

Converting Colors

XYZ(49.0677, 23.5703, 80.2583)

Have a look what the booklet for
XYZ(49.0677, 23.5703, 80.2583)
contains.

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Color

**XYZ(49.2563, 23.6603,
80.5681)**

Conversions

Conversions Part 1

Format	Color
Hex	EB00EB
RGB	235, 0, 235
RGB Percent	92%, 0%, 92%
CMY	0.0784, 0.9999, 0.0784
CMYK	0.00, 1.00, 0.00, 0.08
HSL	300°, 100%, 46%
HSV	300°, 100%, 92%
XYZ	49.2563, 23.6603, 80.5681
YIQ	97.0550, 64.6250, 122.9050

Conversions

Conversions Part 2

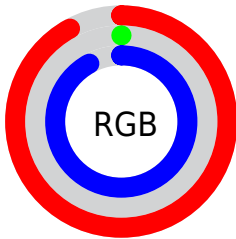
Format	Color
R _Y B	235, 0, 235
Decimal	15401195
CIE Lab	55.75, 92.37, -57.20
CIE LCh	56, 108.641, 328.232
Yxy	23.6603, 0.3209, 0.1542
Android (android.graphics.Color)	4293591275 (0xFFEB00EB)
YUV	97.0550, 68.0069, 120.9778
Hunter-Lab	48.6419, 95.6316, -64.1559

Details

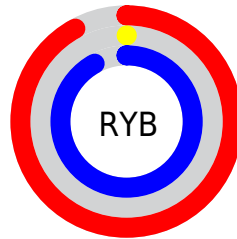
The XYZ color **49.2563, 23.6603, 80.5681** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **29.7094, 59.4178, 9.9040**, and the grayscale version is **11.2086, 11.7924, 12.8419**.

A 20% lighter version of the original color is **63.9437, 37.7874, 98.5312**, and **25.4914, 12.2130, 43.1333** is the 20% darker color. If you saturate the color by 10%, you get **49.2569, 23.6606, 80.5684**, and if you desaturate by 10%, it is **49.5741, 24.2950, 80.6742**.

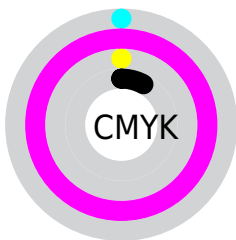
Distribution



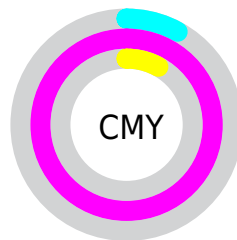
- Red (92%)
- Green (0%)
- Blue (92%)



- Red (92%)
- Yellow (0%)
- Blue (92%)



- Cyan (0%)
- Magenta (100%)
- Yellow (0%)
- Black (8%)





- Cyan (8%)
- Magenta (100%)
- Yellow (8%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.2563, 23.6603, 80.5681 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 49.2563, 23.6603, 80.5681 by changing the saturation by 10% instead.

 49.2563, 23.6603,
80.5681

 49.2563, 23.6603,
80.5681


374.2507,
271.0985, 516.6025


 35.0382, 15.0818,
59.6570


 88.2704, 49.4753,
135.9828


 23.8590, 8.8768,
42.7188


 113.7972, 67.4806,
171.3234


 15.3532, 4.6609,
29.3348


 143.8242, 89.3970,
212.3111

 9.1556, 2.0497,
19.0864

 178.7168,
115.6088, 259.3642

 4.9007, 0.6361,
11.5553

 218.8404,
146.5005, 312.9014

 2.2233, 0.0000,
6.3228

264.5604,

 0.7550, 0.0000,

182.4564, 373.3411

2.9704

316.2420,
223.8609, 441.1020

■ 0.0000, 0.0000,
1.0795

■ 0.0000, 0.0000,
0.0000

■ 49.2563, 23.6603,
80.5681

■ 49.2563, 23.6603,
80.5681

■ 49.2569, 23.6606,
80.5684

■ 49.5741, 24.2950,
80.6742

■ 50.2749, 25.6967,
80.9079

■ 51.4809, 28.1085,
81.3100

■ 53.2630, 31.6728,
81.9041

■ 55.6811, 36.5090,
82.7102

■ 58.7875, 42.7217,
83.7457

■ 62.6290, 50.4047,
85.0263

■ 67.2484, 59.6436,
86.5662

■ 72.6853, 70.5173,
88.3785

Harmonies

Analogous

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



35.6666, 23.6603, 143.7739



49.2563, 23.6603, 80.5681



55.4700, 23.6603, 27.9129

Triad

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



49.2563, 23.6603, 80.5681



23.2274, 23.6603, 0.0000



7.4033, 23.6603, 73.0593

Complementary

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



49.2563, 23.6603, 80.5681



29.7094, 59.4178, 9.9040

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.



