

# Instructions

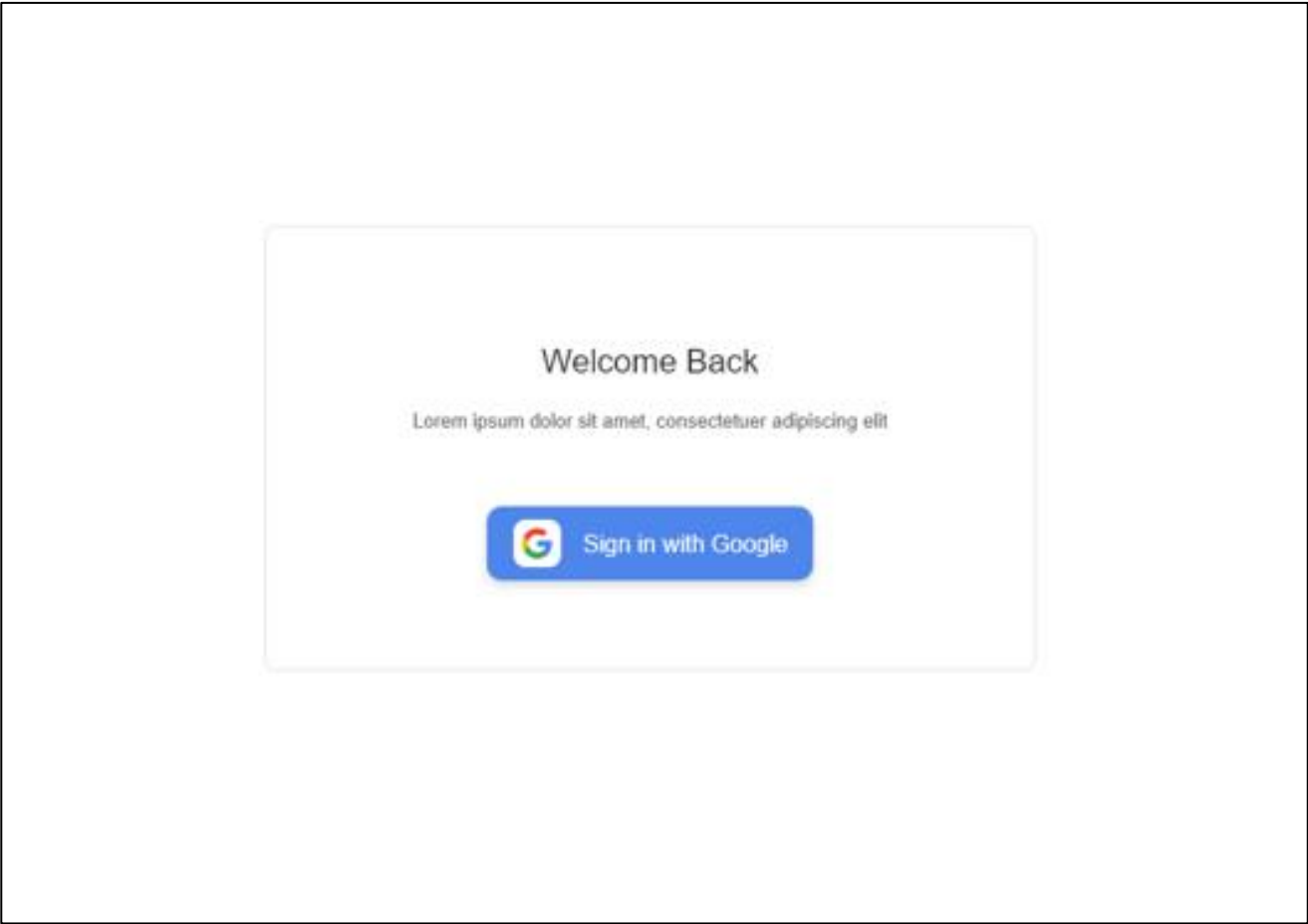
## Evaluation Process

Please check-out the visualization libraries try this assignment out

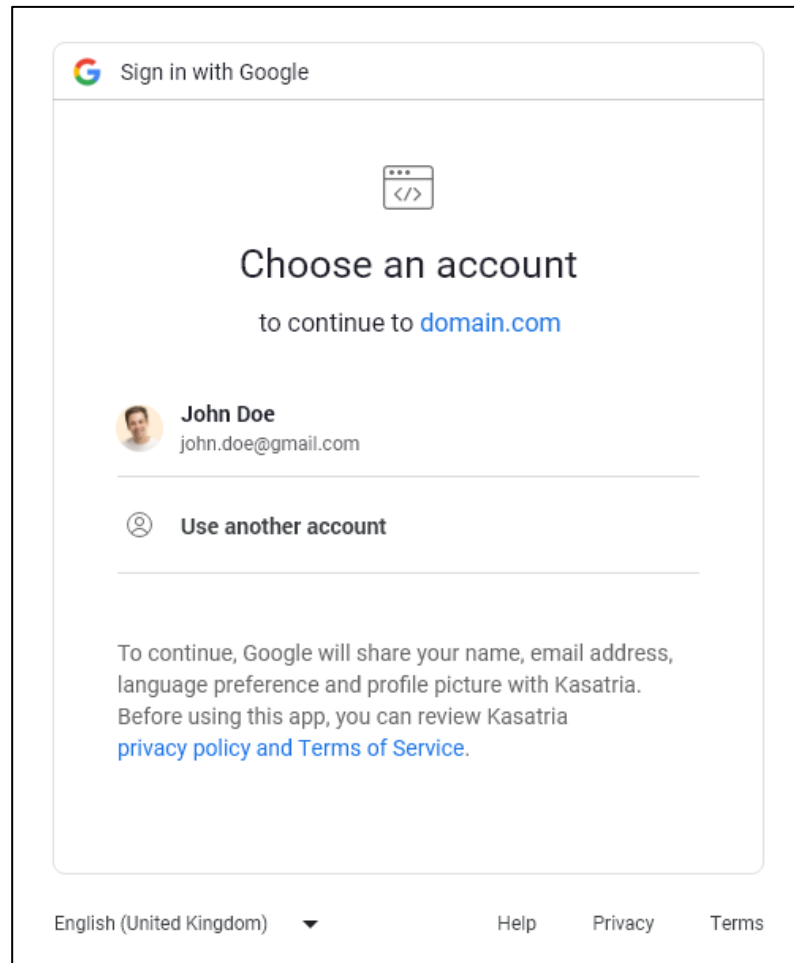
[https://threejs.org/examples/#css3d\\_periodictable](https://threejs.org/examples/#css3d_periodictable)

1. Create a Google Sheet and import the CSV file given. Share the Google Sheet with [lisa@kasatria.com](mailto:lisa@kasatria.com).
2. Create a webpage with Google login credential - refer to **Image A** (you will need to create a Google Cloud Project for this).
3. Modify the periodic table demo so that it retrieves the data from your Google Sheet and use that to populate the “periodic table”.
4. In each element in the 3D Object, please replace the chemical element with the data given. Data structure should be like in the **Image B**.
5. For each tile, colored the background data based on their Net Worth (**Red** <\$100K, **Orange** >\$100K & **Green** >\$200K).
6. Arrange the data in 4 different format – **Table, Sphere, Helix and Grid**.
7. For tiles arrangement in Table, the arrangement should be 20x10.
8. For the Helix, it should be a double Helix instead of the default single Helix.
9. Meanwhile, the arrangement for Grid should be 5x4x10 - refer to **Image C**.
10. Once the assignment is completed, please **send the URL link to your webpage**.

