|  |  |
| --- | --- |
| Project | **Standard for Actuator Interface for Cyber and Physical World**<https://sagroups.ieee.org/2888/ **>** |
| Title | **Root and Common Class for Actuator Interface** |
| DCN | **2888-21-0022-00-0002** |
| Date Submitted | **June 15 2021** |
| Source(s) | Yegi Lee zxcasd312@naver.com (Konkuk University)Shin Kim new.xin22@gmail.com (Konkuk University)Eunji Choi c950707@gmail.com (Konkuk University)Kyoungro Yoon yoonk@konkuk.ac.kr (Konkuk University) |
| Re: |  |
| Abstract | Proposal of root and common classes for actuator interface |
| Purpose | To start discussion on purpose of the standard |
| Notice | This document has been prepared to assist the IEEE 2888 Working Group. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. |
| Release | The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE’s name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE’s sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that IEEE 2888 may make this contribution public. |
| Patent Policy | The contributor is familiar with IEEE patent policy, as stated in [Section 6 of the IEEE-SA Standards Board bylaws](http://standards.ieee.org/guides/opman/sect6.html#6.3) <[http://standards.ieee.org/guides/bylaws/sect6-7.html#6](http://127.0.0.1:4664/cache?event_id=757737&schema_id=1&s=5X0vID10lu_E6yrIkWkNd4Wz2H8&q=hancock)> and in *Understanding Patent Issues During IEEE Standards Development* <http://standards.ieee.org/board/pat/faq.pdf> |

# Introduction

This contribution proposes the root schema and common class for interfacing actuator command.

Check all of the command data formats related to the actuator: https://www.jsonschemavalidator.net/s/0F56whFY

2 Data formats for interfacing actuator command

* 1. Root schema structure
		1. General

This clause defines the root schema structure for interfacing actuator command. This root schema structure specifies tools for describing actions that each individual device (actuators) is supposed to take.

* + 1. Syntax

|  |
| --- |
| { "$schema": "http://json-schema.org/draft-07/schema#", "title": "command data", "description": "Schema for command data", "type": "object", "properties": { "timeStamp": { "type": "string", "format": "date-time" }, "commandInfoBaseAttributes": { "$ref": "#/definitions/commandInfoBaseAttributes" }, // This is where the properties of each type of co data are declared by reference. // For Example,// "lightCommandData": {// "$ref": "#/definitions/lightCommandData"// },// "flashCommandData": {// "$ref": "#/definitions/flashCommandData"// },// … }, "additionalProperties": false, "required": [ "commandInfoBaseAttributes" ], "minProperties": 2, "maxProperties": 3, "definitions": { "commandInfoBaseAttributes": { "additionalProperties": false, "type": "object", "properties": { "id": { "type": "string" }, "actuatorIdRef": { "type": "string" },"activate": { "type": "boolean" },} },// This is where the properties of each type of command data are defined. // For Example,// "lightCommandData": {// …// },// "flashCommandData": {// …// },// …}} |

* + 1. Semantics

The semantics of the root element

| *Name* | *Definition* |
| --- | --- |
| commandInfoBaseAttributes | Describes a group of attributes for the command data. |
| timeStamp | Provides information about the time the actuator data command. |
| id | Uniquely identifies individual command data. |
| actuatorIdRef | Provides a link to the actuator that generated the data contained in this particular instance. |
| activate | Provide to command to turn on and off the device or actuator. A value of "true" means the actuator is commanded to activate, and "false" means the actuator is commanded to deactivate. In binary representation, a value of "1" means the actuator is commanded to activate, and "0" means the actuator is commanded to deactivate. |

* + 1. Examples

In this example, a light actuator commands the intensity of 100 lux with the color “blue”. This light actuator is commanded to active. The command ID of this example is “C00000001” and the actuatorIDRef is “DC-01”.

|  |
| --- |
| { "commandInfoBaseAttributes": { "id": "C00000001", "actuatorIdRef": "DC-01", "activate": true }, "lightCommandData": { "color": "blue", "intensity": 100 }} |

* 1. Common class
		1. General

This clause defines the data format of classes that shall be used commonly in defining individual actuator types. These common types can be used in terms of referencing the definition in other classes.

* + 1. Unit type
			1. General

This sub-clause specifies a data type, which describes units

* + - 1. Syntax

|  |
| --- |
| "unitType": { "type": "string", "enum": [ "micrometer", "mm", "cm", "meter", "km", "inch", "yard", "mile", "mg", "gram", "kilogram", "ton", "meterpersec", "kmperhour", "hPa", "newton", "hz", "khz", "mhz", "ghz", "volt", "watt", "ampere", "lux", "celsius", "fahrenheit", "radian", "degree", "ppm","percentage", ] }, |

* + - 1. Semantics

The semantics of the unitType:

|  |  |
| --- | --- |
| *Name* | *Definition* |
| micrometer | A unit of length or distance equal to one-millionth of a meter. |
| mm | A unit of length or distance equal to one-thousandth of a meter. |
| cm | A unit of length or distance equal to one-hundredth of a meter. |
| meter | The basic unit of length in the International System of Units. |
| km | A unit of length or distance equal to one thousand meters. |
| inch | A unit of length or distance equal to 0.0254 meters. |
| yard | A unit of length or distance equal to 0.9144 meters. |
| mile | A unit of length or distance equal to 1609.344 meters. |
| mg | A unit of mass or weight equal to one-millionth of a kilogram. |
| gram | A unit of mass or weight equal to one-thousandth of a kilogram. |
| kg | The base unit of mass in the International System of Units. |
| ton | A unit of mass or weight equal to a thousand kilogram |
| meterpersec | The SI coherent derived unit of velocity in the International System of Units. |
| kmperhour | A unit of velocity equal to a thousand meters per hour. |
| hPa | A unit for pressure, which is equal to 100 pascals. |
| newton | The SI coherent derived unit of force in the International System of Units, which is equal to one kilogram-meter per second squared. |
| hz | The derived unit of frequency in the International System of Units, which is equal to one over second. |
| khz | A unit of frequency equal to a thousand Hertz. |
| mhz | A unit of frequency equal to a million Hertz. |
| ghz | A unit of frequency equal to a billion Hertz. |
| volt | The SI coherent derived unit of electric potential difference or an electromotive force in International System of Units, which is equal to one kilogram-square meter per second cubed-ampere. |
| watt | The SI coherent derived unit of power or radiant flux in the International System of Units, which is equal to one kilogram-square meter per second cubed. |
| ampere | The basic unit of electric current in the International System of Units. |
| lux | The SI coherent derived unit of illuminance in the International System of Units, which is equal to one candela per square meter. |
| celsius | The SI coherent derived unit of Celsius temperature in the International System of Units. |
| fahrenheit | A unit of temperature which is equal to Celius temperature times nine fifths plus thirty-two. |
| radian | The SI coherent derived unit of plane angle in the International System of Units. |
| degree | A unit of plane angle which is equal to pi over hundred-eighty radian (pi is a mathematical constant whose value is the ratio of any circle’s circumference to its diameter in Euclidean space) |
| ppm | A unit of a way of quantifying small concentrations, equal to part(s) per million. |
| percentage | A unit of a way of quantifying a number or ratio expressed as a fraction of 100. |

* + 1. Color Type
			1. General

This sub-clause specifies a data type, which describes the type of colors.

* + - 1. Syntax

|  |
| --- |
| "colorType": { "type": "string", "enum": [ "alice\_blue", "alizarin", "amaranth", "amaranth\_pink", "amber", "amethyst", "apricot", "aqua", "aquamarine", "army\_green", "asparagus", "atomic\_tangerine", "auburn", "azure\_color\_wheel", "azure\_web", "baby\_blue", "beige", "bistre", "black", "blue", "blue\_pigment", "blue\_ryb", "blue-green", "blue-violet", "bondi\_blue", "brass", "bright\_green", "bright\_pink", "bright\_turquoise", "brilliant\_rose", "brink\_pink", "bronze", "brown", "buff", "burgundy", "burnt\_orange", "burnt\_sienna", "burnt\_umber", "camouflage\_green", "caput\_mortuum", "cardinal", "carmine", "carmine\_pink", "carnation\_pink", "carolina\_blue", "carrot\_orange", "celadon", "cerise", "cerise\_pink", "cerulean", "cerulean\_blue", "champagne", "charcoal", "chartreuse\_traditional", "chartreuse\_web", "cherry\_blossom\_pink", "chestnut", "chocolate", "cinnabar", "cinnamon", "cobalt", "columbia\_blue", "copper", "copper\_rose", "coral", "coral\_pink", "coral\_red", "corn", "cornflower\_blue", "cosmic\_latte", "cream", "crimson", "cyan", "cyan\_process", "dark\_blue", "dark\_brown", "dark\_cerulean", "dark\_chestnut", "dark\_coral", "dark\_goldenrod", "dark\_green", "dark\_kahki", "dark\_magenta", "dark\_pastel\_green", "dark\_pink", "dark\_scarlet", "dark\_salmon", "dark\_slate\_gray", "dark\_spring\_green", "dark\_tan", "dark\_turquoise", "dark\_violet", "deep\_carmine\_pink", "deep\_cerise", "deep\_chestnut", "deep\_fuchsia", "deep\_lilac", "deep\_magenta", "deep\_peach", "deep\_pink", "denim", "dodger\_blue", "ecru", "Egyptian\_blue", "electric\_blue", "electric\_green\_x11\_green", "electric\_indigo", "electric\_lime", "electric\_purple", "emerald", "eggplant", "falu\_red", "fern\_green", "firebrick", "flax", "forest\_green", "french\_rose", "fuchsia", "fuchsia\_pink", "gamboge", "gold\_metallic", "gold\_web\_golden", "golden\_brown", "golden\_yellow", "goldenrod", "grey-asparagus", "green\_color\_wheel\_x11\_green", "green\_pigment", "green\_ryb", "green\_yellow", "grey", "han\_purple", "harlequin", "heliotrope", "hollywood\_cerise", "hot\_magenta", "hot\_pink", "indigo\_dye", "indigo\_web", "international\_klein\_blue", "international\_orange", "islamic\_green", "ivory", "jade", "kelly\_green", "khaki", "khaki\_x11\_light\_khaki", "lavender\_floral", "lavender\_web", "lavender\_blue", "lavender\_blush", "lavender\_grey", "lavender\_magenta", "lavender\_pink", "lavender\_purple", "lavender\_rose", "lawn\_green", "lemon", "lemon\_chiffon", "light\_blue", "light\_pink", "lilac", "lime\_color\_wheel", "lime\_web\_x11\_green", "lime\_green", "linen", "magenta", "magenta\_dye", "magenta\_process", "magic\_mint", "magnolia", "malachite", "maroon\_html/css", "marron\_x11", "maya\_blue", "mauve", "mauve\_taupe", "medium\_blue", "medium\_carmine", "medium\_lavender\_magenta", "medium\_purple", "medium\_spring\_green", "midnight\_blue", "midnight\_green\_eagle\_green", "mint\_green", "misty\_rose", "moss\_green", "mountbatten\_pink", "mustard","myrtle", "navajo\_white", "navy\_blue", "ochre", "office\_green", "old\_gold", "old\_lace", "old\_lavender", "old\_rose", "olive", "olive\_drab", "olivine", "orange\_color\_wheel", "orange\_ryb", "orange\_web", "orange-red", "orchid", "pale\_blue", "pale\_brown", "pale\_carmine", "pale\_chestnut", "pale\_cornflower\_blue", "pale\_magenta", "pale\_pink", "pale\_red-violet", "papaya\_whip", "pastel\_green", "pastel\_pink", "peach", "peach-orange", "peach-yellow", "pear", "periwinkle", "persian\_blue", "persian\_green", "persian\_indigo", "persian\_orange", "persian\_red", "persian\_pink", "persian\_rose", "persimmon", "pine\_green", "pink", "pink-orange", "platinum", "plum\_web", "powder\_blue\_web", "puce", "prussian\_blue", "psychedelic\_purple", "pumpkin", "purple\_html/css", "purple\_x11", "purple\_taupe", "raw\_umber", "razzmatazz", "red", "red\_pigment", "red\_ryb", "red-violet", "rich\_carmine", "robin\_egg\_blue", "rose", "rose\_madder", "rose\_taupe", "royal\_blue", "royal\_purple", "ruby", "russet", "rust", "safety\_orange\_blaze\_orange", "saffron", "salmon", "sandy\_brown", "sangria", "sapphire", "scarlet", "school\_bus\_yellow", "sea\_green", "seashell", "selective\_yellow", "sepia", "shamrock\_green", "shocking\_pink", "silver", "sky\_blue", "slate\_grey", "smalt\_dark\_powder\_blue", "spring\_bud", "spring\_green", "steel\_blue", "tan", "tangerine", "tangerine\_yellow", "taupe", "tea\_green", "tea\_rose\_orange", "tea\_rose\_rose", "teal", "tenné\_tawny", "terra\_cotta", "thistle", "tomato", "turquoise", "tyrian\_purple", "ultramarine", "ultra\_pink", "united\_nation\_blue", "vegas\_gold", "vermillion", "violet", "violet\_web", "violet\_ryb", "viridian", "wheat", "white", "wisteria", "yellow", "yellow\_process", "yellow\_ryb", "yellow\_green" ] }, |

