

# Converting Colors

XYZ(28.1861, 23.8645, 97.7278)

Have a look what the booklet for  
XYZ(28.1861, 23.8645, 97.7278)  
contains.

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# Color

**XYZ(28.2234, 23.9236,  
97.7379)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4580FF
RGB	69, 128, 255
RGB Percent	27%, 50%, 100%
CMY	0.7294, 0.4980, 0.0000
CMYK	0.73, 0.50, 0.00, 0.00
HSL	221°, 100%, 64%
HSV	221°, 73%, 100%
XYZ	28.2234, 23.9236, 97.7379
YIQ	124.8370, -75.9310, 26.9890

# Conversions

## Conversions Part 2

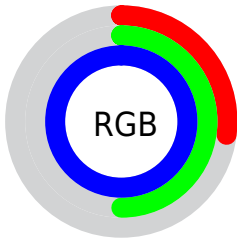
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	69, 114, 255
Decimal	4555007
CIE Lab	56.01, 23.18, -68.77
CIE LCh	56, 72.574, 288.628
Yxy	23.9236, 0.1883, 0.1596
Android (android.graphics.Color)	4282745087 (0xFF4580FF)
YUV	124.8370, 64.1704, -48.9690
Hunter-Lab	48.9118, 17.4037, -84.2380

# Details

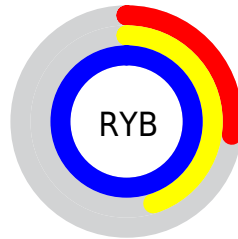
The XYZ color **28.2234, 23.9236, 97.7379** is a light color, and the websafe version is hex **3366CC**. The color can be described as light washed azure. A complement of this color would be **62.0571, 61.1749, 14.1694**, and the grayscale version is **19.2494, 20.2519, 22.0543**.

A 20% lighter version of the original color is **45.0187, 45.3515, 100.9887**, and **12.9467, 9.7685, 54.0265** is the 20% darker color. If you saturate the color by 10%, you get **24.7075, 19.0240, 96.9775**, and if you desaturate by 10%, it is **32.9075, 30.0042, 98.6647**.

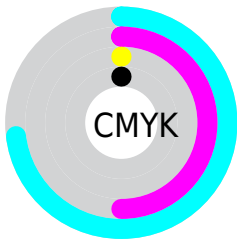
# Distribution



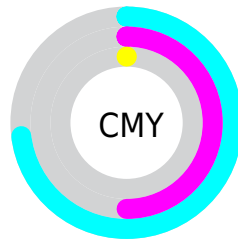
- Red (27%)
- Green (50%)
- Blue (100%)



- Red (27%)
- Yellow (45%)
- Blue (100%)



- Cyan (73%)
- Magenta (50%)
- Yellow (0%)
- Black (0%)



- Cyan (73%)
- Magenta (50%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.2234, 23.9236, 97.7379 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 28.2234, 23.9236, 97.7379 by changing the saturation by 10% instead.



■ 28.2234, 23.9236,  
97.7379

■ 28.2234, 23.9236,  
97.7379

285.5936,  
272.4340, 574.1001

■ 18.6354, 15.2770,  
73.8064

■ 56.2471, 49.9055,  
160.0697

■ 11.5096, 9.0140,  
54.1398

■ 75.4135, 68.0095,  
199.3071

■ 6.4805, 4.7503,  
38.3195

■ 98.5034, 90.0348,  
244.4835

■ 3.1828, 2.1015,  
25.9270

■ 125.8823,  
116.3658, 296.0175

■ 1.2512, 0.6655,  
16.5437

157.9154,  
147.3868, 354.3276

■ 0.1462, 0.0000,  
9.7512

194.9680,

■ 0.0000, 0.0000,

183.4822, 419.8324

5.1309

237.4057,  
225.0365, 492.9504

■ 0.0000, 0.0000,  
2.2642

■ 0.0000, 0.0000,  
0.7110

■ 28.2234, 23.9236,  
97.7379

■ 28.2234, 23.9236,  
97.7379

■ 24.7075, 19.0240,  
96.9775

■ 32.9075, 30.0042,  
98.6647

■ 22.2295, 15.2084,  
96.3716

■ 38.8637, 37.3464,  
99.7680

■ 20.9833, 13.0865,  
96.0278

■ 46.1869, 46.0251,  
101.0572

■ 54.9615, 56.1078,  
102.5408

■ 65.2649, 67.6574,  
104.2271

■ 77.1685, 80.7325,  
106.1235

■ 90.7394, 95.3886,  
108.2371

■ 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.



