

Converting Colors

XYZ(12.6611, 21.1622, 4.8511)

Have a look what the booklet for
XYZ(12.6611, 21.1622, 4.8511)
contains.

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Color

**XYZ(12.6228, 21.0568,
4.8379)**

Conversions

Conversions Part 1

Format	Color
Hex	468F21
RGB	70, 143, 33
RGB Percent	27%, 56%, 13%
CMY	0.7255, 0.4392, 0.8706
CMYK	0.51, 0.00, 0.77, 0.44
HSL	100°, 62%, 35%
HSV	100°, 77%, 56%
XYZ	12.6228, 21.0568, 4.8379
YIQ	108.6330, -8.1980, -49.6860

Conversions

Conversions Part 2

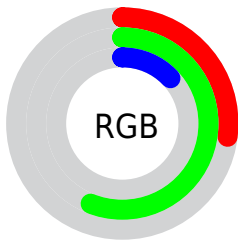
Format	Color
R_{YB}	33, 143, 106
Decimal	4624161
CIE _{Lab}	53.01, -42.36, 48.15
CIE _{LCh}	53, 64.133, 131.344
Yxy	21.0568, 0.3277, 0.5467
Android (android.graphics.Color)	4282814241 (0xFF468F21)
YUV	108.6330, -37.2871, -33.8811
Hunter-Lab	45.8877, -31.2016, 25.8705

Details

The XYZ color **12.6228, 21.0568, 4.8379** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **11.4467, 6.1357, 26.5687**, and the grayscale version is **14.5363, 15.2933, 16.6544**.

A 20% lighter version of the original color is **30.1034, 44.9644, 15.8965**, and **3.8271, 7.6543, 1.2757** is the 20% darker color. If you saturate the color by 10%, you get **11.8324, 20.6684, 3.9687**, and if you desaturate by 10%, it is **13.6076, 21.5369, 6.1615**.

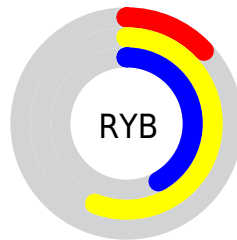
Distribution



Red (27%)

Green (56%)

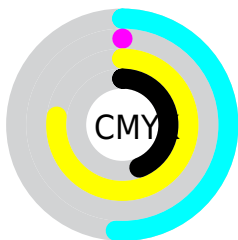
Blue (13%)



Red (13%)

Yellow (56%)

Blue (42%)

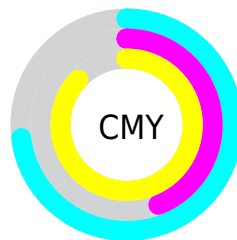


Cyan (51%)

Magenta (0%)

Yellow (77%)

Black (44%)



Cyan (73%)

Magenta (44%)

Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6228, 21.0568, 4.8379 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 12.6228, 21.0568, 4.8379 by changing the saturation by 10% instead.

