

**E a r t h / m a t r i X**  
**Science Today**

**How to Read**  
**The Schemata of the Elements**

Charles William Johnson

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Earth/matriX

SCIENCE **TODAY**

**How to read the Schemata of the Elements**

By Charles William Johnson

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*Dedicated to **Bo***

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# How to Read The Schemata of the Elements

## Introduction

The Mendeleev-based periodic table of the elements that is currently in use, presents certain limitations in format. The conventional periodic table impedes viewing certain patterns within the behavior of the elements and their atoms. The traditional periodic table presents a dismembered format in its layout, as it is interrupted in the Lanthanide Series and the Actinide Series, which remain outside the main body of the table. When these two series are brought into the "long table", enormous gaps open up among the representative elements, thus denying any possibility of visualizing patterns among the elements on the conventional periodic table.

In effect, the numerical, progressive ordering of the atomic number of the elements is thereby interrupted. The very defining characteristics of the elements and their atoms, such as periodicity, are denied by the dismembered format of the conventional periodic table.

In order to overcome these shortcomings of the conventional periodic table, we are presenting a rearrangement of the elements in a compact schematic design. We refer to the format's design as the *schema*. The title that we have given our study is that of ***The Schemata of the Periodic Table of the Elements***. In time, the title may be shortened to simply, ***The Schemata of the Elements***. The title reflects the fact that the schemata treat more aspects and characteristics of the elements, than simply that of their periodicity. ***In this sense***, the schemata move beyond the periodic table.

We shall offer a summary view of how to read the *schemata*. As may be readily observed, the *schema* design maintains smaller gaps among the elements, which now lie between the transition elements. The defining feature of the schemata is that the progressive sequential numbering of the atomic numbers is now maintained. Patterns among the representative elements are now visible, as well as original patterns between these and the transition elements. These patterns are not available on the conventional table.

Furthermore, the schematic design allows for making projections of the elements. The schemata are projected to *166-schema* and *216-schema* formats. However, these schemata are not treated in this brief how-to-read essay. The reader is encouraged to consult the more extensive volumes of the different schemata in this regard. In order to examine the original patterns that appear within the *schemata*, it is recommended that the complete study be obtained for viewing.

The schema, as we shall observe in the next slide, is based upon a series of squares that may be assigned different background colors, and have specific data imprinted upon the colors. This commonly employed visual feature becomes much more effective in creating a periodic table that may serve as a visual aid in either teaching and or learning about the behavior of the elements and their atoms.














The fact that the schema maintains the sequential numbering order of the atomic numbers of the elements, is what shall define the possibility of producing color-coded, visual images upon the schemata.

