

Converting Colors

XYZ(12.8101, 21.2378, 7.7461)

Have a look what the booklet for
XYZ(12.8101, 21.2378, 7.7461)
contains.

XYZ(12.8388, 21.3295, 7.7153)	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(12.8388, 21.3295,
7.7153)**

Conversions

Conversions Part 1

Format	Color
Hex	3F903C
RGB	63, 144, 60
RGB Percent	25%, 56%, 24%
CMY	0.7529, 0.4353, 0.7647
CMYK	0.56, 0.00, 0.58, 0.44
HSL	118°, 41%, 40%
HSV	118°, 58%, 56%
XYZ	12.8388, 21.3295, 7.7153
YIQ	110.2050, -21.3120, -43.2960

Conversions

Conversions Part 2

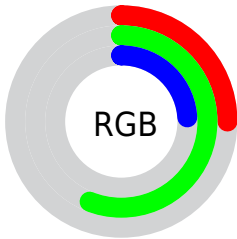
Format	Color
RYB	60, 144, 141
Decimal	4165692
CIELab	53.31, -42.20, 36.74
CIELCh	53, 55.947, 138.958
Yxy	21.3295, 0.3065, 0.5093
Android (android.graphics.Color)	4282355772 (0xFF3F903C)
YUV	110.2050, -24.7511, -41.3988
Hunter-Lab	46.1839, -31.2000, 22.4240

Details

The XYZ color **12.8388, 21.3295, 7.7153** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **17.6354, 10.9087, 27.5627**, and the grayscale version is **14.9537, 15.7325, 17.1327**.

A 20% lighter version of the original color is **30.7091, 45.8242, 21.9783**, and **3.9637, 7.8484, 1.5644** is the 20% darker color. If you saturate the color by 10%, you get **11.7312, 20.7973, 5.9398**, and if you desaturate by 10%, it is **14.2748, 22.0203, 10.0479**.

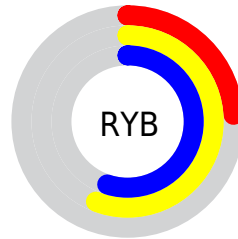
Distribution



Red (25%)

Green (56%)

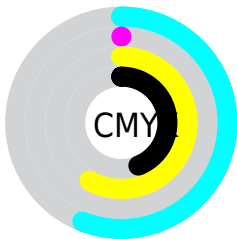
Blue (24%)



Red (24%)

Yellow (56%)

Blue (55%)

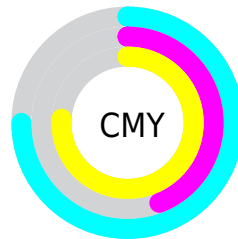


Cyan (56%)

Magenta (0%)

Yellow (58%)

Black (44%)



Cyan (75%)

Magenta (44%)

Yellow (76%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8388, 21.3295, 7.7153 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 12.8388, 21.3295, 7.7153 by changing the saturation by 10% instead.