* + - 1. Semantics

The semantics of the colorType:

|  |  |
| --- | --- |
| *Name* | *Definition* |
| alice\_blue | Describes the color Alice blue. Hex: #F0F8FF; RGB: 240, 248, 255; HSV: 208°, 6%, 100%. |
| alizarin | Describes the color Alizarin. Hex: #E32636; RGB: 227, 38, 54; HSV: 355°, 83%, 89%. |
| amaranth | Describes the color Amaranth. Hex: #E52B50; RGB: 229, 43, 80; HSV: 345°, 78%, 64%. |
| amaranth\_pink | Describes the color Amaranth. Hex: #E52B50; RGB: 229, 43, 80; HSV: 345°, 78%, 64%. |
| amber | Describes the color Amber. Hex: #FFBF00; RGB: 255, 191, 0; HSV: 45°, 100%, 100%. |
| amethyst | Describes the color Amethyst. Hex: #9966CC; RGB: 153, 102, 204; HSV: 270°, 50%, 80%. |
| apricot | Describes the color Apricot. Hex: #FBCEB1; RGB: 251, 206, 177; HSV: 30°, 25%, 87%. |
| aqua | Describes the color Aqua. Hex: #00FFFF; RGB: 0, 255, 255; HSV: 180°, 100%, 100%. |
| aquamarine | Describes the color Aquamarine. Hex: #7FFFD4; RGB: 127, 255, 212; HSV: 160°, 50%, 100%. |
| army\_green | Describes the color Army green. Hex: #4B5320; RGB: 75, 83, 32; HSV: 46°, 106%, 54%. |
| asparagus | Describes the color Asparagus. Hex: #7BA05B; RGB: 123, 160, 91; HSV: 92°, 43%, 63%. |
| atomic\_tangerine | Describes the color Atomic tangerine. Hex: #FF9966; RGB: 255, 153, 102; HSV: 20°, 100%, 75%. |
| auburn | Describes the color Auburn. Hex: #6D351A; RGB: 111, 53, 26; HSV: 7°, 67%, 45%. |
| azure\_color\_wheel | Describes the color Azure (color wheel). Hex: #007FFF; RGB: 0, 127, 255; HSV: 210°, 100%, 50%. |
| azure\_web | Describes the color Azure (web). Hex: #F0FFFF; RGB: 240, 255, 255; HSV: 210°, 100%, 98%. |
| baby\_blue | Describes the color Baby blue. Hex: #E0FFFF; RGB: 224, 255, 255; HSV: 180°, 12%, 100%. |
| beige | Describes the color Beige. Hex: #F5F5DC; RGB: 245, 245, 220; HSV: 60°, 10%, 96%. |
| bistre | Describes the color Bistre. Hex: #3D2B1F; RGB: 61, 43, 31; HSV: 24°, 49%, 24%. |
| black | Describes the color Black. Hex: #000000; RGB: 0, 0, 0; HSV: 0°, 0%, 0%. |
| blue | Describes the color Blue. Hex: #0000FF; RGB: 0, 0, 255; HSV: 240°, 100%, 100%. |
| blue\_pigment | Describes the color Blue (pigment). Hex: #333399; RGB: 51, 51, 153; HSV: 240°, 50%, 35%. |
| blue\_ryb | Describes the color Blue (RYB). Hex: #0247FE; RGB: 2, 71, 254; HSV: 240°, 100%, 82%. |
| blue-green | Describes the color Blue-green. Hex: #00DDDD; RGB: 0, 223, 223; HSV: 180°, 100%, 50%. |
| blue-violet | Describes the color Blue-violet. Hex: #8A2BE2; RGB: 138, 43, 226; HSV: 271°, 81%, 42%. |
| bondi\_blue | Describes the color Bondi blue. Hex: #0095B6; RGB: 0, 149, 182; HSV: 191°, 100%, 71%. |
| brass | Describes the color Brass. Hex: #B5A642; RGB: 181, 166, 66; HSV: 37°, 119%, 124%. |
| bright\_green | Describes the color Bright green. Hex: #66FF00; RGB: 102, 255, 0; HSV: 96°, 100%, 100%. |
| bright\_pink | Describes the color Bright pink. Hex: #FF007F; RGB: 255, 0, 127; HSV: 330°, 100%, 100%. |
| bright\_turquoise | Describes the color Bright turquoise. Hex: #08E8DE; RGB: 8, 232, 222; HSV: 177°, 97%, 91%. |
| brilliant\_rose | Describes the color Brilliant rose. Hex: #FF55A3; RGB: 255, 85, 163; HSV: 330°, 75%, 84%. |
| brink\_pink | Describes the color Brink Pink. Hex: #FB607F; RGB: 251, 96, 127; HSV: 333°, 88%, 80%. |
| bronze | Describes the color Bronze. Hex: #CD7F32; RGB: 205, 127, 50; HSV: 21°, 155%, 128%. |
| brown | Describes the color Brown. Hex: #964B00; RGB: 150, 75, 0; HSV: 30°, 100%, 59%. |
| buff | Describes the color Buff. Hex: #F0DC82; RGB: 240, 220, 130; HSV: 49°, 46%, 94%. |
| burgundy | Describes the color Burgundy. Hex: #900020; RGB: 128, 0, 32; HSV: 345°, 50%, 50%. |
| burnt\_orange | Describes the color Burnt orange. Hex: #CC5500; RGB: 204, 85, 0; HSV: 25°, 100%, 80%. |
| burnt\_sienna | Describes the color Burnt sienna. Hex: #E97451; RGB: 233, 116, 81; HSV: 14°, 65%, 91%. |
| burnt\_umber | Describes the color Burnt umber. Hex: #8A3324; RGB: 138, 51, 36; HSV: 9°, 74%, 54%. |
| camouflage\_green | Describes the color Camouflage green. Hex: #78866B; RGB: 120, 134, 107; HSV: 91°, 20%, 53%. |
| caput\_mortuum | Describes the color Caput Mortuum. Hex: #592720; RGB: 89, 39, 32; HSV: 7°, 64%, 35%. |
| cardinal | Describes the color Cardinal. Hex: #C41E3A; RGB: 196, 30, 58; HSV: 350°, 85%, 77%. |
| carmine | Describes the color Carmine. Hex: #960018; RGB: 150, 0, 24; HSV: 350°, 100%, 59%. |
| carmine\_pink | Describes the color Carmine Pink. Hex: #EB4C42; RGB: 235, 76, 66; HSV: 0°, 75%, 80%. |
| carnation\_pink | Describes the color Carnation pink. Hex: #FFA6C9; RGB: 255, 166, 201; HSV: 330°, 100%, 80%. |
| carolina\_blue | Describes the color Carolina blue. Hex: #99BADD; RGB: 156, 186, 227; HSV: 210.9°, 30.8%, 86.7%. |
| carrot\_orange | Describes the color Carrot orange. Hex: #ED9121; RGB: 237, 145, 33; HSV: 33°, 86%, 93%. |
| celadon | Describes the color Celadon. Hex: #ACE1AF; RGB: 172, 225, 175; HSV: 123°, 24%, 88%. |
| cerise | Describes the color Cerise. Hex: #DE3163; RGB: 222, 49, 99; HSV: 343°, 78%, 87%. |
| cerise\_pink | Describes the color Cerise Pink. Hex: #EC3B83; RGB: 236, 59, 131; HSV: 343°, 70%, 89%. |
| cerulean | Describes the color Cerulean. Hex: #007BA7; RGB: 0, 123, 167; HSV: 196°, 100%, 65%. |
| cerulean\_blue | Describes the color Cerulean blue. Hex: #2A52BE; RGB: 42, 82, 190; HSV: 224°, 78%, 75%. |
| champagne | Describes the color Champagne. Hex: #F7E7CE; RGB: 247, 231, 206; HSV: 37°, 17%, 97%. |
| charcoal | Describes the color Charcoal. Hex: #464646; RGB: 70, 70, 70; HSV: 170°, 0%, 70%. |
| chartreuse\_traditional | Describes the color Chartreuse (traditional). Hex: #DFFF00; RGB: 223, 255, 0; HSV: 67.5°, 100%, 100%. |
| chartreuse\_web | Describes the color Chartreuse (web). Hex: #7FFF00; RGB: 127, 255, 0; HSV: 90°, 100%, 100%. |
| cherry\_blossom\_pink | Describes the color Cherry blossom pink. Hex: #FFB7C5; RGB: 255, 183, 197; HSV: 350°, 100%, 84%. |
| chestnut | Describes the color Chestnut. Hex: #CD5C5C; RGB: 205, 92, 92; HSV: 0°, 55%, 80%. |
| chocolate | Describes the color Chocolate. Hex: #7B3F00; RGB: 123, 63, 0; HSV: 31°, 100%, 48%. |
| cinnabar | Describes the color Cinnabar. Hex: #E34234; RGB: 227, 66, 52; HSV: 5°, 77%, 89%. |
| cinnamon | Describes the color Cinnamon. Hex: #D2691E; RGB: 210, 105, 30; HSV: 25°, 86%, 82%. |
| cobalt | Describes the color Cobalt. Hex: #0047AB; RGB: 0, 71, 171; HSV: 215°, 100%, 67%. |
| columbia\_blue | Describes the color Columbia blue. Hex: #9BDDFF; RGB: 155, 221, 255; HSV: 200°, 39%, 100%. |
| copper | Describes the color Copper. Hex: #B87333; RGB: 184, 115, 51; HSV: 29°, 72%, 72%. |
| copper\_rose | Describes the color Copper rose. Hex: #996666; RGB: 153, 102, 102; HSV: 344°, 35%, 57%. |
| coral | Describes the color Coral. Hex: #FF7F50; RGB: 255, 127, 80; HSV: 16°, 69%, 100%. |
| coral\_pink | Describes the color Coral pink. Hex: #F88379; RGB: 248, 131, 121; HSV: 16°, 69%, 100%. |
| coral\_red | Describes the color Coral red. Hex: #FF4040; RGB: 255, 64, 64; HSV: 3°, 82%, 100%. |
| corn | Describes the color Corn. Hex: #FBEC5D; RGB: 251, 236, 93; HSV: 54°, 63%, 98%. |
| cornflower\_blue | Describes the color Cornflower blue. Hex: #6495ED; RGB: 100, 149, 237; HSV: 219°, 58%, 93%. |
| cosmic\_latte | Describes the color Cosmic latte. Hex: #FFF8E7; RGB: 255, 248, 231; HSV: 40°, 94%, 90%. |
| cream | Describes the color Cream. Hex: #FFFDD0; RGB: 255, 253, 208; HSV: 57°, 18%, 100%. |
| crimson | Describes the color Crimson. Hex: #DC143C; RGB: 220, 20, 60; HSV: 348°, 91%, 86%. |
| cyan | Describes the color Cyan. Hex: #00FFFF; RGB: 0, 255, 255; HSV: 180°, 100%, 100%. |
| cyan\_process | Describes the color Cyan (process). Hex: #00B7EB; RGB: 0, 180, 247; HSV: 180°, 100%, 97%. |
| dark\_blue | Describes the color Dark blue. Hex: #00008B; RGB: 0, 0, 139; HSV: 240°, 100%, 25%. |
| dark\_brown | Describes the color Dark brown. Hex: #654321; RGB: 101, 67, 33; HSV: 30°, 67%, 40%. |
| dark\_cerulean | Describes the color Dark cerulean. Hex: #08457E; RGB: 8, 69, 126; HSV: 209°, 94%, 49%. |
| dark\_chestnut | Describes the color Dark chestnut. Hex: #986960; RGB: 152, 105, 96; HSV: 10°, 37%, 60%. |
| dark\_coral | Describes the color Dark coral. Hex: #CD5B45; RGB: 205, 91, 69; HSV: 10°, 66%, 80%. |
