

Converting Colors

XYZ(16.6501, 8.1170, 77.0704)

Have a look what the booklet for
XYZ(16.6501, 8.1170, 77.0704)
contains.

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Color

**XYZ(16.6601, 8.1351,
77.0361)**

Conversions

Conversions Part 1

Format	Color
Hex	312AE8
RGB	49, 42, 232
RGB Percent	19%, 16%, 91%
CMY	0.8078, 0.8353, 0.0902
CMYK	0.79, 0.82, 0.00, 0.09
HSL	242°, 81%, 54%
HSV	242°, 82%, 91%
XYZ	16.6601, 8.1351, 77.0361
YIQ	65.7530, -56.8180, 60.5740

Conversions

Conversions Part 2

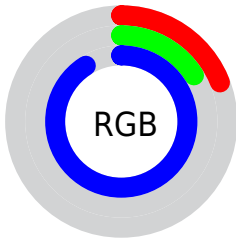
Format	Color
R _Y B	49, 42, 232
Decimal	3222248
CIE Lab	34.26, 63.17, -91.55
CIE LCh	34, 111.234, 304.606
Yxy	8.1351, 0.1636, 0.0799
Android (android.graphics.Color)	4281412328 (0xFF312AE8)
YUV	65.7530, 81.9598, -14.6924
Hunter-Lab	28.5221, 54.3503, -140.1725

Details

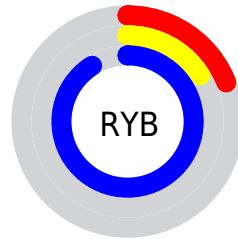
The XYZ color **16.6601, 8.1351, 77.0361** is a dark color, and the websafe version is hex **3333FF**. The color can be described as dark washed blue. A complement of this color would be **60.3194, 73.8848, 13.2721**, and the grayscale version is **5.0247, 5.2864, 5.7569**.

A 20% lighter version of the original color is **30.7167, 19.5607, 96.7644**, and **7.7379, 3.0951, 40.7470** is the 20% darker color. If you saturate the color by 10%, you get **15.2384, 6.5136, 76.7984**, and if you desaturate by 10%, it is **19.0920, 10.9825, 77.4578**.

Distribution



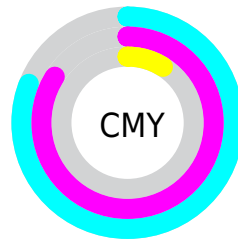
- Red (19%)
- Green (16%)
- Blue (91%)



- Red (19%)
- Yellow (16%)
- Blue (91%)



- Cyan (79%)
- Magenta (82%)
- Yellow (0%)
- Black (9%)



- Cyan (81%)
- Magenta (84%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.6601, 8.1351, 77.0361 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 16.6601, 8.1351, 77.0361 by changing the saturation by 10% instead.

■ 16.6601, 8.1351,
77.0361

■ 16.6601, 8.1351,
77.0361

226.4006,
176.7878, 504.3280

■ 10.0862, 4.1815,
56.7708

■ 37.2887, 22.2229,
130.9639

■ 5.5189, 1.7756,
40.4131

■ 52.0742, 33.1258,
165.4635

■ 2.5927, 0.4719,
27.5445

■ 70.3275, 47.1141,
205.5449

■ 0.9422, 0.0000,
17.7466

■ 92.4142, 64.5720,
251.6266

■ 0.0000, 0.0000,
10.6006

■ 118.6995, 85.8839,
304.1273

■ 0.0000, 0.0000,
5.6882

■ 149.5487,

■ 0.0000, 0.0000,

111.4342, 363.4654

2.5907

185.3273,
141.6074, 430.0594

■ 0.0000, 0.0000,
0.8877

■ 0.0000, 0.0000,
0.0000

■ 16.6601, 8.1351,
77.0361

■ 16.6601, 8.1351,
77.0361

■ 15.2384, 6.5136,
76.7984

■ 19.0920, 10.9825,
77.4578

■ 14.6729, 5.8815,
76.7062

■ 22.6734, 15.2347,
78.0898

■ 27.5235, 21.0415,
78.9550

■ 33.7464, 28.5334,
80.0731

■ 41.4352, 37.8274,
81.4618

■ 50.6749, 49.0297,
83.1371

■ 61.5441, 62.2384,
85.1137

■ 74.1160, 77.5451,
87.4056

■ 88.4594, 95.0355,
90.0256

Harmonies

Analogous

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



8.7286, 8.1351, 104.9058



16.6601, 8.1351, 77.0361



24.2530, 8.1351, 33.0136

Triad

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



16.6601, 8.1351, 77.0361



14.0466, 8.1351, 0.0000



0.8999, 8.1351, 11.8889

Complementary

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



16.6601, 8.1351, 77.0361



60.3194, 73.8848, 13.2721

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.



