

# Converting Colors

XYZ(50.8366, 47.6095,  
172.7718)

Have a look what the booklet for  
XYZ(50.8366, 47.6095, 172.7718)  
contains.

<b>XYZ(37.2303, 42.2452, 100.7996)</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> .....	30

# Color

**XYZ(37.2303, 42.2452,  
100.7996)**

# Conversions

## Conversions Part 1

Format	Color
Hex	42B7FF
RGB	66, 183, 255
RGB Percent	26%, 72%, 100%
CMY	0.7411, 0.2823, 0.0000
CMYK	0.74, 0.28, 0.00, 0.00
HSL	203°, 100%, 63%
HSV	203°, 74%, 100%
XYZ	37.2303, 42.2452, 100.7996
YIQ	156.2250, -92.8440, -2.4120

# Conversions

## Conversions Part 2

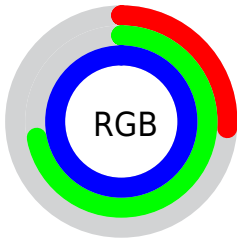
Format	Color
R <sub>YB</sub>	66, 138, 255
Decimal	4372479
CIE Lab	71.04, -9.33, -44.85
CIE LCh	71, 45.815, 258.247
Yxy	42.2452, 0.2065, 0.2343
Android (android.graphics.Color)	4282562559 (0xFF42B7FF)
YUV	156.2250, 48.6961, -79.1273
Hunter-Lab	64.9963, -11.4976, -46.4526

# Details

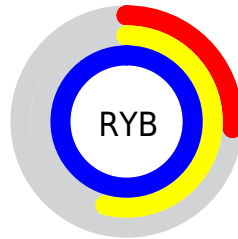
The XYZ color **37.2303, 42.2452, 100.7996** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed azure. A complement of this color would be **51.3142, 39.8343, 10.1408**, and the grayscale version is **31.5218, 33.1634, 36.1150**.

A 20% lighter version of the original color is **59.2330, 74.2714, 105.8216**, and **18.1757, 20.0425, 56.3367** is the 20% darker color. If you saturate the color by 10%, you get **33.9439, 37.6789, 100.0915**, and if you desaturate by 10%, it is **41.4228, 47.4852, 101.5901**.

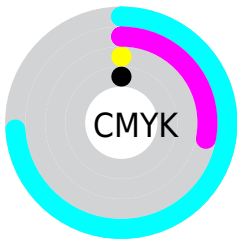
# Distribution



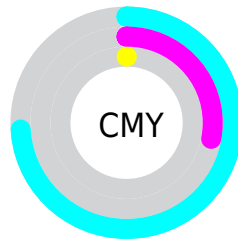
- Red (26%)
- Green (72%)
- Blue (100%)



- Red (26%)
- Yellow (54%)
- Blue (100%)



- Cyan (74%)
- Magenta (28%)
- Yellow (0%)
- Black (0%)



- Cyan (74%)
- Magenta (28%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.2303, 42.2452, 100.7996 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 37.2303, 42.2452, 100.7996 by changing the saturation by 10% instead.



