

# Converting Colors

XYZ(42.1254, 41.6933,  
100.4351)

Have a look what the booklet for  
XYZ(42.1254, 41.6933, 100.4351)  
contains.

<b>XYZ(42.1995, 41.8530, 100.4620)</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(42.1995, 41.8530,  
100.4620)**

# Conversions

## Conversions Part 1

Format	Color
Hex	82ADFF
RGB	130, 173, 255
RGB Percent	51%, 68%, 100%
CMY	0.4902, 0.3216, 0.0000
CMYK	0.49, 0.32, 0.00, 0.00
HSL	219°, 100%, 75%
HSV	219°, 49%, 100%
XYZ	42.1995, 41.8530, 100.4620
YIQ	169.4910, -51.9500, 16.3860

# Conversions

## Conversions Part 2

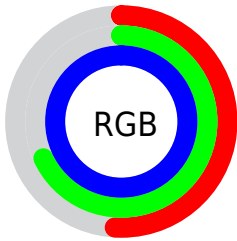
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">130, 162, 255</a>
Decimal	<a href="#">8564223</a>
CIELab	<a href="#">70.77, 7.43, -45.10</a>
CIELCh	<a href="#">71, 45.711, 279.359</a>
Yxy	<a href="#">41.8530, 0.2287, 0.2268</a>
Android (android.graphics.Color)	<a href="#">4286754303 (0xFF82ADFF)</a>
YUV	<a href="#">169.4910, 42.1559, -34.6336</a>
Hunter-Lab	<a href="#">64.6939, 3.2203, -46.7847</a>

# Details

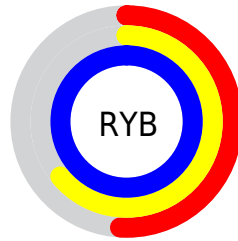
The XYZ color **42.1995, 41.8530, 100.4620** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **68.8139, 69.9603, 30.9979**, and the grayscale version is **37.7726, 39.7397, 43.2765**.

A 20% lighter version of the original color is **66.5324, 73.3982, 105.2684**, and **19.5562, 19.0541, 56.0732** is the 20% darker color. If you saturate the color by 10%, you get **35.7524, 34.0626, 99.2981**, and if you desaturate by 10%, it is **50.0201, 50.9491, 101.8056**.

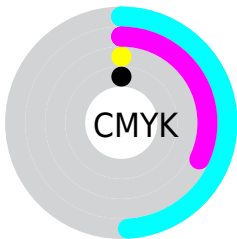
# Distribution



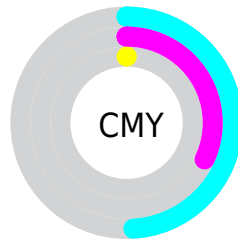
- Red (51%)
- Green (68%)
- Blue (100%)



- Red (51%)
- Yellow (64%)
- Blue (100%)



- Cyan (49%)
- Magenta (32%)
- Yellow (0%)
- Black (0%)



- Cyan (49%)
- Magenta (32%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.1995, 41.8530, 100.4620 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 42.1995, 41.8530, 100.4620 by changing the saturation by 10% instead.



