

# Converting Colors

XYZ(18.3362, 20.1882, 55.3640)

Have a look what the booklet for  
XYZ(18.3362, 20.1882, 55.3640)  
contains.

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# Color

**XYZ(18.2773, 20.1214,  
55.1450)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1682C4
RGB	22, 130, 196
RGB Percent	9%, 51%, 77%
CMY	0.9136, 0.4902, 0.2314
CMYK	0.89, 0.34, 0.00, 0.23
HSL	203°, 80%, 43%
HSV	203°, 89%, 77%
XYZ	18.2773, 20.1214, 55.1450
YIQ	105.2320, -85.5540, -2.3700

# Conversions

## Conversions Part 2

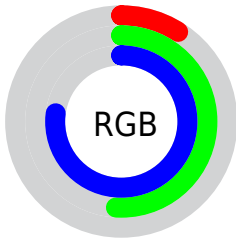
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	22, 89, 196
Decimal	1475268
CIE <sub>Lab</sub>	51.97, -4.39, -42.22
CIE <sub>LCh</sub>	52, 42.452, 264.060
Yxy	20.1214, 0.1954, 0.2151
Android (android.graphics.Color)	4279665348 (0xFF1682C4)
YUV	105.2320, 44.7486, -72.9945
Hunter-Lab	44.8569, -5.7683, -41.4886

# Details

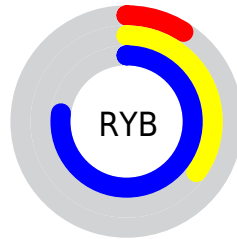
The XYZ color **18.2773, 20.1214, 55.1450** is a dark color, and the websafe version is hex **3399CC**. The color can be described as dark washed azure. A complement of this color would be **26.4016, 18.7768, 2.9929**, and the grayscale version is **13.3913, 14.0887, 15.3425**.

A 20% lighter version of the original color is **40.1426, 43.7836, 99.2638**, and **7.8249, 7.8379, 26.6916** is the 20% darker color. If you saturate the color by 10%, you get **17.0235, 18.0597, 54.8136**, and if you desaturate by 10%, it is **19.9112, 22.4856, 55.5157**.

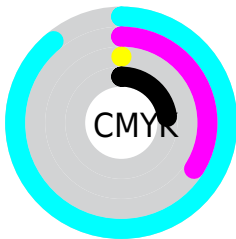
# Distribution



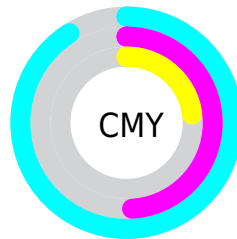
- Red (9%)
- Green (51%)
- Blue (77%)



- Red (9%)
- Yellow (35%)
- Blue (77%)



- Cyan (89%)
- Magenta (34%)
- Yellow (0%)
- Black (23%)



- Cyan (91%)
- Magenta (49%)
- Yellow (23%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.2773, 20.1214, 55.1450 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 18.2773, 20.1214, 55.1450 by changing the saturation by 10% instead.



