

# Converting Colors

XYZ(46.0073, 25.0610, 21.1949)

Have a look what the booklet for  
XYZ(46.0073, 25.0610, 21.1949)  
contains.

<b>XYZ(45.9990, 25.0577, 21.1511)</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(45.9990, 25.0577,  
21.1511)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF337B
RGB	255, 51, 123
RGB Percent	100%, 20%, 48%
CMY	0.0000, 0.7999, 0.5176
CMYK	0.00, 0.80, 0.52, 0.00
HSL	339°, 100%, 60%
HSV	339°, 80%, 100%
XYZ	45.9990, 25.0577, 21.1511
YIQ	120.2040, 98.4720, 65.6400

# Conversions

## Conversions Part 2

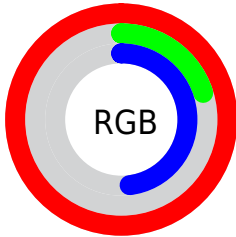
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 51, 123
Decimal	16724859
CIE <sub>Lab</sub>	57.13, 77.34, 10.26
CIE <sub>LCh</sub>	57, 78.016, 7.556
Yxy	25.0577, 0.4989, 0.2718
Android (android.graphics.Color)	4294914939 (0xFFFF337B)
YUV	120.2040, 1.3784, 118.2161
Hunter-Lab	50.0577, 76.4263, 9.9883

# Details

The XYZ color **45.9990, 25.0577, 21.1511** is a dark color, and the websafe version is hex **FF0066**. The color can be described as middle washed rose. A complement of this color would be **45.6750, 75.6436, 57.0021**, and the grayscale version is **17.8940, 18.8259, 20.5014**.

A 20% lighter version of the original color is **55.4563, 37.3120, 44.8365**, and **23.0082, 11.7145, 7.7051** is the 20% darker color. If you saturate the color by 10%, you get **44.2262, 23.0285, 15.8861**, and if you desaturate by 10%, it is **48.5571, 28.3792, 27.5372**.

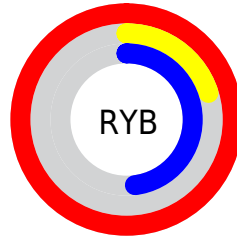
# Distribution



Red (100%)

Green (20%)

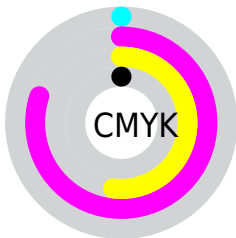
Blue (48%)



Red (100%)

Yellow (20%)

Blue (48%)

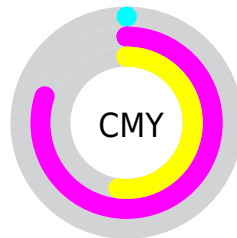


Cyan (0%)

Magenta (80%)

Yellow (52%)

Black (0%)



Cyan (0%)

Magenta (80%)


Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.9990, 25.0577, 21.1511 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 45.9990, 25.0577, 21.1511 by changing the saturation by 10% instead.




