

Converting Colors

XYZ(12.2507, 21.3422, 3.7321)

Have a look what the booklet for
XYZ(12.2507, 21.3422, 3.7321)
contains.

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Color

**XYZ(12.2246, 21.3273,
3.7307)**

Conversions

Conversions Part 1

Format	Color
Hex	3F9109
RGB	63, 145, 9
RGB Percent	25%, 57%, 4%
CMY	0.7529, 0.4314, 0.9647
CMYK	0.57, 0.00, 0.94, 0.43
HSL	96°, 88%, 30%
HSV	96°, 94%, 57%
XYZ	12.2246, 21.3273, 3.7307
YIQ	104.9780, -5.2160, -59.6800

Conversions

Conversions Part 2

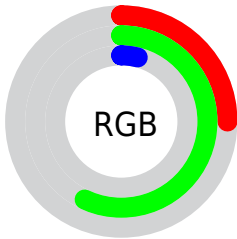
Format	Color
R_{YB}	9, 145, 91
Decimal	4165897
CIE Lab	53.31, -46.34, 54.53
CIE LCh	53, 71.566, 130.359
Yxy	21.3273, 0.3279, 0.5720
Android (android.graphics.Color)	4282355977 (0xFF3F9109)
YUV	104.9780, -47.3172, -36.8147
Hunter-Lab	46.1815, -33.5673, 27.5374

Details

The XYZ color **12.2246, 21.3273, 3.7307** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **9.5246, 4.4649, 27.1491**, and the grayscale version is **13.5473, 14.2528, 15.5213**.

A 20% lighter version of the original color is **29.5697, 45.7695, 13.4068**, and **3.9144, 7.8287, 1.3048** is the 20% darker color. If you saturate the color by 10%, you get **11.8457, 21.1383, 3.4558**, and if you desaturate by 10%, it is **12.9391, 21.6835, 4.3411**.

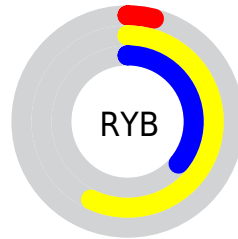
Distribution



Red (25%)

Green (57%)

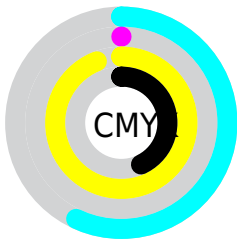
Blue (4%)



Red (4%)

Yellow (57%)

Blue (36%)

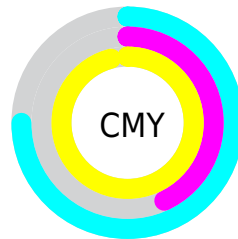


Cyan (57%)

Magenta (0%)

Yellow (94%)

Black (43%)



Cyan (75%)

Magenta (43%)

Yellow (96%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2246, 21.3273, 3.7307 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 12.2246, 21.3273, 3.7307 by changing the saturation by 10% instead.

