

Converting Colors

XYZ(12.2680, 11.7874, 36.7510)

Have a look what the booklet for
XYZ(12.2680, 11.7874, 36.7510)
contains.

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Color

**XYZ(12.2490, 11.7499,
36.7443)**

Conversions

Conversions Part 1

Format	Color
Hex	3360A4
RGB	51, 96, 164
RGB Percent	20%, 38%, 64%
CMY	0.8000, 0.6235, 0.3569
CMYK	0.69, 0.41, 0.00, 0.36
HSL	216°, 53%, 42%
HSV	216°, 69%, 64%
XYZ	12.2490, 11.7499, 36.7443
YIQ	90.2970, -48.6480, 11.6080

Conversions

Conversions Part 2

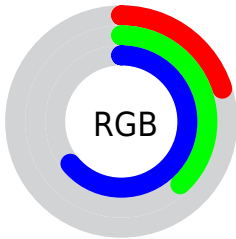
Format	Color
RYB	51, 83, 164
Decimal	3367076
CIELab	40.82, 7.66, -41.28
CIElCh	41, 41.989, 280.511
Yxy	11.7499, 0.2017, 0.1934
Android (android.graphics.Color)	4281557156 (0xFF3360A4)
YUV	90.2970, 36.3356, -34.4635
Hunter-Lab	34.2781, 3.7987, -39.5610

Details

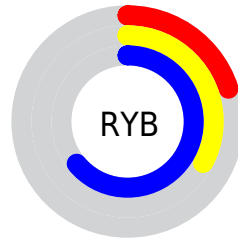
The XYZ color **12.2490, 11.7499, 36.7443** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **22.5054, 21.3271, 6.0633**, and the grayscale version is **9.7143, 10.2202, 11.1298**.

A 20% lighter version of the original color is **29.4955, 28.9872, 71.0584**, and **4.1085, 3.5375, 15.7955** is the 20% darker color. If you saturate the color by 10%, you get **10.7191, 9.7074, 36.4310**, and if you desaturate by 10%, it is **14.1844, 14.1695, 37.1096**.

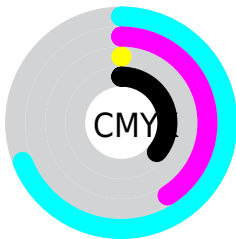
Distribution



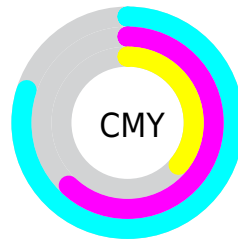
- Red (20%)
- Green (38%)
- Blue (64%)



- Red (20%)
- Yellow (33%)
- Blue (64%)



- Cyan (69%)
- Magenta (41%)
- Yellow (0%)
- Black (36%)



- Cyan (80%)
- Magenta (62%)
- Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2490, 11.7499, 36.7443 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 12.2490, 11.7499, 36.7443 by changing the saturation by 10% instead.

