

# Converting Colors

XYZ(46.2040, 23.7346, 26.5625)

Have a look what the booklet for  
XYZ(46.2040, 23.7346, 26.5625)  
contains.

<b>XYZ(46.2066, 23.7369, 26.5724)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(46.2066, 23.7369,  
26.5724)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF178B
RGB	255, 23, 139
RGB Percent	100%, 9%, 55%
CMY	0.0000, 0.9097, 0.4549
CMYK	0.00, 0.91, 0.45, 0.00
HSL	330°, 100%, 55%
HSV	330°, 91%, 100%
XYZ	46.2066, 23.7369, 26.5724
YIQ	105.5920, 101.0360, 85.2600

# Conversions

## Conversions Part 2

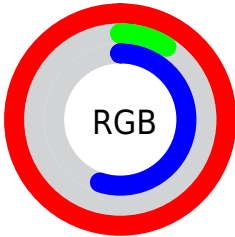
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 23, 139
Decimal	16717707
CIE Lab	55.82, 83.57, -1.15
CIE LCh	56, 83.575, 359.211
Yxy	23.7369, 0.4787, 0.2459
Android (android.graphics.Color)	4294907787 (0xFFFF178B)
YUV	105.5920, 16.4701, 131.0308
Hunter-Lab	48.7205, 84.0287, 1.7673

# Details

The XYZ color **46.2066, 23.7369, 26.5724** is a dark color, and the websafe version is hex **FF3399**. The color can be described as middle washed rose. A complement of this color would be **40.7769, 73.5676, 36.4908**, and the grayscale version is **13.5306, 14.2353, 15.5022**.

A 20% lighter version of the original color is **55.8060, 35.1689, 53.7162**, and **23.5414, 11.9277, 10.5127** is the 20% darker color. If you saturate the color by 10%, you get **45.1020, 22.8048, 22.2677**, and if you desaturate by 10%, it is **47.9662, 25.6769, 32.0275**.

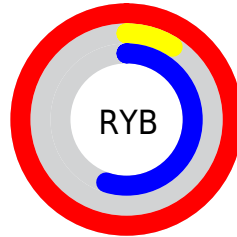
# Distribution



Red (100%)

Green (9%)

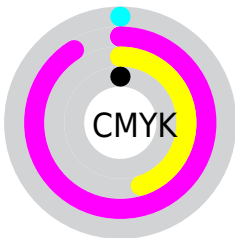
Blue (55%)



Red (100%)

Yellow (9%)

Blue (55%)

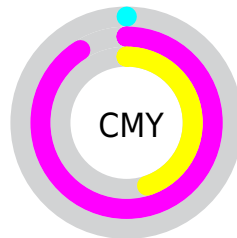


Cyan (0%)

Magenta (91%)

Yellow (45%)

Black (0%)



Cyan (0%)

Magenta (91%)


Yellow (45%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.2066, 23.7369, 26.5724 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 46.2066, 23.7369, 26.5724 by changing the saturation by 10% instead.