■ 12.6228, 21.0568,
4.8379

■ 12.6228, 21.0568,
4.8379

202.1727,
257.5802, 157.1273

■ 7.2445, 13.1655,
2.0954

■ 30.2316, 45.1820,
15.9002

■ 3.6632, 7.5426,
0.6130

■ 43.1928, 62.1848,
25.0572

■ 1.5134, 3.8037,
0.0000

■ 59.4123, 82.9935,
37.1893

■ 0.3349, 1.5644,
0.0000

■ 79.2556, 107.9926,
52.7152

■ 0.0000, 0.3334,
0.0000

■ 103.0879,
137.5664, 72.0534

■ 0.0000, 0.0000,
0.0000

■ 131.2746,

172.0993, 95.6225

164.1811,
211.9758, 123.8409

■ 12.6228, 21.0568,
4.8379

■ 12.6228, 21.0568,
4.8379

■ 11.8324, 20.6684,
3.9687

■ 13.6076, 21.5369,
6.1615

■ 11.2132, 20.3597,
3.4653

■ 14.7997, 22.1122,
7.9888

■ 11.0464, 20.2765,
3.3316

■ 16.2122, 22.7893,
10.3644

■ 17.8569, 23.5733,
13.3276

■ 19.7445, 24.4689,
16.9140

■ 21.8851, 25.4807,
21.1564

■ 24.2879, 26.6128,
26.0854

■ 26.9620, 27.8692,
31.7294

■ 29.9159, 29.2537,
38.1156

Harmonies

Analogous

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



17.5741, 21.0568, 2.4038



12.6228, 21.0568, 4.8379



10.0839, 21.0568, 12.9953

Triad

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



12.6228, 21.0568, 4.8379



16.1520, 21.0568, 79.0434



35.5778, 21.0568, 16.3809

Complementary

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



12.6228, 21.0568, 4.8379



11.4467, 6.1357, 26.5687

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.



34.9544, 21.0568, 36.9488



12.6228, 21.0568, 4.8379



22.6696, 21.0568, 81.8691

Square

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



12.6228, 21.0568, 4.8379



11.7836, 21.0568, 57.1713



29.8406, 21.0568, 63.5422



31.3903, 21.0568, 6.1223

Rectangle

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



12.6228, 21.0568, 4.8379



9.6615, 21.0568, 23.8078



29.8406, 21.0568, 63.5422



35.9449, 21.0568, 22.0687

Sweetspot

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



12.6233, 21.0577, 4.8384



36.6225, 44.4167, 32.7631



16.6039, 15.9520, 3.6431



8.1211, 10.0545, 6.9707



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



12.6233, 21.0577, 4.8384



20.3854, 36.6120, 6.4403



11.0153, 20.1952, 6.2793



5.5032, 6.1120, 5.7791



9.7873, 17.9381, 2.9466



0.1152, 0.1827, 0.0292

Inverse Universe

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



11.4467, 6.1357, 26.5687



18.0331, 8.5221, 47.2325



15.6706, 8.4472, 20.7138



5.4524, 5.4214, 6.7878



8.5705, 3.9118, 23.2804



0.1055, 0.0495, 0.2237

Previews

White Background



This preview shows how the XYZ color 12.6228, 21.0568, 4.8379 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 12.6228, 21.0568, 4.8379 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 12.6228, 21.0568, 4.8379

Background



This preview shows how black text looks on a background with the XYZ color 12.6228, 21.0568, 4.8379.



This preview shows how white text looks on a background with the XYZ color 12.6228, 21.0568,

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

12.6228, 21.0568, 4.8379

Protanopia

18.8380, 20.7612, 4.1768

Deuteranopia

21.0571, 20.7755, 5.1857



Tritanopia

17.5414, 20.9125, 29.4975

Trichromacy



Original Color

12.6228, 21.0568, 4.8379

Protanomaly

15.6881, 20.3093, 4.3215

Deuteranomaly

16.5428, 19.9448, 4.8973

Tritanomaly

14.9240, 20.6846, 16.3027

Monochromacy



Original Color

12.6228, 21.0568, 4.8379

Achromatopsia

14.5356, 15.2926, 16.6537

Achromatomaly

13.0419, 16.7017, 10.3210

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6228, 21.0568, 4.8379 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(70, 143, 33)` looks like.

```
.text, #text, p{  
    color:rgb(70, 143, 33)  
}
```

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(70, 143, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 143, 33) }
```

Border

The CSS property to change the border of an element to XYZ 12.6228, 21.0568, 4.8379 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(70, 143, 33) }
```


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

```
.border{ border-color:rgb(70, 143, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 143, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 143, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 143, 33);  
box-shadow:4px 4px 4px 4px rgb(70, 143,  
33) }
```

Background

The CSS property to change the background color of an element to XYZ 12.6228, 21.0568, 4.8379 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 143, 33) }
```

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

```
.background{ background-color: rgb(70, 143,  
33) }
```

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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