# Sign In With Google



# Choose Google Account



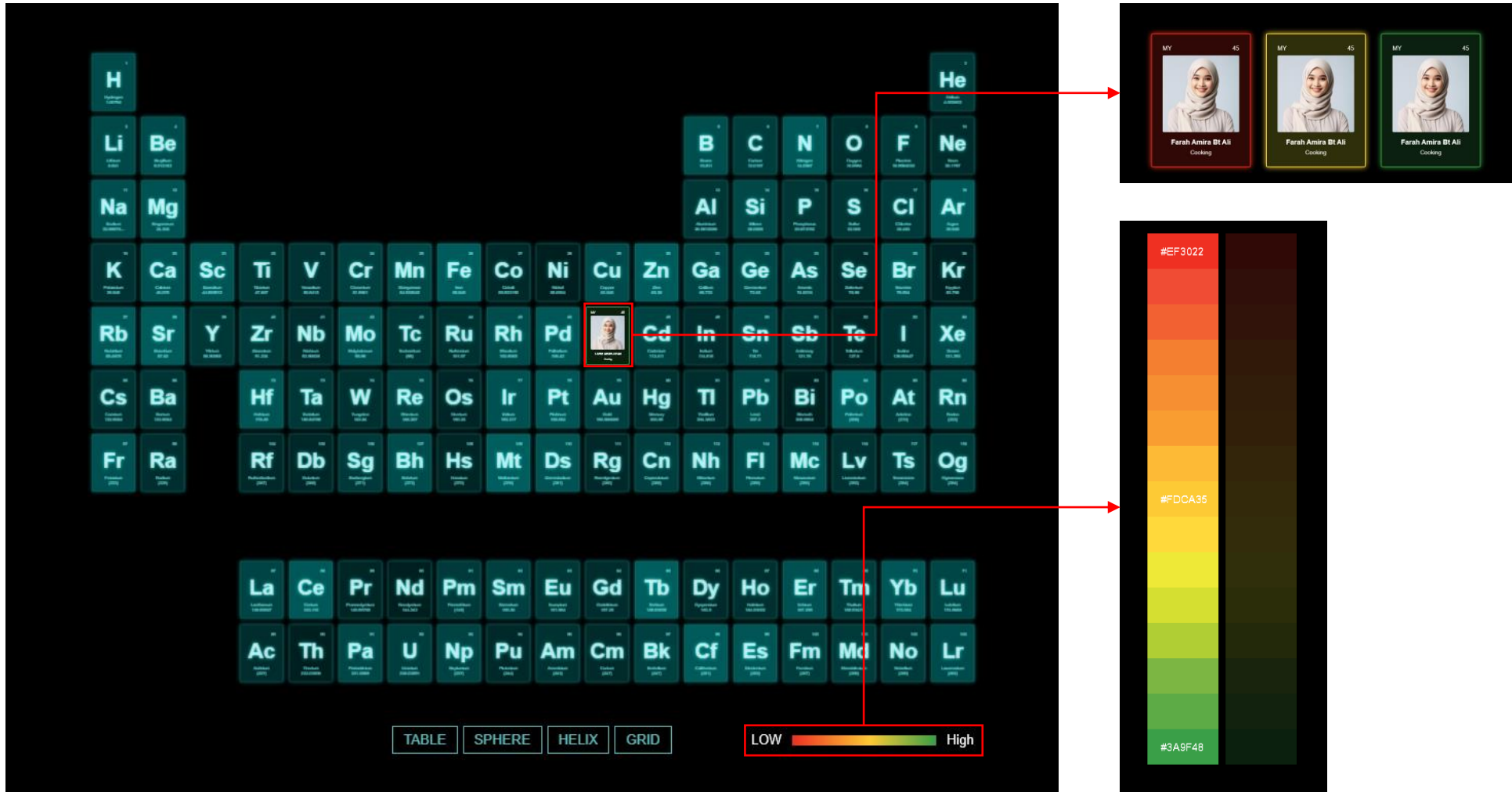
# Table Size

20



<b>H</b> Hydrogen 1.00794																	<b>He</b> Helium 4.002602
<b>Li</b> Lithium 6.941	<b>Be</b> Beryllium 9.012182											<b>B</b> Boron 10.811	<b>C</b> Carbon 12.011	<b>N</b> Nitrogen 14.0064	<b>O</b> Oxygen 15.999	<b>F</b> Fluorine 18.9984032	<b>Ne</b> Neon 20.1797
<b>Na</b> Sodium 22.98976928	<b>Mg</b> Magnesium 24.304											<b>Al</b> Aluminum 26.9815385	<b>Si</b> Silicon 28.0855	<b>P</b> Phosphorus 30.973761998	<b>S</b> Sulfur 32.06	<b>Cl</b> Chlorine 35.453	<b>Ar</b> Argon 39.948
<b>K</b> Potassium 39.0983	<b>Ca</b> Calcium 40.078	<b>Sc</b> Scandium 44.955912	<b>Ti</b> Titanium 47.88	<b>V</b> Vanadium 50.9415	<b>Cr</b> Chromium 51.9961	<b>Mn</b> Manganese 54.938044	<b>Fe</b> Iron 55.845	<b>Co</b> Cobalt 58.933195	<b>Ni</b> Nickel 58.6934	<b>Cu</b> Copper 63.546	<b>Zn</b> Zinc 65.38	<b>Ga</b> Gallium 69.723	<b>Ge</b> Germanium 72.63	<b>As</b> Arsenic 74.9216	<b>Se</b> Selenium 78.96	<b>Br</b> Bromine 79.904	<b>Kr</b> Krypton 83.798
<b>Rb</b> Rubidium 85.4678	<b>Sr</b> Strontium 87.62	<b>Y</b> Yttrium 88.90584	<b>Zr</b> Zirconium 91.224	<b>Nb</b> Niobium 92.90638	<b>Mo</b> Molybdenum 95.94	<b>Tc</b> Technetium (98)	<b>Ru</b> Ruthenium 101.07	<b>Rh</b> Rhodium 102.9055	<b>Pd</b> Palladium 106.32	<b>Ag</b> Silver 107.8682	<b>Cd</b> Cadmium 112.411	<b>In</b> Indium 114.818	<b>Sn</b> Tin 118.71	<b>Sb</b> Antimony 121.757	<b>Te</b> Tellurium 127.6	<b>I</b> Iodine 126.90547	<b>Xe</b> Xenon 131.29
