

Converting Colors

XYZ(13.0019, 13.3414, 28.3666)

Have a look what the booklet for
XYZ(13.0019, 13.3414, 28.3666)
contains.

XYZ(12.9449, 13.2919, 28.2689)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.9449, 13.2919,
28.2689)**

Conversions

Conversions Part 1

Format	Color
Hex	4D6790
RGB	77, 103, 144
RGB Percent	30%, 40%, 56%
CMY	0.6980, 0.5961, 0.4353
CMYK	0.47, 0.28, 0.00, 0.44
HSL	217°, 30%, 43%
HSV	217°, 47%, 56%
XYZ	12.9449, 13.2919, 28.2689
YIQ	99.9000, -28.6570, 7.2390

Conversions

Conversions Part 2

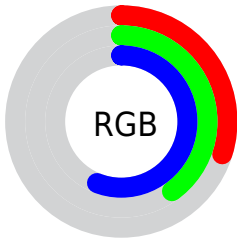
Format	Color
RYB	77, 96, 144
Decimal	5072784
CIELab	43.20, 2.08, -25.52
CIElCh	43, 25.605, 274.658
Yxy	13.2919, 0.2375, 0.2439
Android (android.graphics.Color)	4283262864 (0xFF4D6790)
YUV	99.9000, 21.7413, -20.0833
Hunter-Lab	36.4581, -0.4229, -20.4517

Details

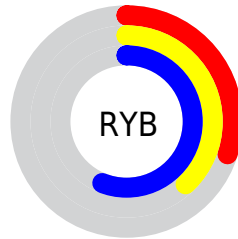
The XYZ color **12.9449, 13.2919, 28.2689** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **19.3201, 19.4227, 9.7525**, and the grayscale version is **12.0397, 12.6667, 13.7940**.

A 20% lighter version of the original color is **30.8019, 31.8555, 57.9514**, and **3.7666, 3.8129, 10.8934** is the 20% darker color. If you saturate the color by 10%, you get **11.0783, 11.0965, 27.9438**, and if you desaturate by 10%, it is **15.1620, 15.8056, 28.6375**.

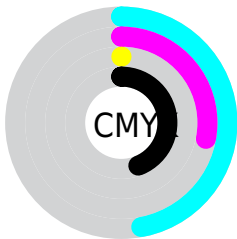
Distribution



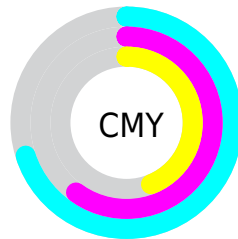
- Red (30%)
- Green (40%)
- Blue (56%)



- Red (30%)
- Yellow (38%)
- Blue (56%)



- Cyan (47%)
- Magenta (28%)
- Yellow (0%)
- Black (44%)



- Cyan (70%)
- Magenta (60%)
- Yellow (44%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9449, 13.2919, 28.2689 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 12.9449, 13.2919, 28.2689 by changing the saturation by 10% instead.

■ 12.9449, 13.2919,
28.2689

■ 12.9449, 13.2919,
28.2689

204.2090,
212.7800, 307.7019

■ 7.4674, 7.6299,
18.2877

■ 30.8069, 31.8272,
57.9417

■ 3.8050, 3.8590,
10.9851

■ 43.9221, 45.4693,
78.4704

■ 1.5924, 1.5950,
5.9428

■ 60.3139, 62.5401,
103.3519

■ 0.3875, 0.3542,
2.7421

■ 80.3476, 83.4241,
133.0049

■ 0.0000, 0.0000,
0.9645

■ 104.3886,
108.5058, 167.8478

■ 0.0000, 0.0000,
0.0000

132.8023,

138.1693, 208.2993

165.9539,
172.7993, 254.7778

■ 12.9449, 13.2919,
28.2689

■ 12.9449, 13.2919,
28.2689

■ 11.0783, 11.0965,
27.9438

■ 15.1620, 15.8056,
28.6375

■ 9.5409, 9.2035,
27.6594

■ 17.7467, 18.6498,
29.0502

■ 8.3109, 7.5975,
27.4143

■ 20.7162, 21.8375,
29.5090

■ 7.3628, 6.2606,
27.2062

■ 24.0866, 25.3806,
30.0153

■ 6.6576, 5.1678,
27.0324

■ 27.8727, 29.2904,
30.5704

■ 6.4424, 4.8303,
26.9786

■ 32.0886, 33.5777,
31.1757

■ 36.7480, 38.2528,
31.8325

■ 41.8635, 43.3256,
32.5421

■ 47.4475, 48.8055,
33.3055

Harmonies

Analogous

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



11.0747, 13.2919, 26.7166



12.9449, 13.2919, 28.2689



14.9220, 13.2919, 25.4076

Triad

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



12.9449, 13.2919, 28.2689



16.0271, 13.2919, 9.1203



9.4987, 13.2919, 10.2933

Complementary

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



12.9449, 13.2919, 28.2689



19.3201, 19.4227, 9.7525

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.



