LEGO® Color Organization: Family Theory

Nathan Masters

January 28th, 2020

1 Family Groups

In an effort to refine the process of categorizing and sorting a LEGO® collection, Nathan Masters has devised a general-purpose color grouping system. His approach seeks to provide a dynamic framework for colors both old and new in the form of groups that summarize multiple properties simultaneously.

A selection of 70 widely-used colors are organized into six groupings called families:

- Legacy
- Transparent
- Natural
- Lucid
- Pastel
- Novel

The family names help distinguish why certain colors are grouped together and are less strict for the integration of new colors. The groups also provide a rough distribution for piece-per-color occurrence, with higher amounts of parts available in the *Legacy* colors and a decreasing amount of parts available for each family moving right; the *Novel* family being so named for relatively few parts produced in those colors.

These six family groups in particular are designed to strike a balance through the extensive color options available, family sizes are closer than simply grouping similar colors. Intensity also plays a role in these groups, helping distinguish the washed-out *Pastel* pieces from the vibrant *Lucid* hues. Colors in the *Natural* family are usually well-suited to projects intended to model real life, yet the group is diverse enough to include the dark "Earth" colors alongside the muted "Sand" tones.

The table on the next page lists abbreviated names for each member of the color families. A sample box with the assigned hexadecimal color is included alongside each entry. The hex values used are a mix of official LEGO® color codes (Source 1) and Nathan's personal representation.

2 Colors in Families

Legacy	Transparent	Natural	Lucid	Pastel	Novel
Black	TRdark	SDred	Coral	SPblue	Copper
DKgrey	TRclear	SDpurple	Violet	MEDblue	PLgrey
LTgrey	UVblue	SDblue	0J	Lavender	PLsilver
White	TRLTblue	SDgreen	LMgreen	Pink	DLsilver
Red	TRblue	SDorange	APPgreen	PARApink	CRMsilver
Yellow	TRpurple	DKorange	Teal	Flesh	PLgold
Blue	TRpink	DKred	SKYblue	SPyellow	DLgold
Green	TRred	DKpurple	Azure	SPgreen	CRMgold
Tan	UVorange	DKblue	Indigo	Aqua	CRMblue
Brown	TRorange	DKgreen	Lilac		Glow
Orange	TRyellow	DKbrown	DKpink		
	UVgreen	DKtan	Magenta		
	TRLTgreen	OVgreen			
	TRgreen	DKteal			
11 members	14 members	14 members	12 members	9 members	10 members

Note that the often-contested Dark Grey and Light Grey members are listed only once and placed within the *Legacy* family. This table follows Nathan's personal preference and sorting practices, but he suggests that the distinction could be adopted by placing the old versions of the greys in *Legacy* and the updated greys in the *Natural* family. Brown has been treated similarly.

LEGO® has produced far more than 70 individual colors through the years; this family breakdown attempts to cover almost all major pieces with colors available in official products released after plastic mixes became fairly consistent. In the interest of simplicity and accessibility to the general LEGO® community, some large groups of uncommon colors are excluded:

- Fabuland variants
- Modulux system
- Loosely unnofficial colors, like very light grey
- Single-instance colors found in watches, pens, Clickits, etc

3 Naming Key

viation	Full Convention	
	Dark color	
	Light color	
	Transparent color	
٦	Transparent Light color	
	Ultraviolet color (aka Neon)	
	Olive (Green only)	
	Sand color	
	Lime (Green)	
	Apple (Green)	
	Spring color	
1	Paradisa (Pink)	
	Pearl color (metallic)	
	Drum-lacquered (metallic)	
	Chrome finish	
	viation	

4 Additional Notes

	Listing	Clarification
	SDorange	Commonly known as Nougat
	DKcolor	Sometimes called Earth colors
ł	OJ	"Orange Juice" yellow-orange color
	SPblue	Light Royal Blue, recent
	MEDblue	Not as light as other spring colors, older
	Glow	Glow in the Dark

5 Sources

- 1. http://www.peeron.com/inv/colors
- 2. https://www.overleaf.com/learn/latex/Using_colours_in_LaTeX
- $3.\ \mathtt{https://texblog.org/2011/04/19/highlight-table-rowscolumns-with-color/}$
- $4. \ \mathtt{https://www.overleaf.com/project/5dd721997bc92700010c35c0}$
- 5. https://htmlcolorcodes.com/