

Converting Colors

XYZ(12.9031, 16.2113, 29.2371)

Have a look what the booklet for
XYZ(12.9031, 16.2113, 29.2371)
contains.

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Color

**XYZ(12.9031, 16.2113,
29.2371)**

Conversions

Conversions Part 1

Format	Color
Hex	2A7991
RGB	42, 121, 145
RGB Percent	16%, 47%, 57%
CMY	0.8353, 0.5255, 0.4314
CMYK	0.71, 0.17, 0.00, 0.43
HSL	194°, 55%, 37%
HSV	194°, 71%, 57%
XYZ	12.9031, 16.2113, 29.2371
YIQ	100.1150, -54.7880, -9.2840

Conversions

Conversions Part 2

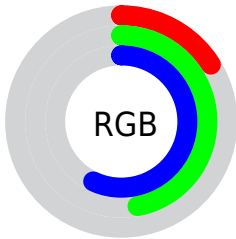
Format	Color
R _Y B	42, 87, 145
Decimal	2783633
CIE Lab	47.25, -15.66, -19.98
CIE LCh	47, 25.382, 231.910
Yxy	16.2113, 0.2211, 0.2778
Android (android.graphics.Color)	4280973713 (0xFF2A7991)
YUV	100.1150, 22.1283, -50.9669
Hunter-Lab	40.2633, -13.2571, -14.8691

Details

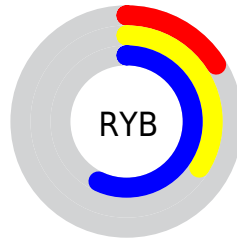
The XYZ color **12.9031, 16.2113, 29.2371** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **14.0439, 10.0844, 3.3975**, and the grayscale version is **12.0985, 12.7286, 13.8615**.

A 20% lighter version of the original color is **30.6192, 36.7774, 59.5178**, and **4.3377, 5.4429, 11.4116** is the 20% darker color. If you saturate the color by 10%, you get **12.0105, 15.1525, 29.0801**, and if you desaturate by 10%, it is **14.0257, 17.4106, 29.4097**.

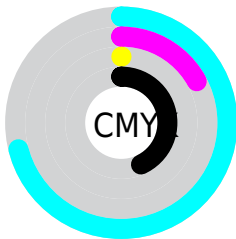
Distribution



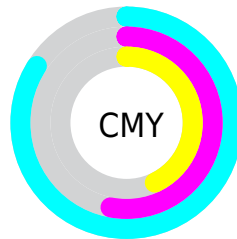
- Red (16%)
- Green (47%)
- Blue (57%)



- Red (16%)
- Yellow (34%)
- Blue (57%)



- Cyan (71%)
- Magenta (17%)
- Yellow (0%)
- Black (43%)



- Cyan (84%)
- Magenta (53%)
- Yellow (43%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9031, 16.2113, 29.2371 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 12.9031, 16.2113, 29.2371 by changing the saturation by 10% instead.

