

# Converting Colors

XYZ(36.3188, 45.4603, 23.6013)

Have a look what the booklet for  
XYZ(36.3188, 45.4603, 23.6013)  
contains.

<b>XYZ(36.3088, 45.3609, 23.6715)</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(36.3088, 45.3609,  
23.6715)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A2BD75
RGB	162, 189, 117
RGB Percent	64%, 74%, 46%
CMY	0.3647, 0.2588, 0.5412
CMYK	0.14, 0.00, 0.38, 0.26
HSL	83°, 35%, 60%
HSV	83°, 38%, 74%
XYZ	36.3088, 45.3609, 23.6715
YIQ	172.7190, 7.0200, -28.1160

# Conversions

## Conversions Part 2

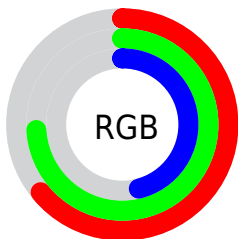
Format	Color
<a href="#">RYB</a>	<a href="#">117, 189, 144</a>
Decimal	<a href="#">10665333</a>
CIELab	<a href="#">73.13, -21.38, 33.41</a>
CIElCh	<a href="#">73, 39.667, 122.617</a>
Yxy	<a href="#">45.3609, 0.3447, 0.4306</a>
Android (android.graphics.Color)	<a href="#">4288855413 (0xFFA2BD75)</a>
YUV	<a href="#">172.7190, -27.4695, -9.4006</a>
Hunter-Lab	<a href="#">67.3505, -21.6336, 26.3069</a>

# Details

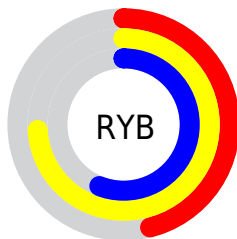
The XYZ color **36.3088, 45.3609, 23.6715** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **27.0500, 22.3272, 51.0305**, and the grayscale version is **39.7113, 41.7794, 45.4977**.

A 20% lighter version of the original color is **68.8215, 83.1125, 50.4453**, and **16.1240, 21.2648, 8.5649** is the 20% darker color. If you saturate the color by 10%, you get **33.9086, 44.2407, 18.3326**, and if you desaturate by 10%, it is **39.0168, 46.6167, 30.1978**.

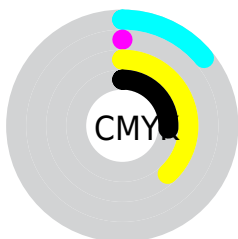
# Distribution



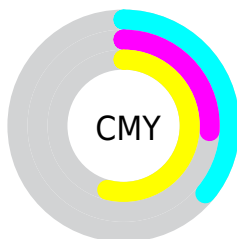
- Red (64%)
- Green (74%)
- Blue (46%)



- Red (46%)
- Yellow (74%)
- Blue (56%)



- Cyan (14%)
- Magenta (0%)
- Yellow (38%)
- Black (26%)



- Cyan (36%)
- Magenta (26%)
- Yellow (54%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.3088, 45.3609, 23.6715 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 36.3088, 45.3609, 23.6715 by changing the saturation by 10% instead.



