

Converting Colors

XYZ(12.9777, 8.3899, 55.5801)

Have a look what the booklet for
XYZ(12.9777, 8.3899, 55.5801)
contains.

XYZ(12.9692, 8.3736, 55.5763)	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(12.9692, 8.3736,
55.5763)**

Conversions

Conversions Part 1

Format	Color
Hex	2042C8
RGB	32, 66, 200
RGB Percent	13%, 26%, 78%
CMY	0.8744, 0.7412, 0.2157
CMYK	0.84, 0.67, 0.00, 0.22
HSL	228°, 72%, 45%
HSV	228°, 84%, 78%
XYZ	12.9692, 8.3736, 55.5763
YIQ	71.1100, -63.2780, 34.4660

Conversions

Conversions Part 2

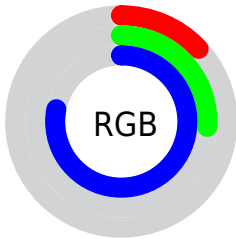
Format	Color
R _Y B	32, 60, 200
Decimal	2114248
CIE Lab	34.75, 38.67, -72.34
CIE LCh	35, 82.022, 298.125
Yxy	8.3736, 0.1686, 0.1089
Android (android.graphics.Color)	4280304328 (0xFF2042C8)
YUV	71.1100, 63.5428, -34.2995
Hunter-Lab	28.9372, 29.3609, -93.6155

Details

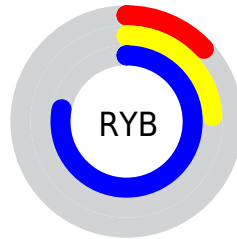
The XYZ color **12.9692, 8.3736, 55.5763** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark muted blue. A complement of this color would be **37.7204, 39.6636, 7.0355**, and the grayscale version is **5.9124, 6.2203, 6.7739**.

A 20% lighter version of the original color is **30.3740, 22.5058, 97.3509**, and **5.4375, 2.6976, 27.0222** is the 20% darker color. If you saturate the color by 10%, you get **11.7197, 6.5334, 55.2872**, and if you desaturate by 10%, it is **14.8562, 10.9281, 55.9702**.

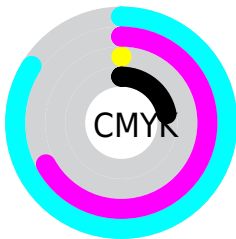
Distribution



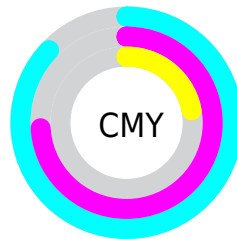
- Red (13%)
- Green (26%)
- Blue (78%)



- Red (13%)
- Yellow (24%)
- Blue (78%)



- Cyan (84%)
- Magenta (67%)
- Yellow (0%)
- Black (22%)



- Cyan (87%)
- Magenta (74%)
- Yellow (22%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9692, 8.3736, 55.5763 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 12.9692, 8.3736, 55.5763 by changing the saturation by 10% instead.

