

Converting Colors

XYZ(16.7121, 12.6701, 63.8521)

Have a look what the booklet for
XYZ(16.7121, 12.6701, 63.8521)
contains.

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Color

**XYZ(16.7121, 12.6701,
63.8521)**

Conversions

Conversions Part 1

Format	Color
Hex	2F5AD4
RGB	47, 90, 212
RGB Percent	18%, 35%, 83%
CMY	0.8156, 0.6471, 0.1686
CMYK	0.78, 0.58, 0.00, 0.17
HSL	224°, 66%, 51%
HSV	224°, 78%, 83%
XYZ	16.7121, 12.6701, 63.8521
YIQ	91.0510, -64.7900, 28.8260

Conversions

Conversions Part 2

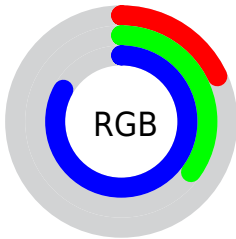
Format	Color
R _Y B	47, 81, 212
Decimal	3103444
CIE Lab	42.26, 28.98, -66.95
CIE LCh	42, 72.958, 293.408
Yxy	12.6701, 0.1792, 0.1359
Android (android.graphics.Color)	4281293524 (0xFF2F5AD4)
YUV	91.0510, 59.6279, -38.6327
Hunter-Lab	35.5951, 21.5154, -81.4406

Details

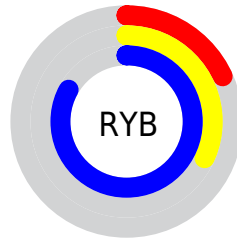
The XYZ color **16.7121, 12.6701, 63.8521** is a dark color, and the websafe version is hex **3366CC**. The color can be described as dark washed blue. A complement of this color would be **41.8555, 42.5837, 8.7042**, and the grayscale version is **9.8359, 10.3482, 11.2692**.

A 20% lighter version of the original color is **34.8993, 29.8277, 98.5257**, and **6.9777, 4.3543, 31.9252** is the 20% darker color. If you saturate the color by 10%, you get **14.7754, 9.9115, 63.4220**, and if you desaturate by 10%, it is **19.4033, 16.2316, 64.3980**.

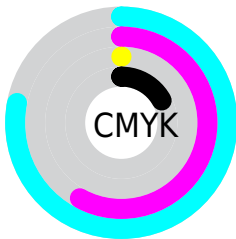
Distribution



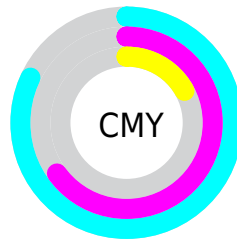
- Red (18%)
- Green (35%)
- Blue (83%)



- Red (18%)
- Yellow (32%)
- Blue (83%)



- Cyan (78%)
- Magenta (58%)
- Yellow (0%)
- Black (17%)



- Cyan (82%)
- Magenta (65%)
- Yellow (17%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.7121, 12.6701, 63.8521 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 16.7121, 12.6701, 63.8521 by changing the saturation by 10% instead.