19.7365, 23.9236, 101.3956



28.2234, 23.9236, 97.7379



36.9309, 23.9236, 69.4061

# Triad

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



28.2234, 23.9236, 97.7379



34.9936, 23.9236, 4.6077



10.4124, 23.9236, 18.0402

# Complementary

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



28.2234, 23.9236, 97.7379



62.0571, 61.1749, 14.1694

# 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.



12.7467, 23.9236, 6.0196



28.2234, 23.9236, 97.7379



26.0308, 23.9236, 2.0272

# Square

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



28.2234, 23.9236, 97.7379



41.4489, 23.9236, 14.0125



18.0149, 23.9236, 2.3124



10.7259, 23.9236, 43.5336



# Rectangle

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



28.2234, 23.9236, 97.7379



41.0604, 23.9236, 46.4926



18.0149, 23.9236, 2.3124



10.8850, 23.9236, 12.6966

# Sweetspot

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



28.2244, 23.9242, 97.7380



66.3104, 68.8159, 104.3956



47.8412, 76.6361, 62.7253



13.5532, 14.0191, 22.2416



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.



28.2244, 23.9242, 97.7380



23.3320, 16.9630, 96.6522



25.4356, 14.1877, 96.0056



17.4732, 18.3179, 22.8647



11.0820, 7.0736, 50.2158



1.1724, 0.8754, 4.9205



# Inverse Universe

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



47.2652, 27.0763, 23.1575



44.1066, 23.1740, 14.6594



67.5757, 87.7975, 19.0172



18.2467, 18.0820, 19.9164



22.3819, 11.4420, 5.3955



2.2264, 1.1329, 0.7734



# Previews

## White Background



This preview shows how the XYZ color 28.2234, 23.9236, 97.7379 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 28.2234, 23.9236, 97.7379 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

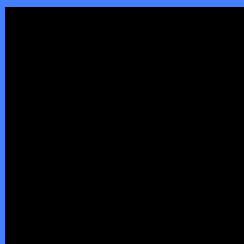
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

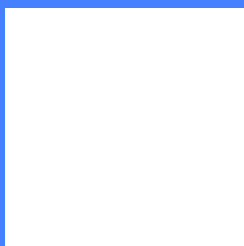
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 28.2234, 23.9236, 97.7379**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.2234, 23.9236, 97.7379.



This preview shows how white text looks on a background with the XYZ color 28.2234, 23.9236,



# 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

28.2234, 23.9236, 97.7379

### Protanopia

27.8869, 23.9446, 97.7597

### Deuteranopia

24.2368, 23.7814, 84.2018



## Tritanopia

16.8479, 23.6830, 36.4842

# Trichromacy



## Original Color

28.2234, 23.9236, 97.7379

## Protanomaly

28.0802, 24.0443, 97.7688

## Deuteranomaly

25.1176, 23.5134, 88.8026

## Tritanomaly

19.6634, 23.1515, 54.4712

# Monochromacy



## Original Color

28.2234, 23.9236, 97.7379

## Achromatopsia

19.4927, 20.5079, 22.3331

## Achromatomaly

20.7329, 20.9035, 41.9718

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.2234, 23.9236, 97.7379 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(69, 128, 255)` looks like.

```
.text, #text, p{  
    color:rgb(69, 128, 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(69, 128, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 128, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 28.2234, 23.9236, 97.7379 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(69, 128, 255) }
```



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

```
.border{ border-color:rgb(69, 128, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 128, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 128, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 128, 255);  
box-shadow:4px 4px 4px 4px rgb(69, 128,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.2234, 23.9236, 97.7379 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 128, 255) }
```

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

```
.background{ background-color: rgb(69, 128,  
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](#).

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