<b>Cs</b> Cesium 132.90545196	<b>Ba</b> Barium 137.327		<b>Hf</b> Hafnium 178.49	<b>Ta</b> Tantalum 180.94788	<b>W</b> Tungsten 183.84	<b>Re</b> Rhenium 186.207	<b>Os</b> Osmium 190.23	<b>Ir</b> Iridium 192.222	<b>Pt</b> Platinum 195.084	<b>Au</b> Gold 196.966569	<b>Hg</b> Mercury 200.59	<b>Tl</b> Thallium 204.3833	<b>Pb</b> Lead 207.2	<b>Bi</b> Bismuth 208.9804	<b>Po</b> Polonium (209)	<b>At</b> Astatine (210)	<b>Rn</b> Radon (222)
<b>Fr</b> Francium (223)	<b>Ra</b> Radium (226)		<b>Rf</b> Rutherfordium (261)	<b>Db</b> Dubnium (262)	<b>Sg</b> Seaborgium (266)	<b>Bh</b> Bohrium (264)	<b>Hs</b> Hassium (277)	<b>Mt</b> Meitnerium (268)	<b>Ds</b> Darmstadtium (281)	<b>Rg</b> Roentgenium (282)	<b>Cn</b> Copernicium (285)	<b>Nh</b> Nihonium (286)	<b>Fl</b> Flerovium (289)	<b>Mc</b> Moscovium (290)	<b>Lv</b> Livermorium (293)	<b>Ts</b> Tennessine (294)	<b>Og</b> Oganesson (294)
<b>La</b> Lanthanum 138.90547	<b>Ce</b> Cerium 140.12	<b>Pr</b> Praseodymium 140.90768	<b>Nd</b> Neodymium 144.24	<b>Pm</b> Promethium (145)	<b>Sm</b> Samarium 150.36	<b>Eu</b> Europium 151.964	<b>Gd</b> Gadolinium 157.25	<b>Tb</b> Terbium 158.92535	<b>Dy</b> Dysprosium 162.5	<b>Ho</b> Holmium 164.93032	<b>Er</b> Erbium 167.259	<b>Tm</b> Thulium 168.93481	<b>Yb</b> Ytterbium 173.054	<b>Lu</b> Lutetium 174.967			
<b>Ac</b> Actinium (227)	<b>Th</b> Thorium 232.0377	<b>Pa</b> Protactinium 231.03688	<b>U</b> Uranium 238.02891	<b>Np</b> Neptunium (237)	<b>Pu</b> Plutonium (244)	<b>Am</b> Americium (243)	<b>Cm</b> Curium (247)	<b>Bk</b> Berkelium (247)	<b>Cf</b> Californium (251)	<b>Es</b> Einsteinium (252)	<b>Fm</b> Fermium (257)	<b>Md</b> Mendelevium (258)	<b>No</b> Nobelium (259)	<b>Lr</b> Lawrencium (262)			

# Data Structure



# Grid Size

