

Converting Colors

XYZ(12.9071, 21.9496, 7.8933)

Have a look what the booklet for
XYZ(12.9071, 21.9496, 7.8933)
contains.

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Color

**XYZ(12.9367, 22.0635,
7.8518)**

Conversions

Conversions Part 1

Format	Color
Hex	39933C
RGB	57, 147, 60
RGB Percent	22%, 58%, 24%
CMY	0.7765, 0.4235, 0.7647
CMYK	0.61, 0.00, 0.59, 0.42
HSL	122°, 44%, 40%
HSV	122°, 61%, 58%
XYZ	12.9367, 22.0635, 7.8518
YIQ	110.1720, -25.7130, -46.1370

Conversions

Conversions Part 2

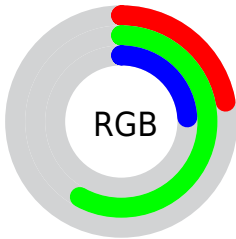
Format	Color
RYB	57, 144, 147
Decimal	3773244
CIELab	54.09, -44.93, 37.61
CIELCh	54, 58.594, 140.074
Yxy	22.0635, 0.3019, 0.5149
Android (android.graphics.Color)	4281963324 (0xFF39933C)
YUV	110.1720, -24.7348, -46.6318
Hunter-Lab	46.9718, -33.0392, 22.9694

Details

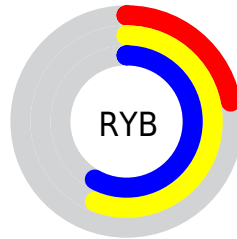
The XYZ color **12.9367, 22.0635, 7.8518** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **18.5305, 11.1434, 27.5605**, and the grayscale version is **14.9451, 15.7234, 17.1228**.

A 20% lighter version of the original color is **30.8744, 46.9443, 22.1857**, and **4.1360, 8.2019, 1.5949** is the 20% darker color. If you saturate the color by 10%, you get **11.8904, 21.5625, 6.0986**, and if you desaturate by 10%, it is **14.3276, 22.7318, 10.1487**.

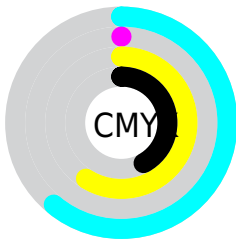
Distribution



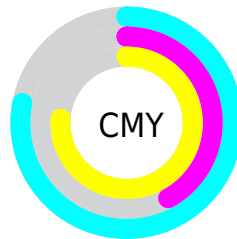
- Red (22%)
- Green (58%)
- Blue (24%)



- Red (22%)
- Yellow (56%)
- Blue (58%)



- Cyan (61%)
- Magenta (0%)
- Yellow (59%)
- Black (42%)



- Cyan (78%)
- Magenta (42%)
- Yellow (76%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9367, 22.0635, 7.8518 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 12.9367, 22.0635, 7.8518 by changing the saturation by 10% instead.

