

# Converting Colors

XYZ(38.1254, 23.3140, 20.4904)

Have a look what the booklet for  
XYZ(38.1254, 23.3140, 20.4904)  
contains.

<b>XYZ(38.1705, 23.3232, 20.5792)</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(38.1705, 23.3232,  
20.5792)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E44E79
RGB	228, 78, 121
RGB Percent	89%, 31%, 47%
CMY	0.1059, 0.6941, 0.5255
CMYK	0.00, 0.66, 0.47, 0.11
HSL	343°, 74%, 60%
HSV	343°, 66%, 89%
XYZ	38.1705, 23.3232, 20.5792
YIQ	127.7520, 75.5970, 45.1730

# Conversions

## Conversions Part 2

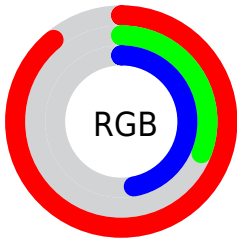
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	228, 78, 121
Decimal	14962297
CIE <sub>Lab</sub>	55.40, 61.12, 8.33
CIE <sub>LCh</sub>	55, 61.683, 7.764
Yxy	23.3232, 0.4651, 0.2842
Android (android.graphics.Color)	4293152377 (0xFFE44E79)
YUV	127.7520, -3.3287, 87.9175
Hunter-Lab	48.2941, 56.5675, 8.5411

# Details

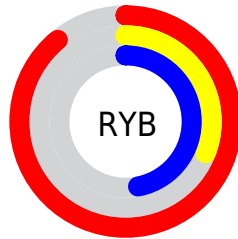
The XYZ color **38.1705, 23.3232, 20.5792** is a dark color, and the websafe version is hex **CC3366**. The color can be described as middle muted rose. A complement of this color would be **39.6438, 60.6099, 55.5129**, and the grayscale version is **20.4259, 21.4896, 23.4022**.

A 20% lighter version of the original color is **57.4468, 41.6051, 44.5380**, and **17.1389, 8.6965, 7.0786** is the 20% darker color. If you saturate the color by 10%, you get **35.9072, 20.2607, 15.3117**, and if you desaturate by 10%, it is **41.1644, 27.5780, 26.9204**.

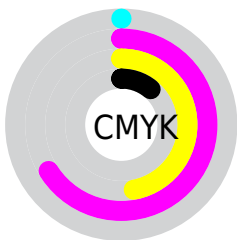
# Distribution



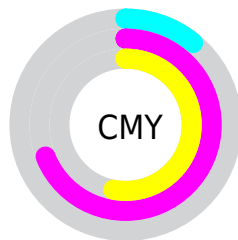
- Red (89%)
- Green (31%)
- Blue (47%)



- Red (89%)
- Yellow (31%)
- Blue (47%)



- Cyan (0%)
- Magenta (66%)
- Yellow (47%)
- Black (11%)




- Cyan (11%)
- Magenta (69%)
- Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.1705, 23.3232, 20.5792 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 38.1705, 23.3232, 20.5792 by changing the saturation by 10% instead.





 38.1705, 23.3232,  
20.5792


 38.1705, 23.3232,  
20.5792


329.6190,  
269.3807, 267.7408


 26.2929, 14.8323,  
12.6285


 71.6716, 48.9235,  
45.2578


 17.1767, 8.7018,  
7.0455


 94.0258, 66.8017,  
62.8228


 10.4566, 4.5472,  
3.4117


 120.6029, 88.5778,  
84.4297

 5.7673, 1.9841,  
1.3085

 151.7682,  
114.6362, 110.4970

 2.7434, 0.5982,  
0.0687

 187.8871,  
145.3613, 141.4432

 1.0196, 0.0000,  
0.0000

229.3250,

 0.0000, 0.0000,

181.1375, 177.6869

0.0000

276.4472,  
222.3492, 219.6466

■ 38.1705, 23.3232,  
20.5792

■ 38.1705, 23.3232,  
20.5792

■ 35.9072, 20.2607,  
15.3117

■ 41.1644, 27.5780,  
26.9204

■ 34.3035, 18.2616,  
11.0520

■ 44.9473, 33.1289,  
34.3927


■ 33.2756, 17.1731,  
7.7271


■ 49.5732, 40.0725,  
43.0507


■ 32.9592, 16.8797,  
6.5755


■ 55.0910, 48.4954,  
52.9448

■ 61.5456, 58.4768,  
64.1223

 68.9789, 70.0904,  
76.6282

 77.4300, 83.4052,  
90.5050

 85.1863, 94.9865,  
105.2100

 85.8049, 95.2340,  
108.4673

# Harmonies

## Analogous

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



36.9357, 23.3232, 42.7519



38.1705, 23.3232, 20.5792



34.4623, 23.3232, 8.4574

# Triad

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



38.1705, 23.3232, 20.5792



14.9663, 23.3232, 5.5932



17.4971, 23.3232, 79.6488

# Complementary

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



38.1705, 23.3232, 20.5792



39.6438, 60.6099, 55.5129

# 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.



13.2125, 23.3232, 56.6790



38.1705, 23.3232, 20.5792



11.9778, 23.3232, 13.5158

# Square

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



38.1705, 23.3232, 20.5792



20.4156, 23.3232, 3.2425



11.4106, 23.3232, 30.9090



24.0179, 23.3232, 85.1011



# Rectangle

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



38.1705, 23.3232, 20.5792



30.0646, 23.3232, 4.8578



11.4106, 23.3232, 30.9090



15.7914, 23.3232, 73.3006

# Sweetspot

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



38.1711, 23.3245, 20.5796



75.5688, 69.5401, 76.1942



36.2576, 21.1191, 75.5641



15.6769, 14.1152, 15.4443



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.



38.1711, 23.3245, 20.5796



45.4236, 25.0108, 17.5567



38.7336, 27.7708, 10.5282



14.5460, 14.4356, 15.8097



19.0762, 9.7647, 4.0302



1.4488, 0.7372, 0.5037



# Inverse Universe

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



38.1711, 23.3245, 20.5796



45.4236, 25.0108, 17.5567



37.3406, 47.6104, 80.6204



14.5460, 14.4356, 15.8097



19.0762, 9.7647, 4.0302



1.4488, 0.7372, 0.5037



# Previews

## White Background



This preview shows how the XYZ color 38.1705, 23.3232, 20.5792 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 38.1705, 23.3232, 20.5792 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

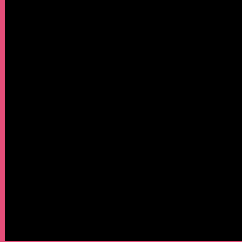
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 38.1705, 23.3232, 20.5792**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.1705, 23.3232, 20.5792.



This preview shows how white text looks on a background with the XYZ color 38.1705, 23.3232,



# 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

38.1705, 23.3232, 20.5792

### Protanopia

23.0431, 23.4827, 32.5963

### Deuteranopia

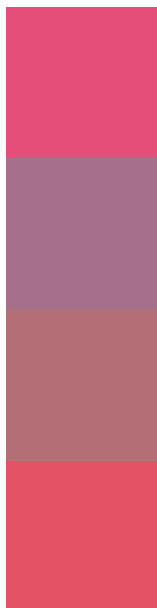
23.8933, 23.4256, 19.1819



## Tritanopia

36.3798, 23.2476, 12.2427

# Trichromacy



## Original Color

38.1705, 23.3232, 20.5792

## Protanomaly

26.2537, 21.5888, 27.5943

## Deuteranomaly

27.6092, 22.1395, 19.6478

## Tritanomaly

37.0448, 23.3051, 14.8578

# Monochromacy



## Original Color

38.1705, 23.3232, 20.5792

## Achromatopsia

20.5175, 21.5861, 23.5072

## Achromatomaly

24.5874, 20.5250, 22.0679

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.1705, 23.3232, 20.5792 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(228, 78, 121)` looks like.

```
.text, #text, p{  
    color:rgb(228, 78, 121)  
}
```

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(228, 78, 121) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 78, 121) }
```

## Border

The CSS property to change the border of an element to XYZ 38.1705, 23.3232, 20.5792 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(228, 78, 121) }
```



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

```
.border{ border-color:rgb(228, 78, 121) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 78, 121)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 78, 121); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 78, 121);  
box-shadow:4px 4px 4px 4px rgb(228, 78,  
121) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.1705, 23.3232, 20.5792 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 78, 121) }
```

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

```
.background{ background-color: rgb(228, 78,  
121) }
```

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