

# Converting Colors

XYZ(36.4183, 42.0414, 67.5625)

Have a look what the booklet for  
XYZ(36.4183, 42.0414, 67.5625)  
contains.

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# Color

**XYZ(36.4501, 41.9618,  
67.8063)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BB5D3
RGB	123, 181, 211
RGB Percent	48%, 71%, 83%
CMY	0.5176, 0.2902, 0.1725
CMYK	0.42, 0.14, 0.00, 0.17
HSL	200°, 50%, 65%
HSV	200°, 42%, 83%
XYZ	36.4501, 41.9618, 67.8063
YIQ	167.0780, -44.1980, -2.9660

# Conversions

## Conversions Part 2

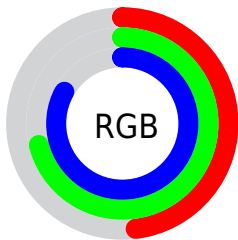
Format	Color
R <sub>YB</sub>	123, 158, 211
Decimal	8107475
CIE Lab	70.84, -11.07, -21.06
CIE LCh	71, 23.790, 242.282
Yxy	41.9618, 0.2493, 0.2870
Android (android.graphics.Color)	4286297555 (0xFF7BB5D3)
YUV	167.0780, 21.6535, -38.6564
Hunter-Lab	64.7779, -12.9206, -16.7173

# Details

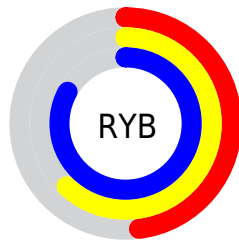
The XYZ color **36.4501, 41.9618, 67.8063** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **41.8312, 38.0623, 23.8822**, and the grayscale version is **36.6829, 38.5933, 42.0281**.

A 20% lighter version of the original color is **66.9246, 77.3721, 106.0147**, and **16.1038, 19.0676, 34.2841** is the 20% darker color. If you saturate the color by 10%, you get **32.3260, 37.7211, 67.2059**, and if you desaturate by 10%, it is **41.3029, 46.6921, 68.4643**.

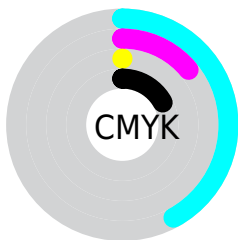
# Distribution



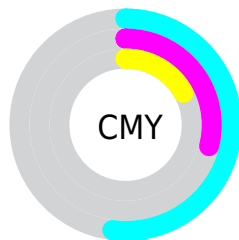
- Red (48%)
- Green (71%)
- Blue (83%)



- Red (48%)
- Yellow (62%)
- Blue (83%)



- Cyan (42%)
- Magenta (14%)
- Yellow (0%)
- Black (17%)



- Cyan (52%)
- Magenta (29%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.4501, 41.9618, 67.8063 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 36.4501, 41.9618, 67.8063 by changing the saturation by 10% instead.