■ 42.1995, 41.8530,  
100.4620

■ 42.1995, 41.8530,  
100.4620

346.2868,  
353.8732, 582.9322

■ 29.4493, 28.9862,  
76.0674

■ 77.7647, 77.9771,  
163.8493

■ 19.5670, 19.0704,  
55.9808

■ 101.3105,  
102.0032, 203.6792

■ 12.1871, 11.7211,  
39.7836

■ 129.1856,  
130.5178, 249.4911

■ 6.9443, 6.5541,  
27.0574

161.7552,  
163.9054, 301.7038

■ 3.4733, 3.1848,  
17.3835

199.3848,  
202.5504, 360.7357

■ 1.4087, 1.2290,  
10.3435

242.4397,

■ 0.2624, 0.0852,

246.8371, 427.0054

5.5187

291.2852,  
297.1499, 500.9314

■ 0.0000, 0.0000,  
2.4907

■ 0.0000, 0.0000,  
0.8352

■ 42.1995, 41.8530,  
100.4620

■ 42.1995, 41.8530,  
100.4620

■ 35.7524, 34.0626,  
99.2981

■ 50.0201, 50.9491,  
101.8056

■ 30.5868, 27.5063,  
98.3049

■ 59.2894, 61.4084,  
103.3359

■ 26.6053, 22.1115,  
97.4734

■ 70.0820, 73.2898,  
105.0604

■ 23.6923, 17.7935,  
96.7935

■ 82.4658, 86.6472,  
106.9859

■ 21.6839, 14.4413,  
96.2523

95.0500, 100.0000,  
108.9000

■ 21.5166, 14.1532,  
96.2055

# Harmonies

## Analogous

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



34.8568, 41.8530, 96.9049



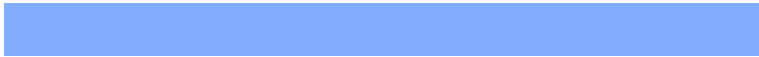
42.1995, 41.8530, 100.4620



49.7655, 41.8530, 86.0997

# Triad

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



42.1995, 41.8530, 100.4620



52.1568, 41.8530, 23.8812



27.6322, 41.8530, 32.3748

# Complementary

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



42.1995, 41.8530, 100.4620



68.8139, 69.9603, 30.9979

# 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.



31.2284, 41.8530, 20.3024



42.1995, 41.8530, 100.4620



45.1463, 41.8530, 16.5919

# Square

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



42.1995, 41.8530, 100.4620



55.9769, 41.8530, 39.1095



37.4548, 41.8530, 15.5317



27.0542, 41.8530, 52.7072



# Rectangle

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



42.1995, 41.8530, 100.4620



53.6952, 41.8530, 70.3476



37.4548, 41.8530, 15.5317



28.5041, 41.8530, 27.4246

# Sweetspot

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



42.2009, 41.8544, 100.4622



74.8621, 78.4757, 105.8094



56.7563, 80.9821, 74.4335



15.4798, 16.2082, 22.5626



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

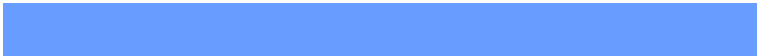


# Same Dimension

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



42.2009, 41.8544, 100.4622



35.7624, 34.0750, 99.3000



38.3831, 29.5533, 98.2891



17.5139, 18.3993, 22.8783



11.3674, 7.6443, 50.3110



1.2039, 0.9385, 4.9310



# Inverse Universe

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



56.7665, 40.2440, 44.3125



52.2724, 33.6823, 35.3337



74.4651, 91.0077, 34.7626



18.2673, 18.0902, 20.0246



22.5259, 11.4997, 6.1540



2.2423, 1.1393, 0.8572



# Previews

## White Background



This preview shows how the XYZ color 42.1995, 41.8530, 100.4620 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

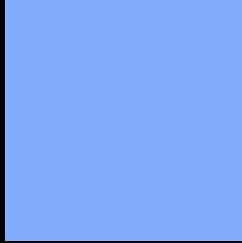
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.1995, 41.8530, 100.4620 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

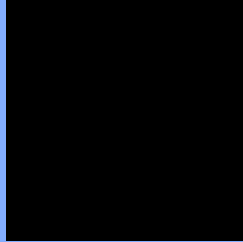
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

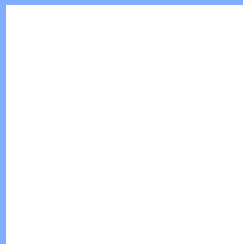
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 42.1995, 41.8530, 100.4620

## Background



This preview shows how black text looks on a background with the XYZ color 42.1995, 41.8530, 100.4620.



This preview shows how white text looks on a background with the XYZ color 42.1995, 41.8530,



# 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

42.1995, 41.8530, 100.4620

### Protanopia

43.6225, 41.7975, 97.8640

### Deuteranopia

42.9294, 41.6642, 100.3871



## Tritanopia

34.1314, 41.8492, 60.3116

# Trichromacy



## Original Color

42.1995, 41.8530, 100.4620

## Protanomaly

43.1077, 41.7931, 98.7234

## Deuteranomaly

42.6340, 41.7934, 100.4276

## Tritanomaly

36.7152, 41.6789, 73.1276

# Monochromacy



## Original Color

42.1995, 41.8530, 100.4620

## Achromatopsia

37.7116, 39.6755, 43.2066

## Achromatomaly

38.3176, 39.8881, 60.3232

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.1995, 41.8530, 100.4620 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(130, 173, 255)` looks like.

```
.text, #text, p{  
    color:rgb(130, 173, 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(130, 173, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(130, 173, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 42.1995, 41.8530, 100.4620 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(130, 173, 255) }
```



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

```
.border{ border-color:rgb(130, 173, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(130, 173, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(130, 173, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(130, 173, 255);  
box-shadow:4px 4px 4px 4px rgb(130, 173,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.1995, 41.8530, 100.4620 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(130, 173, 255) }
```

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

```
.background{ background-color: rgb(130,  
173, 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