

Converting Colors

XYZ(49.3218, 23.7690, 77.1850)

Have a look what the booklet for
XYZ(49.3218, 23.7690, 77.1850)
contains.

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Color

**XYZ(49.2080, 23.7177,
76.8473)**

Conversions

Conversions Part 1

Format	Color
Hex	ED00E6
RGB	237, 0, 230
RGB Percent	93%, 0%, 90%
CMY	0.0706, 0.9998, 0.0980
CMYK	0.00, 1.00, 0.03, 0.07
HSL	302°, 100%, 46%
HSV	302°, 100%, 93%
XYZ	49.2080, 23.7177, 76.8473
YIQ	97.0830, 67.4220, 121.7740

Conversions

Conversions Part 2

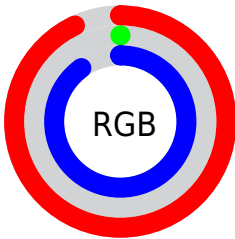
Format	Color
R _Y B	237, 0, 230
Decimal	15532262
CIE Lab	55.80, 91.98, -54.27
CIE LCh	56, 106.800, 329.461
Yxy	23.7177, 0.3286, 0.1584
Android (android.graphics.Color)	4293722342 (0xFFED00E6)
YUV	97.0830, 65.5281, 122.7072
Hunter-Lab	48.7008, 95.1325, -59.4659

Details

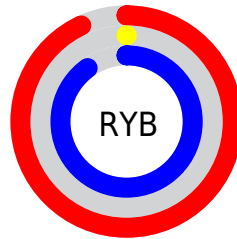
The XYZ color **49.2080, 23.7177, 76.8473** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **30.3237, 60.5849, 10.2980**, and the grayscale version is **11.2211, 11.8055, 12.8561**.

A 20% lighter version of the original color is **63.9437, 37.7874, 98.5312**, and **25.5445, 12.2861, 41.0695** is the 20% darker color. If you saturate the color by 10%, you get **49.2084, 23.7179, 76.8468**, and if you desaturate by 10%, it is **49.6284, 24.4000, 77.4737**.

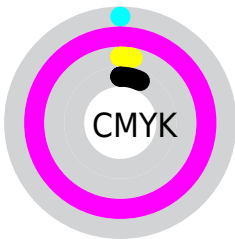
Distribution



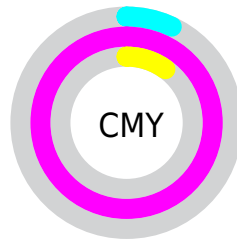
- Red (93%)
- Green (0%)
- Blue (90%)



- Red (93%)
- Yellow (0%)
- Blue (90%)



- Cyan (0%)
- Magenta (100%)
- Yellow (3%)
- Black (7%)




- Cyan (7%)
- Magenta (100%)
- Yellow (10%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.2080, 23.7177, 76.8473 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 49.2080, 23.7177, 76.8473 by changing the saturation by 10% instead.

 49.2080, 23.7177,
76.8473


 49.2080, 23.7177,
76.8473


374.0640,
271.3901, 503.6671


 34.9997, 15.1243,
56.6167


 88.1992, 49.5691,
130.6949

 23.8292, 8.9067,
40.2903


 113.7128, 67.5960,
165.1491


 15.3310, 4.6804,
27.4495


 143.7255, 89.5362,
205.1816

 9.1398, 2.0610,
17.6757

 178.6028,
115.7740, 251.2109

 4.8904, 0.6425,
10.5503

 218.7099,
146.6939, 303.6555

 2.2172, 0.0000,
5.6550

264.4122,

 0.7518, 0.0000,

182.6803, 362.9341

2.5711

316.0751,
224.1176, 429.4651

■ 0.0000, 0.0000,
0.8775

■ 0.0000, 0.0000,
0.0000

■ 49.2080, 23.7177,
76.8473

■ 49.2080, 23.7177,
76.8473

■ 49.2084, 23.7179,
76.8468

■ 49.6284, 24.4000,
77.4737

■ 50.4402, 25.8653,
78.2325

■ 51.7675, 28.3610,
79.1650

■ 53.6830, 32.0322,
80.2955

■ 56.2475, 37.0011,
81.6443

■ 59.5146, 43.3745,
83.2293

■ 63.5322, 51.2480,
85.0664

■ 68.3438, 60.7092,
87.1701

■ 73.9899, 71.8386,
89.5540

Harmonies

Analogous

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



36.0788, 23.7177, 138.6715



49.2080, 23.7177, 76.8473



54.8571, 23.7177, 26.4587

Triad

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



49.2080, 23.7177, 76.8473



22.7633, 23.7177, 0.0000



7.7173, 23.7177, 74.6152

Complementary

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



49.2080, 23.7177, 76.8473



30.3237, 60.5849, 10.2980

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.