| dark\_goldenrod | Describes the color Dark goldenrod. Hex: #B8860B; RGB: 184, 134, 11; HSV: 43°, 94%, 72%. |
| dark\_green | Describes the color Dark green. Hex: #013220; RGB: 1, 50, 32; HSV: 158°, 98%, 20%. |
| dark\_khaki | Describes the color Dark khaki. Hex: #BDB76B; RGB: 189, 183, 107; HSV: 56°, 43%, 74%. |
| dark\_magenta | Describes the color Dark magenta. Hex: #8B008B; RGB: 139, 0, 139; HSV: 300°, 33%, 25%. |
| dark\_pastel\_green | Describes the color Dark pastel green. Hex: #03C03C; RGB: 3, 192, 60; HSV: 138°, 98%, 75%. |
| dark\_pink | Describes the color Dark pink. Hex: #E75480; RGB: 231, 84, 128; HSV: 342°, 64%, 91%. |
| dark\_scarlet | Describes the color Dark scarlet. Hex: #560319; RGB: 86, 3, 25; HSV: 8°, 100%, 13%. |
| dark\_salmon | Describes the color Dark salmon. Hex: #E9967A; RGB: 233, 150, 122; HSV: 15°, 48%, 91%. |
| dark\_slate\_gray | Describes the color Dark slate gray. Hex: #2F4F4F; RGB: 47, 79, 79; HSV: 180°, 41%, 31%. |
| dark\_spring\_green | Describes the color Dark spring green. Hex: #177245; RGB: 23, 114, 69; HSV: 150°, 80%, 45%. |
| dark\_tan | Describes the color Dark tan. Hex: #918151; RGB: 145, 129, 81; HSV: 45°, 44%, 57%. |
| dark\_turquoise | Describes the color Dark turquoise. Hex: #00CED1; RGB: 0, 206, 209; HSV: 175°, 40%, 94%. |
| dark\_violet | Describes the color Dark violet. Hex: #9400D3; RGB: 148, 0, 211; HSV: 282°, 40%, 40%. |
| deep\_carmine\_pink | Describes the color Deep Carmine Pink. Hex: #EF3038; RGB: 239, 48, 56; HSV: 10°, 80%, 80%. |
| deep\_cerise | Describes the color Deep cerise. Hex: #DA3287; RGB: 218, 50, 135; HSV: 317°, 57%, 62%. |
| deep\_chestnut | Describes the color Deep chestnut. Hex: #B94E48; RGB: 185, 78, 72; HSV: 0°, 50%, 75%. |
| deep\_fuchsia | Describes the color Deep fuchsia. Hex: #C154C1; RGB: 193, 84, 193; HSV: 300°, 67%, 72%. |
| deep\_lilac | Describes the color Deep lilac. Hex: #9955BB; RGB: 153, 85, 187; HSV: 270°, 68%, 67%. |
| deep\_magenta | Describes the color Deep magenta. Hex: #CD00CC; RGB: 204, 0, 204; HSV: 300°, 80%, 37%. |
| deep\_peach | Describes the color Deep peach. Hex: #FFCBA4; RGB: 255, 203, 164; HSV: 40°, 34%, 100%. |
| deep\_pink | Describes the color Deep pink. Hex: #FF1493; RGB: 255, 20, 147; HSV: 328°, 92%, 100%. |
| denim | Describes the color Denim. Hex: #1560BD; RGB: 21, 96, 189; HSV: 213°, 89%, 74%. |
| dodger\_blue | Describes the color Dodger blue. Hex: #1E90FF; RGB: 30, 144, 255; HSV: 210°, 88%, 100%. |
| ecru | Describes the color Ecru. Hex: #C2B280; RGB: 194, 178, 128; HSV: 39°, 27%, 77%. |
| egyptian\_blue | Describes the color Egyptian blue. Hex: #1034A6; RGB: 16, 52, 166; HSV: 244°, 77%, 42%. |
| electric\_blue | Describes the color Electric blue. Hex: #7DF9FF; RGB: 125, 249, 255; HSV: 180°, 40%, 90%. |
| electric\_green\_x11\_green | Describes the color Electric green (X11 green). Hex: #00FF00; RGB: 0, 255, 0; HSV: 120°, 100%, 100%. |
| electric\_indigo | Describes the color Electric indigo. Hex: #6600FF; RGB: 102, 0, 255; HSV: 264°, 100%, 50%. |
| electric\_lime | Describes the color Electric lime. Hex: #CCFF00; RGB: 204, 255, 0; HSV: 75°, 100%, 63%. |
| electric\_purple | Describes the color Electric purple. Hex: #BF00FF; RGB: 191, 0, 255; HSV: 285°, 100%, 80%. |
| emerald | Describes the color Emerald. Hex: #50C878; RGB: 80, 200, 120; HSV: 140°, 60%, 78%. |
| eggplant | Describes the color Eggplant. Hex: #614051; RGB: 97, 64, 81; HSV: 320°, 100%, 50%. |
| falu\_red | Describes the color Falu red. Hex: #801818; RGB: 128, 24, 24; HSV: 0°, 81%, 50%. |
| fern\_green | Describes the color Fern green. Hex: #4F7942; RGB: 79, 121, 66; HSV: 106°, 45%, 47%. |
| firebrick | Describes the color Firebrick. Hex: #B22222; RGB: 178, 34, 34; HSV: 0°, 81%, 70%. |
| flax | Describes the color Flax. Hex: #EEDC82; RGB: 238, 220, 130; HSV: 50°, 45%, 93%. |
| forest\_green | Describes the color Forest green. Hex: #228B22; RGB: 34, 139, 34; HSV: 120°, 76%, 55%. |
| french\_rose | Describes the color French Rose. Hex: #F64A8A; RGB: 246, 74, 138; HSV: 330°, 76%, 55%. |
| fuchsia | Describes the color Fuchsia. Hex: #FF00FF; RGB: 255, 0, 255; HSV: 300°, 100%, 100%. |
| fuchsia\_pink | Describes the color Fuchsia Pink. Hex: #FF77FF; RGB: 255, 119, 255; HSV: 300°, 47%, 84%. |
| gamboge | Describes the color Gamboge. Hex: #E49B0F; RGB: 228, 155, 15; HSV: 38°, 94%, 94%. |
| gold\_metallic | Describes the color Gold (metallic). Hex: #D4AF37; RGB: 212, 175, 55; HSV: 51°, 67%, 72%. |
| gold\_web\_golden | Describes the color Gold (web) (Golden). Hex: #FFD700; RGB: 255, 215, 0; HSV: 51°, 100%, 100%. |
| golden\_brown | Describes the color Golden brown. Hex: #996515; RGB: 153, 101, 21; HSV: 51°, 37%, 47%. |
| golden\_yellow | Describes the color Golden yellow. Hex: #FFDF00; RGB: 255, 223, 0; HSV: 52.5°, 100%, 100%. |
| goldenrod | Describes the color Goldenrod. Hex: #DAA520; RGB: 218, 165, 32; HSV: 43°, 85%, 85%. |
| grey-asparagus | Describes the color Grey-asparagus. Hex: #465945; RGB: 70, 89, 69; HSV: 117°, 22%, 35%. |
| green\_color\_wheel\_x11\_green | Describes the color Green (color wheel) (X11 green). Hex: #00FF00; RGB: 0, 255, 0; HSV: 120°, 100%, 100%. |
| green\_html/css\_green | Describes the color Green (HTML/CSS green). Hex: #008000; RGB: 0, 128, 0; HSV: 120°, 80%, 50%. |
| green\_pigment | Describes the color Green (pigment). Hex: #00A550; RGB: 0, 165, 80; HSV: 125°, 100%, 65%.</ |
| green\_ryb | Describes the color Green (RYB). Hex: #66B032; RGB: 102, 176, 50; HSV: 120°, 100%, 57%. |
| green-yellow | Describes the color Green-yellow. Hex: #ADFF2F; RGB: 173, 255, 47; HSV: 84°, 100%, 67%. |
| grey | Describes the color Grey. Hex: #808080; RGB: 128, 128, 128; HSV: 0°, 0%, 50%. |
| han\_purple | Describes the color Han Purple. Hex: #5218FA; RGB: 82, 24, 250; HSV: 260°, 97%, 47%. |
| harlequin | Describes the color Harlequin. Hex: #3FFF00; RGB: 63, 255, 0; HSV: 105°, 100%, 100%. |
| heliotrope | Describes the color Heliotrope. Hex: #DF73FF; RGB: 223, 115, 255; HSV: 286°, 55%, 100%. |
| hollywood\_cerise | Describes the color Hollywood Cerise. Hex: #F400A1; RGB: 244, 0, 161; HSV: 320°, 100%, 96%. |
| hot\_magenta | Describes the color Hot Magenta. Hex: #FF00CC; RGB: 255, 0, 204; HSV: 310°, 57%, 74%. |
| hot\_pink | Describes the color Hot Pink. Hex: #FF69B4; RGB: 255, 105, 180; HSV: 330°, 59%, 100%. |
| indigo\_dye | Describes the color Indigo (dye). Hex: #00416A; RGB: 0, 65, 106; HSV: 275°, 40%, 40%. |
| indigo\_web | Describes the color Indigo (web). Hex: #4B0082; RGB: 75, 0, 130; HSV: 275°, 100%, 27%. |
| international\_klein\_blue | Describes the color International Klein Blue. Hex: #002FA7; RGB: 0, 47, 167; HSV: 223°, 100%, 65%. |
| international\_orange | Describes the color International orange. Hex: #FF4F00; RGB: 255, 79, 0; HSV: 19°, 100%, 100%. |
| islamic\_green | Describes the color Islamic green. Hex: #009000; RGB: 0, 153, 0; HSV: 120°, 90%, 60%. |
| ivory | Describes the color Ivory. Hex: #FFFFF0; RGB: 255, 255, 240; HSV: 60°, 5%, 100%. |
| jade | Describes the color Jade. Hex: #00A86B; RGB: 0, 168, 107; HSV: 158°, 100%, 66%. |
| kelly\_green | Describes the color Kelly green. Hex: #4CBB17; RGB: 76, 187, 23; HSV: 120°, 48%, 48%. |
| khaki | Describes the color Khaki. Hex: #C3B091; RGB: 195, 176, 145; HSV: 37°, 26%, 76%. |
| khaki\_x11\_light\_khaki | Describes the color Khaki (X11) (Light khaki). Hex: #F0E68C; RGB: 240, 230, 140; HSV: 54°, 41%, 94%. |
| lavender\_floral | Describes the color Lavender (floral). Hex: #B57EDC; RGB: 181, 126, 220; HSV: 275°, 43%, 86%. |
| lavender\_web | Describes the color Lavender (web). Hex: #E6E6FA; RGB: 230, 230, 250; HSV: 245°, 8%, 98%. |
| lavender\_blue | Describes the color Lavender blue. Hex: #CCCCFF; RGB: 204, 204, 255; HSV: 240°, 20%, 100%. |
| lavender\_blush | Describes the color Lavender blush. Hex: #FFF0F5; RGB: 255, 240, 245; HSV: 340°, 6%, 100%. |
| lavender\_grey | Describes the color Lavender grey. Hex: #C4C3D0; RGB: 196, 195, 221; HSV: 245°, 6%, 82%. |
| lavender\_magenta | Describes the color Lavender magenta. Hex: #EE82EE; RGB: 238, 130, 238; HSV: 300°, 45%, 93%. |
| lavender\_pink | Describes the color Lavender pink. Hex: #FBAED2; RGB: 251, 174, 210; HSV: 332°, 31%, 98%. |
