**PERIODIC TABLE OF PERIODIC TABLES (version 0.1)**

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|  | **I** | **II** | **III** | **IV** | **V** | **VI** | **VII** | **VIII** |
|  | **Short (16)** | **Triangular (11)** | **Medium (14)** | **Long (10)** | **Continuous^ (12)** | **Folding (6)** | **Spatial (19)** | **Unclassified (13)** |
| 1860s | [1862 Meyer’s system](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=440)  28 elements, 6 columns |  | [1864 Odling’s table of elements](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=91)  Sideways table with 18 rows |  | **1862**  [**Béguyer de Chancourtois’ vis tellurique**](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=7)  First use of atomic weights to produce a classification of periodicity |  |  |  |
| [1864 Newlands’ octaves](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=8)  7 columns | [1869 Mendeleev’s table](https://en.wikipedia.org/wiki/Periodic_table#/media/File:1869-periodic-table.jpg)  Sideways with 19 rows | *Great Void (Western arm)* | 1867 [Hinrichs’ programme of atomechanics](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=270)  Captures many of the primary periodic relationships seen in the modern table while not being cluttered by attempts to show secondary relationships | *Great Void (Eastern arm)* |  |
| 1870s | [1871 Mendeleev’s tabelle II](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=10)(a)  The original | *Well of*  *Woe* | [1871 Mendeleev’s tabelle II](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=10)(c)  17-column form |  |  |  |  |  |
| 1880s |  | [1882 Bayley’s system](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=66)  Distinction between main groups, sub-groups; vacant spaces for rare earths |  |  | 1886 **Shepard’s natural classification**  A spiral form with instructions for turning it into a tube |  |  |  |
| 1890s | [1895 Retger’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=364)  Intraperiodic accommodation of the rare earths (a) | [1895 Thomsen’s systematic arrangement](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=368)  Electropositive and electronegative elements labelled | [1893 Rang’s arrangement](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=63)  17-columns with B-Al over Sc and H over Ga | [1892 Bassett’s vertical arrangement](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=62)  37 columns sideways |  | 1895 [Masson’s ‘flap’ model of the periodic table](https://www.publish.csiro.au/HR/HR12018) |  | [1891 Wendt’s generation-tree of the elements](Wendt's%20Generation-Tree%20of%20the%20Elements)You have to see it to understand it |
| 1893 [Nechaev’s truncated cones](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1151) Like it says |
| 1900s | [1902 Brauner’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=58)  Intraperiodic accommodation of the rare earths (b) |  | *Skew Tetronimo Gap* | [1905 Gooch & Walker’s system](Gooch%20&%20Walker's%20Periodic%20System%20of%20The%20Elements)  25 columns | 1905 **Gooch & Walker's primary, secondary, and tertiary series of elements**  An early depiction of double periodicity among the Ln |  |  | 1907[Grouping of the elements to illustrate refractivity](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1105) Runs from group 12 on the left to group 13 on the right |
| [1906 Mendeleev’s 1906 table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=464)  Six missing elements between H and He | [1905 Werner’s arrangement](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=64)  33 groups | *Great Void (South arm)* |
| 1910s |  | [1911 Adam’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=67)  Separation of Ln(left) and radioactives (right) |  |  | 1914 **Hackh’s periodic table**  First spiral to take account of Mosley's atomic numbers, and the first to show successively larger pairs of coils. Also interesting as H stands alone in the centre. | 1915 [Ramsay’s the elements arranged in the periodic system](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1233) |  | [1918 Cherkesov: Two periodic tables](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1260)  Mn in group 8 rather than group 7 |
| `1920s | [Deming’s other 1923 table: Mendeleev style](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=456)  With dividing line between metals and nonmetals | [1922 Bohr’s system](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=285)  Based on modern atomic theory | [1920 Stewart’s arrangement](Stewart's%20Arrangement%20of%20The%20Elements)  Ln accommodated in its 18 columns | [1927 LeRoy’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1015)  Left step precursor; three sets of transition elements | **1925 Courtines’ a model of the periodic table**  A spatial spiral with the appearance of a submarine |  | 1920 [Kohlweiler’s system](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=292)  First spatial system: Parallel planes connected by pillars of transition group and lanthanide element | [1920 Stewart’s arrangement of the elements](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1075)  With 14 lanthanides incorporated |
| 1928 [Corbino’s right-step table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=989)  No gaps between elements | 1925 [Courtines’ model of the periodic table or periodic classification](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=735)  First submarine style form |
| [1924 Hubbard chart of the atoms](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=31)  American classic | [1923 Deming’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=360)  Popularised the transition from 8 to 18 columns |
| [1928 Janet’s left step table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=152)  No gaps between elements | 1925 [Friend’s periodic sphere](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=84)  First spherical form |
| 1930s | [1934 Leningrad monument](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=296)  Ln assigned to groups | [1935 Zmaczynski’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=40)  Period 0 above H-He |  | [1934 Romanoff's system](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=290)  First long form with An under Ln (inc. split d-block) | 1939 **Irwin’s periodic table**  Extensive analysis of periodicity patterns | *Other Tetronimo Gap* |  | 1934 [**Romanoff's system**](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=290)  Combined spiral-lemniscate |
| [1935 Rysselberghe’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1011)  Separated blocks |
| 1940s | [1945 Krafft’s table (1945)](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=578)  Ten groups | [1949 Antropoff’s representation revised by Fritz Scheele](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=698)  Ln and An included in main body | [1945 Seaborg’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=522)  Suggested an An series to complement the Ln |  | 1940 Gamow [first] ribbon periodic table  Noble gases as Group 0 |  | 1945 [Talpain’s gnomonic classification of the elements](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1118)  Diagram in space having the form of a double pyramid | 1944[**Müller’s tree system**](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=293)  Like it says |
