

Converting Colors

XYZ(28.6657, 52.1030, 13.6336)

Have a look what the booklet for
XYZ(28.6657, 52.1030, 13.6336)
contains.

XYZ(28.7691, 52.3216, 13.7370)	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(28.7691, 52.3216,
13.7370)**

Conversions

Conversions Part 1

Format	Color
Hex	45DB42
RGB	69, 219, 66
RGB Percent	27%, 86%, 26%
CMY	0.7294, 0.1412, 0.7412
CMYK	0.68, 0.00, 0.70, 0.14
HSL	119°, 68%, 56%
HSV	119°, 70%, 86%
XYZ	28.7691, 52.3216, 13.7370
YIQ	156.7080, -40.2870, -79.3830

Conversions

Conversions Part 2

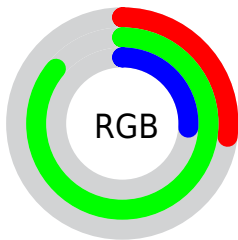
Format	Color
RYB	66, 219, 216
Decimal	4578114
CIELab	77.47, -67.19, 60.85
CIELCh	77, 90.648, 137.834
Yxy	52.3216, 0.3034, 0.5518
Android (android.graphics.Color)	4282768194 (0xFF45DB42)
YUV	156.7080, -44.7190, -76.9199
Hunter-Lab	72.3337, -55.5895, 39.3737

Details

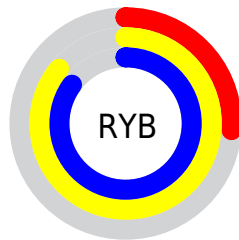
The XYZ color **28.7691, 52.3216, 13.7370** is a dark color, and the websafe version is hex **33CC33**. The color can be described as dark muted green. A complement of this color would be **43.0568, 23.6120, 69.3089**, and the grayscale version is **32.1252, 33.7982, 36.8063**.

A 20% lighter version of the original color is **49.4262, 78.1594, 30.8936**, and **13.0972, 26.1944, 4.3657** is the 20% darker color. If you saturate the color by 10%, you get **26.9860, 51.4648, 10.9046**, and if you desaturate by 10%, it is **31.3526, 53.5656, 17.8987**.

Distribution



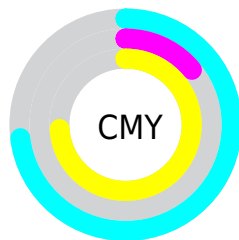
- Red (27%)
- Green (86%)
- Blue (26%)



- Red (26%)
- Yellow (86%)
- Blue (85%)



- Cyan (68%)
- Magenta (0%)
- Yellow (70%)
- Black (14%)





- Cyan (73%)
- Magenta (14%)
- Yellow (74%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 28.7691, 52.3216, 13.7370 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 28.7691, 52.3216, 13.7370 by changing the saturation by 10% instead.


 28.7691, 52.3216,
13.7370


 28.7691, 52.3216,
13.7370


288.1378,
395.6769, 226.9598


 19.0496, 37.2615,
7.8013


 57.1101, 93.6054,
33.3320

 11.8104, 25.4100,
3.8821


 76.4624, 120.5978,
47.8284


 6.6860, 16.3828,
1.5609


 99.7563, 152.3364,
66.0155

 3.3111, 9.7954,
0.2627

 127.3572,
189.2057, 88.3118

 1.3203, 5.2635,
0.0000

 159.6304,
231.5900, 115.1358

 0.1983, 2.4027,
0.0000

196.9414,

 0.0000, 0.8273,

279.8737, 146.9061

0.0000

239.6554,
334.4412, 184.0413

■ 0.0000, 0.0000,
0.0000

■ 28.7691, 52.3216,
13.7370

■ 28.7691, 52.3216,
13.7370

■ 26.9860, 51.4648,
10.9046

■ 31.3526, 53.5656,
17.8987

■ 25.9068, 50.9442,
9.2372

■ 34.8114, 55.2278,
23.5217


■ 25.3916, 50.6954,
8.4556


■ 39.2159, 57.3435,
30.7260

■ 25.3862, 50.6928,
8.4467


■ 44.6284, 59.9425,
39.6183

■ 51.1060, 63.0522,
50.2957

 58.7014, 66.6978,
62.8485

 67.4637, 70.9028,
77.3604

 77.4393, 75.6895,
93.9103

 84.6226, 79.1452,
105.4242

Harmonies

Analogous

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



40.1423, 52.3216, 5.7115



28.7691, 52.3216, 13.7370



23.6053, 52.3216, 39.0164

Triad

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



28.7691, 52.3216, 13.7370



42.9862, 52.3216, 212.0813



89.0158, 52.3216, 32.3089

Complementary

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



28.7691, 52.3216, 13.7370



43.0568, 23.6120, 69.3089

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.