■ 12.8388, 21.3295,
7.7153

■ 12.8388, 21.3295,
7.7153

203.5405,
259.0245, 183.3320

■ 7.3939, 13.3651,
3.8282

■ 30.6177, 45.6353,
21.9353

■ 3.7581, 7.6804,
1.5316

■ 43.6823, 62.7454,
33.1052

■ 1.5662, 3.8911,
0.2413

■ 60.0176, 83.6729,
47.5398

■ 0.3702, 1.6129,
0.0000

■ 79.9888, 108.8021,
65.6577

■ 0.0000, 0.3662,
0.0000

■ 103.9613,
138.5175, 87.8773

■ 0.0000, 0.0000,
0.0000

■ 132.3006,

173.2034, 114.6172

165.3718,
213.2443, 146.2959

■ 12.8388, 21.3295,
7.7153

■ 12.8388, 21.3295,
7.7153

■ 11.7312, 20.7973,
5.9398

■ 14.2748, 22.0203,
10.0479

■ 10.9246, 20.4087,
4.6738

■ 16.0607, 22.8779,
12.9773

■ 10.3899, 20.1504,
3.8640

■ 18.2179, 23.9134,
16.5411

■ 10.0802, 20.0007,
3.3982

■ 20.7657, 25.1358,
20.7735

■ 10.0380, 19.9805,
3.3276

■ 23.7222, 26.5538,
25.7062

■ 27.1042, 28.1754,
31.3691

■ 30.9275, 30.0083,
37.7899

■ 35.2074, 32.0596,
44.9953

■ 39.9581, 34.3362,
53.0106

Harmonies

Analogous

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



16.7934, 21.3295, 4.0179



12.8388, 21.3295, 7.7153



11.0229, 21.3295, 17.5199

Triad

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



12.8388, 21.3295, 7.7153



18.1688, 21.3295, 72.2052



33.0657, 21.3295, 14.1572

Complementary

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



12.8388, 21.3295, 7.7153



17.6354, 10.9087, 27.5627

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.



33.6327, 21.3295, 30.0491



12.8388, 21.3295, 7.7153



24.2029, 21.3295, 69.7511

Square

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



12.8388, 21.3295, 7.7153



13.6762, 21.3295, 57.5369



30.1341, 21.3295, 51.9021



28.7092, 21.3295, 6.2866

Rectangle

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



12.8388, 21.3295, 7.7153



10.9751, 21.3295, 28.6824



30.1341, 21.3295, 51.9021



33.7337, 21.3295, 18.5065

Sweetspot

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



12.8393, 21.3304, 7.7158



37.1050, 44.5625, 37.4384



21.6670, 24.9543, 7.9500



8.3131, 10.1252, 8.2593



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.



12.8393, 21.3304, 7.7158



20.1942, 36.4413, 9.6911



14.0326, 21.7862, 14.9720



5.3596, 6.0380, 5.7723



8.7453, 17.4010, 2.8978



0.0865, 0.1678, 0.0278

Inverse Universe

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



17.6354, 10.9087, 27.5627



29.4586, 16.2490, 48.1217



15.7301, 10.2063, 14.8319



5.6075, 5.5014, 6.7951



13.6396, 6.5251, 23.5177



0.1343, 0.0644, 0.2250

Previews

White Background



This preview shows how the XYZ color 12.8388, 21.3295, 7.7153 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 12.8388, 21.3295, 7.7153 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 12.8388, 21.3295, 7.7153

Background



This preview shows how black text looks on a background with the XYZ color 12.8388, 21.3295, 7.7153.



This preview shows how white text looks on a background with the XYZ color 12.8388, 21.3295,

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

12.8388, 21.3295, 7.7153

Protanopia

19.2635, 21.1173, 6.6752

Deuteranopia

21.3681, 21.0486, 8.2467



Tritanopia

17.3320, 21.1971, 30.3721

Trichromacy



Original Color

12.8388, 21.3295, 7.7153

Protanomaly

15.9361, 20.5812, 7.0035

Deuteranomaly

16.8017, 20.2083, 7.8655

Tritanomaly

15.0846, 20.9106, 19.4608

Monochromacy



Original Color

12.8388, 21.3295, 7.7153

Achromatopsia

14.8208, 15.5926, 16.9804

Achromatomaly

13.4055, 17.0189, 12.7037

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8388, 21.3295, 7.7153 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(63, 144, 60)` looks like.

```
.text, #text, p{  
    color:rgb(63, 144, 60)  
}
```

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(63, 144, 60) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 144, 60) }
```

Border

The CSS property to change the border of an element to XYZ 12.8388, 21.3295, 7.7153 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(63, 144, 60) }
```


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

```
.border{ border-color:rgb(63, 144, 60) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 144, 60)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 144, 60); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 144, 60);  
box-shadow:4px 4px 4px 4px rgb(63, 144,  
60) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8388, 21.3295, 7.7153 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 144, 60) }
```

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

```
.background{ background-color: rgb(63, 144,  
60) }
```

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