

# Converting Colors

XYZ(45.9525, 25.0440, 20.8927)

Have a look what the booklet for  
XYZ(45.9525, 25.0440, 20.8927)  
contains.

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# Color

**XYZ(45.9367, 25.0328,  
20.8230)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF337A
RGB	255, 51, 122
RGB Percent	100%, 20%, 48%
CMY	0.0000, 0.7999, 0.5216
CMYK	0.00, 0.80, 0.52, 0.00
HSL	339°, 100%, 60%
HSV	339°, 80%, 100%
XYZ	45.9367, 25.0328, 20.8230
YIQ	120.0900, 98.7930, 65.3290

# Conversions

## Conversions Part 2

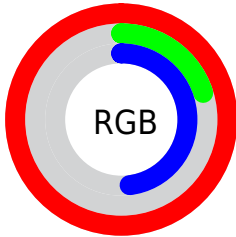
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 51, 122
Decimal	16724858
CIE <sub>Lab</sub>	57.11, 77.27, 10.82
CIE <sub>LCh</sub>	57, 78.019, 7.971
Yxy	25.0328, 0.5004, 0.2727
Android (android.graphics.Color)	4294914938 (0xFFFF337A)
YUV	120.0900, 0.9416, 118.3161
Hunter-Lab	50.0328, 76.3292, 10.3472

# Details

The XYZ color **45.9367, 25.0328, 20.8230** 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 **45.7795, 75.6854, 57.5526**, and the grayscale version is **17.8588, 18.7889, 20.4611**.

A 20% lighter version of the original color is **55.3584, 37.2729, 44.3211**, and **22.7219, 11.5708, 7.5144** is the 20% darker color. If you saturate the color by 10%, you get **44.1677, 23.0052, 15.5781**, and if you desaturate by 10%, it is **48.4931, 28.3536, 27.2002**.

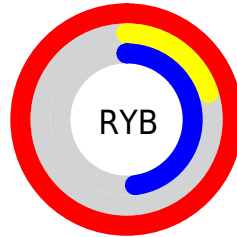
# Distribution



Red (100%)

Green (20%)

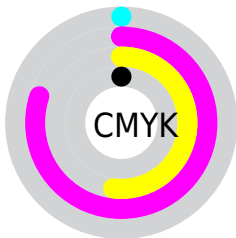
Blue (48%)



Red (100%)

Yellow (20%)

Blue (48%)

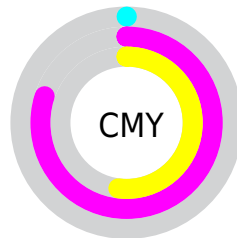


Cyan (0%)

Magenta (80%)

Yellow (52%)

Black (0%)



Cyan (0%)

Magenta (80%)

Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.9367, 25.0328, 20.8230 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 45.9367, 25.0328, 20.8230 by changing the saturation by 10% instead.





 45.9367, 25.0328,  
20.8230


 45.9367, 25.0328,  
20.8230


361.2743,  
278.0013, 269.0864

 32.4003, 16.1015,  
12.8047


 83.3527, 51.7104,  
45.6697


 21.8245, 9.5960,  
7.1651


 107.9630, 70.2255,  
63.3352


 13.8438, 5.1319,  
3.4855


 136.9953, 92.7040,  
85.0536

 8.0931, 2.3249,  
1.3476

 170.8150,  
119.5303, 111.2433

 4.2069, 0.7868,  
0.1003

 209.7873,  
151.0888, 142.3229

 1.8198, 0.0000,  
0.0000

254.2778,

 0.5296, 0.0000,

187.7639, 178.7109

0.0000

304.6517,  
229.9399, 220.8259

■ 0.0000, 0.0000,  
0.0000

■ 45.9367, 25.0328,  
20.8230

■ 45.9367, 25.0328,  
20.8230

■ 44.1677, 23.0052,  
15.5781

■ 48.4931, 28.3536,  
27.2002

■ 43.0327, 21.9774,  
11.3697

■ 51.9306, 33.1412,  
34.7817

■ 43.0320, 21.9768,  
11.3671

■ 56.3311, 39.5466,  
43.6333

■ 61.7657, 47.7008,  
53.8150

■ 68.2988, 57.7211,  
65.3828

75.9893, 69.7149,  
78.3888

84.8917, 83.7809,  
92.8827

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.



