

# Converting Colors

XYZ(4.2571, 11.2563, 2.2470)

Have a look what the booklet for  
XYZ(4.2571, 11.2563, 2.2470)  
contains.

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# Color

**XYZ(6.1855, 12.2834,  
2.3321)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	00730A
RGB	0, 115, 10
RGB Percent	0%, 45%, 4%
CMY	1.0000, 0.5490, 0.9608
CMYK	1.00, 0.00, 0.91, 0.55
HSL	125°, 100%, 23%
HSV	125°, 100%, 45%
XYZ	6.1855, 12.2834, 2.3321
YIQ	68.6450, -34.8350, -57.0350

# Conversions

## Conversions Part 2

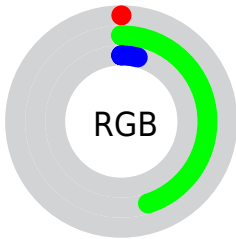
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 106, 115
Decimal	29450
CIELab	41.66, -47.43, 43.88
CIELCh	42, 64.613, 137.229
Yxy	12.2834, 0.2974, 0.5905
Android (android.graphics.Color)	4278219530 (0xFF00730A)
YUV	68.6450, -28.9120, -60.2017
Hunter-Lab	35.0477, -29.8303, 20.5882

# Details

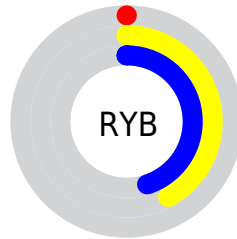
The XYZ color **6.1855, 12.2834, 2.3321** is a dark color, and the websafe version is hex **006600**. A complement of this color would be **9.6201, 4.6648, 13.7566**, and the grayscale version is **5.6487, 5.9429, 6.4718**.

A 20% lighter version of the original color is **18.0466, 29.9764, 9.9891**, and **1.8903, 3.7806, 0.6301** is the 20% darker color. If you saturate the color by 10%, you get **6.1858, 12.2839, 2.3324**, and if you desaturate by 10%, it is **6.4066, 12.3889, 2.7394**.

# Distribution



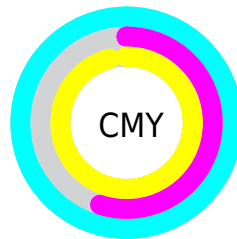
- Red (0%)
- Green (45%)
- Blue (4%)



- Red (0%)
- Yellow (42%)
- Blue (45%)



- Cyan (100%)
- Magenta (0%)
- Yellow (91%)
- Black (55%)



- Cyan (100%)
- Magenta (55%)
- Yellow (96%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 6.1855, 12.2834, 2.3321 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 6.1855, 12.2834, 2.3321 by changing the saturation by 10% instead.



