

Converting Colors

XYZ(13.7772, 24.5657, 12.4030)

Have a look what the booklet for
XYZ(13.7772, 24.5657, 12.4030)
contains.

XYZ(13.7772, 24.5657, 12.4030)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(13.7772, 24.5657,
12.4030)**

Conversions

Conversions Part 1

Format	Color
Hex	149C54
RGB	20, 156, 84
RGB Percent	8%, 61%, 33%
CMY	0.9215, 0.3882, 0.6706
CMYK	0.87, 0.00, 0.46, 0.39
HSL	148°, 77%, 35%
HSV	148°, 87%, 61%
XYZ	13.7772, 24.5657, 12.4030
YIQ	107.1280, -57.9440, -51.2240

Conversions

Conversions Part 2

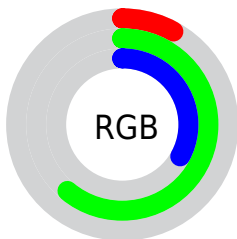
Format	Color
R_{YB}	20, 112, 156
Decimal	1350740
CIE Lab	56.65, -50.50, 28.31
CIE LCh	57, 57.889, 150.725
Yxy	24.5657, 0.2715, 0.4841
Android (android.graphics.Color)	4279540820 (0xFF149C54)
YUV	107.1280, -11.4021, -76.4113
Hunter-Lab	49.5638, -37.1192, 19.8577

Details

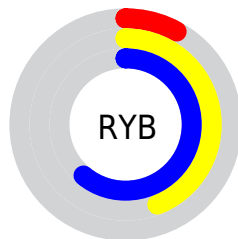
The XYZ color **13.7772, 24.5657, 12.4030** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **15.8931, 8.3415, 10.8993**, and the grayscale version is **14.0537, 14.7856, 16.1015**.

A 20% lighter version of the original color is **32.4309, 51.1634, 31.0879**, and **5.1842, 9.8341, 3.3752** is the 20% darker color. If you saturate the color by 10%, you get **13.2396, 24.3244, 10.7879**, and if you desaturate by 10%, it is **14.5460, 24.9231, 14.2292**.

Distribution



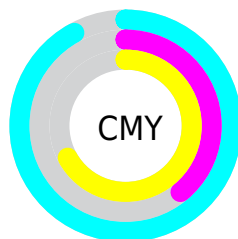
- Red (8%)
- Green (61%)
- Blue (33%)



- Red (8%)
- Yellow (44%)
- Blue (61%)



- Cyan (87%)
- Magenta (0%)
- Yellow (46%)
- Black (39%)



- Cyan (92%)
- Magenta (39%)
- Yellow (67%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.7772, 24.5657, 12.4030 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 13.7772, 24.5657, 12.4030 by changing the saturation by 10% instead.

■ 13.7772, 24.5657,
12.4030

■ 13.7772, 24.5657,
12.4030

209.3788,
275.6681, 218.1271

■ 8.0465, 15.7538,
6.8929

■ 32.2828, 50.9518,
30.9023

■ 4.1768, 9.3501,
3.3178

■ 45.7884, 69.2947,
44.7286

■ 1.8026, 4.9702,
1.2591

■ 62.6163, 91.5835,
62.1640

■ 0.5193, 2.2298,
0.0279

■ 83.1320, 118.2024,
83.6271

■ 0.0000, 0.7362,
0.0000

■ 107.7007,
149.5360, 109.5364

■ 0.0000, 0.0000,
0.0000

■ 136.6878,

185.9685, 140.3105

170.4588,
227.8844, 176.3678

■ 13.7772, 24.5657,
12.4030

■ 13.7772, 24.5657,
12.4030

■ 13.2396, 24.3244,
10.7879

■ 14.5460, 24.9231,
14.2292

■ 13.1051, 24.2643,
10.3676

■ 15.5901, 25.4172,
16.2734

■ 16.9389, 26.0637,
18.5439

■ 18.6173, 26.8752,
21.0478

■ 20.6475, 27.8632,
23.7920

■ 23.0497, 29.0379,
26.7828

■ 25.8426, 30.4087,
30.0266

■ 29.0434, 31.9846,
33.5292

■ 32.6684, 33.7738,
37.2965

Harmonies

Analogous

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



17.3382, 24.5657, 5.8565



13.7772, 24.5657, 12.4030



12.6469, 24.5657, 27.2202

Triad

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



13.7772, 24.5657, 12.4030



23.5133, 24.5657, 83.6058



36.3428, 24.5657, 11.9221

Complementary

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



13.7772, 24.5657, 12.4030



15.8931, 8.3415, 10.8993

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.



