

Converting Colors

XYZ(12.9507, 13.1537, 37.3540)

Have a look what the booklet for
XYZ(12.9507, 13.1537, 37.3540)
contains.

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Color

**XYZ(12.9084, 13.0701,
37.4397)**

Conversions

Conversions Part 1

Format	Color
Hex	3167A5
RGB	49, 103, 165
RGB Percent	19%, 40%, 65%
CMY	0.8078, 0.5961, 0.3529
CMYK	0.70, 0.38, 0.00, 0.35
HSL	212°, 54%, 42%
HSV	212°, 70%, 65%
XYZ	12.9084, 13.0701, 37.4397
YIQ	93.9220, -52.0860, 7.8340

Conversions

Conversions Part 2

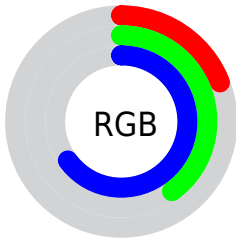
Format	Color
R _Y B	49, 86, 165
Decimal	3237797
CIE Lab	42.87, 3.26, -38.62
CIE LCh	43, 38.756, 274.832
Yxy	13.0701, 0.2035, 0.2061
Android (android.graphics.Color)	4281427877 (0xFF3167A5)
YUV	93.9220, 35.0415, -39.3966
Hunter-Lab	36.1526, 0.4670, -36.0940

Details

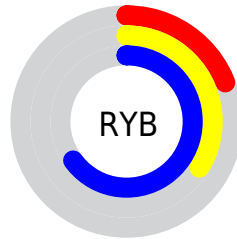
The XYZ color **12.9084, 13.0701, 37.4397** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **21.7568, 19.5914, 5.5413**, and the grayscale version is **10.5503, 11.0997, 12.0876**.

A 20% lighter version of the original color is **30.7805, 31.5297, 72.1737**, and **4.4438, 4.1185, 16.1835** is the 20% darker color. If you saturate the color by 10%, you get **11.4220, 11.0697, 37.1322**, and if you desaturate by 10%, it is **14.7797, 15.4066, 37.7924**.

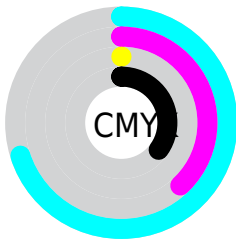
Distribution



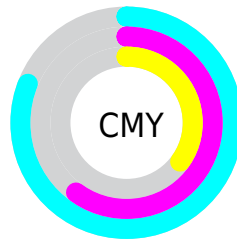
- Red (19%)
- Green (40%)
- Blue (65%)



- Red (19%)
- Yellow (34%)
- Blue (65%)



- Cyan (70%)
- Magenta (38%)
- Yellow (0%)
- Black (35%)



- Cyan (81%)
- Magenta (60%)
- Yellow (35%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9084, 13.0701, 37.4397 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 12.9084, 13.0701, 37.4397 by changing the saturation by 10% instead.