■ 12.9031, 16.2113,
29.2371

■ 12.9031, 16.2113,
29.2371

203.9459,
230.5853, 312.4279

■ 7.4384, 9.6738,
19.0131

■ 30.7324, 36.9646,
59.5003

■ 3.7865, 5.1832,
11.5029

■ 43.8277, 51.9493,
80.3765

■ 1.5821, 2.3552,
6.2877

■ 60.1972, 70.5184,
105.6406

■ 0.3807, 0.8027,
2.9492

■ 80.2063, 93.0564,
135.7111

■ 0.0000, 0.0000,
1.0688

■ 104.2204,
119.9477, 171.0066

■ 0.0000, 0.0000,
0.0000

■ 132.6048,

151.5767, 211.9455

165.7248,
188.3278, 258.9464

■ 12.9031, 16.2113,
29.2371

■ 12.9031, 16.2113,
29.2371

■ 12.0105, 15.1525,
29.0801

■ 14.0257, 17.4106,
29.4097

■ 11.3219, 14.2197,
28.9363

■ 15.3978, 18.7598,
29.5978

■ 10.8186, 13.4597,
28.8162

■ 17.0384, 20.2692,
29.8027

■ 18.9641, 21.9476,
30.0252

■ 21.1902, 23.8030,
30.2660

■ 23.7309, 25.8429,
30.5258

■ 26.5994, 28.0745,
30.8054

■ 29.8081, 30.5042,
31.1052

■ 33.3689, 33.1384,
31.4260

Harmonies

Analogous

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



11.7506, 16.2113, 22.6615



12.9031, 16.2113, 29.2371



14.8107, 16.2113, 32.8814

Triad

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



12.9031, 16.2113, 29.2371



20.0738, 16.2113, 19.4432



13.8576, 16.2113, 8.5081

Complementary

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



12.9031, 16.2113, 29.2371



14.0439, 10.0844, 3.3975

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.



16.0219, 16.2113, 8.0449



12.9031, 16.2113, 29.2371



19.7558, 16.2113, 13.4401

Square

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



12.9031, 16.2113, 29.2371



19.0497, 16.2113, 26.3984



18.2186, 16.2113, 9.6195



12.2634, 16.2113, 11.0876

Rectangle

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



12.9031, 16.2113, 29.2371



16.3137, 16.2113, 32.6659



18.2186, 16.2113, 9.6195



14.5371, 16.2113, 8.1297

Sweetspot

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



12.9036, 16.2119, 29.2375



37.7742, 42.4849, 54.1830



12.0153, 21.1173, 8.3416



8.1775, 9.2655, 12.0296



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.



12.9036, 16.2119, 29.2375



20.7590, 26.1502, 51.9269



8.3314, 7.0674, 27.7134



5.4552, 5.9062, 6.8813



9.2996, 11.5853, 24.7231



0.1056, 0.1441, 0.2419

Inverse Universe

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



15.9567, 9.0568, 18.9968



26.9468, 13.8705, 30.6737



18.3199, 18.6363, 4.8229



5.5732, 5.4898, 6.5167



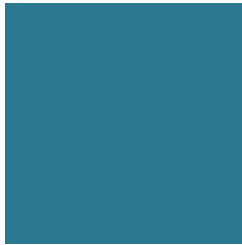
12.4971, 6.1559, 13.5352



0.1279, 0.0622, 0.1738

Previews

White Background



This preview shows how the XYZ color 12.9031, 16.2113, 29.2371 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 12.9031, 16.2113, 29.2371 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 12.9031, 16.2113, 29.2371

Background



This preview shows how black text looks on a background with the XYZ color 12.9031, 16.2113, 29.2371.

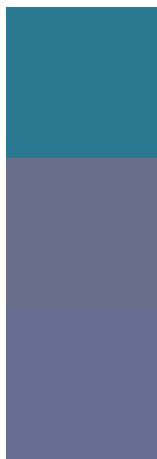


This preview shows how white text looks on a background with the XYZ color 12.9031, 16.2113,

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

12.9031, 16.2113, 29.2371

Protanopia

15.9170, 15.9613, 25.9088

Deuteranopia

16.5147, 16.1735, 30.2684



Tritanopia

11.9763, 16.1995, 24.6859

Trichromacy



Original Color

12.9031, 16.2113, 29.2371

Protanomaly

14.2306, 15.7219, 27.0955

Deuteranomaly

14.6771, 15.8905, 29.8974

Tritanomaly

12.2378, 16.1185, 26.1331

Monochromacy



Original Color

12.9031, 16.2113, 29.2371

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

11.7394, 13.6483, 18.5387

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9031, 16.2113, 29.2371 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(42, 121, 145)` looks like.

```
.text, #text, p{  
    color:rgb(42, 121, 145)  
}
```

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(42, 121, 145) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 121, 145) }
```

Border

The CSS property to change the border of an element to XYZ 12.9031, 16.2113, 29.2371 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(42, 121, 145) }
```


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

```
.border{ border-color:rgb(42, 121, 145) }
```

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

Here you see how a box with a 4 pixel `rgb(42, 121, 145)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 121, 145); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 121, 145);  
box-shadow:4px 4px 4px 4px rgb(42, 121,  
145) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9031, 16.2113, 29.2371 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 121, 145) }
```

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

```
.background{ background-color: rgb(42, 121,  
145) }
```

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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