90.2882, 52.3216, 79.7254



28.7691, 52.3216, 13.7370



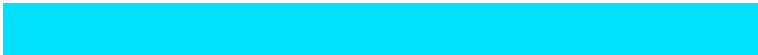
60.7346, 52.3216, 206.2269

Square

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



28.7691, 52.3216, 13.7370



30.4294, 52.3216, 162.0555



78.9890, 52.3216, 148.9332



75.8371, 52.3216, 11.2943

Rectangle

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



28.7691, 52.3216, 13.7370



23.3382, 52.3216, 71.1021



78.9890, 52.3216, 148.9332



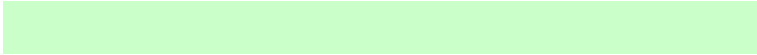
90.9456, 52.3216, 44.8456

Sweetspot

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



28.7703, 52.3238, 13.7382



70.8478, 88.3844, 68.8621



54.2205, 63.4987, 14.5538



14.5983, 18.6462, 13.8057



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.



28.7703, 52.3238, 13.7382



37.2386, 72.2364, 14.0599



32.1241, 53.6414, 32.4801



12.9100, 14.6183, 13.8668



15.0629, 30.0627, 5.0088



0.9843, 1.9520, 0.3249

Inverse Universe

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



43.0568, 23.6120, 69.3089



58.5502, 29.2655, 97.1706



36.4772, 21.0833, 30.0001



13.5879, 13.2612, 16.4956



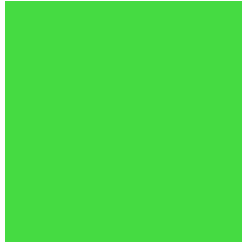
24.1604, 11.5793, 40.7000



1.5734, 0.7544, 2.6371

Previews

White Background



This preview shows how the XYZ color 28.7691, 52.3216, 13.7370 looks on a white 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

Black Background



This preview shows how the XYZ color 28.7691, 52.3216, 13.7370 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

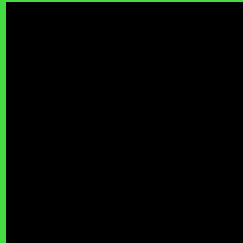
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 28.7691, 52.3216, 13.7370

Background



This preview shows how black text looks on a background with the XYZ color 28.7691, 52.3216, 13.7370.

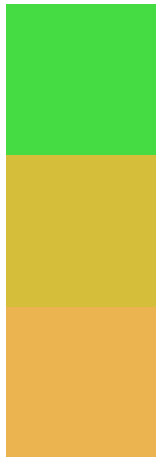


This preview shows how white text looks on a background with the XYZ color 28.7691, 52.3216,

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

28.7691, 52.3216, 13.7370

Protanopia

46.6177, 51.2785, 11.4437

Deuteranopia

52.0302, 50.8839, 14.6687



Tritanopia

41.3129, 52.1981, 76.3044

Trichromacy



Original Color

28.7691, 52.3216, 13.7370



Protanomaly

36.4269, 49.6873, 12.0856



Deuteranomaly

38.2410, 48.2055, 13.9457



Tritanomaly

34.5574, 51.2427, 43.6668

Monochromacy



Original Color

28.7691, 52.3216, 13.7370



Achromatopsia

32.0474, 33.7164, 36.7171



Achromatomaly

28.4168, 38.4577, 24.9941

CSS Examples

Text

The CSS property to change the color of the text to XYZ 28.7691, 52.3216, 13.7370 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(69, 219, 66)` looks like.

```
.text, #text, p{  
    color:rgb(69, 219, 66)  
}
```

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(69, 219, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 219, 66) }
```

Border

The CSS property to change the border of an element to XYZ 28.7691, 52.3216, 13.7370 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(69, 219, 66) }
```


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

```
.border{ border-color:rgb(69, 219, 66) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 219, 66)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 219, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 219, 66);  
box-shadow:4px 4px 4px 4px rgb(69, 219,  
66) }
```

Background

The CSS property to change the background color of an element to XYZ 28.7691, 52.3216, 13.7370 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 219, 66) }
```

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

```
.background{ background-color: rgb(69, 219,  
66) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor