

Converting Colors

XYZ(12.3281, 20.0527, 3.6331)

Have a look what the booklet for
XYZ(12.3281, 20.0527, 3.6331)
contains.

XYZ(12.2924, 20.0334, 3.6344)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.2924, 20.0334,
3.6344)**

Conversions

Conversions Part 1

Format	Color
Hex	4C8B0E
RGB	76, 139, 14
RGB Percent	30%, 55%, 5%
CMY	0.7020, 0.4549, 0.9451
CMYK	0.45, 0.00, 0.90, 0.45
HSL	90°, 82%, 30%
HSV	90°, 90%, 55%
XYZ	12.2924, 20.0334, 3.6344
YIQ	105.9130, 2.5770, -52.2310

Conversions

Conversions Part 2

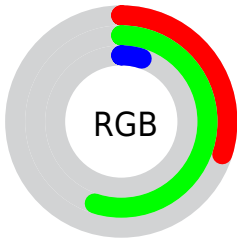
Format	Color
RYB	14, 139, 77
Decimal	5016334
CIELab	51.87, -39.71, 52.63
CIELCh	52, 65.931, 127.035
Yxy	20.0334, 0.3418, 0.5571
Android (android.graphics.Color)	4283206414 (0xFF4C8B0E)
YUV	105.9130, -45.3131, -26.2337
Hunter-Lab	44.7587, -29.3050, 26.5167

Details

The XYZ color **12.2924, 20.0334, 3.6344** is a dark color, and the websafe version is hex **669900**. A complement of this color would be **7.8789, 3.7566, 24.7370**, and the grayscale version is **13.7962, 14.5147, 15.8065**.

A 20% lighter version of the original color is **29.6326, 43.4463, 13.1275**, and **3.7034, 7.0896, 1.1732** is the 20% darker color. If you saturate the color by 10%, you get **11.6874, 19.7313, 3.1956**, and if you desaturate by 10%, it is **13.0094, 20.3887, 4.3426**.

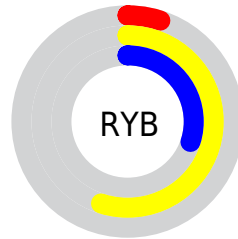
Distribution



Red (30%)

Green (55%)

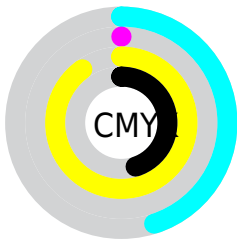
Blue (5%)



Red (5%)

Yellow (55%)

Blue (30%)

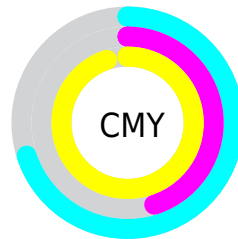


Cyan (45%)

Magenta (0%)

Yellow (90%)

Black (45%)



Cyan (70%)

Magenta (45%)

Yellow (95%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2924, 20.0334, 3.6344 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 12.2924, 20.0334, 3.6344 by changing the saturation by 10% instead.

■ 12.2924, 20.0334,
3.6344

■ 12.2924, 20.0334,
3.6344

200.0622,
252.0959, 144.0707

■ 7.0168, 12.4193,
1.4270

■ 29.6388, 43.4732,
13.1574

■ 3.5190, 7.0299,
0.1626

■ 42.4403, 60.0677,
21.3101

■ 1.4338, 3.4808,
0.0000

■ 58.4811, 80.4244,
32.2816

■ 0.2801, 1.3876,
0.0000

■ 78.1265, 104.9278,
46.4905


■ 0.0000, 0.2076,
0.0000


■ 101.7420,
133.9623, 64.3553


■ 0.0000, 0.0000,
0.0000


■ 129.6929,


167.9122, 86.2946


 162.3445,
207.1619, 112.7268


 12.2924, 20.0334,
3.6344


 12.2924, 20.0334,
3.6344


 11.6874, 19.7313,
3.1956


 13.0094, 20.3887,
4.3426

 11.6830, 19.7290,
3.1923

 13.8652, 20.8061,
5.4577

 14.8715, 21.2911,
7.0299

 16.0381, 21.8479,
9.1016

 17.3736, 22.4800,
11.7104

■ 18.8862, 23.1910,
14.8905

■ 20.5833, 23.9839,
18.6729

■ 22.4717, 24.8617,
23.0868

■ 24.5582, 25.8272,
28.1591

Harmonies

Analogous

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



17.5076, 20.0334, 1.8689



12.2924, 20.0334, 3.6344



9.4776, 20.0334, 10.3588

Triad

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



12.2924, 20.0334, 3.6344



14.4472, 20.0334, 76.4123



34.8879, 20.0334, 17.6019

Complementary

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



12.2924, 20.0334, 3.6344



7.8789, 3.7566, 24.7370

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.



33.5235, 20.0334, 39.5910



12.2924, 20.0334, 3.6344



20.6618, 20.0334, 82.6754

Square

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



12.2924, 20.0334, 3.6344



10.5028, 20.0334, 52.4059



27.8947, 20.0334, 66.4630



31.2768, 20.0334, 6.2902

Rectangle

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



12.2924, 20.0334, 3.6344



8.8615, 20.0334, 19.9611



27.8947, 20.0334, 66.4630



35.0073, 20.0334, 23.7759

Sweetspot

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



12.2929, 20.0343, 3.6348



34.5003, 41.8476, 28.1486



13.3466, 10.7597, 1.7891



7.7511, 9.5497, 6.0534



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021

Same Dimension

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



12.2929, 20.0343, 3.6348



20.7305, 35.2314, 5.7077



9.4935, 18.5912, 3.5038



5.1926, 5.7220, 5.3832



10.5638, 17.8158, 2.8820



0.0870, 0.1270, 0.0199

Inverse Universe

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



7.8789, 3.7566, 24.7370



12.6853, 5.5754, 44.1505



15.4654, 7.6676, 25.0920



4.9992, 5.0080, 6.3090



6.5095, 2.8699, 22.2565



0.0601, 0.0278, 0.1486

Previews

White Background



This preview shows how the XYZ color 12.2924, 20.0334, 3.6344 looks on a white background.

Color Contrast Check

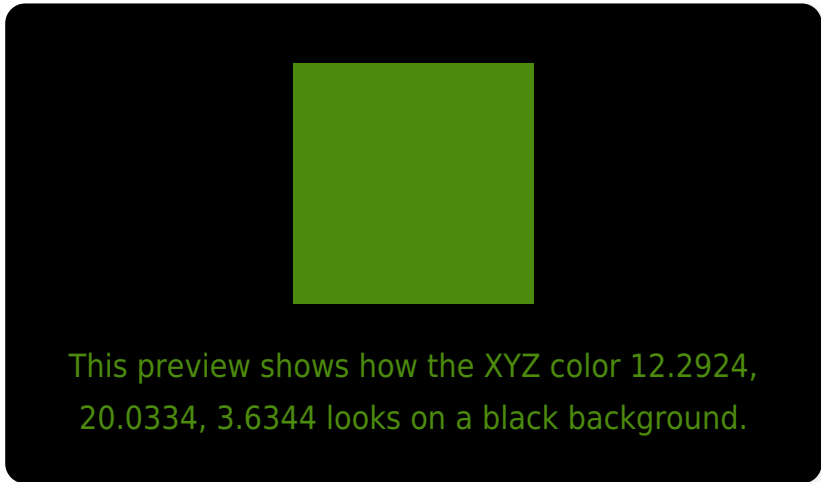
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



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 12.2924, 20.0334, 3.6344

Background



This preview shows how black text looks on a background with the XYZ color 12.2924, 20.0334, 3.6344.



This preview shows how white text looks on a background with the XYZ color 12.2924, 20.0334,

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

12.2924, 20.0334, 3.6344

Protanopia

17.7633, 19.6680, 3.0324

Deuteranopia

20.1262, 19.7901, 4.0554



Tritanopia

17.0981, 19.9211, 27.7549

Trichromacy



Original Color

12.2924, 20.0334, 3.6344

Protanomaly

15.1020, 19.4332, 3.2135

Deuteranomaly

16.1133, 19.1730, 3.7712

Tritanomaly

14.3384, 19.6094, 13.6190

Monochromacy



Original Color

12.2924, 20.0334, 3.6344

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

12.4003, 15.8708, 8.7131

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2924, 20.0334, 3.6344 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(76, 139, 14)` looks like.

```
.text, #text, p{  
    color:rgb(76, 139, 14)  
}
```

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(76, 139, 14) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 139, 14) }
```

Border

The CSS property to change the border of an element to XYZ 12.2924, 20.0334, 3.6344 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(76, 139, 14) }
```


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

```
.border{ border-color:rgb(76, 139, 14) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 139, 14)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 139, 14); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 139, 14);  
box-shadow:4px 4px 4px 4px rgb(76, 139,  
14) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2924, 20.0334, 3.6344 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 139, 14) }
```

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

```
.background{ background-color: rgb(76, 139,  
14) }
```

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