| lavender\_purple | Describes the color Lavender purple. Hex: #967BB6; RGB: 150, 120, 182; HSV: 270°, 60%, 65%. |
| lavender\_rose | Describes the color Lavender rose. Hex: #FBA0E3; RGB: 251, 160, 227; HSV: 310°, 57%, 90%. |
| lawn\_green | Describes the color Lawn green. Hex: #7CFC00; RGB: 124, 252, 0; HSV: 90°, 98%, 48%. |
| lemon | Describes the color Lemon. Hex: #FDE910; RGB: 253, 233, 16; HSV: 55°, 94%, 99%. |
| lemon\_chiffon | Describes the color Lemon chiffon. Hex: #FFFACD; RGB: 255, 250, 205; HSV: 54°, 20%, 100%. |
| light\_blue | Describes the color Light blue. Hex: #ADD8E6; RGB: 173, 216, 230; HSV: 240°, 90%, 80%. |
| light\_pink | Describes the color Light pink. Hex: #FFB6C1; RGB: 255, 182, 193; HSV: 351°, 100%, 86%. |
| lilac | Describes the color Lilac. Hex: #C8A2C8; RGB: 200, 162, 200; HSV: 300°, 19%, 78%. |
| lime\_color\_wheel | Describes the color Lime (color wheel). Hex: #BFFF00; RGB: 191, 255, 0; HSV: 75°, 100%, 100%. |
| lime\_web\_x11\_green | Describes the color Lime (web) (X11 green). Hex: #00FF00; RGB: 0, 255, 0; HSV: 120°, 100%, 100%. |
| lime\_green | Describes the color Lime green. Hex: #32CD32; RGB: 50, 205, 50; HSV: 120°, 67%, 40%. |
| linen | Describes the color Linen. Hex: #FAF0E6; RGB: 250, 240, 230; HSV: 30°, 8%, 98%. |
| magenta | Describes the color Magenta. Hex: #FF00FF; RGB: 255, 0, 255; HSV: 300°, 100%, 100%. |
| magenta\_dye | Describes the color Magenta (dye). Hex: #CA1F7B; RGB: 202, 31, 23; HSV: 327°, 96%, 34%. |
| magenta\_process | Describes the color Magenta (process). Hex: #FF0090; RGB: 255, 0, 144; HSV: 320°, 100%, 100%. |
| magic\_mint | Describes the color Magic mint. Hex: #AAF0D1; RGB: 170, 240, 209; HSV: 150°, 84%, 80%. |
| magnolia | Describes the color Magnolia. Hex: #F8F4FF; RGB: 248, 244, 255; HSV: 247°, 94%, 92%. |
| malachite | Describes the color Malachite. Hex: #0BDA51; RGB: 11, 218, 81; HSV: 140°, 95%, 85%. |
| maroon\_html/css | Describes the color Maroon (HTML/CSS). Hex: #800000; RGB: 128, 0, 0; HSV: 0°, 100%, 50%. |
| maroon\_x11 | Describes the color Maroon (X11). Hex: #B03060; RGB: 176, 48, 96; HSV: 333°, 65%, 42%. |
| maya\_blue | Describes the color Maya blue. Hex: #73C2FB; RGB: 115, 194, 251; HSV: 210°, 96%, 87%. |
| mauve | Describes the color Mauve. Hex: #E0B0FF; RGB: 224, 176, 255; HSV: 276°, 31%, 100%. |
| mauve\_taupe | Describes the color Mauve Taupe. Hex: #915F6D; RGB: 145, 95, 109; HSV: 285°, 37%, 54%. |
| medium\_blue | Describes the color Medium blue. Hex: #0000CD; RGB: 0, 0, 205; HSV: 240°, 100%, 40%. |
| medium\_carmine | Describes the color Medium carmine. Hex: #AF4035; RGB: 175, 64, 53; HSV: 5°, 69%, 68%. |
| medium\_lavender\_magenta | Describes the color Medium lavender magenta. Hex: #CC99CC; RGB: 204, 153, 204; HSV: 300°, 80%, 25%. |
| medium\_purple | Describes the color Medium purple. Hex: #9370DB; RGB: 147, 112, 219; HSV: 270°, 68%, 72%. |
| medium\_spring\_green | Describes the color Medium spring green. Hex: #00FA9A; RGB: 0, 250, 154; HSV: 150°, 97%, 97%. |
| midnight\_blue | Describes the color Midnight Blue. Hex: #191970; RGB: 25, 25, 112; HSV: 240°, 78%, 44%. |
| midnight\_green\_eagle\_green | Describes the color Midnight Green (Eagle Green). Hex: #004953; RGB: 0, 73, 83; HSV: 187°, 100%, 33%. |
| mint\_green | Describes the color Mint green. Hex: #98FF98; RGB: 152, 255, 152; HSV: 140°, 40%, 100%. |
| misty\_rose | Describes the color Misty rose. Hex: #FFE4E1; RGB: 255, 228, 225; HSV: 337°, 37%, 94%. |
| moss\_green | Describes the color Moss green. Hex: #ADDFAD; RGB: 173, 223, 173; HSV: 120°, 22%, 87%. |
| mountbatten\_pink | Describes the color Mountbatten pink. Hex: #997A8D; RGB: 153, 122, 141; HSV: 323°, 20%, 60%. |
| mustard | Describes the color Mustard. Hex: #FFDB58; RGB: 255, 219, 88; HSV: 47°, 65%, 100%. |
| myrtle | Describes the color Myrtle. Hex: #21421E; RGB: 33, 66, 30; HSV: 115°, 54%, 26%. |
| navajo\_white | Describes the color Navajo white. Hex: #FFDEAD; RGB: 255, 222, 173; HSV: 32°, 27%, 100%. |
| navy\_blue | Describes the color Navy Blue. Hex: #000080; RGB: 0, 0, 128; HSV: 240°, 100%, 50%. |
| ochre | Describes the color Ochre. Hex: #CC7722; RGB: 204, 119, 34; HSV: 30°, 83%, 80%. |
| office\_green | Describes the color Office green. Hex: #008000; RGB: 0, 128, 0; HSV: 120°, 80%, 50%. |
| old\_gold | Describes the color Old Gold. Hex: #CFB53B; RGB: 207, 181, 59; HSV: 49°, 71%, 81%. |
| old\_lace | Describes the color Old Lace. Hex: #FDF5E6; RGB: 253, 245, 230; HSV: 40°, 6%, 100%. |
| old\_lavender | Describes the color Old Lavender. Hex: #796878; RGB: 121, 104, 120; HSV: 270°, 3%, 22%. |
| old\_rose | Describes the color Old Rose. Hex: #C08081; RGB: 192, 128, 129; HSV: 330°, 59%, 57%. |
| olive | Describes the color Olive. Hex: #808000; RGB: 128, 128, 0; HSV: 60°, 100%, 50%. |
| olive\_drab | Describes the color Olive Drab. Hex: #6B8E23; RGB: 107, 142, 35; HSV: 80°, 75%, 56%. |
| olivine | Describes the color Olivine. Hex: #9AB973; RGB: 154, 185, 115; HSV: 58°, 80%, 141%. |
| orange\_color\_wheel | Describes the color Orange (color wheel). Hex: #FF7F00; RGB: 255, 127, 0; HSV: 30°, 100%, 100%. |
| orange\_ryb | Describes the color Orange (RYB). Hex: #FB9902; RGB: 251, 153, 2; HSV: 60°, 100%, 73%. |
| orange\_web | Describes the color Orange (web). Hex: #FFA500; RGB: 255, 165, 0; HSV: 39°, 100%, 100%. |
| orange\_peel | Describes the color Orange Peel. Hex: #FFA000; RGB: 255, 160, 0; HSV: 38°, 100%, 100%. |
| orange-red | Describes the color Orange-Red. Hex: #FF4500; RGB: 255, 69, 0; HSV: 5°, 100%, 52%. |
| orchid | Describes the color Orchid. Hex: #DA70D6; RGB: 218, 112, 214; HSV: 302°, 49%, 85%. |
| pale\_blue | Describes the color Pale blue. Hex: #AFEEEE; RGB: 175, 238, 238; HSV: 180°, 26%, 93%. |
| pale\_brown | Describes the color Pale brown. Hex: #987654; RGB: 152, 118, 84; HSV: 30°, 45%, 60%. |
| pale\_carmine | Describes the color Pale carmine. Hex: #AF4035; RGB: 175, 64, 53; HSV: 5°, 69%, 68%. |
| pale\_chestnut | Describes the color Pale chestnut. Hex: #DDADAF; RGB: 221, 173, 175; HSV: 358°, 22%, 87%. |
| pale\_cornflower\_blue | Describes the color Pale cornflower blue. Hex: #ABCDEF; RGB: 171, 205, 239; HSV: 210°, 28%, 94%. |
| pale\_magenta | Describes the color Pale magenta. Hex: #F984E5; RGB: 249, 132, 229; HSV: 310°, 47%, 98%. |
| pale\_pink | Describes the color Pale pink. Hex: #FADADD; RGB: 250, 218, 221; HSV: 354°, 13%, 98%. |
| pale\_red-violet | Describes the color Pale red-violet. Hex: #DB7093; RGB: 219, 112, 147; HSV: 340°, 49%, 86%. |
| papaya\_whip | Describes the color Papaya whip. Hex: #FFEFD5; RGB: 255, 239, 213; HSV: 37°, 16%, 100%. |
| pastel\_green | Describes the color Pastel green. Hex: #77DD77; RGB: 119, 221, 119; HSV: 120°, 46%, 87%. |
| pastel\_pink | Describes the color Pastel pink. Hex: #FFD1DC; RGB: 255, 209, 220; HSV: 346°, 18%, 100%. |
| peach | Describes the color Peach. Hex: #FFE5B4; RGB: 255, 229, 180; HSV: 39°, 29%, 100%. |
| peach-orange | Describes the color Peach-orange. Hex: #FFCC99; RGB: 255, 204, 153; HSV: 30°, 40%, 100%. |
| peach-yellow | Describes the color Peach-yellow. Hex: #FADFAD; RGB: 250, 223, 173; HSV: 39°, 31%, 98%. |
| pear | Describes the color Pear. Hex: #D1E231; RGB: 209, 226, 49; HSV: 66°, 78%, 89%. |
| periwinkle | Describes the color Periwinkle. Hex: #CCCCFF; RGB: 204, 204, 255; HSV: 240°, 20%, 100%. |
| persian\_blue | Describes the color Persian blue. Hex: #1C39BB; RGB: 28, 57, 187; HSV: 248°, 75%, 50%. |
| persian\_green | Describes the color Persian green. Hex: #00A693; RGB: 0, 166, 147; HSV: 135°, 75%, 60%. |
| persian\_indigo | Describes the color Persian indigo. Hex: #32127A; RGB: 50, 18, 122; HSV: 249°, 85%, 49%. |
| persian\_orange | Describes the color Persian orange. Hex: #D99058; RGB: 217, 144, 88; HSV: 26°, 59%, 85%. |
| persian\_red | Describes the color Persian red. Hex: #CC3333; RGB: 204, 51, 51; HSV: 5°, 50%, 50%. |
| persian\_pink | Describes the color Persian pink. Hex: #F77FBE; RGB: 247, 127, 190; HSV: 330°, 72%, 77%. |
| persian\_rose | Describes the color Persian rose. Hex: #FE28A2; RGB: 254, 40, 162; HSV: 318°, 96%, 88%. |
| persimmon | Describes the color Persimmon. Hex: #EC5800; RGB: 236, 88, 0; HSV: 10°, 85%, 94%. |
| pine\_green | Describes the color Pine Green. Hex: #01796F; RGB: 1, 121, 111; HSV: 175°, 99%, 47%. |
| pink | Describes the color Pink. Hex: #FFC0CB; RGB: 255, 192, 203; HSV: 350°, 25%, 100%. |
| pink-orange | Describes the color Pink-orange. Hex: #FF9966; RGB: 255, 153, 102; HSV: 20°, 60%, 100%. |
| platinum | Describes the color Platinum. Hex: #E5E4E2; RGB: 229, 228, 226; HSV: 40°, 1%, 90%. |
| plum\_web | Describes the color Plum (web). Hex: #CC99CC; RGB: 204, 153, 204; HSV: 300°, 80%, 25%. |
| powder\_blue\_web | Describes the color Powder blue (web). Hex: #B0E0E6; RGB: 176, 224, 230; HSV: 220°, 70%, 90%. |
| puce | Describes the color Puce. Hex: #CC8899; RGB: 204, 136, 153; HSV: 345°, 33%, 80%. |
| prussian\_blue | Describes the color Prussian blue. Hex: #003153; RGB: 0, 49, 83; HSV: 205°, 100%, 33%. |
| psychedelic\_purple | Describes the color Psychedelic purple. Hex: #DD00FF; RGB: 221, 0, 255; HSV: 290°, 100%, 92%. |
| pumpkin | Describes the color Pumpkin. Hex: #FF7518; RGB: 255, 117, 24; HSV: 24°, 90%, 100%. |
| purple\_html/css | Describes the color Purple (HTML/CSS). Hex: #800080; RGB: 128, 0, 128; HSV: 300°, 67%, 44%. |
| purple\_x11 | Describes the color Purple (X11). Hex: #A020F0; RGB: 160, 92, 240; HSV: 285°, 97%, 77%. |
| purple\_taupe | Describes the color Purple Taupe. Hex: #50404D; RGB: 80, 64, 77; HSV: 285°, 19%, 33%. |
| raw\_umber | Describes the color Raw umber. Hex: #734A12; RGB: 115, 74, 18; HSV: 34°, 84%, 45%. |
| razzmatazz | Describes the color Razzmatazz. Hex: #E30B5C; RGB: 227, 11, 92; HSV: 339°, 100%, 70%. |
| red | Describes the color Red. Hex: #FF0000; RGB: 255, 0, 0; HSV: 0°, 100%, 100%. |
| red\_pigment | Describes the color Red (pigment). Hex: #ED1C24; RGB: 237, 28, 36; HSV: 0°, 100%, 65%. |
| red\_ryb | Describes the color Red (RYB). Hex: #FE2712; RGB: 254, 39, 18; HSV: 0°, 100%, 87%. |
| red-violet | Describes the color Red-violet. Hex: #C71585; RGB: 199, 21, 133; HSV: 322°, 89%, 78%. |
| rich\_carmine | Describes the color Rich carmine. Hex: #D70040; RGB: 215, 0, 64; HSV: 356°, 94%, 44%. |
| robin\_egg\_blue | Describes the color Robin egg blue. Hex: #00CCCC; RGB: 0, 204, 204; HSV: 180°, 100%, 80%. |
| rose | Describes the color Rose. Hex: #FF007F; RGB: 255, 0, 127; HSV: 330°, 100%, 100%. |
| rose\_madder | Describes the color Rose Madder. Hex: #E32636; RGB: 227, 38, 54; HSV: 355°, 83%, 89%. |
| rose\_taupe | Describes the color Rose Taupe. Hex: #905D5D; RGB: 144, 93, 93; HSV: 330°, 42%, 46%. |
| royal\_blue | Describes the color Royal blue. Hex: #4169E1; RGB: 65, 105, 225; HSV: 225°, 71%, 88%. |
| royal\_purple | Describes the color Royal purple. Hex: #6B3FA0; RGB: 107, 63, 160; HSV: 273°, 62%, 54%. |
| ruby | Describes the color Ruby. Hex: #E0115F; RGB: 224, 17, 95; HSV: 338°, 100%, 40%. |
| russet | Describes the color Russet. Hex: #80461B; RGB: 128, 70, 27; HSV: 25°, 78%, 50%. |
| rust | Describes the color Rust. Hex: #B7410E; RGB: 183, 65, 14; HSV: 18°, 92%, 72%. |
| safety\_orange\_blaze\_orange | Describes the color Safety orange (blaze orange). Hex: #FF6600; RGB: 255, 102, 0; HSV: 24°, 100%, 100%. |
| saffron | Describes the color Saffron. Hex: #F4C430; RGB: 244, 196, 48; HSV: 45°, 80%, 96%. |
| salmon | Describes the color Salmon. Hex: #FF8C69; RGB: 255, 140, 105; HSV: 14°, 59%, 100%. |
| sandy\_brown | Describes the color Sandy brown. Hex: #F4A460; RGB: 244, 164, 96; HSV: 28°, 61%, 96%. |
| sangria | Describes the color Sangria. Hex: #92000A; RGB: 146, 0, 10; HSV: 356°, 100%, 57%. |
| sapphire | Describes the color Sapphire. Hex: #082567; RGB: 8, 37, 103; HSV: 222°, 92%, 40%. |
| scarlet | Describes the color Scarlet. Hex: #FF2400; RGB: 255, 36, 0; HSV: 8°, 100%, 100%. |
| school\_bus\_yellow | Describes the color School bus yellow. Hex: #FFD800; RGB: 255, 216, 0; HSV: 36°, 100%, 50%. |
| sea\_green | Describes the color Sea Green. Hex: #2E8B57; RGB: 46, 139, 87; HSV: 146°, 77%, 55%. |
| seashell | Describes the color Seashell. Hex: #FFF5EE; RGB: 255, 245, 238; HSV: 25°, 7%, 100%. |
| selective\_yellow | Describes the color Selective yellow. Hex: #FFBA00; RGB: 255, 186, 0; HSV: 44°, 100%, 100%. |
| sepia | Describes the color Sepia. Hex: #704214; RGB: 112, 66, 20; HSV: 30°, 82%, 44%. |
| shamrock\_green | Describes the color Shamrock green. Hex: #009E60; RGB: 0, 158, 96; HSV: 120°, 91%, 75%. |
| shocking\_pink | Describes the color Shocking Pink. Hex: #FC0FC0; RGB: 252, 15, 192; HSV: 315°, 94%, 99%. |
| silver | Describes the color Silver. Hex: #C0C0C0; RGB: 192, 192, 192; HSV: 0°, 0%, 75%. |
| sky\_blue | Describes the color Sky Blue. Hex: #87CEEB; RGB: 135, 206, 235; HSV: 210°, 67%, 96%. |
| slate\_grey | Describes the color Slate grey. Hex: #708090; RGB: 112, 128, 144; HSV: 210°, 33%, 56%. |
| smalt\_dark\_powder\_blue | Describes the color Smalt (Dark powder blue). Hex: #003399; RGB: 0, 51, 153; HSV: 200°, 70%, 60%. |
| spring\_bud | Describes the color Spring bud. Hex: #A7FC00; RGB: 167, 252, 0; HSV: 88°, 90%, 63%. |
| spring\_green | Describes the color Spring green. Hex: #00FF7F; RGB: 0, 255, 127; HSV: 150°, 100%, 100%. |
| steel\_blue | Describes the color Steel blue. Hex: #4682B4; RGB: 70, 130, 180; HSV: 207°, 61%, 71%. |
| tan | Describes the color Tan. Hex: #D2B48C; RGB: 210, 180, 140; HSV: 34°, 33%, 82%. |
| tangerine | Describes the color Tangerine. Hex: #F28500; RGB: 242, 133, 0; HSV: 33°, 100%, 95%. |
| tangerine\_yellow | Describes the color Tangerine yellow. Hex: #FFCC00; RGB: 255, 204, 0; HSV: 33°, 100%, 50%. |
| taupe | Describes the color Taupe. Hex: #483C32; RGB: 72, 60, 50; HSV: 30°, 17%, 34%. |
| tea\_green | Describes the color Tea Green. Hex: #D0F0C0; RGB: 208, 240, 192; HSV: 100°, 20%, 94%. |
| tea\_rose\_orange | Describes the color Tea rose (orange). Hex: #F88379; RGB: 248, 131, 194; HSV: 16°, 70%, 70%. |
| tea\_rose\_rose | Describes the color Tea rose (rose). Hex: #F4C2C2; RGB: 244, 194, 194; HSV: 337°, 47%, 93%. |
| teal | Describes the color Teal. Hex: #008080; RGB: 0, 128, 128; HSV: 180°, 100%, 50%. |
| tenné\_tawny | Describes the color Tenné (Tawny). Hex: #CD5700; RGB: 205, 87, 0; HSV: 25°, 100%, 80%. |
| terra\_cotta | Describes the color Terra cotta. Hex: #E2725B; RGB: 226, 114, 91; HSV: 10°, 70%, 62%. |
| thistle | Describes the color Thistle. Hex: #D8BFD8; RGB: 216, 191, 216; HSV: 300°, 12%, 85%. |
| tomato | Describes the color Tomato. Hex: #FF6347; RGB: 255, 99, 71; HSV: 15°, 75%, 50%. |
| turquoise | Describes the color Turquoise. Hex: #30D5C8; RGB: 48, 213, 200; HSV: 175°, 77%, 84%. |
| tyrian\_purple | Describes the color Tyrian purple. Hex: #66023C; RGB: 102, 2, 60; HSV: 277°, 67%, 44%. |
| ultramarine | Describes the color Ultramarine. Hex: #120A8F; RGB: 18 , 10 , 143; HSV: 244°, 93%, 56%. |
| ultra\_pink | Describes the color Ultra pink. Hex: #FF6FFF; RGB: 255, 111, 255; HSV: 300°, 48%, 83%. |
| united\_nations\_blue | Describes the color United Nations blue. Hex: #5B92E5; RGB: 91, 146, 229; HSV: 210°, 60%, 90%. |
| vegas\_gold | Describes the color Vegas Gold. Hex: #C5B358; RGB: 197, 179, 88; HSV: 50°, 55%, 77%. |
| vermilion | Describes the color Vermilion. Hex: #E34234; RGB: 227, 66, 51; HSV: 5°, 77%, 89%. |
| violet | Describes the color Violet. Hex: #8B00FF; RGB: 139, 0, 255; HSV: 273°, 100%, 100%. |
| violet\_web | Describes the color Violet (web). Hex: #EE82EE; RGB: 238, 130, 238; HSV: 300°, 45%, 93%. |
| violet\_ryb | Describes the color Violet (RYB). Hex: #8601AF; RGB: 2, 71, 54; HSV: 270°, 100%, 71%. |
| viridian | Describes the color Viridian. Hex: #40826D; RGB: 64, 130, 109; HSV: 161°, 51%, 51%. |
| wheat | Describes the color Wheat. Hex: #F5DEB3; RGB: 245, 222, 179; HSV: 39°, 26%, 96%. |
| white | Describes the color White. Hex: #FFFFFF; RGB: 255, 255, 255; HSV: –––°, 0%, 100%. |
| wisteria | Describes the color Wisteria. Hex: #C9A0DC; RGB: 201, 160, 220; HSV: 281°, 27%, 86%. |
| yellow | Describes the color Yellow. Hex: #FFFF00; RGB: 255, 255, 0; HSV: 60°, 100%, 100%. |
| yellow\_process | Describes the color Yellow (process). Hex: #FFEF00; RGB: 255, 239, 0; HSV: 56°, 100%, 100%. |
| yellow\_ryb | Describes the color Yellow (RYB). Hex: #FEFE33; RGB: 254, 254, 51; HSV: 60°, 99%, 60%. |
| yellow-green | Describes the color Yellow-green. Hex: #9ACD32; RGB: 154, 205, 50; HSV: 60°, 60%, 54%. |

