

Converting Colors

XYZ(44.8712, 49.8872, 89.5384)

Have a look what the booklet for
XYZ(44.8712, 49.8872, 89.5384)
contains.

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Color

**XYZ(45.0116, 50.0257,
89.7216)**

Conversions

Conversions Part 1

Format	Color
Hex	87C2F0
RGB	135, 194, 240
RGB Percent	53%, 76%, 94%
CMY	0.4706, 0.2392, 0.0588
CMYK	0.44, 0.19, 0.00, 0.06
HSL	206°, 78%, 74%
HSV	206°, 44%, 94%
XYZ	45.0116, 50.0257, 89.7216
YIQ	181.6030, -49.9300, 1.7980

Conversions

Conversions Part 2

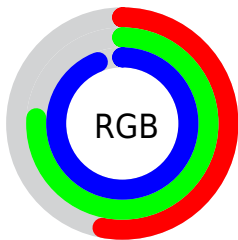
Format	Color
RYB	135, 173, 240
Decimal	8897264
CIELab	76.09, -7.19, -28.74
CIELCh	76, 29.621, 255.958
Yxy	50.0257, 0.2436, 0.2708
Android (android.graphics.Color)	4287087344 (0xFF87C2F0)
YUV	181.6030, 28.7897, -40.8708
Hunter-Lab	70.7288, -10.1787, -25.7009

Details

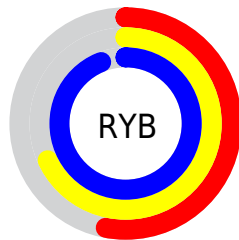
The XYZ color **45.0116, 50.0257, 89.7216** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **56.8334, 53.3236, 30.2204**, and the grayscale version is **44.1171, 46.4146, 50.5455**.

A 20% lighter version of the original color is **73.9738, 86.7977, 107.4625**, and **21.3185, 24.1301, 48.8814** is the 20% darker color. If you saturate the color by 10%, you get **39.3190, 43.7402, 88.8093**, and if you desaturate by 10%, it is **51.7434, 57.0948, 90.7322**.

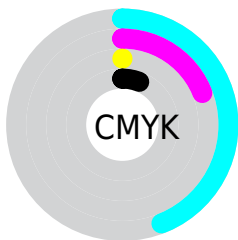
Distribution



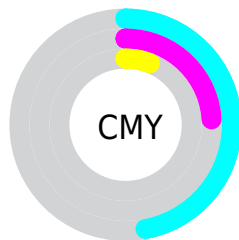
- Red (53%)
- Green (76%)
- Blue (94%)



- Red (53%)
- Yellow (68%)
- Blue (94%)



- Cyan (44%)
- Magenta (19%)
- Yellow (0%)
- Black (6%)



- Cyan (47%)
- Magenta (24%)
- Yellow (6%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 45.0116, 50.0257, 89.7216 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 45.0116, 50.0257, 89.7216 by changing the saturation by 10% instead.

■ 45.0116, 50.0257,
89.7216

■ 45.0116, 50.0257,
89.7216

357.6034,
386.7664, 547.6715

■ 31.6679, 35.4338,
67.1773

■ 81.9748, 90.2130,
148.8838

■ 21.2623, 23.9972,
48.7663

■ 106.3249,
116.5771, 186.3388

■ 13.4294, 15.3316,
34.0698

■ 135.0746,
147.6342, 229.6011

■ 7.8039, 9.0524,
22.6694

168.5892,
183.7685, 279.0893

■ 4.0205, 4.7754,
14.1466

207.2340,
225.3645, 335.2219

■ 1.7137, 2.1161,
8.0828

251.3744,

■ 0.4648, 0.6737,

272.8065, 398.4174

4.0594

301.3758,
326.4791, 469.0945

■ 0.0000, 0.0000,
1.6580

■ 0.0000, 0.0000,
0.3317

■ 45.0116, 50.0257,
89.7216

■ 45.0116, 50.0257,
89.7216

■ 39.3190, 43.7402,
88.8093

■ 51.7434, 57.0948,
90.7322

■ 34.5980, 38.1952,
87.9879

■ 59.5664, 64.9762,
91.8411

■ 30.7801, 33.3514,
87.2541

■ 68.5348, 73.7035,
93.0530

■ 27.7847, 29.1618,
86.6033

■ 78.6977, 83.3066,
94.3709

■ 25.5141, 25.5704,
86.0298

■ 90.0990, 93.8127,
95.7979

■ 24.3727, 23.5800,
85.7058

■ 92.7283, 99.0713,
96.6743

Harmonies

Analogous

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



40.5249, 50.0257, 79.4551



45.0116, 50.0257, 89.7216



50.5352, 50.0257, 89.3540

Triad

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



45.0116, 50.0257, 89.7216



58.5348, 50.0257, 46.5100



40.2990, 50.0257, 35.9055

Complementary

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



45.0116, 50.0257, 89.7216



56.8334, 53.3236, 30.2204

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.



