

# Converting Colors

XYZ(49.0911, 24.9739, 41.5058)

Have a look what the booklet for  
XYZ(49.0911, 24.9739, 41.5058)  
contains.

<b>XYZ(49.0558, 24.9773, 41.2653)</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(49.0558, 24.9773,  
41.2653)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF1AAC
RGB	255, 26, 172
RGB Percent	100%, 10%, 67%
CMY	0.0000, 0.8979, 0.3255
CMYK	0.00, 0.90, 0.33, 0.00
HSL	322°, 100%, 55%
HSV	322°, 90%, 100%
XYZ	49.0558, 24.9773, 41.2653
YIQ	111.1150, 89.6180, 93.9540

# Conversions

## Conversions Part 2

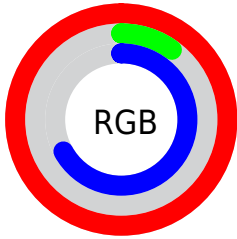
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">255, 26, 172</a>
Decimal	<a href="#">16718508</a>
CIELab	<a href="#">57.05, 86.19, -18.78</a>
CIELCh	<a href="#">57, 88.208, 347.707</a>
Yxy	<a href="#">24.9773, 0.4255, 0.2166</a>
Android (android.graphics.Color)	<a href="#">4294908588 (0xFFFF1AAC)</a>
YUV	<a href="#">111.1150, 30.0163, 126.1871</a>
Hunter-Lab	<a href="#">49.9773, 87.7485, -13.9705</a>

# Details

The XYZ color **49.0558, 24.9773, 41.2653** is a dark color, and the websafe version is hex **FF0099**. The color can be described as middle washed rose. A complement of this color would be **38.9486, 72.8447, 26.4837**, and the grayscale version is **15.0446, 15.8281, 17.2368**.

A 20% lighter version of the original color is **60.3628, 37.3214, 76.6953**, and **25.3825, 12.6935, 18.8816** is the 20% darker color. If you saturate the color by 10%, you get **47.8348, 23.9071, 36.6296**, and if you desaturate by 10%, it is **50.8126, 27.0203, 46.3847**.

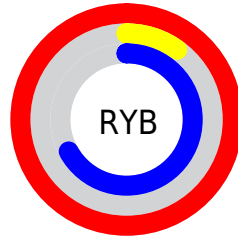
# Distribution



Red (100%)

Green (10%)

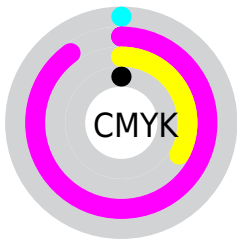
Blue (67%)



Red (100%)

Yellow (10%)

Blue (67%)

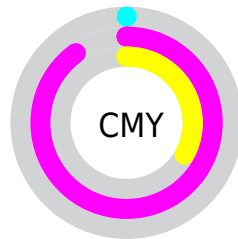


Cyan (0%)

Magenta (90%)

Yellow (33%)

Black (0%)



Cyan (0%)

Magenta (90%)


Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.0558, 24.9773, 41.2653 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 49.0558, 24.9773, 41.2653 by changing the saturation by 10% instead.