* + 1. Scent type
			1. General

This sub-clause specifies a data type, which describes the type of scents.

* + - 1. Syntax

|  |
| --- |
| "scentType": { "type": "string", "enum": [ "rose", "acacia", "chrysanthemum", "lilac", "mint", "jasmine", "pine\_tree", "orange", "grape", "almonds", "amaretto", "apples\_green", "apples\_red", "bacon", "bacon\_smokey", "banana", "banana\_splits", "basil\_herd", "beef", "blackcurrant", "boiled\_cabbage", "brandy", "bread", "bubble\_gum", "cake\_shop", "candy\_floss", "caramel\_toffee", "carrot", "celery", "cherry", "chicken", "coconut", "chocolate\_dark", "chocolate\_orange", "christmas\_apple", "christmas\_pudding", "cinnamon", "coffee\_chocolate", "coffee\_cream", "cola", "confectionary", "cookie", "coriander", "crusty\_bread", "curry", "fishmarket", "fruit\_cake", "fruit\_punch\_br\_fruity\_sweets", "garden\_mint", "garlic", "gingerbread", "grannies\_kitchen", "grapefruit", "herbs\_mixed", "herring", "honey", "hot\_apple\_pie", "irish\_cream", "jambalaya", "jelly\_babies", "kiwi\_fruit", "lime\_splash", "liquorice", "mango\_delight", "melon", "mint\_chocolate", "mulled\_wine", "nutmeg", "onion", "orange\_cupcake", "orange\_nf", "passion\_fruit", "peach\_flesh", "pear\_drops", "peppermint", "pina\_colada", "pineapple", "popcorn", "raspberry", "raspberry\_ripples", "rhubarb", "rosemary", "rum", "smoked\_fish", "spices\_mixed", "stir\_fry", "strawberry", "sugar\_spice\_christmas\_aroma", "sweet\_sherry", "tangerine", "tea\_leaf", "thai\_curry", "toffee\_apple", "tomato\_plant", "watermelon", "whisky", "wine\_oak\_cask", "vanilla", "whisky\_scotch", "alpine\_laundry\_powder", "alpine", "amulet", "aquawave", "aristocrat", "baby\_powder", "beauty\_soap", "bergamot", "boiler\_room", "bouquet", "brewery", "burning\_peat", "burnt\_wood", "cannon", "carnation", "caribbean\_holiday", "carbolic\_soap", "cedar\_wood", "chamomile", "christmas\_berries", "christmas\_tree", "christmas\_time", "church\_incense", "cloisters", "clinic\_hospital", "coal\_face", "coal\_fire", "coal\_gas", "cocomango", "cuban\_cigar\_smoke", "cut\_grass", "deep\_heat", "dentist-clove\_oil", "dinosaur", "dirty\_linen", "dragons\_breath", "dressing\_room\_football", "Scent of earthy", "eau\_de\_cologne", "eucalyptus", "eau\_de\_cologne\_factory", "farmyard", "factory", "fish\_market", "flatulence", "footie\_pitch", "forest", "fox", "freesia", "fresh\_air", "frosty", "golden\_one", "grass\_hay", "gun\_smoke", "havana\_cigar", "hawaiian", "heather\_bracken", "honeysuckle", "hospital\_modern\_day", "hyacinth", "incense", "iron\_smelting", "jaguar\_spray", "japanese\_pow", "lavender", "leather\_cream", "leather\_hide", "lemon\_eucalyptus\_mint", "machine\_oil", "mahogany", "man\_o\_war", "manure\_br\_methane", "modern\_day\_hospital", "mountain\_heather", "mummy\_egyptian", "musty", "oak", "old\_drifter\_ship", "old\_inn", "old\_river", "old\_smithy", "out\_at\_sea", "ozone", "peat", "pencil\_wood\_shavings", "peony", "phosgene\_gas", "pine", "pineapple\_plantation", "pine\_heather\_peat", "pit\_ponies", "polish-wax", "pot-pourri", "riverbank", "river\_tropics", "rope\_tar", "rosewood", "rubbish\_acrid", "sandalwood", "sandalwood\_basil", "sea\_breeze", "sea\_shore", "sheba", "ships\_cannon", "snowdrop", "sports\_changing\_room", "stables\_horses", "stars\_dressing\_room", "steam\_oil\_ships", "steam\_oil\_trains", "street\_1930s", "street\_bomb", "sun\_sand\_coconut", "swamp", "sweaty\_feet", "sweet\_peas", "tobacco\_leaf", "train\_smoke", "trophy\_room", "tropical", "tropical\_rain\_forest", "unisex\_perfume", "urine", "usa\_swamp", "victorian\_lavender", "violets", "volcano", "vomit", "wallflower", "washday", "wild\_stag", "wine\_cask-oak", "wisteria", "woodsmoke", "ylang\_jasmin\_myrrh", "yuletide", "african\_rain", "allegria", "amber", "apple\_green", "asafoetida", "autumn\_fields", "autumn\_harvest", "balsam\_fir", "balsam\_fir\_needle", "barnyard", "beer", "benzoin", "birch\_tar", "birthday\_cake", "blueberry\_cobbler", "bouquet\_of\_roses", "buchu", "burning\_rubber", "cactus\_flower", "cade", "campfire", "campfire\_smoke", "camphor", "caribbean\_night", "cedar", "champagne\_strawberries", "chanel\_no5\_type", "chocolate", "christmas\_cookies", "clean\_cotton", "cotton\_candy", "creme\_brule", "cypress\_grove", "dumpster", "dung", "easter\_lillies", "egg\_nog\_2", "eucalyptus\_dives", "evergreen", "exhaust", "fish", "forest\_rain", "forget-me-not", "frangipani", "french\_fries", "fresh\_bread", "fresh\_cut\_grass", "fresh\_laundry", "frying\_bacon", "fudge\_brownie", "gardenia", "grandmas\_attic", "halloween\_greasepaint", "hawaian\_treat", "indian\_summer", "jet\_fuel", "juniper\_berry", "leather", "lotus", "mango\_mandarin", "maple\_syrup", "mildew", "mother\_earth", "musk", "new\_mown\_grass\_2", "new\_mown\_grass\_3", "oak\_moss", "open\_fireplace", "palmarosa", "pancakes\_maple\_syrup", "patchouli", "pecan\_pie", "rain\_forest", "rich\_potting\_soil", "roasted\_chicken", "sage\_dalmatian", "seaweed", "spanish\_moss", "spring\_bouquet", "suntan", "thyme\_borneol", "tomato\_vine", "tuberose", "violet", "warming\_ginger", "ylang\_ylang" ]}, |