## The Earth/matriX Periodic Table of the Elements

### The Schemata of the Elements

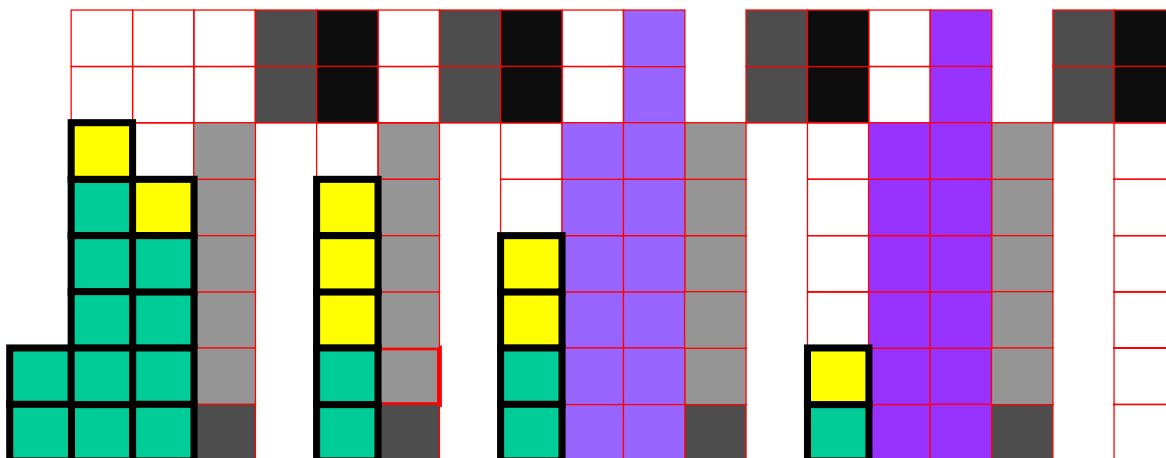
	3 Li	11 Na	19 K	27 Co	29 Cu	37 Rb	45 Rh	47 Ag	55 Cs	63 Eu		77 Ir	79 Au	87 Fr	95 Am		109 Une	111	119
	4 Be	12 Mg	20 Ca	28 Ni	30 Zn	38 Sr	46 Pd	48 Cd	56 Ba	64 Gd		78 Pt	80 Hg	88 Ra	96 Cm		110 Unn	112	120
	5 B	13 Al	21 Sc		31 Ga	39 Y		49 In	57 La	65 Tb	71 Lu		81 Tl	89 Ac	97 Bk	103 Lr		113	
	6 C	14 Si	22 Ti		32 Ge	40 Zr		50 Sn	58 Ce	66 Dy	72 Hf		82 Pb	90 Th	98 Cf	104 Unq		114	
	7 N	15 P	23 V		33 As	41 Nb		51 Sb	59 Pr	67 Ho	73 Ta		83 Bi	91 Pa	99 Es	105 Unp		115	
	8 O	16 S	24 Cr		34 Se	42 Mo		52 Te	60 Nd	68 Er	74 W		84 Po	92 U	100 Fm	106 Unh		116	
1 H	9 F	17 Cl	25 Mn		35 Br	43 Tc		53 I	61 Pm	69 Tm	75 Re		85 At	93 Np	101 Md	107 Uns		117	
2 He	10 Ne	18 Ar	26 Fe		36 Kr	44 Ru		54 Xe	62 Sm	70 Yb	76 Os		86 Rn	94 Pu	102 No	108 Uno		118	

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Alkali Metals		Carbon Family		Hydrogen / The Halogens		Second Transition Metals	
Alkaline Earth Metals		Nitrogen Family		The Noble Gases		Third Transition Metals	
Boron Family		Oxygen Family		First Transition Metals		Lanthanide/Actinide Series	 

# **A Few Color-Coded Patterns on The Schemata of the Elements**

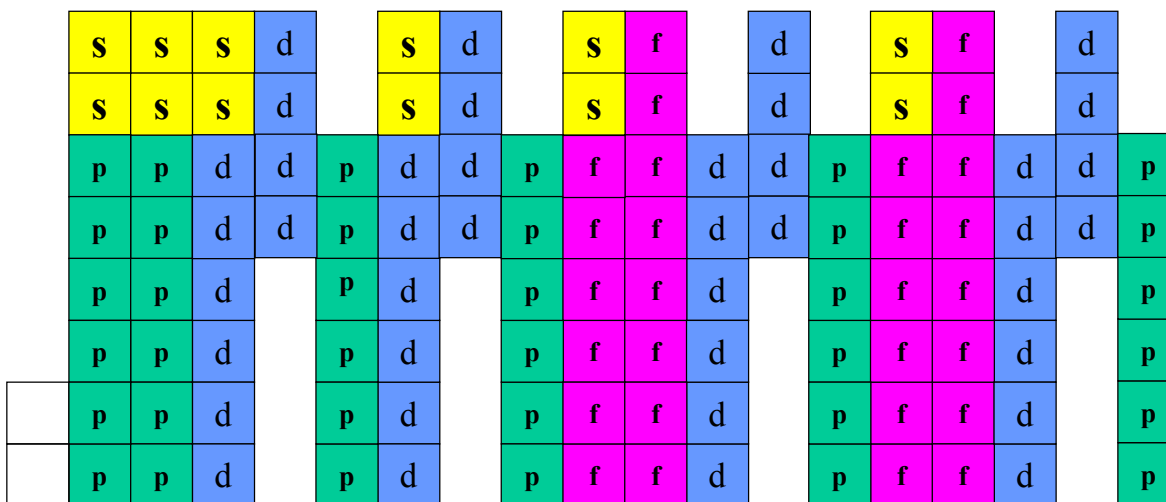
## Patterns of **Transition** and Inner **Transition Elements** in Relation to **Metals**, **Metalloids** and **Non-Metals**



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## Orbitals Occupied by Valence Electrons

Orbitals **s** **p** **d** **f**



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