6.1855, 12.2834,  
2.3321

6.1855, 12.2834,  
2.3321

155.4106,  
206.2725, 127.3374

2.9999, 6.9370,  
0.7491

18.0361, 30.0102,  
9.9303

1.1537, 3.4227,  
0.0000

27.4319, 43.1594,  
16.7983

0.0694, 1.3562,  
0.0000

39.6285, 59.6783,  
26.2701

0.0000, 0.1841,  
0.0000

54.9912, 79.9514,  
38.7645


0.0000, 0.0000,  
0.0000


73.8854, 104.3629,  
54.6999


96.6765, 133.2974,


74.4948


 123.7297,  
167.1391, 98.5678


 6.1855, 12.2834,  
2.3321


 6.1855, 12.2834,  
2.3321


 6.1858, 12.2839,  
2.3324

 6.4066, 12.3889,  
2.7394

 6.7318, 12.5431,  
3.3630

 7.2164, 12.7743,  
4.2297

 7.8777, 13.0908,  
5.3610

 8.7305, 13.5000,  
6.7760

■ 9.7881, 14.0084,  
8.4921

■ 11.0626, 14.6217,  
10.5252

■ 12.5653, 15.3456,  
12.8902

■ 14.3066, 16.1851,  
15.6010

# Harmonies

## Analogous

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



9.1805, 12.2834, 0.7075



6.1855, 12.2834, 2.3321



4.8562, 12.2834, 8.3987

# Triad

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



6.1855, 12.2834, 2.3321



9.7757, 12.2834, 58.3305



22.7096, 12.2834, 7.0423

# Complementary

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



6.1855, 12.2834, 2.3321



9.6201, 4.6648, 13.7566

# 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.



22.9965, 12.2834, 20.0066



6.1855, 12.2834, 2.3321



14.5849, 12.2834, 56.9402

# Square

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



6.1855, 12.2834, 2.3321



6.5193, 12.2834, 43.1011



19.7155, 12.2834, 40.0468



19.0137, 12.2834, 1.9125



# Rectangle

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



6.1855, 12.2834, 2.3321



4.7715, 12.2834, 16.9316



19.7155, 12.2834, 40.0468



23.2375, 12.2834, 10.3542

# Sweetspot

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



6.1858, 12.2839, 2.3324



19.6145, 26.0883, 18.5383



12.0060, 15.2907, 2.3186



4.4892, 6.1322, 4.1204



57.3938, 60.3827, 65.7568



6.9614, 7.3239, 7.9757



# Same Dimension

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



6.1858, 12.2839, 2.3324



11.0515, 21.9859, 4.0451



7.1467, 12.6683, 7.3921



3.6524, 4.1029, 4.0033



7.0672, 14.0409, 2.6438



34.2969, 68.3660, 12.1346



# Inverse Universe

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



9.6201, 4.6648, 13.7566



17.2017, 8.3432, 24.5056



7.6023, 3.8577, 3.1313



3.8136, 3.7527, 4.5450



10.9935, 5.3311, 15.7056

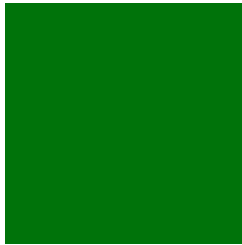


53.4135, 25.9155, 75.6980



# Previews

## White Background



This preview shows how the XYZ color 6.1855, 12.2834, 2.3321 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

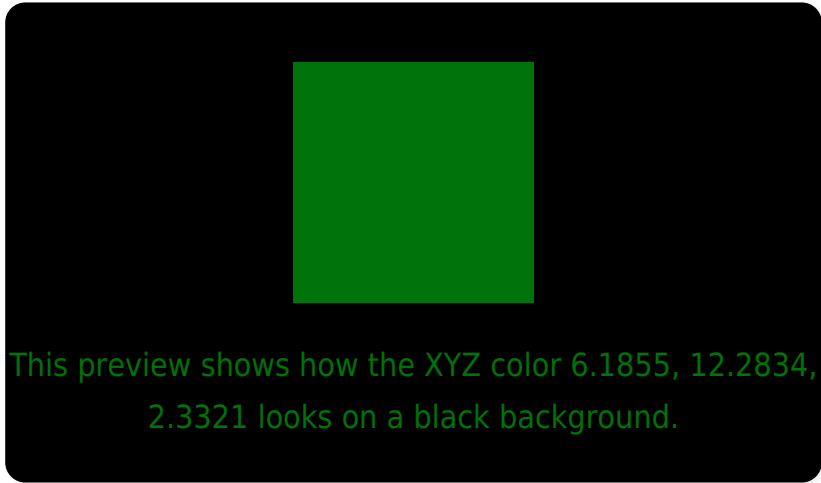
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

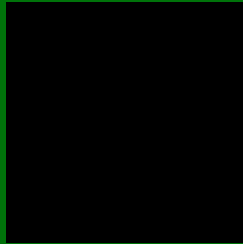
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 6.1855, 12.2834, 2.3321**

## **Background**



This preview shows how black text looks on a background with the XYZ color 6.1855, 12.2834, 2.3321.



This preview shows how white text looks on a background with the XYZ color 6.1855, 12.2834,



# 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

6.1855, 12.2834, 2.3321

### Protanopia

10.9232, 12.1149, 1.7627

### Deuteranopia

12.2692, 12.1142, 2.6689



## Tritanopia

9.6290, 12.4047, 18.4098

# Trichromacy



## Original Color

6.1855, 12.2834, 2.3321

## Protanomaly

7.5708, 11.2490, 1.8871

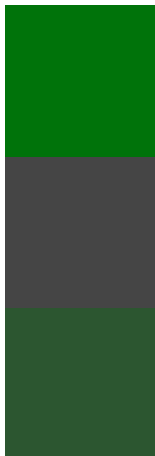
## Deuteranomaly

7.9218, 10.9776, 2.3632

## Tritanomaly

7.4806, 11.9790, 8.9391

# Monochromacy



## Original Color

6.1855, 12.2834, 2.3321

## Achromatopsia

5.6565, 5.9511, 6.4808

## Achromatomaly

4.9000, 7.4045, 3.9673

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 6.1855, 12.2834, 2.3321 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(0, 115, 10)` looks like.

```
.text, #text, p{  
    color:rgb(0, 115, 10)  
}
```

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(0, 115, 10) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 115, 10) }
```

## Border

The CSS property to change the border of an element to XYZ 6.1855, 12.2834, 2.3321 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(0, 115, 10) }
```



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

```
.border{ border-color:rgb(0, 115, 10) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 115, 10)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 115, 10); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 115, 10);  
box-shadow:4px 4px 4px 4px rgb(0, 115, 10)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 6.1855, 12.2834, 2.3321 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 115, 10) }
```

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

```
.background{ background-color: rgb(0, 115,  
10) }
```

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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