

Converting Colors

XYZ(12.8792, 12.7499, 30.2021)

Have a look what the booklet for
XYZ(12.8792, 12.7499, 30.2021)
contains.

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Color

**XYZ(12.8836, 12.7801,
30.2215)**

Conversions

Conversions Part 1

Format	Color
Hex	4B6495
RGB	75, 100, 149
RGB Percent	29%, 39%, 58%
CMY	0.7059, 0.6078, 0.4157
CMYK	0.50, 0.33, 0.00, 0.42
HSL	220°, 33%, 44%
HSV	220°, 50%, 58%
XYZ	12.8836, 12.7801, 30.2215
YIQ	98.1110, -30.6290, 9.9390

Conversions

Conversions Part 2

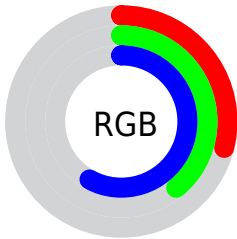
Format	Color
R_{YB}	75, 94, 149
Decimal	4940949
CIE _{Lab}	42.43, 4.99, -29.72
CIE _{LCh}	42, 30.136, 279.532
Yxy	12.7801, 0.2305, 0.2287
Android (android.graphics.Color)	4283131029 (0xFF4B6495)
YUV	98.1110, 25.0883, -20.2683
Hunter-Lab	35.7493, 1.7680, -25.0977

Details

The XYZ color **12.8836, 12.7801, 30.2215** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **20.8725, 21.3135, 9.6710**, and the grayscale version is **11.5824, 12.1856, 13.2701**.

A 20% lighter version of the original color is **30.7482, 31.0342, 60.8695**, and **3.7923, 3.6586, 12.0616** is the 20% darker color. If you saturate the color by 10%, you get **10.9621, 10.4690, 29.8769**, and if you desaturate by 10%, it is **15.1936, 15.4621, 30.6177**.

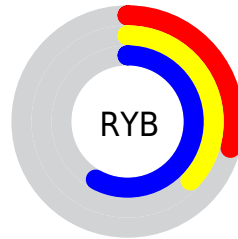
Distribution



Red (29%)

Green (39%)

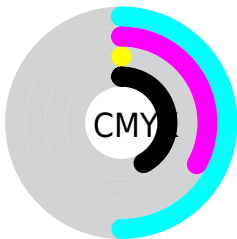
Blue (58%)



Red (29%)

Yellow (37%)

Blue (58%)

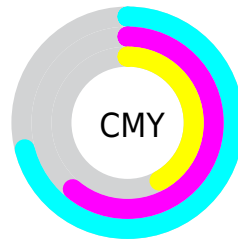


Cyan (50%)

Magenta (33%)

Yellow (0%)

Black (42%)



Cyan (71%)

Magenta (61%)

Yellow (42%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8836, 12.7801, 30.2215 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 12.8836, 12.7801, 30.2215 by changing the saturation by 10% instead.

