

Converting Colors

XYZ(12.4645, 21.5803, 14.4784)

Have a look what the booklet for
XYZ(12.4645, 21.5803, 14.4784)
contains.

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Color

**XYZ(12.5450, 21.7120,
14.5960)**

Conversions

Conversions Part 1

Format	Color
Hex	009360
RGB	0, 147, 96
RGB Percent	0%, 58%, 38%
CMY	1.0000, 0.4235, 0.6235
CMYK	1.00, 0.00, 0.35, 0.42
HSL	159°, 100%, 29%
HSV	159°, 100%, 58%
XYZ	12.5450, 21.7120, 14.5960
YIQ	97.2330, -71.2410, -47.0250

Conversions

Conversions Part 2

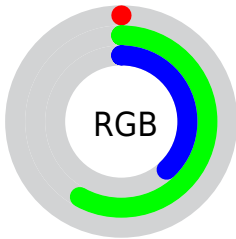
Format	Color
RYB	0, 89, 147
Decimal	37728
CIELab	53.72, -45.94, 17.85
CIELCh	54, 49.289, 158.769
Yxy	21.7120, 0.2568, 0.4444
Android (android.graphics.Color)	4278227808 (0xFF009360)
YUV	97.2330, -0.6079, -85.2733
Hunter-Lab	46.5961, -33.4860, 14.0450

Details

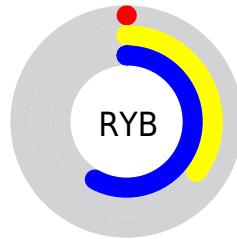
The XYZ color **12.5450, 21.7120, 14.5960** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **12.6308, 6.4424, 3.7102**, and the grayscale version is **11.4341, 12.0296, 13.1002**.

A 20% lighter version of the original color is **30.1333, 46.2789, 34.9483**, and **4.6466, 8.4062, 4.2834** is the 20% darker color. If you saturate the color by 10%, you get **12.5455, 21.7128, 14.5963**, and if you desaturate by 10%, it is **12.9803, 21.9089, 15.8828**.

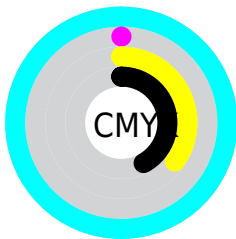
Distribution



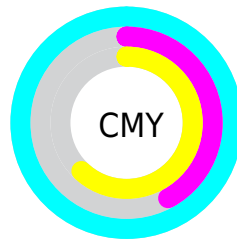
- Red (0%)
- Green (58%)
- Blue (38%)



- Red (0%)
- Yellow (35%)
- Blue (58%)



- Cyan (100%)
- Magenta (0%)
- Yellow (35%)
- Black (42%)



- Cyan (100%)
- Magenta (42%)
- Yellow (62%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.5450, 21.7120, 14.5960 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 12.5450, 21.7120, 14.5960 by changing the saturation by 10% instead.

