

Converting Colors

XYZ(42.8706, 45.7326, 89.0063)

Have a look what the booklet for
XYZ(42.8706, 45.7326, 89.0063)
contains.

XYZ(42.8603, 45.7231, 89.0045)	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(42.8603, 45.7231,
89.0045)**

Conversions

Conversions Part 1

Format	Color
Hex	87B8F0
RGB	135, 184, 240
RGB Percent	53%, 72%, 94%
CMY	0.4706, 0.2784, 0.0588
CMYK	0.44, 0.23, 0.00, 0.06
HSL	212°, 78%, 74%
HSV	212°, 44%, 94%
XYZ	42.8603, 45.7231, 89.0045
YIQ	175.7330, -47.1800, 7.0280

Conversions

Conversions Part 2

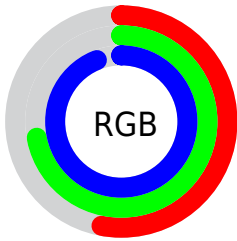
Format	Color
RYB	135, 168, 240
Decimal	8894704
CIELab	73.37, -1.78, -32.92
CIELCh	73, 32.972, 266.913
Yxy	45.7231, 0.2413, 0.2575
Android (android.graphics.Color)	4287084784 (0xFF87B8F0)
YUV	175.7330, 31.6836, -35.7228
Hunter-Lab	67.6189, -5.1905, -30.7083

Details

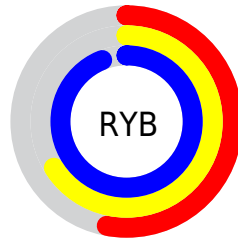
The XYZ color **42.8603, 45.7231, 89.0045** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **58.9404, 57.5376, 30.9227**, and the grayscale version is **40.9871, 43.1216, 46.9594**.

A 20% lighter version of the original color is **70.9483, 80.7466, 106.4540**, and **19.9925, 21.3556, 48.4157** is the 20% darker color. If you saturate the color by 10%, you get **36.8857, 38.8737, 87.9982**, and if you desaturate by 10%, it is **49.9489, 53.5058, 90.1340**.

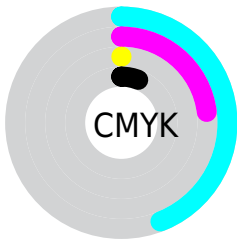
Distribution



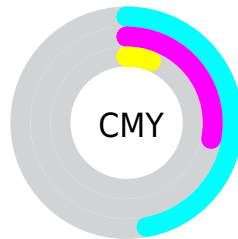
- Red (53%)
- Green (72%)
- Blue (94%)



- Red (53%)
- Yellow (66%)
- Blue (94%)



- Cyan (44%)
- Magenta (23%)
- Yellow (0%)
- Black (6%)



- Cyan (47%)
- Magenta (28%)
- Yellow (6%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 42.8603, 45.7231, 89.0045 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 42.8603, 45.7231, 89.0045 by changing the saturation by 10% instead.

■ 42.8603, 45.7231,
89.0045

■ 42.8603, 45.7231,
89.0045

348.9682,
369.6943, 545.2735

■ 29.9696, 32.0274,
66.5862

■ 78.7570, 83.8044,
147.8782

■ 19.9634, 21.3824,
48.2890

■ 102.4937,
108.9588, 185.1708

■ 12.4766, 13.4038,
33.6942

■ 130.5765,
138.7016, 228.2585

■ 7.1436, 7.7072,
22.3833

163.3706,
173.4171, 277.5599

■ 3.5992, 3.9082,
13.9378

201.2415,
213.4897, 333.4936

■ 1.4780, 1.6223,
7.9392

244.5545,

■ 0.3108, 0.3726,

259.3038, 396.4780

3.9688

293.6749,
311.2439, 466.9318

■ 0.0000, 0.0000,
1.6083

■ 0.0000, 0.0000,
0.2967

■ 42.8603, 45.7231,
89.0045

■ 42.8603, 45.7231,
89.0045

■ 36.8857, 38.8737,
87.9982

■ 49.9489, 53.5058,
90.1340

■ 31.9549, 32.9092,
87.1068

■ 58.2066, 62.2566,
91.3878

■ 27.9963, 27.7838,
86.3261

■ 67.6903, 72.0144,
92.7714

■ 24.9257, 23.4438,
85.6503

■ 78.4515, 82.8141,
94.2888

■ 22.6422, 19.8265,
85.0724

■ 90.5367, 94.6881,
95.9437

■ 21.5226, 17.8798,
84.7557

■ 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.



37.6465, 45.7231, 81.6511



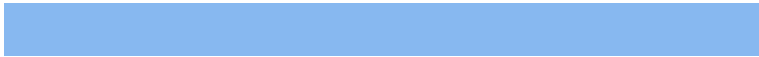
42.8603, 45.7231, 89.0045



48.7081, 45.7231, 84.0679

Triad

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



42.8603, 45.7231, 89.0045



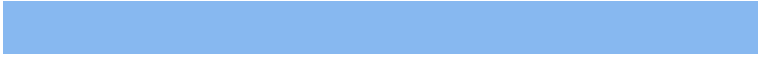
54.1884, 45.7231, 36.6739



34.7628, 45.7231, 34.2959

Complementary

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



42.8603, 45.7231, 89.0045



58.9404, 57.5376, 30.9227

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.



