details

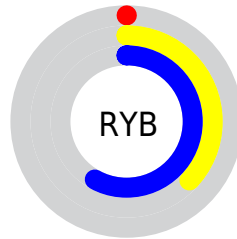
The XYZ color **12.2696, 21.8517, 12.3752** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **13.0829, 6.6441, 5.1512**, and the grayscale version is **11.3090, 11.8979, 12.9568**.

A 20% lighter version of the original color is **29.5462, 46.4207, 30.6954**, and **4.5491, 8.5122, 3.3227** is the 20% darker color. If you saturate the color by 10%, you get **12.2700, 21.8525, 12.3752**, and if you desaturate by 10%, it is **12.7248, 22.0568, 13.7583**.

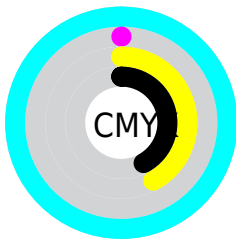
Distribution



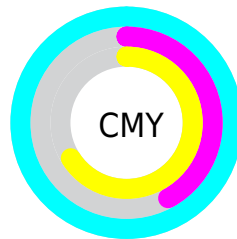
- Red (0%)
- Green (58%)
- Blue (34%)



- Red (0%)
- Yellow (37%)
- Blue (58%)



- Cyan (100%)
- Magenta (0%)
- Yellow (42%)
- Black (42%)



- Cyan (100%)
- Magenta (42%)
- Yellow (66%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2696, 21.8517, 12.3752 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 12.2696, 21.8517, 12.3752 by changing the saturation by 10% instead.

■ 12.2696, 21.8517,
12.3752

■ 12.2696, 21.8517,
12.3752

199.9157,
261.7708, 217.9390

■ 7.0011, 13.7480,
6.8741

■ 29.5978, 46.5008,
30.8512

■ 3.5091, 7.9456,
3.3062

■ 42.3882, 63.8149,
44.6632

■ 1.4284, 4.0601,
1.2531

■ 58.4165, 84.9679,
62.0825

■ 0.2763, 1.7073,
0.0228

■ 78.0483, 110.3443,
83.5278

■ 0.0000, 0.4284,
0.0000

■ 101.6487,
140.3284, 109.4176

■ 0.0000, 0.0000,
0.0000

■ 129.5832,

175.3046, 140.1703

162.2170,
215.6573, 176.2046

■ 12.2696, 21.8517,
12.3752

■ 12.2696, 21.8517,
12.3752

■ 12.2700, 21.8525,
12.3752

■ 12.7248, 22.0568,
13.7583

■ 13.3380, 22.3402,
15.2642

■ 14.1760, 22.7369,
16.8993

■ 15.2646, 23.2601,
18.6672

■ 16.6259, 23.9212,
20.5716

■ 18.2795, 24.7301,
22.6157

■ 20.2431, 25.6960,
24.8028

■ 22.5328, 26.8271,
27.1359

■ 25.1638, 28.1312,
29.6179

Harmonies

Analogous

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



15.1306, 21.8517, 5.9291



12.2696, 21.8517, 12.3752



11.5137, 21.8517, 26.1198

Triad

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



12.2696, 21.8517, 12.3752



21.5668, 21.8517, 71.9817



31.4465, 21.8517, 10.0171

Complementary

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



12.2696, 21.8517, 12.3752



13.0829, 6.6441, 5.1512

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.



33.9966, 21.8517, 21.6082



12.2696, 21.8517, 12.3752



27.6595, 21.8517, 61.2752

Square

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



12.2696, 21.8517, 12.3752



16.2618, 21.8517, 65.6105



32.4962, 21.8517, 40.6828



26.0413, 21.8517, 5.0802

Rectangle

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



12.2696, 21.8517, 12.3752



12.1598, 21.8517, 39.3245



32.4962, 21.8517, 40.6828



32.7075, 21.8517, 13.0070

Sweetspot

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



12.2702, 21.8526, 12.3757



35.4918, 45.2267, 43.5219



12.7136, 22.2752, 3.6296



7.7870, 10.1691, 9.5922



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



12.2702, 21.8526, 12.3757



21.5617, 38.5213, 21.3751



14.4536, 20.3543, 31.1850



5.8624, 6.5215, 6.8862



10.4939, 18.6704, 10.6426



0.1432, 0.2344, 0.2079

Inverse Universe

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



13.0829, 6.6441, 5.1512



23.0012, 11.6898, 8.6569



12.3204, 6.5105, 0.6074



5.8956, 5.8533, 6.5562



11.1874, 5.6800, 4.4681



0.1511, 0.0752, 0.1293

Previews

White Background



This preview shows how the XYZ color 12.2696, 21.8517, 12.3752 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 12.2696, 21.8517, 12.3752 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 12.2696, 21.8517, 12.3752

Background



This preview shows how black text looks on a background with the XYZ color 12.2696, 21.8517, 12.3752.



This preview shows how white text looks on a background with the XYZ color 12.2696, 21.8517,

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

12.2696, 21.8517, 12.3752

Protanopia

19.9095, 21.5639, 10.3206

Deuteranopia

21.9636, 21.6140, 13.1395



Tritanopia

16.5669, 21.8074, 33.0419

Trichromacy



Original Color

12.2696, 21.8517, 12.3752

Protanomaly

14.2690, 20.0459, 10.9018

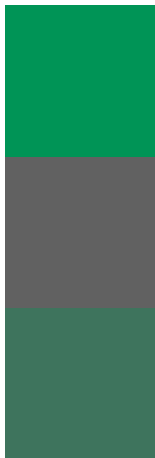
Deuteranomaly

15.0265, 19.7821, 12.6992

Tritanomaly

14.3784, 21.5435, 23.8226

Monochromacy



Original Color

12.2696, 21.8517, 12.3752

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

10.2078, 14.3052, 12.5791

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2696, 21.8517, 12.3752 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(0, 148, 86)` looks like.

```
.text, #text, p{  
    color:rgb(0, 148, 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(0, 148, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 148, 86) }
```

Border

The CSS property to change the border of an element to XYZ 12.2696, 21.8517, 12.3752 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(0, 148, 86) }
```


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

```
.border{ border-color:rgb(0, 148, 86) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 148, 86)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 148, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 148, 86);  
box-shadow:4px 4px 4px 4px rgb(0, 148, 86)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.2696, 21.8517, 12.3752 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 148, 86) }
```

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

```
.background{ background-color: rgb(0, 148,  
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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