■ 36.3088, 45.3609,  
23.6715

■ 36.3088, 45.3609,  
23.6715

321.7160,  
368.2333, 284.3883

■ 24.8440, 31.7418,  
14.8802

■ 68.8292, 83.2617,  
50.4307

■ 16.0890, 21.1644,  
8.5896

■ 90.6155, 108.3122,  
69.2356

■ 9.6784, 13.2442,  
4.3814

■ 116.5730,  
137.9420, 92.2156

■ 5.2469, 7.5969,  
1.8368

147.0670,  
172.5353, 119.7890

■ 2.4291, 3.8381,  
0.4521

182.4630,  
212.4768, 152.3744

■ 0.8596, 1.5834,  
0.0000

223.1263,

■ 0.0000, 0.3464,

258.1506, 190.3904

0.0000

269.4221,  
309.9413, 234.2555

■ 0.0000, 0.0000,  
0.0000

■ 36.3088, 45.3609,  
23.6715

■ 36.3088, 45.3609,  
23.6715

■ 33.9086, 44.2407,  
18.3326

■ 39.0168, 46.6167,  
30.1978

■ 31.7980, 43.2440,  
14.1066

■ 42.0430, 48.0078,  
37.9742

■ 29.9616, 42.3660,  
10.9151


■ 45.4014, 49.5414,  
47.0625


■ 28.3811, 41.5993,  
8.6683


■ 49.1039, 51.2225,  
57.5196


■ 27.0349, 40.9351,  
7.2610


■ 53.1618, 53.0557,  
69.3989

 25.8906, 40.3602,  
6.5291

 57.5861, 55.0456,  
82.7510

 25.6860, 40.2570,  
6.4166

 62.3870, 57.1963,  
97.6242

 65.3742, 58.6319,  
102.4792

 67.5488, 59.7530,  
102.5810

# Harmonies

## Analogous

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



42.5073, 45.3609, 20.1882



36.3088, 45.3609, 23.6715



32.3097, 45.3609, 33.8048

# Triad

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



36.3088, 45.3609, 23.6715



37.2589, 45.3609, 91.7313



57.8785, 45.3609, 47.6644

# Complementary

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



36.3088, 45.3609, 23.6715



27.0500, 22.3272, 51.0305

# 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.



56.0931, 45.3609, 69.1528



36.3088, 45.3609, 23.6715



43.7268, 45.3609, 98.2970

# Square

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



36.3088, 45.3609, 23.6715



32.8154, 45.3609, 73.0080



50.7208, 45.3609, 89.1178



55.3695, 45.3609, 31.5096



# Rectangle

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



36.3088, 45.3609, 23.6715



31.1799, 45.3609, 44.6367



50.7208, 45.3609, 89.1178



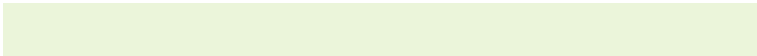
57.7608, 45.3609, 54.4699

# Sweetspot

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



36.3099, 45.3629, 23.6725



79.3923, 87.8504, 79.0143



34.0814, 31.8699, 21.1855



16.8958, 18.8110, 16.5095



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

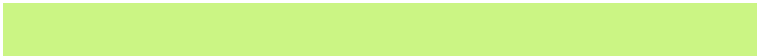


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



36.3099, 45.3629, 23.6725



61.2808, 79.4909, 34.0122



30.1028, 42.1630, 23.3820



9.9660, 10.9369, 10.1624



17.3683, 27.1296, 4.3211



0.7506, 1.0989, 0.1725



# Inverse Universe

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



27.0500, 22.3272, 51.0305



42.2786, 32.1826, 90.2097



34.2313, 26.0293, 51.3666



9.3455, 9.3950, 11.9931



8.0013, 3.4109, 32.6296



0.3865, 0.1713, 1.2815



# Previews

## White Background



This preview shows how the XYZ color 36.3088, 45.3609, 23.6715 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 36.3088, 45.3609, 23.6715 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 ✓ Pass

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

**XYZ 36.3088, 45.3609, 23.6715**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.3088, 45.3609, 23.6715.



This preview shows how white text looks on a background with the XYZ color 36.3088, 45.3609,



# 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

36.3088, 45.3609, 23.6715

### Protanopia

41.6064, 45.0346, 22.1224

### Deuteranopia

45.7457, 44.8024, 24.3258



## Tritanopia

43.2924, 45.4218, 57.5245

# Trichromacy



## Original Color

36.3088, 45.3609, 23.6715

## Protanomaly

39.4992, 45.1492, 22.5524

## Deuteranomaly

41.8162, 44.7990, 24.2124

## Tritanomaly

40.1786, 45.0552, 42.6553

# Monochromacy



## Original Color

36.3088, 45.3609, 23.6715

## Achromatopsia

39.7200, 41.7885, 45.5077

## Achromatomaly

38.2321, 42.9751, 36.4170

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.3088, 45.3609, 23.6715 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(162, 189, 117)` looks like.

```
.text, #text, p{  
    color:rgb(162, 189, 117)  
}
```

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(162, 189, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 189, 117) }
```

## Border

The CSS property to change the border of an element to XYZ 36.3088, 45.3609, 23.6715 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(162, 189, 117) }
```



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

```
.border{ border-color:rgb(162, 189, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(162, 189, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(162, 189, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(162, 189, 117);  
box-shadow:4px 4px 4px 4px rgb(162, 189,  
117) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.3088, 45.3609, 23.6715 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 189, 117) }
```

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

```
.background{ background-color: rgb(162,  
189, 117) }
```

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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