

Converting Colors

XYZ(12.7246, 14.1090, 30.4550)

Have a look what the booklet for
XYZ(12.7246, 14.1090, 30.4550)
contains.

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Color

**XYZ(12.6971, 14.0370,
30.4740)**

Conversions

Conversions Part 1

Format	Color
Hex	3B6D95
RGB	59, 109, 149
RGB Percent	23%, 43%, 58%
CMY	0.7686, 0.5725, 0.4157
CMYK	0.60, 0.27, 0.00, 0.42
HSL	207°, 43%, 41%
HSV	207°, 60%, 58%
XYZ	12.6971, 14.0370, 30.4740
YIQ	98.6100, -42.6400, 1.8400

Conversions

Conversions Part 2

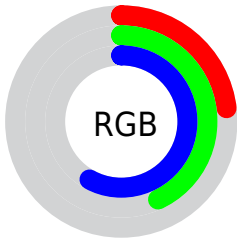
Format	Color
R _Y B	59, 91, 149
Decimal	3894677
CIE Lab	44.29, -4.25, -26.88
CIE LCh	44, 27.217, 261.007
Yxy	14.0370, 0.2219, 0.2454
Android (android.graphics.Color)	4282084757 (0xFF3B6D95)
YUV	98.6100, 24.8423, -34.7380
Hunter-Lab	37.4660, -5.0724, -21.9990

Details

The XYZ color **12.6971, 14.0370, 30.4740** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **17.6463, 15.6299, 6.2252**, and the grayscale version is **11.7096, 12.3194, 13.4159**.

A 20% lighter version of the original color is **30.2897, 33.0308, 61.2791**, and **3.9272, 4.3271, 12.1835** is the 20% darker color. If you saturate the color by 10%, you get **11.2568, 12.2852, 30.2120**, and if you desaturate by 10%, it is **14.4437, 16.0263, 30.7662**.

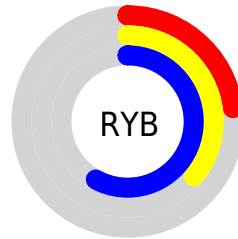
Distribution



Red (23%)

Green (43%)

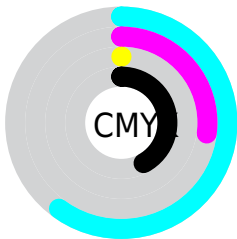
Blue (58%)



Red (23%)

Yellow (36%)

Blue (58%)

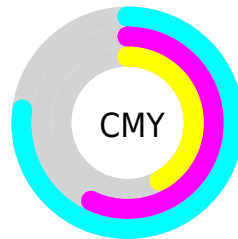


Cyan (60%)

Magenta (27%)

Yellow (0%)

Black (42%)



Cyan (77%)

Magenta (57%)

Yellow (42%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6971, 14.0370, 30.4740 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 12.6971, 14.0370, 30.4740 by changing the saturation by 10% instead.

■ 12.6971, 14.0370,
30.4740

■ 12.6971, 14.0370,
30.4740

202.6443,
217.4609, 318.3835

■ 7.2959, 8.1464,
19.9435

■ 30.3645, 33.1547,
61.4808

■ 3.6958, 4.1888,
12.1703

■ 43.3614, 47.1505,
82.7943

■ 1.5315, 1.7797,
6.7359

■ 59.6208, 64.6169,
108.5391

■ 0.3471, 0.4745,
3.2215

■ 79.5082, 85.9383,
139.1339

■ 0.0000, 0.0000,
1.2088

■ 103.3889,
111.4989, 174.9972

■ 0.0000, 0.0000,
0.0000

131.6282,

141.6833, 216.5476

164.5916,
176.8758, 264.2035

■ 12.6971, 14.0370,
30.4740

■ 12.6971, 14.0370,
30.4740

■ 11.2568, 12.2852,
30.2120

■ 14.4437, 16.0263,
30.7662

■ 10.0981, 10.7555,
29.9779

■ 16.5158, 18.2638,
31.0889

■ 9.1943, 9.4329,
29.7702

■ 18.9326, 20.7614,
31.4436

■ 8.5010, 8.3223,
29.5924

■ 21.7112, 23.5294,
31.8314

■ 24.8676, 26.5776,
32.2534

■ 28.4168, 29.9152,
32.7106

■ 32.3729, 33.5510,
33.2038

■ 36.7491, 37.4932,
33.7341

■ 41.5584, 41.7499,
34.3022

Harmonies

Analogous

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



10.8739, 14.0370, 26.6434



12.6971, 14.0370, 30.4740



14.9017, 14.0370, 29.4553

Triad

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



12.6971, 14.0370, 30.4740



17.6505, 14.0370, 11.3713



10.3415, 14.0370, 8.9056

Complementary

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



12.6971, 14.0370, 30.4740



17.6463, 15.6299, 6.2252

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.