37.2303, 42.2452,  
100.7996

37.2303, 42.2452,  
100.7996

325.6448,  
355.4984, 584.0218

25.5603, 29.2933,  
76.3479

70.2384, 78.5706,  
164.3170

16.6260, 19.3028,  
56.2095

92.3072, 102.7129,  
204.2198

10.0618, 11.8893,  
39.9658

118.5731,  
131.3542, 250.1101

5.5026, 6.6683,  
27.1983

149.4013,  
164.8788, 302.4063

2.5828, 3.2556,  
17.4884

185.1572,  
203.6711, 361.5270

0.9372, 1.2666,  
10.4177

226.2062,

0.0000, 0.1151,

248.1155, 427.8908

5.5676

272.9136,  
298.5965, 501.9162

■ 0.0000, 0.0000,  
2.5195

■ 0.0000, 0.0000,  
0.8504

■ 37.2303, 42.2452,  
100.7996

■ 37.2303, 42.2452,  
100.7996

■ 33.9439, 37.6789,  
100.0915

■ 41.4228, 47.4852,  
101.5901

■ 31.4463, 33.7198,  
99.4589

■ 46.6101, 53.4468,  
102.4674

■ 30.2516, 31.6233,  
99.1172

■ 52.8740, 60.1766,  
103.4362

■ 60.2861, 67.7153,  
104.5007

■ 68.9113, 76.1001,  
105.6645

■ 78.8094, 85.3653,  
106.9312

■ 90.0362, 95.5432,  
108.3040

■ 95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



31.1320, 42.2452, 85.1283



37.2303, 42.2452, 100.7996



44.9370, 42.2452, 98.7302

# Triad

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



37.2303, 42.2452, 100.7996



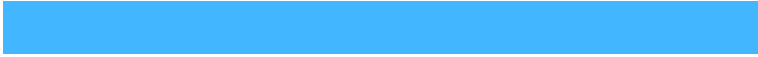
55.8062, 42.2452, 34.0277



30.1481, 42.2452, 23.2604

# Complementary

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



37.2303, 42.2452, 100.7996



51.3142, 39.8343, 10.1408

# 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.



35.7208, 42.2452, 16.4670



37.2303, 42.2452, 100.7996



50.7668, 42.2452, 21.1837

# Square

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



37.2303, 42.2452, 100.7996



56.3450, 42.2452, 55.1241



43.2244, 42.2452, 15.8521



27.4043, 42.2452, 37.9389



# Rectangle

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



37.2303, 42.2452, 100.7996



49.9649, 42.2452, 87.6505



43.2244, 42.2452, 15.8521



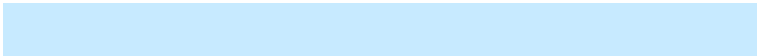
31.7176, 42.2452, 20.2108

# Sweetspot

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



37.2317, 42.2466, 100.7998



70.8935, 77.9822, 105.9233



42.4028, 74.4368, 35.1690



14.6315, 16.1756, 22.6010



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.



37.2317, 42.2466, 100.7998



32.6325, 35.6720, 99.7732



24.0571, 15.8974, 96.4083



17.9395, 19.2507, 23.0202



15.9559, 16.8213, 51.8405



1.6591, 1.8490, 5.0827



# Inverse Universe

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



51.7366, 28.5772, 47.5900



48.7746, 24.9401, 39.5525



70.4656, 78.1370, 16.5246



18.4821, 18.1762, 21.1560



24.8420, 12.4261, 18.3501

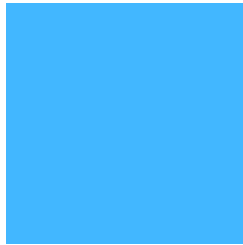


2.4721, 1.2312, 2.0673



# Previews

## White Background



This preview shows how the XYZ color 37.2303, 42.2452, 100.7996 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

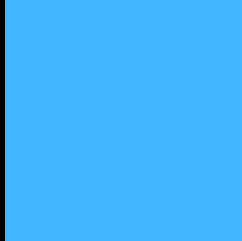
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.2303, 42.2452, 100.7996 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

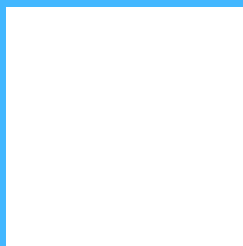
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 37.2303, 42.2452, 100.7996

## Background



This preview shows how black text looks on a background with the XYZ color 37.2303, 42.2452, 100.7996.



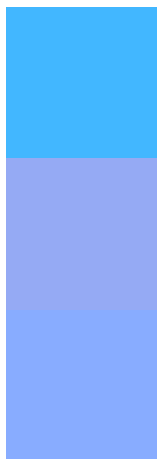
This preview shows how white text looks on a background with the XYZ color 37.2303, 42.2452,



# 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

37.2303, 42.2452, 100.7996

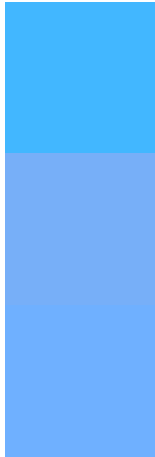
### Protanopia

43.0983, 41.6707, 91.3597

### Deuteranopia

42.9559, 41.9593, 100.4427

# Trichromacy



## Original Color

37.2303, 42.2452, 100.7996

## Protanomaly

39.8810, 41.3592, 94.6881

## Deuteranomaly

40.1309, 41.6502, 100.5319

# Monochromacy



## Original Color

37.2303, 42.2452, 100.7996

## Achromatopsia

31.5995, 33.2452, 36.2040

## Achromatomaly

31.3190, 35.2892, 55.0300

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.2303, 42.2452, 100.7996 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(66, 183, 255)` looks like.

```
.text, #text, p{  
    color:rgb(66, 183, 255)  
}
```

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(66, 183, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 183, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 37.2303, 42.2452, 100.7996 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(66, 183, 255) }
```

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

```
.border{ border-color:rgb(66, 183, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 183, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 183, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 183, 255);  
box-shadow:4px 4px 4px 4px rgb(66, 183,  
255) }
```



# Background

The CSS property to change the background color of an element to XYZ 37.2303, 42.2452, 100.7996 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 183, 255) }
```

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

```
.background{ background-color: rgb(66, 183,  
255) }
```

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