* + - 1. Semantics

Semantics of the scentType:

|  |  |
| --- | --- |
| *Name* | *Definition* |
| rose | Describes the scent of rose. |
| acacia | Describes the scent of acacia. |
| chrysanthemum | Describes the scent of chrysanthemum. |
| lilac | Describes the scent of lilac. |
| mint | Describes the scent of mint. |
| jasmine | Describes the scent of jasmine. |
| pine\_tree | Describes the scent of pine\_tree. |
| orange | Describes the scent of orange. |
| grape | Describes the scent of grape. |
| almonds | Describes the scent of almonds. |
| amaretto | Describes the scent of amaretto. |
| apples\_green | Describes the scent of apples\_green. |
| apples\_red | Describes the scent of apples\_red. |
| bacon | Describes the scent of bacon. |
| bacon\_smokey | Describes the scent of bacon\_smokey. |
| banana | Describes the scent of banana. |
| banana\_splits | Describes the scent of banana\_splits. |
| basil\_herd | Describes the scent of basil\_herd. |
| beef | Describes the scent of beef. |
| blackcurrant | Describes the scent of blackcurrant. |
| boiled\_cabbage | Describes the scent of boiled\_cabbage. |
| brandy | Describes the scent of brandy. |
| bread | Describes the scent of bread. |
| bubble\_gum | Describes the scent of bubble\_gum. |
| cake\_shop | Describes the scent of cake\_shop. |
| candy\_floss | Describes the scent of candy\_floss. |
| caramel\_toffee | Describes the scent of caramel\_toffee. |
| carrot | Describes the scent of carrot. |
| celery | Describes the scent of celery. |
| cherry | Describes the scent of cherry. |
| chicken | Describes the scent of chicken. |
| coconut | Describes the scent of coconut. |
| chocolate\_dark | Describes the scent of chocolate\_dark. |
| chocolate\_orange | Describes the scent of chocolate\_orange. |
| christmas\_apple | Describes the scent of christmas\_apple. |
| christmas\_pudding | Describes the scent of christmas\_pudding. |
| cinnamon | Describes the scent of cinnamon. |
| coffee\_chocolate | Describes the scent of coffee\_chocolate. |
| coffee\_cream | Describes the scent of coffee\_cream. |
| cola | Describes the scent of cola. |
| confectionary | Describes the scent of confectionary. |
| cookie | Describes the scent of cookie. |
| coriander | Describes the scent of coriander. |
| crusty\_bread | Describes the scent of crusty\_bread. |
| curry | Describes the scent of curry. |
| fishmarket | Describes the scent of fishmarket. |
| fruit\_cake | Describes the scent of fruit\_cake. |
| fruit\_punch\_br\_fruity\_sweets | Describes the scent of fruit\_punch\_br\_fruity\_sweets. |
| garden\_mint | Describes the scent of garden\_mint. |
| garlic | Describes the scent of garlic. |
| gingerbread | Describes the scent of gingerbread. |
| grannies\_kitchen | Describes the scent of grannies\_kitchen. |
| grapefruit | Describes the scent of grapefruit. |
| herbs\_mixed | Describes the scent of herbs\_mixed. |
| herring | Describes the scent of herring. |
| honey | Describes the scent of honey. |
| hot\_apple\_pie | Describes the scent of hot\_apple\_pie. |
| irish\_cream | Describes the scent of irish\_cream. |
| jambalaya | Describes the scent of jambalaya. |
| jelly\_babies | Describes the scent of jelly\_babies. |
| kiwi\_fruit | Describes the scent of kiwi\_fruit. |
| lime\_splash | Describes the scent of lime\_splash. |
| liquorice | Describes the scent of liquorice. |
| mango\_delight | Describes the scent of mango\_delight. |
| melon | Describes the scent of melon. |
| mint\_chocolate | Describes the scent of mint\_chocolate. |
| mulled\_wine | Describes the scent of mulled\_wine. |
| nutmeg | Describes the scent of nutmeg. |
| onion | Describes the scent of onion. |
| orange\_cupcake | Describes the scent of orange\_cupcake. |
| orange\_nf | Describes the scent of orange\_nf. |
| passion\_fruit | Describes the scent of passion\_fruit. |
| peach\_flesh | Describes the scent of peach\_flesh. |
| pear\_drops | Describes the scent of pear\_drops. |
| peppermint | Describes the scent of peppermint. |
| pina\_colada | Describes the scent of pina\_colada. |
| pineapple | Describes the scent of pineapple. |
| popcorn | Describes the scent of popcorn. |
| raspberry | Describes the scent of raspberry. |
| raspberry\_ripples | Describes the scent of raspberry\_ripples. |
| rhubarb | Describes the scent of rhubarb. |
| rosemary | Describes the scent of rosemary. |
| rum | Describes the scent of rum. |
| smoked\_fish | Describes the scent of smoked\_fish. |
| spices\_mixed | Describes the scent of spices\_mixed. |
| stir\_fry | Describes the scent of stir\_fry. |
| strawberry | Describes the scent of strawberry. |
| sugar\_spice\_christmas\_aroma | Describes the scent of sugar\_spice\_christmas\_aroma. |
| sweet\_sherry | Describes the scent of sweet\_sherry. |
| tangerine | Describes the scent of tangerine. |
| tea\_leaf | Describes the scent of tea\_leaf. |
| thai\_curry | Describes the scent of thai\_curry. |
| toffee\_apple | Describes the scent of toffee\_apple. |
| tomato\_plant | Describes the scent of tomato\_plant. |
| watermelon | Describes the scent of watermelon. |
| whisky | Describes the scent of whisky. |
| wine\_oak\_cask | Describes the scent of wine\_oak\_cask. |
| vanilla | Describes the scent of vanilla. |
| whisky\_scotch | Describes the scent of whisky\_scotch. |
| alpine\_laundry\_powder | Describes the scent of alpine\_laundry\_powder. |
| alpine | Describes the scent of alpine. |
| amulet | Describes the scent of amulet. |
| aquawave | Describes the scent of aquawave. |
| aristocrat | Describes the scent of aristocrat. |
| baby\_powder | Describes the scent of baby\_powder. |
| beauty\_soap | Describes the scent of beauty\_soap. |
| bergamot | Describes the scent of bergamot. |
| boiler\_room | Describes the scent of boiler\_room. |
| bouquet | Describes the scent of bouquet. |
| brewery | Describes the scent of brewery. |
| burning\_peat | Describes the scent of burning\_peat. |
| burnt\_wood | Describes the scent of burnt\_wood. |
| cannon | Describes the scent of cannon. |
| carnation | Describes the scent of carnation. |
| caribbean\_holiday | Describes the scent of caribbean\_holiday. |
| carbolic\_soap | Describes the scent of carbolic\_soap. |
| cedar\_wood | Describes the scent of cedar\_wood. |
| chamomile | Describes the scent of chamomile. |
| christmas\_berries | Describes the scent of christmas\_berries. |
| christmas\_tree | Describes the scent of christmas\_tree. |
| christmas\_time | Describes the scent of christmas\_time. |
| church\_incense | Describes the scent of church\_incense. |
| cloisters | Describes the scent of cloisters. |
| clinic\_hospital | Describes the scent of clinic\_hospital. |
| coal\_face | Describes the scent of coal\_face. |
| coal\_fire | Describes the scent of coal\_fire. |
| coal\_gas | Describes the scent of coal\_gas. |
| cocomango | Describes the scent of cocomango. |
| cuban\_cigar\_smoke | Describes the scent of cuban\_cigar\_smoke. |
| cut\_grass | Describes the scent of cut\_grass. |
| deep\_heat | Describes the scent of deep\_heat. |
| dentist-clove\_oil | Describes the scent of dentist-clove\_oil. |
| dinosaur | Describes the scent of dinosaur. |
| dirty\_linen | Describes the scent of dirty\_linen. |
| dragons\_breath | Describes the scent of dragons\_breath. |
| dressing\_room\_football | Describes the scent of dressing\_room\_football. |
| Scent of earthy | Describes the scent of Scent of earthy. |
| eau\_de\_cologne | Describes the scent of eau\_de\_cologne. |
| eucalyptus | Describes the scent of eucalyptus. |
| eau\_de\_cologne\_factory | Describes the scent of eau\_de\_cologne\_factory. |
| farmyard | Describes the scent of farmyard. |
| factory | Describes the scent of factory. |
| fish\_market | Describes the scent of fish\_market. |
| flatulence | Describes the scent of flatulence. |
| footie\_pitch | Describes the scent of footie\_pitch. |
| forest | Describes the scent of forest. |
| fox | Describes the scent of fox. |
| freesia | Describes the scent of freesia. |
| fresh\_air | Describes the scent of fresh\_air. |
| frosty | Describes the scent of frosty. |
| golden\_one | Describes the scent of golden\_one. |
| grass\_hay | Describes the scent of grass\_hay. |
| gun\_smoke | Describes the scent of gun\_smoke. |
| havana\_cigar | Describes the scent of havana\_cigar. |
| hawaiian | Describes the scent of hawaiian. |
| heather\_bracken | Describes the scent of heather\_bracken. |
| honeysuckle | Describes the scent of honeysuckle. |
| hospital\_modern\_day | Describes the scent of hospital\_modern\_day. |
| hyacinth | Describes the scent of hyacinth. |
| incense | Describes the scent of incense. |
| iron\_smelting | Describes the scent of iron\_smelting. |
| jaguar\_spray | Describes the scent of jaguar\_spray. |
| japanese\_pow | Describes the scent of japanese\_pow. |
| lavender | Describes the scent of lavender. |
| leather\_cream | Describes the scent of leather\_cream. |
| leather\_hide | Describes the scent of leather\_hide. |
| lemon\_eucalyptus\_mint | Describes the scent of lemon\_eucalyptus\_mint. |
| machine\_oil | Describes the scent of machine\_oil. |
| mahogany | Describes the scent of mahogany. |
| man\_o\_war | Describes the scent of man\_o\_war. |
| manure\_br\_methane | Describes the scent of manure\_br\_methane. |
| modern\_day\_hospital | Describes the scent of modern\_day\_hospital. |
| mountain\_heather | Describes the scent of mountain\_heather. |
| mummy\_egyptian | Describes the scent of mummy\_egyptian. |
| musty | Describes the scent of musty. |
| oak | Describes the scent of oak. |
| old\_drifter\_ship | Describes the scent of old\_drifter\_ship. |
| old\_inn | Describes the scent of old\_inn. |
| old\_river | Describes the scent of old\_river. |
| old\_smithy | Describes the scent of old\_smithy. |
| out\_at\_sea | Describes the scent of out\_at\_sea. |
| ozone | Describes the scent of ozone. |
| peat | Describes the scent of peat. |
| pencil\_wood\_shavings | Describes the scent of pencil\_wood\_shavings. |
| peony | Describes the scent of peony. |
| phosgene\_gas | Describes the scent of phosgene\_gas. |
| pine | Describes the scent of pine. |
| pineapple\_plantation | Describes the scent of pineapple\_plantation. |
| pine\_heather\_peat | Describes the scent of pine\_heather\_peat. |
| pit\_ponies | Describes the scent of pit\_ponies. |
| polish-wax | Describes the scent of polish-wax. |
| pot-pourri | Describes the scent of pot-pourri. |
| riverbank | Describes the scent of riverbank. |
| river\_tropics | Describes the scent of river\_tropics. |
| rope\_tar | Describes the scent of rope\_tar. |
| rosewood | Describes the scent of rosewood. |
| rubbish\_acrid | Describes the scent of rubbish\_acrid. |
| sandalwood | Describes the scent of sandalwood. |
| sandalwood\_basil | Describes the scent of sandalwood\_basil. |
| sea\_breeze | Describes the scent of sea\_breeze. |
| sea\_shore | Describes the scent of sea\_shore. |
| sheba | Describes the scent of sheba. |
| ships\_cannon | Describes the scent of ships\_cannon. |
| snowdrop | Describes the scent of snowdrop. |
| sports\_changing\_room | Describes the scent of sports\_changing\_room. |
| stables\_horses | Describes the scent of stables\_horses. |
| stars\_dressing\_room | Describes the scent of stars\_dressing\_room. |
| steam\_oil\_ships | Describes the scent of steam\_oil\_ships. |
| steam\_oil\_trains | Describes the scent of steam\_oil\_trains. |
| street\_1930s | Describes the scent of street\_1930s. |
| street\_bomb | Describes the scent of street\_bomb. |
| sun\_sand\_coconut | Describes the scent of sun\_sand\_coconut. |
| swamp | Describes the scent of swamp. |
| sweaty\_feet | Describes the scent of sweaty\_feet. |
| sweet\_peas | Describes the scent of sweet\_peas. |
| tobacco\_leaf | Describes the scent of tobacco\_leaf. |
| train\_smoke | Describes the scent of train\_smoke. |
| trophy\_room | Describes the scent of trophy\_room. |
| tropical | Describes the scent of tropical. |
| tropical\_rain\_forest | Describes the scent of tropical\_rain\_forest. |
| unisex\_perfume | Describes the scent of unisex\_perfume. |
| urine | Describes the scent of urine. |
| usa\_swamp | Describes the scent of usa\_swamp. |
| victorian\_lavender | Describes the scent of victorian\_lavender. |
| violets | Describes the scent of violets. |
| volcano | Describes the scent of volcano. |
| vomit | Describes the scent of vomit. |
| wallflower | Describes the scent of wallflower. |
| washday | Describes the scent of washday. |
| wild\_stag | Describes the scent of wild\_stag. |
| wine\_cask-oak | Describes the scent of wine\_cask-oak. |
| wisteria | Describes the scent of wisteria. |
| woodsmoke | Describes the scent of woodsmoke. |
| ylang\_jasmin\_myrrh | Describes the scent of ylang\_jasmin\_myrrh. |
| yuletide | Describes the scent of yuletide. |
| african\_rain | Describes the scent of african\_rain. |
| allegria | Describes the scent of allegria. |
| amber | Describes the scent of amber. |
| apple\_green | Describes the scent of apple\_green. |
| asafoetida | Describes the scent of asafoetida. |
| autumn\_fields | Describes the scent of autumn\_fields. |
| autumn\_harvest | Describes the scent of autumn\_harvest. |
| balsam\_fir | Describes the scent of balsam\_fir. |
| balsam\_fir\_needle | Describes the scent of balsam\_fir\_needle. |
| barnyard | Describes the scent of barnyard. |
| beer | Describes the scent of beer. |
| benzoin | Describes the scent of benzoin. |
| birch\_tar | Describes the scent of birch\_tar. |
| birthday\_cake | Describes the scent of birthday\_cake. |
| blueberry\_cobbler | Describes the scent of blueberry\_cobbler. |
| bouquet\_of\_roses | Describes the scent of bouquet\_of\_roses. |
| buchu | Describes the scent of buchu. |
| burning\_rubber | Describes the scent of burning\_rubber. |
| cactus\_flower | Describes the scent of cactus\_flower. |
| cade | Describes the scent of cade. |
| campfire | Describes the scent of campfire. |
| campfire\_smoke | Describes the scent of campfire\_smoke. |
| camphor | Describes the scent of camphor. |
| caribbean\_night | Describes the scent of caribbean\_night. |
| cedar | Describes the scent of cedar. |
| champagne\_strawberries | Describes the scent of champagne\_strawberries. |
| chanel\_no5\_type | Describes the scent of chanel\_no5\_type. |
| chocolate | Describes the scent of chocolate. |
| christmas\_cookies | Describes the scent of christmas\_cookies. |
| clean\_cotton | Describes the scent of clean\_cotton. |
| cotton\_candy | Describes the scent of cotton\_candy. |
| creme\_brule | Describes the scent of creme\_brule. |
| cypress\_grove | Describes the scent of cypress\_grove. |
| dumpster | Describes the scent of dumpster. |
| dung | Describes the scent of dung. |
| easter\_lillies | Describes the scent of easter\_lillies. |
| egg\_nog\_2 | Describes the scent of egg\_nog\_2. |
| eucalyptus\_dives | Describes the scent of eucalyptus\_dives. |
| evergreen | Describes the scent of evergreen. |
| exhaust | Describes the scent of exhaust. |
| fish | Describes the scent of fish. |
| forest\_rain | Describes the scent of forest\_rain. |
| forget-me-not | Describes the scent of forget-me-not. |
| frangipani | Describes the scent of frangipani. |
| french\_fries | Describes the scent of french\_fries. |
| fresh\_bread | Describes the scent of fresh\_bread. |
| fresh\_cut\_grass | Describes the scent of fresh\_cut\_grass. |
| fresh\_laundry | Describes the scent of fresh\_laundry. |
| frying\_bacon | Describes the scent of frying\_bacon. |
| fudge\_brownie | Describes the scent of fudge\_brownie. |
| gardenia | Describes the scent of gardenia. |
| grandmas\_attic | Describes the scent of grandmas\_attic. |
| halloween\_greasepaint | Describes the scent of halloween\_greasepaint. |
| hawaian\_treat | Describes the scent of hawaian\_treat. |
| indian\_summer | Describes the scent of indian\_summer. |
| jet\_fuel | Describes the scent of jet\_fuel. |
| juniper\_berry | Describes the scent of juniper\_berry. |
| leather | Describes the scent of leather. |
| lotus | Describes the scent of lotus. |
| mango\_mandarin | Describes the scent of mango\_mandarin. |
| maple\_syrup | Describes the scent of maple\_syrup. |
| mildew | Describes the scent of mildew. |
| mother\_earth | Describes the scent of mother\_earth. |
| musk | Describes the scent of musk. |
| new\_mown\_grass\_2 | Describes the scent of new\_mown\_grass\_2. |
| new\_mown\_grass\_3 | Describes the scent of new\_mown\_grass\_3. |
| oak\_moss | Describes the scent of oak\_moss. |
| open\_fireplace | Describes the scent of open\_fireplace. |
| palmarosa | Describes the scent of palmarosa. |
| pancakes\_maple\_syrup | Describes the scent of pancakes\_maple\_syrup. |
| patchouli | Describes the scent of patchouli. |
| pecan\_pie | Describes the scent of pecan\_pie. |
| rain\_forest | Describes the scent of rain\_forest. |
| rich\_potting\_soil | Describes the scent of rich\_potting\_soil. |
| roasted\_chicken | Describes the scent of roasted\_chicken. |
| sage\_dalmatian | Describes the scent of sage\_dalmatian. |
| seaweed | Describes the scent of seaweed. |
| spanish\_moss | Describes the scent of spanish\_moss. |
| spring\_bouquet | Describes the scent of spring\_bouquet. |
| suntan | Describes the scent of suntan. |
| thyme\_borneol | Describes the scent of thyme\_borneol. |
| tomato\_vine | Describes the scent of tomato\_vine. |
| tuberose | Describes the scent of tuberose. |
| violet | Describes the scent of violet. |
| warming\_ginger | Describes the scent of warming\_ginger. |
| ylang\_ylang | Describes the scent of ylang\_ylang. |