■ 12.9367, 22.0635,
7.8518

■ 12.9367, 22.0635,
7.8518

204.1574,
262.8777, 184.4559

■ 7.4617, 13.9036,
3.9139

■ 30.7923, 46.8509,
22.2088

■ 3.8013, 8.0536,
1.5782

■ 43.9036, 64.2472,
33.4648

■ 1.5904, 4.1293,
0.2752

■ 60.2910, 85.4911,
47.9974

■ 0.3861, 1.7461,
0.0000

■ 80.3199, 110.9669,
66.2249

■ 0.0000, 0.4533,
0.0000

■ 104.3556,
141.0591, 88.5660

■ 0.0000, 0.0000,
0.0000

■ 132.7635,

176.1520, 115.4392

165.9090,
216.6301, 147.2630

■ 12.9367, 22.0635,
7.8518

■ 12.9367, 22.0635,
7.8518

■ 11.8904, 21.5625,
6.0986

■ 14.3276, 22.7318,
10.1487

■ 11.1572, 21.2116,
4.8431

■ 16.0880, 23.5774,
13.0276

■ 10.7028, 20.9947,
4.0340

■ 18.2422, 24.6128,
16.5248

■ 10.4610, 20.8790,
3.6194

■ 20.8120, 25.8484,
20.6736

■ 23.8177, 27.2941,
25.5046

■ 27.2782, 28.9589,
31.0465

■ 31.2112, 30.8516,
37.3266

■ 35.6337, 32.9801,
44.3705

■ 40.5615, 35.3522,
52.2027

Harmonies

Analogous

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



17.0555, 22.0635, 3.8806



12.9367, 22.0635, 7.8518



11.1021, 22.0635, 18.4894

Triad

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



12.9367, 22.0635, 7.8518



18.9370, 22.0635, 77.4979



34.6446, 22.0635, 13.9152

Complementary

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



12.9367, 22.0635, 7.8518



18.5305, 11.1434, 27.5605

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.



35.4311, 22.0635, 30.5642



12.9367, 22.0635, 7.8518



25.4434, 22.0635, 74.0577

Square

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



12.9367, 22.0635, 7.8518



14.0744, 22.0635, 62.0179



31.7878, 22.0635, 54.1517



29.8163, 22.0635, 5.9553

Rectangle

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



12.9367, 22.0635, 7.8518



11.1057, 22.0635, 30.6684



31.7878, 22.0635, 54.1517



35.4233, 22.0635, 18.4150

Sweetspot

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



12.9372, 22.0644, 7.8523



38.7251, 46.9889, 39.3642



22.6747, 27.0932, 7.9055



8.5276, 10.5762, 8.4829



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.



12.9372, 22.0644, 7.8523



20.8039, 38.3796, 10.0905



14.6715, 22.7581, 16.9847



5.7370, 6.4714, 6.2258



9.0706, 18.1011, 3.1476



0.1126, 0.2222, 0.0467

Inverse Universe

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



18.5305, 11.1434, 27.5605



31.6870, 17.1031, 48.4179



15.7485, 10.0306, 12.9110



6.0271, 5.9059, 7.2486



14.6728, 7.0742, 22.8219



0.1817, 0.0874, 0.2904

Previews

White Background



This preview shows how the XYZ color 12.9367, 22.0635, 7.8518 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 12.9367, 22.0635, 7.8518 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 12.9367, 22.0635, 7.8518

Background



This preview shows how black text looks on a background with the XYZ color 12.9367, 22.0635, 7.8518.



This preview shows how white text looks on a background with the XYZ color 12.9367, 22.0635,

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

12.9367, 22.0635, 7.8518

Protanopia

19.8438, 21.8065, 6.6532

Deuteranopia

22.0732, 21.5934, 8.3148



Tritanopia

17.7377, 22.0091, 31.7471

Trichromacy



Original Color

12.9367, 22.0635, 7.8518

Protanomaly

16.2001, 21.3386, 7.0063

Deuteranomaly

16.9269, 20.6677, 7.9476

Tritanomaly

15.3343, 21.6737, 20.2049

Monochromacy



Original Color

12.9367, 22.0635, 7.8518

Achromatopsia

14.8208, 15.5926, 16.9804

Achromatomaly

13.3291, 17.1628, 12.7354

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9367, 22.0635, 7.8518 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(57, 147, 60)` looks like.

```
.text, #text, p{  
    color:rgb(57, 147, 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(57, 147, 60) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(57, 147, 60) }
```

Border

The CSS property to change the border of an element to XYZ 12.9367, 22.0635, 7.8518 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(57, 147, 60) }
```


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

```
.border{ border-color:rgb(57, 147, 60) }
```

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

Here you see how a box with a 4 pixel `rgb(57, 147, 60)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(57, 147, 60); -webkit-box-  
shadow:4px 4px 4px 4px rgb(57, 147, 60);  
box-shadow:4px 4px 4px 4px rgb(57, 147,  
60) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9367, 22.0635, 7.8518 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(57, 147, 60) }
```

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

```
.background{ background-color: rgb(57, 147,  
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](#).

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