38.8378, 24.5657, 26.2811



13.7772, 24.5657, 12.4030



30.6095, 24.5657, 72.9692

Square

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



13.7772, 24.5657, 12.4030



17.5721, 24.5657, 73.8898



36.5635, 24.5657, 49.2892



30.2706, 24.5657, 5.6875

Rectangle

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



13.7772, 24.5657, 12.4030



13.2112, 24.5657, 42.1354



36.5635, 24.5657, 49.2892



37.6747, 24.5657, 15.6533

Sweetspot

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



13.7778, 24.5667, 12.4036



42.1764, 52.8926, 49.0186



16.4828, 26.1314, 4.8373



8.9547, 11.4790, 10.3922



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



13.7778, 24.5667, 12.4036



23.7040, 44.0302, 18.3147



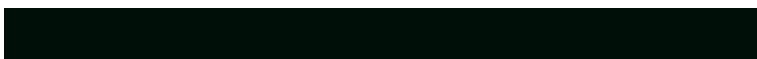
17.8016, 26.1762, 33.5927



6.6741, 7.4504, 7.7187



10.8115, 19.9925, 8.6304



0.2145, 0.3660, 0.2661

Inverse Universe

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



15.8931, 8.3415, 10.8993



27.6088, 13.9202, 15.4202



14.1316, 7.6369, 1.6231



6.7724, 6.7019, 7.6527



12.5838, 6.3381, 7.3255



0.2463, 0.1218, 0.2431

Previews

White Background



This preview shows how the XYZ color 13.7772, 24.5657, 12.4030 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 13.7772, 24.5657, 12.4030 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 13.7772, 24.5657, 12.4030

Background



This preview shows how black text looks on a background with the XYZ color 13.7772, 24.5657, 12.4030.



This preview shows how white text looks on a background with the XYZ color 13.7772, 24.5657,

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

13.7772, 24.5657, 12.4030

Protanopia

22.1812, 24.1456, 10.3290

Deuteranopia

24.6389, 24.1372, 13.2579



Tritanopia

18.6162, 24.3627, 36.5222

Trichromacy



Original Color

13.7772, 24.5657, 12.4030



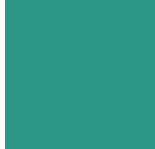
Protanomaly

16.6006, 22.9761, 10.9570



Deuteranomaly

17.4245, 22.4848, 12.6542



Tritanomaly

16.1979, 24.0595, 25.6200

Monochromacy



Original Color

13.7772, 24.5657, 12.4030



Achromatopsia

13.9749, 14.7027, 16.0113



Achromatomaly

12.4874, 17.0639, 14.4399

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.7772, 24.5657, 12.4030 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(20, 156, 84)` looks like.

```
.text, #text, p{  
    color:rgb(20, 156, 84)  
}
```

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(20, 156, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 156, 84) }
```

Border

The CSS property to change the border of an element to XYZ 13.7772, 24.5657, 12.4030 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(20, 156, 84) }
```


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

```
.border{ border-color:rgb(20, 156, 84) }
```

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

Here you see how a box with a 4 pixel `rgb(20, 156, 84)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 156, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 156, 84);  
box-shadow:4px 4px 4px 4px rgb(20, 156,  
84) }
```

Background

The CSS property to change the background color of an element to XYZ 13.7772, 24.5657, 12.4030 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 156, 84) }
```

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

```
.background{ background-color: rgb(20, 156,  
84) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor