

# Converting Colors

XYZ(36.9213, 25.0015, 44.6568)

Have a look what the booklet for  
XYZ(36.9213, 25.0015, 44.6568)  
contains.

<b>XYZ(36.9466, 25.0382, 44.4805)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(36.9466, 25.0382,  
44.4805)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CA65B1
RGB	202, 101, 177
RGB Percent	79%, 40%, 69%
CMY	0.2078, 0.6039, 0.3059
CMYK	0.00, 0.50, 0.12, 0.21
HSL	315°, 49%, 59%
HSV	315°, 50%, 79%
XYZ	36.9466, 25.0382, 44.4805
YIQ	139.8630, 35.8000, 45.0480

# Conversions

## Conversions Part 2

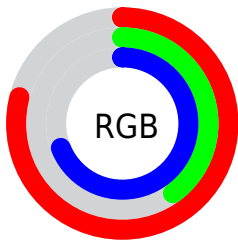
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	202, 101, 177
Decimal	13264305
CIE <sub>Lab</sub>	57.11, 49.77, -22.34
CIE <sub>LCh</sub>	57, 54.552, 335.821
Yxy	25.0382, 0.3470, 0.2352
Android (android.graphics.Color)	4291454385 (0xFFCA65B1)
YUV	139.8630, 18.3085, 54.4941
Hunter-Lab	50.0382, 44.2319, -17.6780

# Details

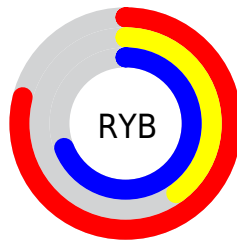
The XYZ color **36.9466, 25.0382, 44.4805** is a light color, and the websafe version is hex **CC6699**. A complement of this color would be **30.2544, 46.5150, 27.1242**, and the grayscale version is **24.7964, 26.0877, 28.4095**.

A 20% lighter version of the original color is **67.6693, 50.5859, 83.2883**, and **16.5087, 9.5993, 20.0515** is the 20% darker color. If you saturate the color by 10%, you get **34.7317, 21.3912, 41.3282**, and if you desaturate by 10%, it is **39.6633, 29.6588, 47.8907**.

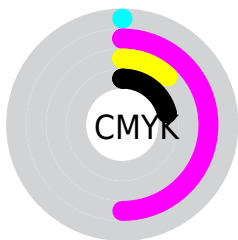
# Distribution



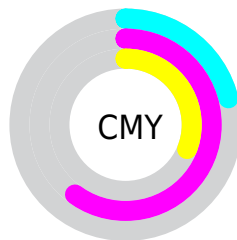
- Red (79%)
- Green (40%)
- Blue (69%)



- Red (79%)
- Yellow (40%)
- Blue (69%)



- Cyan (0%)
- Magenta (50%)
- Yellow (12%)
- Black (21%)




- Cyan (21%)
- Magenta (60%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.9466, 25.0382, 44.4805 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 36.9466, 25.0382, 44.4805 by changing the saturation by 10% instead.




 36.9466, 25.0382,  
44.4805


 36.9466, 25.0382,  
44.4805


324.4388,  
278.0281, 380.7641

 25.3396, 16.1055,  
30.7085


 69.8050, 51.7192,  
83.2505


 16.4604, 9.5989,  
20.1204


 91.7872, 70.2363,  
109.0855

 9.9434, 5.1338,  
12.2976


 117.9584, 92.7170,  
139.7786

 5.4234, 2.3260,  
6.8217

 148.6842,  
119.5456, 175.7483

 2.5351, 0.7874,  
3.2741

184.3297,  
151.1067, 217.4131

 0.9130, 0.0000,  
1.2362

225.2604,

 0.0000, 0.0000,

187.7845, 265.1917

0.0087

271.8417,  
229.9636, 319.5025

■ 0.0000, 0.0000,  
0.0000

■ 36.9466, 25.0382,  
44.4805

■ 36.9466, 25.0382,  
44.4805

■ 34.7317, 21.3912,  
41.3282

■ 39.6633, 29.6588,  
47.8907

■ 32.9801, 18.6422,  
38.4192

■ 42.9119, 35.3141,  
51.5689

■ 31.6514, 16.7103,  
35.7395

■ 46.7229, 42.0644,  
55.5267


■ 30.6969, 15.4985,  
33.2716

■ 51.1237, 49.9642,  
59.7739


■ 30.0248, 14.8237,  
30.9842


■ 56.1401, 59.0647,  
64.3201

 30.0247, 14.8236,  
30.9836

 61.7961, 69.4136,  
69.1741

 68.1144, 81.0563,  
74.3445

 72.6421, 89.0866,  
79.0144

 73.3026, 89.3508,  
82.4925

# Harmonies

## Analogous

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



31.7886, 25.0382, 67.2099



36.9466, 25.0382, 44.4805



38.3317, 25.0382, 23.8277

# Triad

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



36.9466, 25.0382, 44.4805



22.5664, 25.0382, 5.0348



15.1179, 25.0382, 53.6666

# Complementary

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



36.9466, 25.0382, 44.4805



30.2544, 46.5150, 27.1242

# 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.



13.4990, 25.0382, 31.0122



36.9466, 25.0382, 44.4805



17.2731, 25.0382, 7.4559

# Square

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



36.9466, 25.0382, 44.4805



29.2273, 25.0382, 6.0433



14.2104, 25.0382, 15.1833



19.0866, 25.0382, 73.9764



# Rectangle

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



36.9466, 25.0382, 44.4805



36.7462, 25.0382, 14.5692



14.2104, 25.0382, 15.1833



14.3168, 25.0382, 45.7673

# Sweetspot

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



36.9474, 25.0394, 44.4810



82.5512, 77.3820, 97.3977



23.7099, 17.9004, 58.0831



17.3346, 15.9629, 20.5211



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.



36.9474, 25.0394, 44.4810



58.5322, 35.7791, 69.5531



32.9037, 23.4219, 23.1871



11.5643, 11.3544, 13.5059



19.3574, 9.5535, 20.1323



1.0277, 0.5045, 1.1915



# Inverse Universe

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



36.9474, 25.0394, 44.4810



58.5322, 35.7791, 69.5531



34.2327, 48.1063, 48.0740



11.5643, 11.3544, 13.5059



19.3574, 9.5535, 20.1323



1.0277, 0.5045, 1.1915



# Previews

## White Background



This preview shows how the XYZ color 36.9466, 25.0382, 44.4805 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

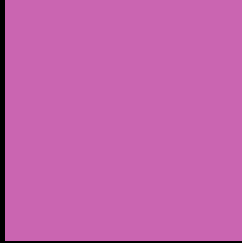
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.9466, 25.0382, 44.4805 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

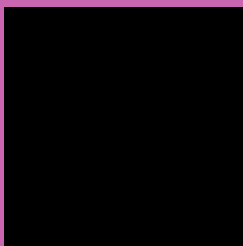
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 36.9466, 25.0382, 44.4805**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.9466, 25.0382, 44.4805.



This preview shows how white text looks on a background with the XYZ color 36.9466, 25.0382,



# 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

36.9466, 25.0382, 44.4805

### Protanopia

26.5137, 25.2846, 59.9829

### Deuteranopia

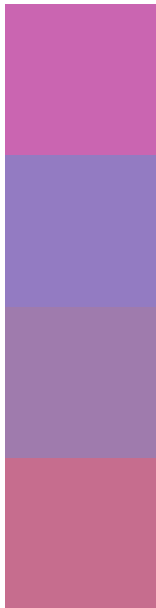
25.8462, 25.3366, 42.0563



## Tritanopia

32.1829, 24.9512, 21.5322

# Trichromacy



## Original Color

36.9466, 25.0382, 44.4805

## Protanomaly

28.8532, 24.2640, 54.2016

## Deuteranomaly

28.9239, 24.5540, 42.7501

## Tritanomaly

33.6398, 24.8960, 28.6236

# Monochromacy



## Original Color

36.9466, 25.0382, 44.4805

## Achromatopsia

24.9269, 26.2251, 28.5591

## Achromatomaly

28.3149, 25.0081, 33.4717

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.9466, 25.0382, 44.4805 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(202, 101, 177)` looks like.

```
.text, #text, p{  
    color:rgb(202, 101, 177)  
}
```

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(202, 101, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 101, 177) }
```

## Border

The CSS property to change the border of an element to XYZ 36.9466, 25.0382, 44.4805 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(202, 101, 177) }
```



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

```
.border{ border-color:rgb(202, 101, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 101, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 101, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 101, 177);  
box-shadow:4px 4px 4px 4px rgb(202, 101,  
177) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.9466, 25.0382, 44.4805 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 101, 177) }
```

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

```
.background{ background-color: rgb(202,  
101, 177) }
```

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