6.1435, 23.6603, 23.7246



49.2563, 23.6603, 80.5681



13.0367, 23.6603, 0.0278

Square

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



49.2563, 23.6603, 80.5681



37.4164, 23.6603, 0.2620



7.7574, 23.6603, 4.0031



12.1761, 23.6603, 137.2869

Rectangle

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



49.2563, 23.6603, 80.5681



53.3460, 23.6603, 9.8261



7.7574, 23.6603, 4.0031



6.6532, 23.6603, 53.3693

Sweetspot

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



49.2573, 23.6614, 80.5686



75.3100, 60.5201, 102.3198



14.9965, 5.9993, 78.9659



15.6777, 12.0703, 21.7534



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.



49.2573, 23.6614, 80.5686



59.2898, 28.4799, 96.9791



37.5033, 18.9598, 18.6732



15.7149, 15.3138, 19.0498



27.4133, 13.1680, 44.8394



2.1526, 1.0340, 3.5210

Inverse Universe

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



49.2573, 23.6614, 80.5686



59.2898, 28.4799, 96.9791



32.9507, 60.7143, 26.9725



15.7149, 15.3138, 19.0498



27.4133, 13.1680, 44.8394



2.1526, 1.0340, 3.5210

Previews

White Background



This preview shows how the XYZ color 49.2563, 23.6603, 80.5681 looks on a white background.

Color Contrast Check

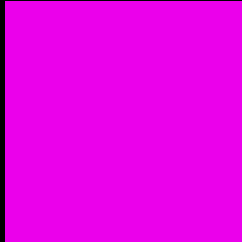
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 49.2563, 23.6603, 80.5681 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

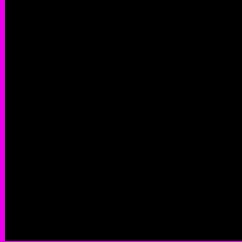
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 49.2563, 23.6603, 80.5681

Background



This preview shows how black text looks on a background with the XYZ color 49.2563, 23.6603, 80.5681.



This preview shows how white text looks on a background with the XYZ color 49.2563, 23.6603,

80.5681.

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

49.2563, 23.6603, 80.5681

Protanopia

28.2807, 24.5426, 97.8544

Deuteranopia

25.1085, 24.2977, 71.7732



Tritanopia

35.5470, 23.7518, 14.2663

Trichromacy



Original Color

49.2563, 23.6603, 80.5681



Protanomaly

28.6407, 17.3994, 90.6558



Deuteranomaly

27.3718, 17.4649, 73.8799



Tritanomaly

37.9606, 21.2736, 30.1224

Monochromacy



Original Color

49.2563, 23.6603, 80.5681



Achromatopsia

11.3621, 11.9538, 13.0177



Achromatomaly

19.0217, 11.7549, 28.8701

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.2563, 23.6603, 80.5681 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(235, 0, 235)` looks like.

```
.text, #text, p{  
    color:rgb(235, 0, 235)  
}
```

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(235, 0, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 0, 235) }
```

Border

The CSS property to change the border of an element to XYZ 49.2563, 23.6603, 80.5681 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(235, 0, 235) }
```


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

```
.border{ border-color:rgb(235, 0, 235) }
```

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

Here you see how a box with a 4 pixel rgb(235, 0, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 0, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 0, 235);  
box-shadow:4px 4px 4px 4px rgb(235, 0,  
235) }
```

Background

The CSS property to change the background color of an element to XYZ 49.2563, 23.6603, 80.5681 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 0, 235) }
```

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

```
.background{ background-color: rgb(235, 0,  
235) }
```

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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