■ 36.4501, 41.9618,  
67.8063

■ 36.4501, 41.9618,  
67.8063

322.3206,  
354.3246, 471.3888

■ 24.9537, 29.0714,  
49.2745

■ 69.0456, 78.1418,  
117.7266

■ 16.1711, 19.1348,  
34.4701

■ 90.8754, 102.2002,  
149.9521

■ 9.7369, 11.7677,  
22.9747

■ 116.8804,  
130.7500, 187.5793

■ 5.2858, 6.5857,  
14.3697

147.4259,  
164.1757, 231.0267

■ 2.4524, 3.2044,  
8.2366

182.8773,  
202.8616, 280.7128

■ 0.8713, 1.2394,  
4.1568

223.6000,

■ 0.0000, 0.0935,

247.1921, 337.0561

1.7117

269.9593,  
297.5516, 400.4753

■ 0.0000, 0.0000,  
0.3688

■ 0.0000, 0.0000,  
0.0000

■ 36.4501, 41.9618,  
67.8063

■ 36.4501, 41.9618,  
67.8063

■ 32.3260, 37.7211,  
67.2059

■ 41.3029, 46.6921,  
68.4643

■ 28.8832, 33.9412,  
66.6577

■ 46.9199, 51.9292,  
69.1791

■ 26.0748, 30.5970,  
66.1603

■ 53.3391, 57.6951,  
69.9537

■ 23.8455, 27.6584,  
65.7105

■ 60.5943, 64.0091,  
70.7901

■ 22.1295, 25.0895,  
65.3051

■ 68.7178, 70.8890,  
71.6899

■ 21.0009, 23.1891,  
64.9978

■ 77.7397, 78.3521,  
72.6549

■ 81.6731, 83.3134,  
73.4052

■ 83.7320, 87.4313,  
74.0915

■ 85.8747, 91.7166,  
74.8057

# Harmonies

## Analogous

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



33.7939, 41.9618, 58.3351



36.4501, 41.9618, 67.8063



40.1869, 41.9618, 71.0869

# Triad

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



36.4501, 41.9618, 67.8063



47.9742, 41.9618, 44.8277



35.9585, 41.9618, 29.6402

# Complementary

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



36.4501, 41.9618, 67.8063



41.8312, 38.0623, 23.8822

# 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.



39.5815, 41.9618, 27.2008



36.4501, 41.9618, 67.8063



46.6638, 41.9618, 35.0173

# Square

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



36.4501, 41.9618, 67.8063



47.0007, 41.9618, 56.5855



43.5259, 41.9618, 28.9952



33.5236, 41.9618, 36.2901



# Rectangle

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



36.4501, 41.9618, 67.8063



42.8366, 41.9618, 68.9485



43.5259, 41.9618, 28.9952



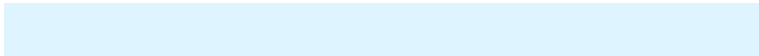
37.0692, 41.9618, 28.3553

# Sweetspot

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



36.4514, 41.9634, 67.8073



80.3885, 87.2464, 107.2111



37.1586, 53.0784, 38.1371



16.7212, 18.2420, 22.8897



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

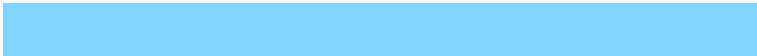


# Same Dimension

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



36.4514, 41.9634, 67.8073



50.3046, 58.6255, 103.2723



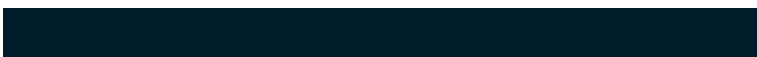
28.9682, 26.9969, 65.3129



11.8049, 12.7000, 15.0728



12.7723, 14.1913, 39.2585



0.7862, 0.9376, 2.2191



# Inverse Universe

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



42.2885, 31.3523, 47.5404



60.7192, 41.2983, 66.7517



50.2552, 54.9103, 26.6902



12.1324, 11.9377, 13.9731



19.0776, 9.5039, 15.8467

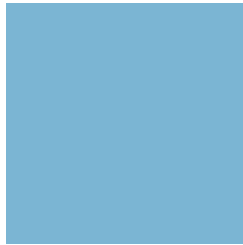


1.1031, 0.5459, 1.0776



# Previews

## White Background



This preview shows how the XYZ color 36.4501, 41.9618, 67.8063 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

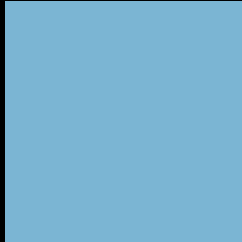
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.4501, 41.9618, 67.8063 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

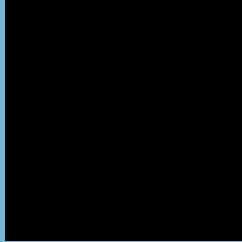
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 36.4501, 41.9618, 67.8063**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.4501, 41.9618, 67.8063.



This preview shows how white text looks on a background with the XYZ color 36.4501, 41.9618,



# 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

36.4501, 41.9618, 67.8063

### Protanopia

41.1879, 41.5924, 62.9841

### Deuteranopia

42.6878, 41.6660, 69.4108



## Tritanopia

34.7343, 41.8661, 59.6764

# Trichromacy



## Original Color

36.4501, 41.9618, 67.8063

## Protanomaly

39.1701, 41.6490, 65.0061

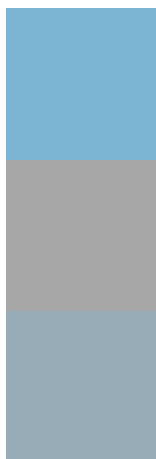
## Deuteranomaly

39.9027, 41.3666, 68.8323

## Tritanomaly

35.2532, 41.7608, 62.7025

# Monochromacy



## Original Color

36.4501, 41.9618, 67.8063

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

36.0623, 39.5033, 50.5240

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.4501, 41.9618, 67.8063 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(123, 181, 211)` looks like.

```
.text, #text, p{  
    color:rgb(123, 181, 211)  
}
```

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(123, 181, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 181, 211) }
```

## Border

The CSS property to change the border of an element to XYZ 36.4501, 41.9618, 67.8063 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(123, 181, 211) }
```



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

```
.border{ border-color:rgb(123, 181, 211) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 181, 211)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 181, 211); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 181, 211);  
box-shadow:4px 4px 4px 4px rgb(123, 181,  
211) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.4501, 41.9618, 67.8063 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 181, 211) }
```

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

```
.background{ background-color: rgb(123,  
181, 211) }
```

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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