6.3332, 23.7177, 25.2006



49.2080, 23.7177, 76.8473



12.9030, 23.7177, 0.2254

Square

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



49.2080, 23.7177, 76.8473



36.6018, 23.7177, 0.2957



7.8253, 23.7177, 4.5753



12.6425, 23.7177, 136.7515

Rectangle

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



49.2080, 23.7177, 76.8473



52.4820, 23.7177, 9.3444



7.8253, 23.7177, 4.5753



6.9220, 23.7177, 55.1041

Sweetspot

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



49.2090, 23.7188, 76.8478



74.9482, 60.3754, 100.4147



15.3366, 6.1411, 80.4989



15.5895, 12.0350, 21.2887



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.



49.2090, 23.7188, 76.8478



58.1005, 28.0042, 90.7162



37.9959, 19.2336, 17.8004



15.6945, 15.3056, 18.9424



26.8747, 12.9526, 42.0029



2.1164, 1.0195, 3.3303

Inverse Universe

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



49.2090, 23.7188, 76.8478



58.1005, 28.0042, 90.7162



33.8272, 61.9863, 28.7470



15.6945, 15.3056, 18.9424



26.8747, 12.9526, 42.0029



2.1164, 1.0195, 3.3303

Previews

White Background



This preview shows how the XYZ color 49.2080, 23.7177, 76.8473 looks on a white background.

Color Contrast Check

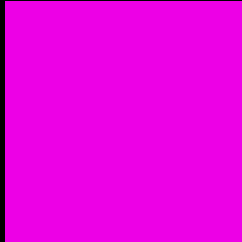
Large Text (above 18pt) WCAG AA ✓ Pass

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 49.2080, 23.7177, 76.8473 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

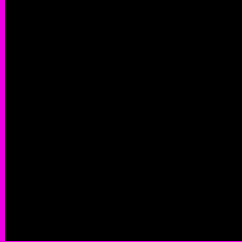
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 49.2080, 23.7177, 76.8473

Background



This preview shows how black text looks on a background with the XYZ color 49.2080, 23.7177, 76.8473.



This preview shows how white text looks on a background with the XYZ color 49.2080, 23.7177,

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

49.2080, 23.7177, 76.8473

Protanopia

28.3463, 24.5764, 97.8575

Deuteranopia

25.0831, 24.3605, 68.3458



Tritanopia

36.1989, 23.8448, 13.7610

Trichromacy



Original Color

49.2080, 23.7177, 76.8473



Protanomaly

28.6299, 17.4295, 89.0441



Deuteranomaly

27.5343, 17.6268, 70.3577



Tritanomaly

38.5689, 21.4646, 28.8983

Monochromacy



Original Color

49.2080, 23.7177, 76.8473



Achromatopsia

11.3621, 11.9538, 13.0177



Achromatomaly

19.0462, 11.7855, 28.0590

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.2080, 23.7177, 76.8473 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(237, 0, 230)` looks like.

```
.text, #text, p{  
    color:rgb(237, 0, 230)  
}
```

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(237, 0, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 0, 230) }
```

Border

The CSS property to change the border of an element to XYZ 49.2080, 23.7177, 76.8473 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(237, 0, 230) }
```


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

```
.border{ border-color:rgb(237, 0, 230) }
```

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

Here you see how a box with a 4 pixel rgb(237, 0, 230) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 0, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 0, 230);  
box-shadow:4px 4px 4px 4px rgb(237, 0,  
230) }
```

Background

The CSS property to change the background color of an element to XYZ 49.2080, 23.7177, 76.8473 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 0, 230) }
```

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

```
.background{ background-color: rgb(237, 0,  
230) }
```

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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