■ 12.2246, 21.3273,
3.7307

■ 12.2246, 21.3273,
3.7307

199.6263,
259.0128, 145.1834

■ 6.9701, 13.3635,
1.4788

■ 29.5168, 45.6316,
13.3838

■ 3.4896, 7.6793,
0.2021

■ 42.2853, 62.7409,
21.6220

■ 1.4176, 3.8904,
0.0000

■ 58.2891, 83.6674,
32.6927

■ 0.2687, 1.6125,
0.0000

■ 77.8937, 108.7956,
47.0146


■ 0.0000, 0.3660,
0.0000


■ 101.4643,
138.5098, 65.0060


■ 0.0000, 0.0000,
0.0000


■ 129.3664,


173.1945, 87.0856


 161.9653,
213.2341, 113.6719


 12.2246, 21.3273,
3.7307


 12.2246, 21.3273,
3.7307

 11.8457, 21.1383,
3.4558

 12.9391, 21.6835,
4.3411

 13.8254, 22.1185,
5.3753

 14.8993, 22.6396,
6.8941

 16.1736, 23.2523,
8.9477

 17.6599, 23.9619,
11.5799

■ 19.3688, 24.7727,
14.8300

■ 21.3102, 25.6891,
18.7339

■ 23.4932, 26.7151,
23.3246

■ 25.9263, 27.8545,
28.6331

Harmonies

Analogous

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



17.7626, 21.3273, 1.6104



12.2246, 21.3273, 3.7307



9.4129, 21.3273, 11.8311

Triad

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



12.2246, 21.3273, 3.7307



15.7577, 21.3273, 88.8511



38.2448, 21.3273, 16.4984

Complementary

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



12.2246, 21.3273, 3.7307



9.5246, 4.4649, 27.1491

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.



37.3207, 21.3273, 40.2592



12.2246, 21.3273, 3.7307



23.0050, 21.3273, 93.1952

Square

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



12.2246, 21.3273, 3.7307



11.0728, 21.3273, 62.0746



31.2445, 21.3273, 71.7327



33.5223, 21.3273, 5.3271

Rectangle

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



12.2246, 21.3273, 3.7307



8.9139, 21.3273, 23.4840



31.2445, 21.3273, 71.7327



38.6081, 21.3273, 22.9616

Sweetspot

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



12.2251, 21.3282, 3.7312



36.4408, 45.1920, 30.0442



15.4344, 13.4547, 2.0423



7.8130, 9.9147, 6.0985



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.



12.2251, 21.3282, 3.7312



21.0281, 37.7586, 6.1799



10.3894, 20.3702, 4.1745



5.5328, 6.1273, 5.7804



10.1878, 18.1446, 2.9653



0.1211, 0.1857, 0.0295

Inverse Universe

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



9.5246, 4.4649, 27.1491



16.0644, 7.2242, 48.5213



15.8995, 7.8653, 22.2966



5.4218, 5.4056, 6.7864



7.8197, 3.5248, 23.2453



0.0997, 0.0465, 0.2234

Previews

White Background



This preview shows how the XYZ color 12.2246, 21.3273, 3.7307 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 12.2246, 21.3273, 3.7307 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

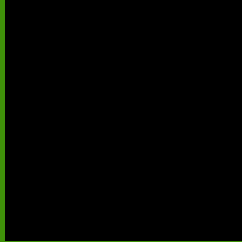
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.2246, 21.3273, 3.7307

Background



This preview shows how black text looks on a background with the XYZ color 12.2246, 21.3273, 3.7307.



This preview shows how white text looks on a background with the XYZ color 12.2246, 21.3273,

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

12.2246, 21.3273, 3.7307

Protanopia

18.9171, 21.0184, 3.0599

Deuteranopia

21.2619, 20.9028, 4.2103



Tritanopia

17.5986, 21.3346, 30.3846

Trichromacy



Original Color

12.2246, 21.3273, 3.7307

Protanomaly

15.4810, 20.6342, 3.2530

Deuteranomaly

16.3171, 20.0475, 3.8202

Tritanomaly

14.4045, 20.8875, 14.3388

Monochromacy



Original Color

12.2246, 21.3273, 3.7307

Achromatopsia

13.4271, 14.1263, 15.3836

Achromatomaly

12.0384, 16.0488, 8.2576

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2246, 21.3273, 3.7307 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, 145, 9)` looks like.

```
.text, #text, p{  
    color:rgb(63, 145, 9)  
}
```

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, 145, 9) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 145, 9) }
```

Border

The CSS property to change the border of an element to XYZ 12.2246, 21.3273, 3.7307 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, 145, 9) }
```


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

```
.border{ border-color:rgb(63, 145, 9) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 145, 9)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 145, 9); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 145, 9);  
box-shadow:4px 4px 4px 4px rgb(63, 145, 9)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.2246, 21.3273, 3.7307 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 145, 9) }
```

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

```
.background{ background-color: rgb(63, 145,  
9) }
```

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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