| 1949 [Wringley’s lamina system](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=295)  First 2D/3D hybrid |
| 1950s | [1950 Sidgwick’s classification (Mendeleeff)](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1080)  Lanthanides collocated; actinides fragmented | [**1952 Coryell’s table**](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1054)  Bifurcating groups limited to 3 and 13 | 1956 [Remy’s “long” period form](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=976)  Uranides competing with Seaborg’s An | *Corner*  *Chasm* |  | 1950[McCutchon’s simplified periodic classification of the elements](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1119) | 1954 [Sabo & Lakatosh’s volumetric model of the periodic table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=922)  Modular apartment building complex form | 1950 [Clark’s updated periodic table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=153)  Arena system |
| 1960s | [1960 International Rectifier Corporation table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1012)  Rainbow style | 1967 [Sanderson’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=462)  2-8-10-14 stacked periods | [1960 Pauling’s electronegativity scale](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=444)  B-Al shown over Sc | 1964 [Ternstrom’s A periodic table](https://pubs.acs.org/doi/pdf/10.1021/ed041p190)  A triple-combo table drawing on the advantages of the complete block system according to Werner (1905) and a horizontal Bohr line-system; the outcome resembles the left step form of Janet (1928) | 1964[A clockwise spiral system of the chemical elements](https://pubs.acs.org/doi/pdf/10.1021/ed041p191)  Sc and Y span the Ln and An |  | 1965 [Giguère’s periodic table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=525)  Weather vane form | 1964 [Benfey’s periodic snail](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=33)  Early (first?) appearance of a superactinide island |
| **1965**[**Alexander arrangement of elements**](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=21)  Designed to complement the point at which education on the arrangement of atoms into a chart begins, much as the world globe establishes the reality, and to emphasise the vital and convenient nature of flat printed projections or maps |
| 1970s | [1975 Shukarev’s system](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1167)  Transition metals turn back on themselves |  | [1976 Seaborg’s futuristic table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=945)  Elements up to Z = 168 |  |  |  | 1972 [Octagonal prismatic periodic table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=452)  Like it says | 1971 [Clark, John O. E. periodic table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=672)  Inspired by the trippy 60s? |
| 1980s | *Left Domino* | [1987 Step-pyramid form of the periodic chart](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1039)  Modernised version of 1882 Bayley | [1980 Jodogne’s tableau](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=383)  Upside down | [1982 Periodiska systems rätta form](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=451)  Left step variation with novel placement of H-He |  | *Eightfold Gate* | 1980 [Periodic round table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=158)  Tower of Hanoi-like | *Right Domino* |
| 1982 [Cement chemist’s periodic cube](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=49)  Say no more |
| [1989 Seaborg’s electron shell table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=222)  Up to Z = 168 | 1983 [Periodic pyramid](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=50)  Like it says |
| 1989 [Stowe’s A physicist’s periodic table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=38)  4-dimensional |
| 1990s |  | [1995 Klein’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1130)  Breaks at the start of each new block | [1990 IUPAC Red Book table](https://archive.org/details/nomenclatureofin0000unse)  15-wide f-block | *Other Domino* | **1999**[**Moran’s spiral periodic table**](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=36)  In hexagonal form |  | 1990 [Dufour’s periodic tree](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=39)  Like it says |  |
| 1992 [Magarshak & Malinsky’s three-dimensional periodic table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1091)  Quantum mechanics-based table with group 3 as Sc-Y-La-Ac |
| 2000s | [2009 Russian table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=189)  Modern form |  | [2002 Inorganic chemist’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=429)  Major and minor patterns indicated |  | **2003** [**Chemical galaxy II**](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=22)  Starry pathway to link the elements, express the astronomical reach of chemistry, stimulate the imagination and evoke wonder at the order underlying the universe |  | 2003 [Graphic representations of the periodic system](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=253)  As a building | [2005 Rich’s periodic chart exposing diagonal relationships](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1242)  Non-metals of the left; metals on the right |
| [2006 Scerri’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=20)  Symmetrical | 2003 [Two-amphitheatre pyramid periodic table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1082)  Like it says |
| 2010s | [2010 Tresvyatskii’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1038)  Assignment of Ln and An to groups |  | *Nine Missing Pieces* | 2018 [Beylkin’s table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1202)  Symmetrical table with Ln and An incorporated |  | 2015 [Quantum fold table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=684) | 2011 [Aldersley 3D periodic table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1182)  As four apartments | 2018[Beylkin’s periodic table of the elements](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1202)  4n2 periods, where n = 2,3..., and shows symmetry, regularity, and elegance, more so than [Janet’s left step table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=152). |
| 2016[NAWA’s byobu-Janet periodic table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=724) | 2014 [ADOMAH Periodic table glass cube](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=642)  A separated table inside a tetrahedron inside a cube | 2019 [Alexander arrangement unwrapped... and rewrapped](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1069)  p, d and f blocks moving away from the s block in 3-dimensional space |
| 2019 [Grainger’s elemental periodicity with “concentric spheres intersecting orthogonal planes” formulation](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=996)  A table in or on the corner of a room or table |
| 2020s |  |  |  |  |  | [2022 hexaflexagon table](https://www.meta-synthesis.com/webbook/35_pt/pt_database.php?PT_id=1231) |  |  |

**^ Group V Continuous =** circular, spiral, lemniscate, helical