■ 12.9084, 13.0701,
37.4397

■ 12.9084, 13.0701,
37.4397

203.9793,
211.3664, 350.4361

■ 7.4421, 7.4768,
25.2497

■ 30.7418, 31.4297,
72.4424

■ 3.7888, 3.7621,
16.0424

■ 43.8397, 44.9648,
96.0921

■ 1.5834, 1.5414,
9.3995

■ 60.2120, 61.9159,
124.3989

■ 0.3815, 0.3176,
4.9023

■ 80.2242, 82.6675,
157.7811

■ 0.0000, 0.0000,
2.1323

■ 104.2417,
107.6040, 196.6574

■ 0.0000, 0.0000,
0.6349

132.6298,

■ 0.0000, 0.0000,

137.1097, 241.4463

0.0000

165.7539,
171.5691, 292.5664

■ 12.9084, 13.0701,
37.4397

■ 12.9084, 13.0701,
37.4397

■ 11.4220, 11.0697,
37.1322

■ 14.7797, 15.4066,
37.7924

■ 10.2825, 9.3811,
36.8663

■ 17.0656, 18.0982,
38.1914

■ 9.4319, 7.9974,
36.6441

■ 19.7944, 21.1634,
38.6392

■ 22.9913, 24.6190,
39.1377

■ 26.6794, 28.4805,
39.6887

■ 30.8803, 32.7625,
40.2938

■ 35.6141, 37.4787,
40.9546

■ 40.8998, 42.6422,
41.6727

■ 46.7557, 48.2656,
42.4494

Harmonies

Analogous

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



10.1558, 13.0701, 34.6718



12.9084, 13.0701, 37.4397



15.9658, 13.0701, 32.2445

Triad

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



12.9084, 13.0701, 37.4397



17.7053, 13.0701, 6.8030



7.9503, 13.0701, 8.3631

Complementary

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



12.9084, 13.0701, 37.4397



21.7568, 19.5914, 5.5413

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.



9.4469, 13.0701, 4.6057



12.9084, 13.0701, 37.4397



15.0041, 13.0701, 3.9883

Square

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



12.9084, 13.0701, 37.4397



19.0017, 13.0701, 12.9017



11.9494, 13.0701, 3.3837



7.5702, 13.0701, 15.6489

Rectangle

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



12.9084, 13.0701, 37.4397



17.6811, 13.0701, 25.8372



11.9494, 13.0701, 3.3837



8.3264, 13.0701, 6.7552

Sweetspot

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



12.9089, 13.0705, 37.4400



47.0196, 50.2193, 70.9674



17.5843, 28.7084, 19.6160



9.8907, 10.5749, 15.4574



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430

Same Dimension

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



12.9089, 13.0705, 37.4400



19.3135, 18.1733, 66.2422



9.3517, 5.6673, 36.1986



6.9595, 7.3780, 8.9604



7.1845, 6.1483, 27.7379



0.1981, 0.2236, 0.5986

Inverse Universe

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



19.0640, 11.1759, 13.9847



31.6414, 16.7946, 18.7221



28.7347, 34.7233, 8.0943



7.2045, 7.1383, 8.0635



12.7719, 6.4648, 5.9892



0.2922, 0.1454, 0.2513

Previews

White Background



This preview shows how the XYZ color 12.9084, 13.0701, 37.4397 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 12.9084, 13.0701, 37.4397 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

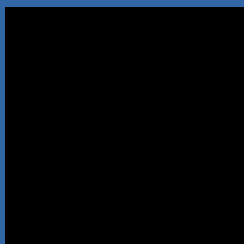
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9084, 13.0701, 37.4397

Background



This preview shows how black text looks on a background with the XYZ color 12.9084, 13.0701, 37.4397.



This preview shows how white text looks on a background with the XYZ color 12.9084, 13.0701,

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

12.9084, 13.0701, 37.4397

Protanopia

13.9554, 13.0747, 35.5063

Deuteranopia

13.3087, 12.9846, 37.4022



Tritanopia

9.2454, 12.9688, 20.1051

Trichromacy



Original Color

12.9084, 13.0701, 37.4397

Protanomaly

13.3935, 12.9163, 35.9696

Deuteranomaly

13.1738, 13.0601, 37.4238

Tritanomaly

10.2335, 12.8720, 25.6121

Monochromacy



Original Color

12.9084, 13.0701, 37.4397

Achromatopsia

10.6392, 11.1932, 12.1894

Achromatomaly

10.8067, 11.5252, 19.4243

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9084, 13.0701, 37.4397 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, 103, 165)` looks like.

```
.text, #text, p{  
    color:rgb(49, 103, 165)  
}
```

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, 103, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 103, 165) }
```

Border

The CSS property to change the border of an element to XYZ 12.9084, 13.0701, 37.4397 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, 103, 165) }
```


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

```
.border{ border-color:rgb(49, 103, 165) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 103, 165)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 103, 165); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 103, 165);  
box-shadow:4px 4px 4px 4px rgb(49, 103,  
165) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9084, 13.0701, 37.4397 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 103, 165) }
```

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

```
.background{ background-color: rgb(49, 103,  
165) }
```

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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