 46.2066, 23.7369,  
26.5724


 46.2066, 23.7369,  
26.5724


362.3407,  
271.4876, 299.2751


 32.6142, 15.1386,  
17.0227


 83.7541, 49.6005,  
55.1923


 21.9889, 8.9167,  
10.0886


 108.4399, 67.6346,  
75.0997


 13.9653, 4.6869,  
5.3514


 137.5542, 89.5827,  
99.2966

 8.1781, 2.0647,  
2.3925

 171.4623,  
115.8292, 128.2018

 4.2619, 0.6447,  
0.7824

 210.5297,  
146.7586, 162.2337

 1.8513, 0.0000,  
0.0000

255.1216,

 0.5483, 0.0000,

182.7552, 201.8109

0.0000

305.6035,  
224.2034, 247.3518

■ 0.0000, 0.0000,  
0.0000

■ 46.2066, 23.7369,  
26.5724

■ 46.2066, 23.7369,  
26.5724

■ 45.1020, 22.8048,  
22.2677

■ 47.9662, 25.6769,  
32.0275

■ 50.4376, 28.8610,  
38.2735

■ 53.7141, 33.4702,  
45.3583

■ 57.8733, 39.6545,  
53.3237

■ 62.9830, 47.5447,  
62.2076

■ 69.1041, 57.2576,  
72.0451

■ 76.2921, 68.9000,  
82.8691

■ 84.5986, 82.5699,  
94.7104

■ 94.0713, 98.3591,  
107.5983

# Harmonies

## Analogous

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



42.1793, 23.7369, 62.9501



46.2066, 23.7369, 26.5724



42.5621, 23.7369, 7.7953

# Triad

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



46.2066, 23.7369, 26.5724



14.7672, 23.7369, 1.7935



14.4413, 23.7369, 101.8991

# Complementary

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



46.2066, 23.7369, 26.5724



40.7769, 73.5676, 36.4908

# 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.



10.0758, 23.7369, 60.7187



46.2066, 23.7369, 26.5724



10.2235, 23.7369, 7.2476

# Square

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



46.2066, 23.7369, 26.5724



22.8136, 23.7369, 0.8865



8.7791, 23.7369, 25.1319



22.3107, 23.7369, 121.4218



# Rectangle

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



46.2066, 23.7369, 26.5724



36.7264, 23.7369, 3.0225



8.7791, 23.7369, 25.1319



12.6061, 23.7369, 89.1578

# Sweetspot

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



46.2072, 23.7383, 26.5728



71.8244, 61.6386, 76.2183



29.0076, 13.3248, 95.6506



14.8700, 12.3820, 15.5429



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.



46.2072, 23.7383, 26.5728



45.1021, 22.8049, 22.2678



41.7020, 21.9362, 2.8487



18.3881, 18.1386, 20.6610



23.6422, 11.9462, 12.0322



2.3571, 1.1852, 1.4618



# Inverse Universe

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



46.2072, 23.7383, 26.5728



45.1021, 22.8049, 22.2678



54.1641, 78.9224, 106.9863



18.3881, 18.1386, 20.6610



23.6422, 11.9462, 12.0322



2.3571, 1.1852, 1.4618



# Previews

## White Background



This preview shows how the XYZ color 46.2066, 23.7369, 26.5724 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 46.2066, 23.7369, 26.5724 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 46.2066, 23.7369, 26.5724**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.2066, 23.7369, 26.5724.



This preview shows how white text looks on a background with the XYZ color 46.2066, 23.7369,



# 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

46.2066, 23.7369, 26.5724

### Protanopia

25.2544, 24.0905, 56.7450

### Deuteranopia

24.4566, 24.0078, 23.7670



## Tritanopia

42.0861, 23.8511, 6.5232

# Trichromacy



## Original Color

46.2066, 23.7369, 26.5724



## Protanomaly

27.2800, 18.8279, 43.7913



## Deuteranomaly

28.6450, 19.8395, 24.1494



## Tritanomaly

42.8447, 23.2768, 11.4672

# Monochromacy



## Original Color

46.2066, 23.7369, 26.5724



## Achromatopsia

13.6994, 14.4128, 15.6956



## Achromatomaly

20.3517, 13.9505, 18.7596

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.2066, 23.7369, 26.5724 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(255, 23, 139)` looks like.

```
.text, #text, p{  
  color:rgb(255, 23, 139)  
}
```

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(255, 23, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 23, 139) }
```

## Border

The CSS property to change the border of an element to XYZ 46.2066, 23.7369, 26.5724 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(255, 23, 139) }
```



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

```
.border{ border-color:rgb(255, 23, 139) }
```

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

Here you see how a box with a 4 pixel rgb(255, 23, 139) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 23, 139); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 23, 139);  
box-shadow:4px 4px 4px 4px rgb(255, 23,  
139) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.2066, 23.7369, 26.5724 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 23, 139) }
```

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

```
.background{ background-color: rgb(255, 23,  
139) }
```

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