11.8946, 14.0370, 6.5922



12.6971, 14.0370, 30.4740



16.1573, 14.0370, 7.7227

Square

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



12.6971, 14.0370, 30.4740



17.9256, 14.0370, 17.2386



14.0079, 14.0370, 6.2278



9.6146, 14.0370, 13.4829

Rectangle

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



12.6971, 14.0370, 30.4740



16.2859, 14.0370, 26.2524



14.0079, 14.0370, 6.2278



10.7757, 14.0370, 7.8960

Sweetspot

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



12.6976, 14.0375, 30.4743



39.9758, 43.2069, 57.1541



14.7562, 23.3070, 15.2770



8.5431, 9.2661, 12.6231



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.



12.6976, 14.0375, 30.4743



19.4724, 21.1212, 53.9717



9.1194, 6.8810, 29.2816



5.7506, 6.1351, 7.3508



7.1847, 7.0641, 24.9159



0.1174, 0.1454, 0.3148

Inverse Universe

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



16.7192, 10.6222, 15.6375



27.6783, 15.7658, 23.3361



23.0067, 26.3507, 8.0119



5.9275, 5.8661, 6.7246



11.7536, 5.9065, 7.4492



0.1587, 0.0782, 0.1695

Previews

White Background



This preview shows how the XYZ color 12.6971, 14.0370, 30.4740 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 12.6971, 14.0370, 30.4740 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

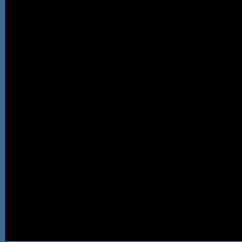
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.6971, 14.0370, 30.4740

Background



This preview shows how black text looks on a background with the XYZ color 12.6971, 14.0370, 30.4740.

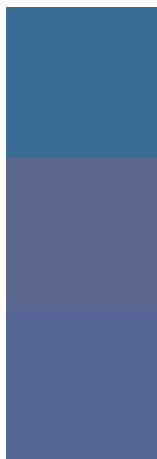


This preview shows how white text looks on a background with the XYZ color 12.6971, 14.0370,

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

12.6971, 14.0370, 30.4740

Protanopia

14.2979, 13.9894, 28.3322

Deuteranopia

14.1930, 13.8809, 30.7854



Tritanopia

10.7648, 14.0690, 20.8871

Trichromacy



Original Color

12.6971, 14.0370, 30.4740

Protanomaly

13.5481, 13.8839, 29.1599

Deuteranomaly

13.5371, 13.8417, 30.8124

Tritanomaly

11.3243, 13.9581, 23.9271

Monochromacy



Original Color

12.6971, 14.0370, 30.4740

Achromatopsia

11.8596, 12.4772, 13.5877

Achromatomaly

11.7173, 12.8697, 18.6961

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6971, 14.0370, 30.4740 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(59, 109, 149)` looks like.

```
.text, #text, p{  
    color:rgb(59, 109, 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(59, 109, 149) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(59, 109, 149) }
```

Border

The CSS property to change the border of an element to XYZ 12.6971, 14.0370, 30.4740 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(59, 109, 149) }
```


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

```
.border{ border-color:rgb(59, 109, 149) }
```

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

Here you see how a box with a 4 pixel `rgb(59, 109, 149)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(59, 109, 149); -webkit-box-  
shadow:4px 4px 4px 4px rgb(59, 109, 149);  
box-shadow:4px 4px 4px 4px rgb(59, 109,  
149) }
```

Background

The CSS property to change the background color of an element to XYZ 12.6971, 14.0370, 30.4740 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(59, 109, 149) }
```

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

```
.background{ background-color: rgb(59, 109,  
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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