■ 16.7121, 12.6701,
63.8521

■ 16.7121, 12.6701,
63.8521

226.6965,
208.7924, 456.8481

■ 10.1235, 7.2018,
46.0855

■ 37.3777, 30.7098,
111.9953

■ 5.5438, 3.5886,
31.9641

■ 52.1853, 44.0500,
143.2090

■ 2.6077, 1.4462,
21.0695

■ 70.4633, 60.7829,
179.7421

■ 0.9499, 0.2504,
12.9831

■ 92.5771, 81.2930,
222.0132

■ 0.0000, 0.0000,
7.2863

■ 118.8919,
105.9646, 270.4408

■ 0.0000, 0.0000,
3.5606

149.7732,

■ 0.0000, 0.0000,

135.1821, 325.4435

1.3875

185.5863,
169.3299, 387.4397

■ 0.0000, 0.0000,
0.1320

■ 0.0000, 0.0000,
0.0000

■ 16.7121, 12.6701,
63.8521

■ 16.7121, 12.6701,
63.8521

■ 14.7754, 9.9115,
63.4220

■ 19.4033, 16.2316,
64.3980

■ 13.4873, 7.8750,
63.0968

■ 22.9237, 20.6585,
65.0670

■ 13.2611, 7.5083,
63.0380

■ 27.3406, 26.0076,
65.8667

■ 32.7134, 32.3302,
66.8039

■ 39.0965, 39.6737,
67.8849

■ 46.5396, 48.0821,
69.1156

■ 55.0895, 57.5968,
70.5015

■ 64.7898, 68.2570,
72.0478

■ 75.6818, 80.0997,
73.7596

Harmonies

Analogous

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



10.8774, 12.6701, 70.3818



16.7121, 12.6701, 63.8521



22.5882, 12.6701, 40.5918

Triad

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



16.7121, 12.6701, 63.8521



19.4453, 12.6701, 0.9993



4.3357, 12.6701, 10.6246

Complementary

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



16.7121, 12.6701, 63.8521



41.8555, 42.5837, 8.7042

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.



5.4283, 12.6701, 2.5153



16.7121, 12.6701, 63.8521



13.2880, 12.6701, 0.0272

Square

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



16.7121, 12.6701, 63.8521



24.4707, 12.6701, 4.9680



8.3355, 12.6701, 0.4133



4.7503, 12.6701, 29.5147

Rectangle

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



16.7121, 12.6701, 63.8521



25.1619, 12.6701, 24.2823



8.3355, 12.6701, 0.4133



4.5244, 12.6701, 6.8692

Sweetspot

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



16.7128, 12.6704, 63.8525



64.3574, 65.9054, 103.9367



31.7848, 50.5192, 45.1237



12.9207, 13.1375, 22.1047



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.



16.7128, 12.6704, 63.8525



21.1389, 13.0316, 96.0089



16.6936, 8.7429, 63.0954



12.0031, 12.5296, 15.7233



8.2563, 4.7744, 38.9396



0.5656, 0.4232, 2.3712

Inverse Universe

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



30.0140, 16.7694, 11.3277



42.8885, 22.2616, 9.5559



41.4021, 56.2343, 11.3629



12.5547, 12.4734, 13.5956



17.2263, 8.8268, 3.2296



1.0731, 0.5460, 0.3745

Previews

White Background



This preview shows how the XYZ color 16.7121, 12.6701, 63.8521 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



This preview shows how the XYZ color 16.7121, 12.6701, 63.8521 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

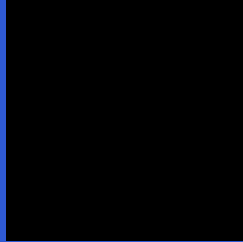
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 16.7121, 12.6701, 63.8521

Background



This preview shows how black text looks on a background with the XYZ color 16.7121, 12.6701, 63.8521.



This preview shows how white text looks on a background with the XYZ color 16.7121, 12.6701,

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

16.7121, 12.6701, 63.8521

Protanopia

14.8717, 12.4962, 58.1281

Deuteranopia

12.3914, 12.5587, 41.8154



Tritanopia

8.7868, 12.4362, 18.7669

Trichromacy



Original Color

16.7121, 12.6701, 63.8521

Protanomaly

15.2861, 12.4041, 59.9811

Deuteranomaly

13.6759, 12.4854, 49.2661

Tritanomaly

10.7489, 12.0867, 31.4722

Monochromacy



Original Color

16.7121, 12.6701, 63.8521

Achromatopsia

9.9438, 10.4616, 11.3927

Achromatomaly

11.0159, 10.7273, 24.4116

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.7121, 12.6701, 63.8521 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(47, 90, 212)` looks like.

```
.text, #text, p{  
    color:rgb(47, 90, 212)  
}
```

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(47, 90, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 90, 212) }
```

Border

The CSS property to change the border of an element to XYZ 16.7121, 12.6701, 63.8521 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(47, 90, 212) }
```


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

```
.border{ border-color:rgb(47, 90, 212) }
```

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

Here you see how a box with a 4 pixel rgb(47, 90, 212) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 90, 212); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 90, 212);  
box-shadow:4px 4px 4px 4px rgb(47, 90,  
212) }
```

Background

The CSS property to change the background color of an element to XYZ 16.7121, 12.6701, 63.8521 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 90, 212) }
```

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

```
.background{ background-color: rgb(47, 90,  
212) }
```

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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