 49.0558, 24.9773,  
41.2653

 49.0558, 24.9773,  
41.2653


373.4753,  
277.7249, 367.1376

 34.8785, 16.0601,  
28.2052


 87.9745, 51.6204,  
78.3445


 23.7353, 9.5667,  
18.2400


 113.4467, 70.1151,  
103.2007

 15.2611, 5.1126,  
10.9512


 143.4144, 92.5712,  
132.8259

 9.0903, 2.3135,  
5.9203

 178.2432,  
119.3729, 167.6388

 4.8577, 0.7808,  
2.7287

 218.2983,  
150.9048, 208.0579

 2.1979, 0.0000,  
0.9578

263.9451,

 0.7416, 0.0000,

187.5511, 254.5017

0.0000

315.5490,  
229.6964, 307.3888

■ 0.0000, 0.0000,  
0.0000

■ 49.0558, 24.9773,  
41.2653

■ 49.0558, 24.9773,  
41.2653

■ 47.8348, 23.9071,  
36.6296

■ 50.8126, 27.0203,  
46.3847

■ 47.8120, 23.8888,  
36.5375

■ 53.2435, 30.3108,  
52.0393

■ 56.4374, 35.0246,  
58.2646

■ 60.4684, 41.3080,  
65.0911

■ 65.4014, 49.2893,  
72.5459

71.2948, 59.0833,  
80.6538

78.2017, 70.7947,  
89.4378

86.1714, 84.5203,  
98.9194

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



41.7674, 24.9773, 86.6112



49.0558, 24.9773, 41.2653



48.2688, 24.9773, 13.2564

# Triad

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



49.0558, 24.9773, 41.2653



18.1744, 24.9773, 1.0030



12.6865, 24.9773, 95.1375

# Complementary

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



49.0558, 24.9773, 41.2653



38.9486, 72.8447, 26.4837

# 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.



9.3552, 24.9773, 48.5389



49.0558, 24.9773, 41.2653



11.8291, 24.9773, 4.0201

# Square

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



49.0558, 24.9773, 41.2653



28.2463, 24.9773, 0.8517



9.0954, 24.9773, 16.7546



19.7407, 24.9773, 129.9376



# Rectangle

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



49.0558, 24.9773, 41.2653



43.2808, 24.9773, 5.0809



9.0954, 24.9773, 16.7546



11.1958, 24.9773, 79.2489

# Sweetspot

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



49.0565, 24.9786, 41.2657



73.1194, 62.1566, 83.0379



24.3840, 11.0346, 95.4525



15.1754, 12.5042, 17.1512



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.



49.0565, 24.9786, 41.2657



47.8120, 23.8888, 36.5375



42.4356, 22.3303, 6.4006



18.4969, 18.1821, 21.2336



25.0569, 12.5121, 19.4821



2.4921, 1.2392, 2.1730



# Inverse Universe

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



49.0565, 24.9786, 41.2657



47.8120, 23.8888, 36.5375



49.1919, 76.9420, 80.4240



18.4969, 18.1821, 21.2336



25.0569, 12.5121, 19.4821



2.4921, 1.2392, 2.1730



# Previews

## White Background



This preview shows how the XYZ color 49.0558, 24.9773, 41.2653 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

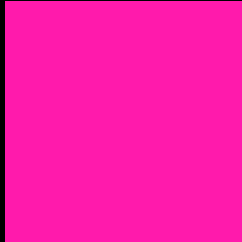
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.0558, 24.9773, 41.2653 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 49.0558, 24.9773, 41.2653**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.0558, 24.9773, 41.2653.



This preview shows how white text looks on a background with the XYZ color 49.0558, 24.9773,



# 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

49.0558, 24.9773, 41.2653

### Protanopia

28.5766, 25.5357, 87.4271

### Deuteranopia

25.7733, 25.1989, 37.2237



## Tritanopia

42.2007, 24.9573, 9.0716

# Trichromacy



## Original Color

49.0558, 24.9773, 41.2653



## Protanomaly

29.0110, 19.5837, 67.8966



## Deuteranomaly

30.1751, 20.8461, 38.0306



## Tritanomaly

43.9643, 24.3674, 17.1381

# Monochromacy



## Original Color

49.0558, 24.9773, 41.2653



## Achromatopsia

15.1092, 15.8961, 17.3108



## Achromatomaly

22.2066, 15.2173, 23.9571

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.0558, 24.9773, 41.2653 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, 26, 172)` looks like.

```
.text, #text, p{  
    color:rgb(255, 26, 172)  
}
```

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, 26, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 26, 172) }
```

## Border

The CSS property to change the border of an element to XYZ 49.0558, 24.9773, 41.2653 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, 26, 172) }
```



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

```
.border{ border-color:rgb(255, 26, 172) }
```

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

Here you see how a box with a 4 pixel rgb(255, 26, 172) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 26, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 26, 172);  
box-shadow:4px 4px 4px 4px rgb(255, 26,  
172) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.0558, 24.9773, 41.2653 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 26, 172) }
```

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

```
.background{ background-color: rgb(255, 26,  
172) }
```

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**