## Periodic Table of the Elements

18 <b>He 姘</b> <sup>Helbun</sup>	Ne #	Ar 姘	Krypton	Xe 姘	Rn 舛	.8 Og Oganesson
He	dz			e do	,	7p 111
	9 3.98 F # Fluorine	CI 姘	35 <u>239</u> 44 <b>Br</b> 婧 Bromine	D 经 I 外 Iodine	At 鎌	${ m Ts}$ Tennessine
	2p 8 3.44 2p 9	S <u>\$7</u> 2	Se \$\frac{\frac{\pi_{0.20}}{\pi_{0.20}}}{\pi_{0.20}} \tag{4.7}	Te #	Po 闇 Polenium	LV 関 Livemorium
	Nitrogen	P 经	AS \$\frac{4p}{3} \tag{4p} \tag	Sb 🗷	Bi Ma	Mc Wokowium
	6 <u>2.55</u> 2p C 纰 carbon 14 <u>1.11</u> 3p	Si źź	Ge 製	Sn	Pb 概	11.4 1p
	5 2.04 2p 6 B ½ 2 Boron 13 1.01 3p 1.	7 < 1	L O°1	In [3]	TIM	Nh 関 Nibonium
			Zn 🛒	Cd 📳	Hg 姹	Copernicium
			Cu sa	9 Silver	Au 関 Gold	Rg 翻 Roentgenium
			Nickel		rs <u>2.28</u> yr Pt 閾 Platinum	DS 🖺 Damstadtium
	hell; womic		Zr 1.88 34 Co 閏 Cobalt	45 <u>2.25</u> 44 Rh 関	Ir 國	nos oz Mt 浈 Metnerium
	sivity; $ss = subs$ $w = standard \epsilon$		Ze Less 3d Fe 製	Ru 🖺	n 益 3n Os 関	HS 皎 類 Hassium
	g = electronegal lement name, se		25 上55 3d Mn 関 Manganese	TC関	rs 丘 su Re 閾	Bh 皎 Bohrium
	$Z=$ atomic number; eneg = electronegativity; ss = subshelt; $S_{\rm F}=S_{\rm F}$ mbol, Name = element name, saw = standard atomic weight		Tiển Về Cross Manga Fe i con Column Nanganese has constituted and Column Statement of Column State	Mo Nolybenum	W 🖺	Sg 皎瑞 Seaborgum
	Z = aton Sy = Syr weight		Z3 1.63 3d V     Vanadium	Nb 👼	rs <u>L2</u> 3r Ta 闇	Db 皎 □ Dubnium
	$egin{array}{ccc} \mathbf{Z} & & & & & & & & & & & & & & & & & & &$		ZZ 1.59 3d Ti 間	Zr 曼	Hf 閾	Rf 陽
			Sc 耐	Y W	57-71 暑×郴 Lanthanides	89-103 閿曠郴 Actinides
	4 1.57 28  Be	Mg 閣	Ca 🖥	Strontium	Ba 📳	88 <u>(1.7</u> 7.5 Ra   闇 Radium
1 <u>2.2</u> 18 <b>H 姘</b> Hydrogem	3 <u>0.38</u> 2s Li 関 Lithium	Na 閣	K B	s, the state of Rb 就 Rubidium	Cs 🔣	87 <u>0.1.</u> 7.8 <b>Fr. 國</b> Francium

47 09 T-10	57 II 34" 58 ILE 4" 59 ILE 4  60 ILE 4  61 ILE 4  62 ILE 4  63 ILE 4" 65 ILE 4  64 ILE 4" 65 ILE 4  64 ILE 4" 65 ILE 4  64 ILE 4" 65 ILE 4  65 ILE	61 1.13 47	4) TT 4)	÷ = = = = = = = = = = = = = = = = = = =	64 1.2 4/	65 1.1	99	67 1.23 4	68 1.24 47	69 1.25 47	. TT 0∠	71 1.27 47
部	糧×林 [La體] Ce窗 Pr體 Nd醫 Pm醫 Sm醫 Eu窗 Gd屬 Tb窗 Dy題 Ho國 Er窗 Tm國 Ab醫 Lu醫	Pm 📳	Sm 📳	En	œq	Tb 闊	Dy 鼍	Ho 闇	Er 閾	Tm	Yb 闀	Tu 鼍
-fi	Prascodymium Neodymium Promethium Samarium	Promethium	Samarium	Europium	Gadolinium	Terbium	Dysprosium	Dysprosium Holmium	Erbinm	Thulium	Ytterbium	Lutetium
1	89 1 W 10 W	93 136 5/	94 1228 57	96 1.13 57	96 1.28 5/	97 13 37	98 13 3	99 13 3	100 13 57	101 13 37	102 1.3 5/	108 13 37
<u>##0</u>	脚脂林 Ac	Np	Pu 闇	Am 闀	Cm	Bk	Cf 閿	Es 國	Fm 闀	Md 閽	No In	Lr 🗟
- #	Protactinium Uranium	Neptunium Plutonium	Plutonium	Americium	n Curium	Berkelium	Californium	Californium Einsteinium Fermium	Fermium	Mendelevium	Nobelium	Lawrencium
1588(2)	238.02891(3)	(232)	(244) (243)	(243)	(347)	(2-0)	(251)	(281) (282)	(257)		(259)	(980)

Standard atomic weights taken from the Commission on Isotopic Abundances and Atomic Weights (http://ciass.org/aronic-weights.htm). Adapted from Ivon the Griffin's BTEX Periodic Table. © 2017 Paul Dansse An sectorisk (\*) next to a subshell indicates an anomalous (Aufban rule-breaking) ground state electron configuration.