* + 1. Spraying type
			1. General

This sub-clause specifies a data type, which describes the type of sprayer.

* + - 1. Syntax

|  |
| --- |
| "sprayingType": { "type": "string", "enum": [ "water", "pesticide", "alcohol" ] }, |

* + - 1. Semantics

Semantics of the sprayingType:

|  |  |
| --- | --- |
| *Name* | *Definition* |
| water | Describes purified water. |
| pesticide | Describes pesticide. |
| alcohol | Describes alcohol. |

* + 1. Location type //TBD
			1. General

This sub-clause specifies a data type, which describes the type of location.

* + - 1. Syntax

|  |
| --- |
| "locationType": { "type": "string", "enum": [ "left", "centerleft", "center", "centerright", "right", "bottom", "middle", "top", "back", "midway", "front" ] }, |

* + - 1. Semantics

Semantics of the locationType:

|  |  |
| --- | --- |
| *Name* | *Definition* |
| left | Describes the location on the left side according to the location model. |
| centerleft | Describes the location at the center left side according to the location model. |
| center | Describes the location at the center according to the location model. |
| centerright | Describes the location at the center right side according to the location model. |
| right | Describes the location at the right side according to the location model. |
| bottom | Describes the location at the bottom according to the location model. |
| middle | Describes the location at the middle according to the location model. |
| top | Describes the location at the top according to the location model. |
| back | Describes the location at the back according to the location model. |
| midway | Describes the location at the midway according to the location model. |
| front | Describes the location at the front according to the location model. |