44.2228, 25.0328, 50.9881



45.9367, 25.0328, 20.8230



40.6205, 25.0328, 6.4700

# Triad

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



45.9367, 25.0328, 20.8230



14.4919, 25.0328, 3.6595



17.7609, 25.0328, 106.2433

# Complementary

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



45.9367, 25.0328, 20.8230



45.7795, 75.6854, 57.5526

# 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.



12.4036, 25.0328, 71.7611



45.9367, 25.0328, 20.8230



10.8829, 25.0328, 12.3391

# Square

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



45.9367, 25.0328, 20.8230



21.4254, 25.0328, 1.5800



10.2318, 25.0328, 34.8948



26.3287, 25.0328, 114.3832



# Rectangle

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



45.9367, 25.0328, 20.8230



34.4500, 25.0328, 2.9258



10.2318, 25.0328, 34.8948



15.5972, 25.0328, 96.6195

# Sweetspot

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



45.9373, 25.0343, 20.8234



72.7655, 64.6659, 73.0018



38.9074, 19.7309, 96.3653



14.9956, 12.9389, 14.6424



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.



45.9373, 25.0343, 20.8234



43.4339, 22.3147, 12.9368



44.8261, 27.4758, 6.0747



18.2703, 18.0914, 20.0407



22.5485, 11.5087, 6.2730



2.2447, 1.1403, 0.8702



# Inverse Universe

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



45.9373, 25.0343, 20.8234



43.4339, 22.3147, 12.9368



46.1800, 61.4521, 104.0350



18.2703, 18.0914, 20.0407



22.5485, 11.5087, 6.2730



2.2447, 1.1403, 0.8702



# Previews

## White Background



This preview shows how the XYZ color 45.9367, 25.0328, 20.8230 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

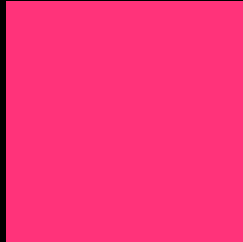
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 45.9367, 25.0328, 20.8230 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

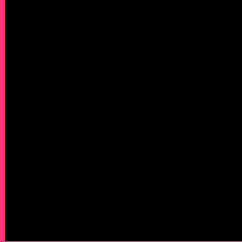
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 45.9367, 25.0328, 20.8230**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.9367, 25.0328, 20.8230.



This preview shows how white text looks on a background with the XYZ color 45.9367, 25.0328,



# 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

45.9367, 25.0328, 20.8230

### Protanopia

25.1393, 25.2236, 40.1029

### Deuteranopia

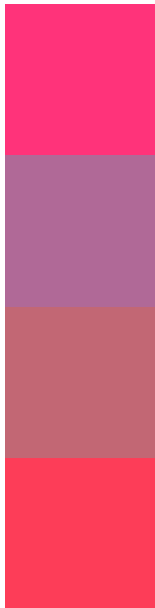
25.4740, 25.0433, 18.8205



## Tritanopia

43.1365, 25.0092, 8.0226

# Trichromacy



## Original Color

45.9367, 25.0328, 20.8230

## Protanomaly

28.5420, 21.5676, 31.9368

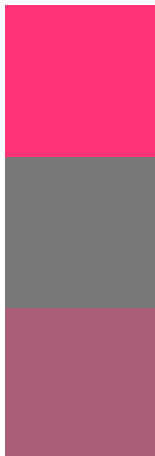
## Deuteranomaly

30.2508, 22.4308, 19.2582

## Tritanomaly

43.9382, 24.9247, 11.7277

# Monochromacy



## Original Color

45.9367, 25.0328, 20.8230

## 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 45.9367, 25.0328, 20.8230 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, 122)` looks like.

```
.text, #text, p{  
    color:rgb(255, 51, 122)  
}
```

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, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 51, 122) }
```

## Border

The CSS property to change the border of an element to XYZ 45.9367, 25.0328, 20.8230 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, 122) }
```



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

```
.border{ border-color:rgb(255, 51, 122) }
```

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, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 51, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 51, 122);  
box-shadow:4px 4px 4px 4px rgb(255, 51,  
122) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.9367, 25.0328, 20.8230 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, 122) }
```

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

```
.background{ background-color: rgb(255, 51,  
122) }
```

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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