■ 18.2773, 20.1214,  
55.1450

■ 18.2773, 20.1214,  
55.1450

235.4449,  
252.5716, 423.7588

■ 11.2501, 12.4833,  
39.1184

■ 40.0357, 43.6206,  
99.2267

■ 6.3039, 7.0737,  
26.5433

■ 55.4976, 60.2506,  
128.1188

■ 3.0731, 3.5083,  
17.0012

■ 74.5018, 80.6466,  
162.1366

■ 1.1926, 1.4025,  
10.0733

■ 97.4137, 105.1931,  
201.6986

■ 0.1005, 0.2186,  
5.3414

■ 124.5986,  
134.2744, 247.2232

■ 0.0000, 0.0000,  
2.3867

156.4218,

■ 0.0000, 0.0000,

168.2750, 299.1291

0.7792

193.2488,  
207.5793, 357.8348

■ 0.0000, 0.0000,  
0.0000

■ 18.2773, 20.1214,  
55.1450

■ 18.2773, 20.1214,  
55.1450

■ 17.0235, 18.0597,  
54.8136

■ 19.9112, 22.4856,  
55.5157

■ 16.8802, 17.8182,  
54.7745

■ 22.0079, 25.1965,  
55.9284

■ 24.6202, 28.2835,  
56.3866

■ 27.7925, 31.7716,  
56.8926

■ 31.5641, 35.6830,  
57.4488

■ 35.9704, 40.0380,  
58.0572

■ 41.0441, 44.8552,  
58.7196

■ 46.8152, 50.1520,  
59.4378

■ 53.3122, 55.9448,  
60.2135

# Harmonies

## Analogous

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



14.6487, 20.1214, 47.3900



18.2773, 20.1214, 55.1450



22.7181, 20.1214, 51.6316

# Triad

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



18.2773, 20.1214, 55.1450



27.7642, 20.1214, 13.5654



13.1530, 20.1214, 10.6953

# Complementary

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



18.2773, 20.1214, 55.1450



26.4016, 18.7768, 2.9929

# 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.



15.9319, 20.1214, 6.5670



18.2773, 20.1214, 55.1450



24.4308, 20.1214, 7.7335

# Square

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



18.2773, 20.1214, 55.1450



28.6420, 20.1214, 24.4662



19.9981, 20.1214, 5.7356



11.9907, 20.1214, 19.5361



# Rectangle

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



18.2773, 20.1214, 55.1450



25.5078, 20.1214, 43.8574



19.9981, 20.1214, 5.7356



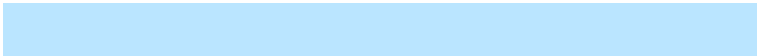
13.9067, 20.1214, 8.8671

# Sweetspot

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



18.2781, 20.1220, 55.1455



66.3227, 73.6510, 105.3282



21.7437, 40.3199, 15.4014



13.5626, 15.1505, 22.4595



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

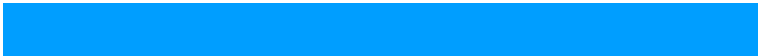


# Same Dimension

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



18.2781, 20.1220, 55.1455



30.3221, 31.7643, 99.1407



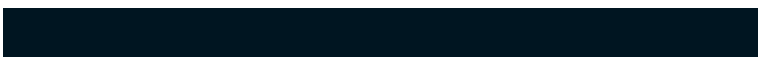
11.2420, 6.0499, 52.8002



10.0372, 10.7657, 12.8338



10.9313, 11.6191, 35.2232



0.5370, 0.6315, 1.5435



# Inverse Universe

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



27.0818, 13.9223, 22.3795



47.4344, 23.7378, 34.5493



37.8161, 41.6057, 6.7978



10.3301, 10.1806, 11.8286



16.9136, 8.4552, 12.7230



0.7635, 0.3784, 0.7218



# Previews

## White Background



This preview shows how the XYZ color 18.2773, 20.1214, 55.1450 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 18.2773, 20.1214, 55.1450 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

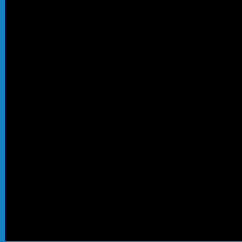
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# XYZ 18.2773, 20.1214, 55.1450

## Background



This preview shows how black text looks on a background with the XYZ color 18.2773, 20.1214, 55.1450.



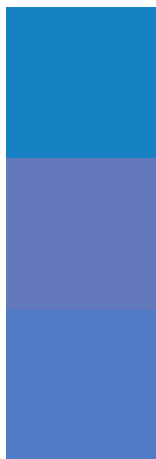
This preview shows how white text looks on a background with the XYZ color 18.2773, 20.1214,



# 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

18.2773, 20.1214, 55.1450

### Protanopia

21.0601, 19.9582, 50.3193

### Deuteranopia

20.7090, 20.1980, 56.2332



## Tritanopia

14.2121, 19.9979, 30.7147

# Trichromacy



## Original Color

18.2773, 20.1214, 55.1450

## Protanomaly

19.2102, 19.5165, 52.0448

## Deuteranomaly

19.3425, 19.8827, 55.6416

## Tritanomaly

15.4168, 19.8184, 38.6101

# Monochromacy



## Original Color

18.2773, 20.1214, 55.1450

## Achromatopsia

13.4271, 14.1263, 15.3836

## Achromatomaly

13.5064, 15.3655, 26.2987

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.2773, 20.1214, 55.1450 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(22, 130, 196)` looks like.

```
.text, #text, p{  
    color:rgb(22, 130, 196)  
}
```

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(22, 130, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(22, 130, 196) }
```

## Border

The CSS property to change the border of an element to XYZ 18.2773, 20.1214, 55.1450 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(22, 130, 196) }
```



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

```
.border{ border-color:rgb(22, 130, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(22, 130, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(22, 130, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(22, 130, 196);  
box-shadow:4px 4px 4px 4px rgb(22, 130,  
196) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.2773, 20.1214, 55.1450 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(22, 130, 196) }
```

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

```
.background{ background-color: rgb(22, 130,  
196) }
```

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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