■ 12.2490, 11.7499,
36.7443

■ 12.2490, 11.7499,
36.7443

199.7833,
202.7425, 347.3375

■ 6.9869, 6.5736,
24.7153

■ 29.5607, 29.0388,
71.3613

■ 3.5002, 3.1969,
15.6480

■ 42.3411, 41.9202,
94.7864

■ 1.4234, 1.2354,
9.1238

■ 58.3582, 58.1387,
122.8472

■ 0.2728, 0.0903,
4.7241

■ 77.9775, 78.0788,
155.9625

■ 0.0000, 0.0000,
2.0304

■ 101.5643,
102.1248, 194.5505

■ 0.0000, 0.0000,
0.5739

129.4840,

■ 0.0000, 0.0000,

130.6611, 239.0300

0.0000

162.1018,
164.0722, 289.8195

■ 12.2490, 11.7499,
36.7443

■ 12.2490, 11.7499,
36.7443

■ 10.7191, 9.7074,
36.4310

■ 14.1844, 14.1695,
37.1096

■ 9.5567, 8.0160,
36.1657

■ 16.5554, 16.9873,
37.5285

■ 8.6947, 6.6344,
35.9445

■ 19.3905, 20.2237,
38.0038

■ 8.6087, 6.4959,
35.9223

■ 22.7155, 23.8972,
38.5376

■ 26.5539, 28.0252,
39.1321

■ 30.9277, 32.6240,
39.7892

■ 35.8577, 37.7088,
40.5108

■ 41.3634, 43.2945,
41.2988

■ 47.4633, 49.3949,
42.1548

Harmonies

Analogous

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



9.3590, 11.7499, 35.4140



12.2490, 11.7499, 36.7443



15.3306, 11.7499, 29.8206

Triad

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



12.2490, 11.7499, 36.7443



16.1294, 11.7499, 4.8062



6.5807, 11.7499, 8.0525

Complementary

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



12.2490, 11.7499, 36.7443



22.5054, 21.3271, 6.0633

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.



7.8365, 11.7499, 3.9191



12.2490, 11.7499, 36.7443



13.1961, 11.7499, 2.7074

Square

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



12.2490, 11.7499, 36.7443



17.8217, 11.7499, 10.0210



10.1524, 11.7499, 2.4775



6.4185, 11.7499, 16.0357

Rectangle

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



12.2490, 11.7499, 36.7443



16.9516, 11.7499, 22.7210



10.1524, 11.7499, 2.4775



6.8768, 11.7499, 6.2838

Sweetspot

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



12.2495, 11.7503, 36.7446



46.3700, 48.9201, 70.7509



17.9592, 28.5823, 21.9613



9.7348, 10.2632, 15.4054



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430

Same Dimension

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



12.2495, 11.7503, 36.7446



18.1846, 15.8065, 65.8449



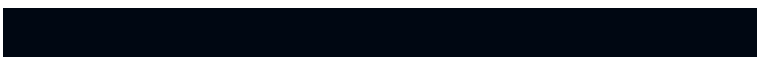
9.8910, 6.0828, 35.7750



6.9211, 7.3012, 8.9476



6.6448, 5.0689, 27.5580



0.1851, 0.1975, 0.5942

Inverse Universe

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



18.6055, 11.1055, 12.2295



31.0982, 16.6791, 15.5475



26.9538, 33.5335, 8.1849



7.1852, 7.1305, 7.9614



12.4994, 6.3558, 4.5547



0.2856, 0.1427, 0.2166

Previews

White Background



This preview shows how the XYZ color 12.2490, 11.7499, 36.7443 looks on a white 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

Black Background



This preview shows how the XYZ color 12.2490, 11.7499, 36.7443 looks on a black 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

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

XYZ 12.2490, 11.7499, 36.7443

Background



This preview shows how black text looks on a background with the XYZ color 12.2490, 11.7499, 36.7443.



This preview shows how white text looks on a background with the XYZ color 12.2490, 11.7499,

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

12.2490, 11.7499, 36.7443

Protanopia

12.8390, 11.8073, 35.7848

Deuteranopia

12.0577, 11.7876, 36.7617



Tritanopia

8.2485, 11.5459, 18.0135

Trichromacy



Original Color

12.2490, 11.7499, 36.7443

Protanomaly

12.6275, 11.8209, 36.2664

Deuteranomaly

12.1478, 11.8341, 36.7659

Tritanomaly

9.2536, 11.3346, 23.8904

Monochromacy



Original Color

12.2490, 11.7499, 36.7443

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

10.0185, 10.4751, 18.3235

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2490, 11.7499, 36.7443 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(51, 96, 164)` looks like.

```
.text, #text, p{  
    color:rgb(51, 96, 164)  
}
```

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(51, 96, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 96, 164) }
```

Border

The CSS property to change the border of an element to XYZ 12.2490, 11.7499, 36.7443 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(51, 96, 164) }
```


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

```
.border{ border-color:rgb(51, 96, 164) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 96, 164)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 96, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 96, 164);  
box-shadow:4px 4px 4px 4px rgb(51, 96,  
164) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2490, 11.7499, 36.7443 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 96, 164) }
```

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

```
.background{ background-color: rgb(51, 96,  
164) }
```

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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