■ 12.8836, 12.7801,
30.2215

■ 12.8836, 12.7801,
30.2215

203.8230,
209.5035, 317.1749

■ 7.4249, 7.2773,
19.7533

■ 30.6976, 30.9082,
61.0774

■ 3.7779, 3.6361,
12.0335

■ 43.7836, 44.3022,
82.3022

■ 1.5773, 1.4722,
6.6437

■ 60.1428, 61.0954,
107.9497

■ 0.3775, 0.2690,
3.1652

■ 80.1404, 81.6723,
138.4382

■ 0.0000, 0.0000,
1.1796

■ 104.1419,
106.4171, 174.1865

■ 0.0000, 0.0000,
0.0000

132.5126,

135.7143, 215.6130

165.6179,
169.9483, 263.1363

■ 12.8836, 12.7801,
30.2215

■ 12.8836, 12.7801,
30.2215

■ 10.9621, 10.4690,
29.8769

■ 15.1936, 15.4621,
30.6177

■ 9.4044, 8.5092,
29.5808

■ 17.9120, 18.5304,
31.0666

■ 8.1846, 6.8814,
29.3308

■ 21.0591, 22.0011,
31.5707

■ 7.2726, 5.5631,
29.1245

■ 24.6532, 25.8888,
32.1317

■ 6.6006, 4.5121,
28.9570

■ 28.7116, 30.2075,
32.7513

■ 6.5799, 4.4800,
28.9519

■ 33.2506, 34.9705,
33.4315

■ 38.2857, 40.1904,
34.1736

■ 43.8318, 45.8794,
34.9794

■ 49.9030, 52.0491,
35.8503

Harmonies

Analogous

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



10.6852, 12.7801, 29.2002



12.8836, 12.7801, 30.2215



15.1393, 12.7801, 25.9401

Triad

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



12.8836, 12.7801, 30.2215



15.8301, 12.7801, 7.3840



8.5028, 12.7801, 9.9894

Complementary

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



12.8836, 12.7801, 30.2215



20.8725, 21.3135, 9.6710

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.



9.5776, 12.7801, 6.3350



12.8836, 12.7801, 30.2215



13.7366, 12.7801, 5.1883

Square

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



12.8836, 12.7801, 30.2215



16.9748, 12.7801, 11.9481



11.4392, 12.7801, 4.8757



8.3343, 12.7801, 16.0875

Rectangle

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



12.8836, 12.7801, 30.2215



16.3064, 12.7801, 21.2565



11.4392, 12.7801, 4.8757



8.7630, 12.7801, 8.4951

Sweetspot

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



12.8841, 12.7806, 30.2218



40.4188, 42.3418, 56.9637



17.2309, 24.4236, 22.5783



8.6918, 9.0955, 12.5823



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.



12.8841, 12.7806, 30.2218



19.1562, 18.1622, 53.4173



11.7883, 9.1858, 29.5857



5.6501, 5.9342, 7.3174



5.5631, 3.8211, 24.3754



0.0933, 0.0972, 0.3067

Inverse Universe

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



17.2111, 12.3423, 13.5322



28.0865, 18.1034, 18.7829



22.4825, 27.3979, 10.7605



5.8768, 5.8458, 6.4575



10.9351, 5.5791, 3.1393



0.1466, 0.0734, 0.1054

Previews

White Background



This preview shows how the XYZ color 12.8836, 12.7801, 30.2215 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 12.8836, 12.7801, 30.2215 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

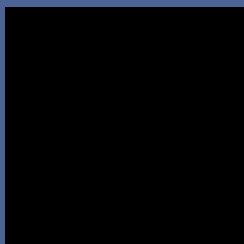
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

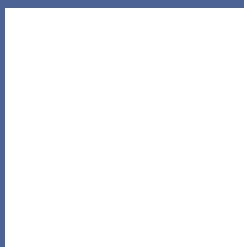
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.8836, 12.7801, 30.2215

Background



This preview shows how black text looks on a background with the XYZ color 12.8836, 12.7801, 30.2215.



This preview shows how white text looks on a background with the XYZ color 12.8836, 12.7801,

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

12.8836, 12.7801, 30.2215

Protanopia

13.2803, 12.7125, 29.7708

Deuteranopia

13.0285, 12.7133, 30.2010



Tritanopia

10.4666, 12.8432, 18.1470

Trichromacy



Original Color

12.8836, 12.7801, 30.2215

Protanomaly

13.1154, 12.7673, 29.7900

Deuteranomaly

12.9472, 12.6714, 30.1972

Tritanomaly

11.1650, 12.6619, 21.9342

Monochromacy



Original Color

12.8836, 12.7801, 30.2215

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

11.8892, 12.3817, 18.5929

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8836, 12.7801, 30.2215 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(75, 100, 149)` looks like.

```
.text, #text, p{  
  color:rgb(75, 100, 149)  
}
```

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(75, 100, 149) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 100, 149) }
```

Border

The CSS property to change the border of an element to XYZ 12.8836, 12.7801, 30.2215 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(75, 100, 149) }
```


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

```
.border{ border-color:rgb(75, 100, 149) }
```

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

Here you see how a box with a 4 pixel `rgb(75, 100, 149)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 100, 149); -webkit-box-  
shadow:4px 4px 4px 4px rgb(75, 100, 149);  
box-shadow:4px 4px 4px 4px rgb(75, 100,  
149) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8836, 12.7801, 30.2215 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 100, 149) }
```

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

```
.background{ background-color: rgb(75, 100,  
149) }
```

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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