1.1919, 8.1351, 0.7951



16.6601, 8.1351, 77.0361



6.8146, 8.1351, 0.0000

Square

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



16.6601, 8.1351, 77.0361



22.2608, 8.1351, 0.0000



2.7489, 8.1351, 0.0000



1.4885, 8.1351, 45.7819

Rectangle

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



16.6601, 8.1351, 77.0361



26.6826, 8.1351, 12.4665



2.7489, 8.1351, 0.0000



0.9033, 8.1351, 6.0228

Sweetspot

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



16.6607, 8.1352, 77.0364



58.8824, 56.0080, 102.3149



42.6261, 60.5301, 85.7811



11.7379, 10.9389, 21.7427



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.



16.6607, 8.1352, 77.0364



18.2917, 7.4268, 95.0772



26.7785, 13.3510, 77.5099



13.6318, 13.9124, 18.1112



8.1688, 3.2770, 42.5852



0.6211, 0.2512, 3.1477

Inverse Universe

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



47.6944, 24.2466, 73.3856



57.8939, 28.0101, 89.3554



38.5827, 62.6791, 12.2548



14.9709, 14.6055, 18.0471



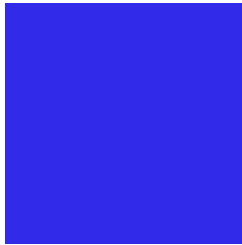
25.9122, 12.4991, 40.0282



1.9221, 0.9265, 2.9961

Previews

White Background



This preview shows how the XYZ color 16.6601, 8.1351, 77.0361 looks on a white background.

Color Contrast Check

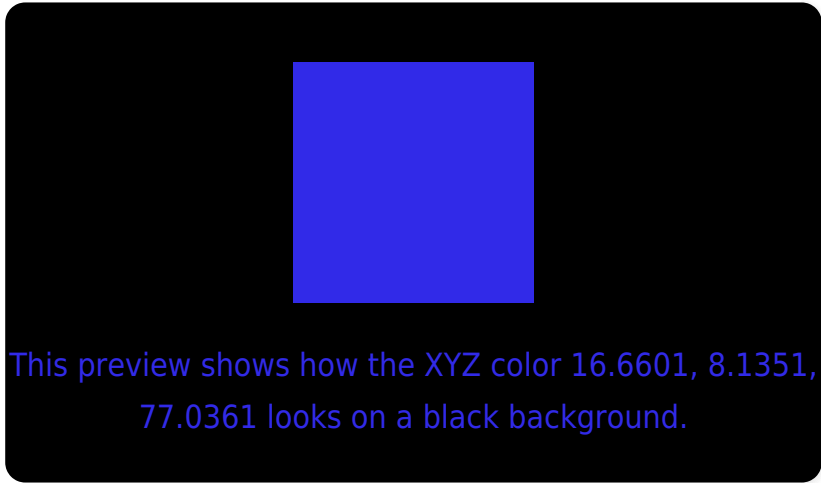
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

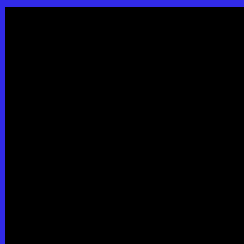
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 16.6601, 8.1351, 77.0361

Background



This preview shows how black text looks on a background with the XYZ color 16.6601, 8.1351, 77.0361.



This preview shows how white text looks on a background with the XYZ color 16.6601, 8.1351,

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

16.6601, 8.1351, 77.0361

Protanopia

9.1755, 7.9164, 35.2268

Deuteranopia

7.6047, 7.8696, 25.1629



Tritanopia

5.5482, 7.9351, 11.5951

Trichromacy



Original Color

16.6601, 8.1351, 77.0361

Protanomaly

11.0525, 7.3832, 47.8563

Deuteranomaly

9.7030, 7.1215, 39.8929

Tritanomaly

7.6009, 6.7769, 27.2930

Monochromacy



Original Color

16.6601, 8.1351, 77.0361

Achromatopsia

5.1784, 5.4480, 5.9329

Achromatomaly

7.0925, 5.3933, 20.4059

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.6601, 8.1351, 77.0361 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(49, 42, 232)` looks like.

```
.text, #text, p{  
    color:rgb(49, 42, 232)  
}
```

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(49, 42, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 42, 232) }
```

Border

The CSS property to change the border of an element to XYZ 16.6601, 8.1351, 77.0361 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(49, 42, 232) }
```


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

```
.border{ border-color:rgb(49, 42, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 42, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 42, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 42, 232);  
box-shadow:4px 4px 4px 4px rgb(49, 42,  
232) }
```

Background

The CSS property to change the background color of an element to XYZ 16.6601, 8.1351, 77.0361 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 42, 232) }
```

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

```
.background{ background-color: rgb(49, 42,  
232) }
```

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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