44.6808, 50.0257, 30.1010



45.0116, 50.0257, 89.7216



55.3388, 50.0257, 35.3621

Square

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



45.0116, 50.0257, 89.7216



58.6407, 50.0257, 62.2064



50.1778, 50.0257, 29.9236



37.9504, 50.0257, 47.4023

Rectangle

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



45.0116, 50.0257, 89.7216



54.0767, 50.0257, 83.0614



50.1778, 50.0257, 29.9236



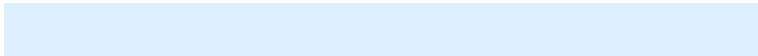
41.5670, 50.0257, 33.3311

Sweetspot

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



45.0132, 50.0276, 89.7228



79.4291, 85.3275, 106.8912



49.4424, 70.7879, 54.5068



16.4838, 17.7672, 22.8106



0.0000, 0.0000, 0.0000



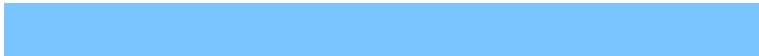
20.3446, 21.4041, 23.3091

Same Dimension

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



45.0132, 50.0276, 89.7228



46.0784, 51.2781, 102.0768



35.3944, 30.7899, 86.5165



15.6342, 16.7024, 20.1215



13.4767, 13.1776, 46.9611



1.2200, 1.2940, 3.9397

Inverse Universe

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



54.3381, 39.7499, 55.8494



58.3164, 39.3046, 57.2817



69.4484, 78.5535, 34.4254



16.1448, 15.9076, 18.3186



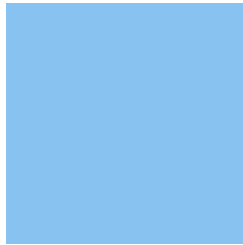
22.1280, 11.1236, 13.8567



1.8908, 0.9453, 1.4156

Previews

White Background



This preview shows how the XYZ color 45.0116, 50.0257, 89.7216 looks on a white background.

Color Contrast Check

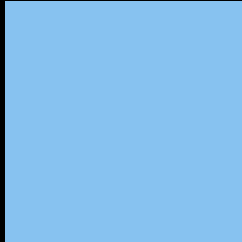
Large Text (above 18pt) WCAG AA × Fail

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 45.0116, 50.0257, 89.7216 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 45.0116, 50.0257, 89.7216

Background



This preview shows how black text looks on a background with the XYZ color 45.0116, 50.0257, 89.7216.



This preview shows how white text looks on a background with the XYZ color 45.0116, 50.0257,

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

45.0116, 50.0257, 89.7216

Protanopia

49.8794, 49.7524, 84.8161

Deuteranopia

50.8467, 49.8057, 90.9380



Tritanopia

41.2338, 49.8324, 71.0637

Trichromacy



Original Color

45.0116, 50.0257, 89.7216

Protanomaly

47.6207, 49.4962, 86.4007

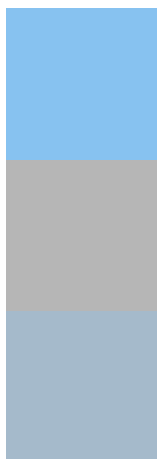
Deuteranomaly

48.3576, 49.7909, 90.2810

Tritanomaly

42.6456, 50.0855, 77.2318

Monochromacy



Original Color

45.0116, 50.0257, 89.7216

Achromatopsia

44.4628, 46.7784, 50.9417

Achromatomaly

43.8554, 47.4289, 63.3432

CSS Examples

Text

The CSS property to change the color of the text to XYZ 45.0116, 50.0257, 89.7216 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(135, 194, 240)` looks like.

```
.text, #text, p{  
    color:rgb(135, 194, 240)  
}
```

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(135, 194, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 194, 240) }
```

Border

The CSS property to change the border of an element to XYZ 45.0116, 50.0257, 89.7216 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(135, 194, 240) }
```


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

```
.border{ border-color:rgb(135, 194, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 194, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 194, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 194, 240);  
box-shadow:4px 4px 4px 4px rgb(135, 194,  
240) }
```

Background

The CSS property to change the background color of an element to XYZ 45.0116, 50.0257, 89.7216 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 194, 240) }
```

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

```
.background{ background-color: rgb(135,  
194, 240) }
```

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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