10.5919, 13.2919, 7.2350



12.9449, 13.2919, 28.2689



14.3323, 13.2919, 6.6921

Square

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



12.9449, 13.2919, 28.2689



16.8158, 13.2919, 13.6061



12.3272, 13.2919, 6.1049



9.2095, 13.2919, 15.3752

Rectangle

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



12.9449, 13.2919, 28.2689



15.9966, 13.2919, 21.7315



12.3272, 13.2919, 6.1049



9.7783, 13.2919, 9.0422

Sweetspot

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



12.9454, 13.2924, 28.2692



37.8065, 39.8595, 52.2391



16.2570, 22.8138, 20.4386



8.4155, 8.8713, 11.9410



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.



12.9454, 13.2924, 28.2692



19.3539, 19.3482, 49.2525



11.3179, 9.1931, 27.5637



5.2905, 5.5768, 6.8263



5.6317, 4.2494, 23.5005



0.0741, 0.0812, 0.2314

Inverse Universe

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



16.6041, 12.2169, 14.3154



26.8314, 17.8923, 20.5681



21.6790, 25.8264, 10.8642



5.4901, 5.4566, 6.0789



10.6457, 5.4153, 3.7857



0.1120, 0.0559, 0.0901

Previews

White Background



This preview shows how the XYZ color 12.9449, 13.2919, 28.2689 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 12.9449, 13.2919, 28.2689 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

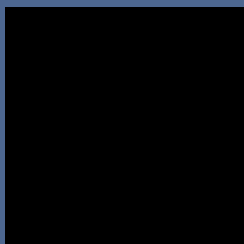
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

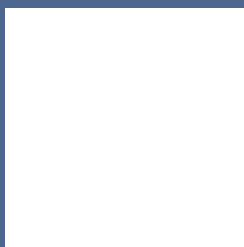
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.9449, 13.2919, 28.2689

Background



This preview shows how black text looks on a background with the XYZ color 12.9449, 13.2919, 28.2689.

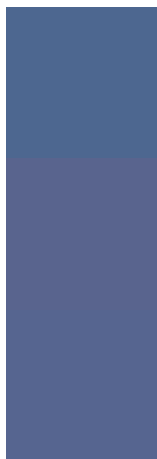


This preview shows how white text looks on a background with the XYZ color 12.9449, 13.2919,

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

12.9449, 13.2919, 28.2689

Protanopia

13.5595, 13.1912, 27.4227

Deuteranopia

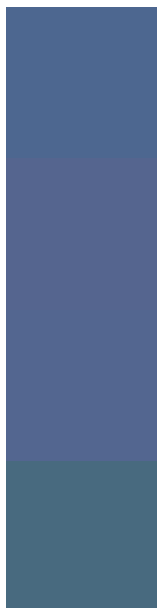
13.5255, 13.2994, 28.2397



Tritanopia

11.0277, 13.2747, 18.8107

Trichromacy



Original Color

12.9449, 13.2919, 28.2689

Protanomaly

13.3579, 13.2218, 27.8346

Deuteranomaly

13.3527, 13.3554, 28.2596

Tritanomaly

11.6573, 13.2181, 22.0156

Monochromacy



Original Color

12.9449, 13.2919, 28.2689

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

12.2197, 12.8436, 18.3580

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9449, 13.2919, 28.2689 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(77, 103, 144)` looks like.

```
.text, #text, p{  
    color:rgb(77, 103, 144)  
}
```

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(77, 103, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 103, 144) }
```

Border

The CSS property to change the border of an element to XYZ 12.9449, 13.2919, 28.2689 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(77, 103, 144) }
```


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

```
.border{ border-color:rgb(77, 103, 144) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 103, 144)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 103, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 103, 144);  
box-shadow:4px 4px 4px 4px rgb(77, 103,  
144) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9449, 13.2919, 28.2689 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 103, 144) }
```

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

```
.background{ background-color: rgb(77, 103,  
144) }
```

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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