■ 12.9692, 8.3736,
55.5763

■ 12.9692, 8.3736,
55.5763

204.3618,
178.6337, 425.4361

■ 7.4842, 4.3349,
39.4616

■ 30.8502, 22.6877,
99.8644

■ 3.8157, 1.8626,
26.8084

■ 43.9770, 33.7318,
128.8749

■ 1.5984, 0.5258,
17.1982

■ 60.3816, 47.8799,
163.0211

■ 0.3914, 0.0000,
10.2125

■ 80.4296, 65.5164,
202.7215

■ 0.0000, 0.0000,
5.4326

■ 104.4863, 87.0256,
248.3947

■ 0.0000, 0.0000,
2.4401

■ 132.9169,

■ 0.0000, 0.0000,

112.7920, 300.4591

0.8082

166.0870,
143.1999, 359.3335

■ 0.0000, 0.0000,
0.0000

■ 12.9692, 8.3736,
55.5763

■ 12.9692, 8.3736,
55.5763

■ 11.7197, 6.5334,
55.2872

■ 14.8562, 10.9281,
55.9702

■ 11.1997, 5.7187,
55.1574

■ 17.4582, 14.2665,
56.4774

■ 20.8425, 18.4498,
57.1065

■ 25.0679, 23.5324,
57.8648

■ 30.1874, 29.5641,
58.7592

■ 36.2495, 36.5910,
59.7961

■ 43.2992, 44.6560,
60.9812

■ 51.3785, 53.7995,
62.3202

■ 60.5269, 64.0597,
63.8185

Harmonies

Analogous

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



7.6695, 8.3736, 66.2523



12.9692, 8.3736, 55.5763



18.2395, 8.3736, 30.4655

Triad

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



12.9692, 8.3736, 55.5763



13.6844, 8.3736, 0.0000



1.9453, 8.3736, 8.3041

Complementary

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



12.9692, 8.3736, 55.5763



37.7204, 39.6636, 7.0355

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.



2.5200, 8.3736, 1.1741



12.9692, 8.3736, 55.5763



8.2553, 8.3736, 0.0000

Square

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



12.9692, 8.3736, 55.5763



18.7534, 8.3736, 1.5849



4.4405, 8.3736, 0.0000



2.3864, 8.3736, 27.3323

Rectangle

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



12.9692, 8.3736, 55.5763



20.3282, 8.3736, 15.4767



4.4405, 8.3736, 0.0000



2.0192, 8.3736, 4.7936

Sweetspot

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



12.9697, 8.3738, 55.5766



61.2263, 61.5838, 103.2676



27.9157, 44.2822, 42.0109



12.2808, 12.2287, 21.9630



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



12.9697, 8.3738, 55.5766



19.2594, 9.6389, 95.4531



14.2181, 6.8928, 55.2249



10.2276, 10.6292, 13.4301



7.1730, 3.7399, 35.0882



0.3923, 0.2823, 1.6790

Inverse Universe

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



25.3199, 13.7067, 6.4652



41.8505, 21.5042, 5.1447



33.9402, 48.1277, 8.8685



10.7201, 10.6714, 11.5096



15.4199, 7.9175, 2.1553



0.7567, 0.3855, 0.2419

Previews

White Background



This preview shows how the XYZ color 12.9692, 8.3736, 55.5763 looks on a white background.

Color Contrast Check

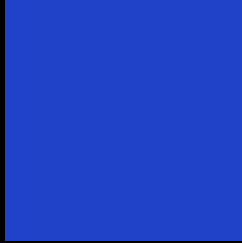
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the XYZ color 12.9692, 8.3736, 55.5763 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

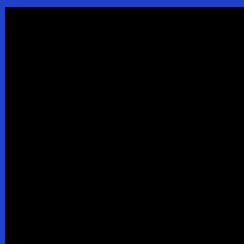
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9692, 8.3736, 55.5763

Background



This preview shows how black text looks on a background with the XYZ color 12.9692, 8.3736, 55.5763.



This preview shows how white text looks on a background with the XYZ color 12.9692, 8.3736,

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

12.9692, 8.3736, 55.5763

Protanopia

9.5159, 8.1654, 36.6718

Deuteranopia

7.9780, 8.2637, 26.3739



Tritanopia

5.7217, 8.1386, 12.0958

Trichromacy



Original Color

12.9692, 8.3736, 55.5763

Protanomaly

10.6363, 8.1901, 43.1397

Deuteranomaly

9.3271, 7.9946, 35.2339

Tritanomaly

7.3277, 7.6565, 23.2819

Monochromacy



Original Color

12.9692, 8.3736, 55.5763

Achromatopsia

5.9891, 6.3010, 6.8618

Achromatomaly

7.0855, 6.4341, 18.0080

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9692, 8.3736, 55.5763 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(32, 66, 200)` looks like.

```
.text, #text, p{  
    color:rgb(32, 66, 200)  
}
```

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(32, 66, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(32, 66, 200) }
```

Border

The CSS property to change the border of an element to XYZ 12.9692, 8.3736, 55.5763 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(32, 66, 200) }
```


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

```
.border{ border-color:rgb(32, 66, 200) }
```

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

Here you see how a box with a 4 pixel `rgb(32, 66, 200)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(32, 66, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(32, 66, 200);  
box-shadow:4px 4px 4px 4px rgb(32, 66,  
200) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9692, 8.3736, 55.5763 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(32, 66, 200) }
```

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

```
.background{ background-color: rgb(32, 66,  
200) }
```

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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