 45.9990, 25.0577,  
21.1511


 45.9990, 25.0577,  
21.1511


361.5206,  
278.1252, 270.8878

 32.4497, 16.1200,  
13.0422


 83.4454, 51.7508,  
46.2229


 21.8624, 9.6091,  
7.3265


 108.0731, 70.2751,  
64.0229


 13.8719, 5.1406,  
3.5856


 137.1244, 92.7636,  
85.8903

 8.1127, 2.3300,  
1.4009

 170.9645,  
119.6009, 112.2437

 4.2196, 0.7895,  
0.1424

 209.9588,  
151.1713, 143.5016

 1.8271, 0.0000,  
0.0000

254.4727,

 0.5339, 0.0000,

187.8592, 180.0826

0.0000

304.8715,  
230.0491, 222.4051

■ 0.0000, 0.0000,  
0.0000

■ 45.9990, 25.0577,  
21.1511

■ 45.9990, 25.0577,  
21.1511

■ 44.2262, 23.0285,  
15.8861

■ 48.5571, 28.3792,  
27.5372

■ 43.0854, 21.9985,  
11.6477


■ 51.9939, 33.1664,  
35.1152


■ 43.0848, 21.9979,  
11.6451

■ 56.3912, 39.5706,  
43.9499

■ 61.8198, 47.7224,  
54.1004

■ 68.3441, 57.7392,  
65.6216

 76.0227, 69.7281,  
78.5651

 84.9101, 83.7881,  
92.9794

95.0499, 99.9999,  
108.9000

# Harmonies

## Analogous

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



44.1842, 25.0577, 51.5450



45.9990, 25.0577, 21.1511



40.7656, 25.0577, 6.5927

# Triad

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



45.9990, 25.0577, 21.1511



14.5821, 25.0577, 3.6084



17.6833, 25.0577, 105.9619

# Complementary

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



45.9990, 25.0577, 21.1511



45.6750, 75.6436, 57.0021

# 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.



12.3686, 25.0577, 71.2588



45.9990, 25.0577, 21.1511



10.9262, 25.0577, 12.1565

# Square

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



45.9990, 25.0577, 21.1511



21.5661, 25.0577, 1.5769



10.2359, 25.0577, 34.4997



26.2184, 25.0577, 114.5768



# Rectangle

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



45.9990, 25.0577, 21.1511



34.6185, 25.0577, 2.9768



10.2359, 25.0577, 34.4997



15.5338, 25.0577, 96.2240

# Sweetspot

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



45.9996, 25.0592, 21.1515



72.8041, 64.6813, 73.2052



38.1049, 19.3172, 96.3277



15.0047, 12.9425, 14.6906



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.



45.9996, 25.0592, 21.1515



43.4892, 22.3368, 13.2279



44.5775, 26.9785, 5.9918



18.2741, 18.0929, 20.0605



22.5767, 11.5200, 6.4213



2.2478, 1.1415, 0.8863



# Inverse Universe

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



45.9996, 25.0592, 21.1515



43.4892, 22.3368, 13.2279



47.1050, 63.3022, 104.3433



18.2741, 18.0929, 20.0605



22.5767, 11.5200, 6.4213



2.2478, 1.1415, 0.8863



# Previews

## White Background



This preview shows how the XYZ color 45.9990, 25.0577, 21.1511 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

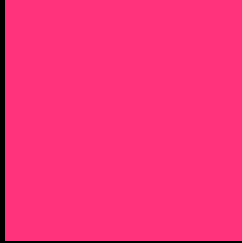
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.9990, 25.0577, 21.1511 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 45.9990, 25.0577, 21.1511

## Background



This preview shows how black text looks on a background with the XYZ color 45.9990, 25.0577, 21.1511.



This preview shows how white text looks on a background with the XYZ color 45.9990, 25.0577,



# 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

45.9990, 25.0577, 21.1511

### Protanopia

25.0780, 25.1813, 40.5845

### Deuteranopia

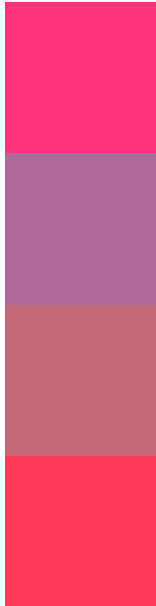
25.5300, 25.0657, 19.1154



## Tritanopia

43.1365, 25.0092, 8.0226

# Trichromacy



## Original Color

45.9990, 25.0577, 21.1511

## Protanomaly

28.3983, 21.4841, 32.3559

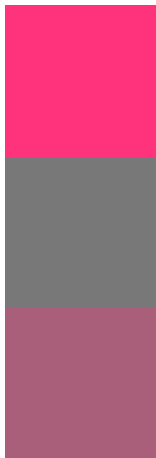
## Deuteranomaly

30.3093, 22.4542, 19.5662

## Tritanomaly

43.9382, 24.9247, 11.7277

# Monochromacy



## Original Color

45.9990, 25.0577, 21.1511

## Achromatopsia

17.8524, 18.7821, 20.4537

## Achromatomaly

23.9056, 17.9999, 20.3035

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.9990, 25.0577, 21.1511 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, 51, 123)` looks like.

```
.text, #text, p{  
    color:rgb(255, 51, 123)  
}
```

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, 51, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 51, 123) }
```

## Border

The CSS property to change the border of an element to XYZ 45.9990, 25.0577, 21.1511 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, 51, 123) }
```



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

```
.border{ border-color:rgb(255, 51, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 51, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 51, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 51, 123);  
box-shadow:4px 4px 4px 4px rgb(255, 51,  
123) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.9990, 25.0577, 21.1511 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 51, 123) }
```

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

```
.background{ background-color: rgb(255, 51,  
123) }
```

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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