■ 12.5450, 21.7120,
14.5960

■ 12.5450, 21.7120,
14.5960

201.6778,
261.0386, 232.4636

■ 7.1908, 13.6454,
8.3929

■ 30.0922, 46.2695,
34.8751

■ 3.6291, 7.8745,
4.2560

■ 43.0160, 63.5293,
49.7881

■ 1.4945, 4.0147,
1.7668

■ 59.1936, 84.6222,
68.4416

■ 0.3221, 1.6818,
0.4059

■ 78.9905, 109.9328,
91.2540

■ 0.0000, 0.4118,
0.0000

■ 102.7720,
139.8453, 118.6438

■ 0.0000, 0.0000,
0.0000

■ 130.9035,

174.7441, 151.0297

163.7503,
215.0138, 188.8301

■ 12.5450, 21.7120,
14.5960

■ 12.5450, 21.7120,
14.5960

■ 12.5455, 21.7128,
14.5963

■ 12.9803, 21.9089,
15.8828

■ 13.5643, 22.1802,
17.2571

■ 14.3632, 22.5604,
18.7239

■ 15.4020, 23.0624,
20.2857

■ 16.7022, 23.6974,
21.9449

■ 18.2829, 24.4749,
23.7037

■ 20.1613, 25.4040,
25.5642

■ 22.3530, 26.4927,
27.5284

■ 24.8729, 27.7485,
29.5982

Harmonies

Analogous

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



14.9090, 21.7120, 7.4434



12.5450, 21.7120, 14.5960



12.1400, 21.7120, 28.3568

Triad

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



12.5450, 21.7120, 14.5960



22.2236, 21.7120, 65.6014



29.6091, 21.7120, 9.7064

Complementary

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



12.5450, 21.7120, 14.5960



12.6308, 6.4424, 3.7102

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.



32.3866, 21.7120, 19.4788



12.5450, 21.7120, 14.5960



27.6702, 21.7120, 54.3352

Square

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



12.5450, 21.7120, 14.5960



17.1736, 21.7120, 62.4275



31.6222, 21.7120, 35.8128



24.5364, 21.7120, 5.5744

Rectangle

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



12.5450, 21.7120, 14.5960



12.9542, 21.7120, 40.5800



31.6222, 21.7120, 35.8128



30.8783, 21.7120, 12.2252

Sweetspot

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



12.5456, 21.7129, 14.5965



35.8805, 45.3822, 45.5688



11.8223, 21.5839, 3.5431



7.8847, 10.2082, 10.1070



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.



12.5456, 21.7129, 14.5965



22.3804, 38.8488, 25.6864



12.5943, 16.7619, 30.1765



5.8795, 6.5284, 6.9763



10.8878, 18.8279, 12.7166



0.1472, 0.2360, 0.2291

Inverse Universe

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



12.6308, 6.4424, 3.7102



22.5426, 11.5063, 6.2419



12.3210, 6.7791, 0.6592



5.8789, 5.8466, 6.4685



10.9605, 5.5893, 3.2731



0.1471, 0.0736, 0.1081

Previews

White Background



This preview shows how the XYZ color 12.5450, 21.7120, 14.5960 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 12.5450, 21.7120, 14.5960 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 12.5450, 21.7120, 14.5960

Background



This preview shows how black text looks on a background with the XYZ color 12.5450, 21.7120, 14.5960.



This preview shows how white text looks on a background with the XYZ color 12.5450, 21.7120,

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

12.5450, 21.7120, 14.5960

Protanopia

19.9619, 21.5462, 12.3392

Deuteranopia

21.8757, 21.5148, 15.5702



Tritanopia

16.4108, 21.7270, 33.0345

Trichromacy



Original Color

12.5450, 21.7120, 14.5960



Protanomaly

14.5768, 20.1580, 13.0201



Deuteranomaly

15.2708, 19.8555, 15.0842



Tritanomaly

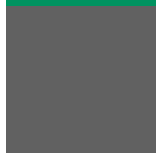
14.5830, 21.6179, 25.2339

Monochromacy



Original Color

12.5450, 21.7120, 14.5960



Achromatopsia

11.3621, 11.9538, 13.0177



Achromatomaly

10.2750, 14.1487, 13.4987

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.5450, 21.7120, 14.5960 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, 147, 96)` looks like.

```
.text, #text, p{  
    color:rgb(0, 147, 96)  
}
```

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, 147, 96) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 147, 96) }
```

Border

The CSS property to change the border of an element to XYZ 12.5450, 21.7120, 14.5960 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, 147, 96) }
```


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

```
.border{ border-color:rgb(0, 147, 96) }
```

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

Here you see how a box with a 4 pixel rgb(0, 147, 96) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 147, 96); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 147, 96);  
box-shadow:4px 4px 4px 4px rgb(0, 147, 96)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.5450, 21.7120, 14.5960 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 147, 96) }
```

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

```
.background{ background-color: rgb(0, 147,  
96) }
```

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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