38.6002, 45.7231, 26.3777



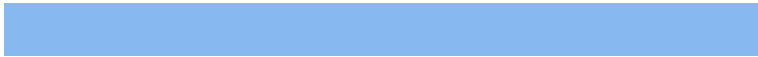
42.8603, 45.7231, 89.0045



49.8397, 45.7231, 27.5206

Square

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



42.8603, 45.7231, 89.0045



55.5817, 45.7231, 51.5255



44.0621, 45.7231, 24.2041



33.2402, 45.7231, 48.0835

Rectangle

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



42.8603, 45.7231, 89.0045



52.1288, 45.7231, 74.9642



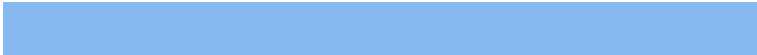
44.0621, 45.7231, 24.2041



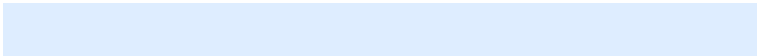
35.8071, 45.7231, 30.9881

Sweetspot

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



42.8618, 45.7248, 89.0056



78.5052, 83.4798, 106.5833



50.3656, 71.1572, 59.3682



16.2560, 17.3116, 22.7346



0.0000, 0.0000, 0.0000



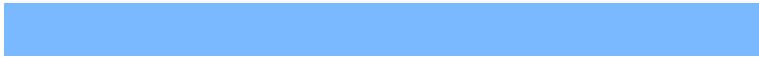
20.3446, 21.4041, 23.3091

Same Dimension

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



42.8618, 45.7248, 89.0056



43.3315, 45.7843, 101.1612



34.6693, 28.9182, 86.1934



15.5054, 16.4448, 20.0786



11.9121, 10.0485, 46.4396



1.0897, 1.0333, 3.8962

Inverse Universe

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



53.2522, 39.3155, 50.1310



56.9299, 38.7500, 49.9804



70.8782, 82.2908, 35.0714



16.0798, 15.8816, 17.9763



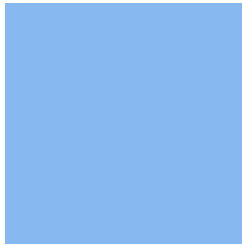
21.3383, 10.8078, 9.6981



1.8250, 0.9190, 1.0691

Previews

White Background



This preview shows how the XYZ color 42.8603, 45.7231, 89.0045 looks on a white background.

Color Contrast Check

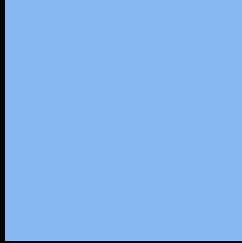
Large Text (above 18pt) WCAG AA × Fail

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 42.8603, 45.7231, 89.0045 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

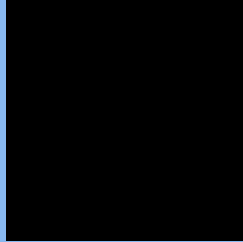
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

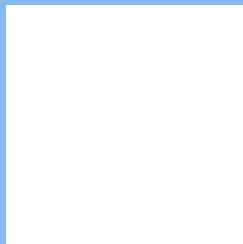
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 42.8603, 45.7231, 89.0045

Background



This preview shows how black text looks on a background with the XYZ color 42.8603, 45.7231, 89.0045.



This preview shows how white text looks on a background with the XYZ color 42.8603, 45.7231,

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

42.8603, 45.7231, 89.0045

Protanopia

46.0274, 45.3350, 84.9219

Deuteranopia

46.6494, 45.5365, 90.3351



Tritanopia

38.0115, 45.6431, 65.1991

Trichromacy



Original Color

42.8603, 45.7231, 89.0045

Protanomaly

44.7442, 45.5292, 86.5505

Deuteranomaly

45.1473, 45.6688, 89.6545

Tritanomaly

39.6914, 45.6955, 73.0578

Monochromacy



Original Color

42.8603, 45.7231, 89.0045

Achromatopsia

41.2663, 43.4154, 47.2793

Achromatomaly

41.1268, 43.9408, 60.3466

CSS Examples

Text

The CSS property to change the color of the text to XYZ 42.8603, 45.7231, 89.0045 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, 184, 240)` looks like.

```
.text, #text, p{  
    color:rgb(135, 184, 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, 184, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 184, 240) }
```

Border

The CSS property to change the border of an element to XYZ 42.8603, 45.7231, 89.0045 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, 184, 240) }
```


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

```
.border{ border-color:rgb(135, 184, 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, 184, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 184, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 184, 240);  
box-shadow:4px 4px 4px 4px rgb(135, 184,  
240) }
```

Background

The CSS property to change the background color of an element to XYZ 42.8603, 45.7231, 89.0045 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 184, 240) }
```

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

```
.background{ background-color: rgb(135,  
184, 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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