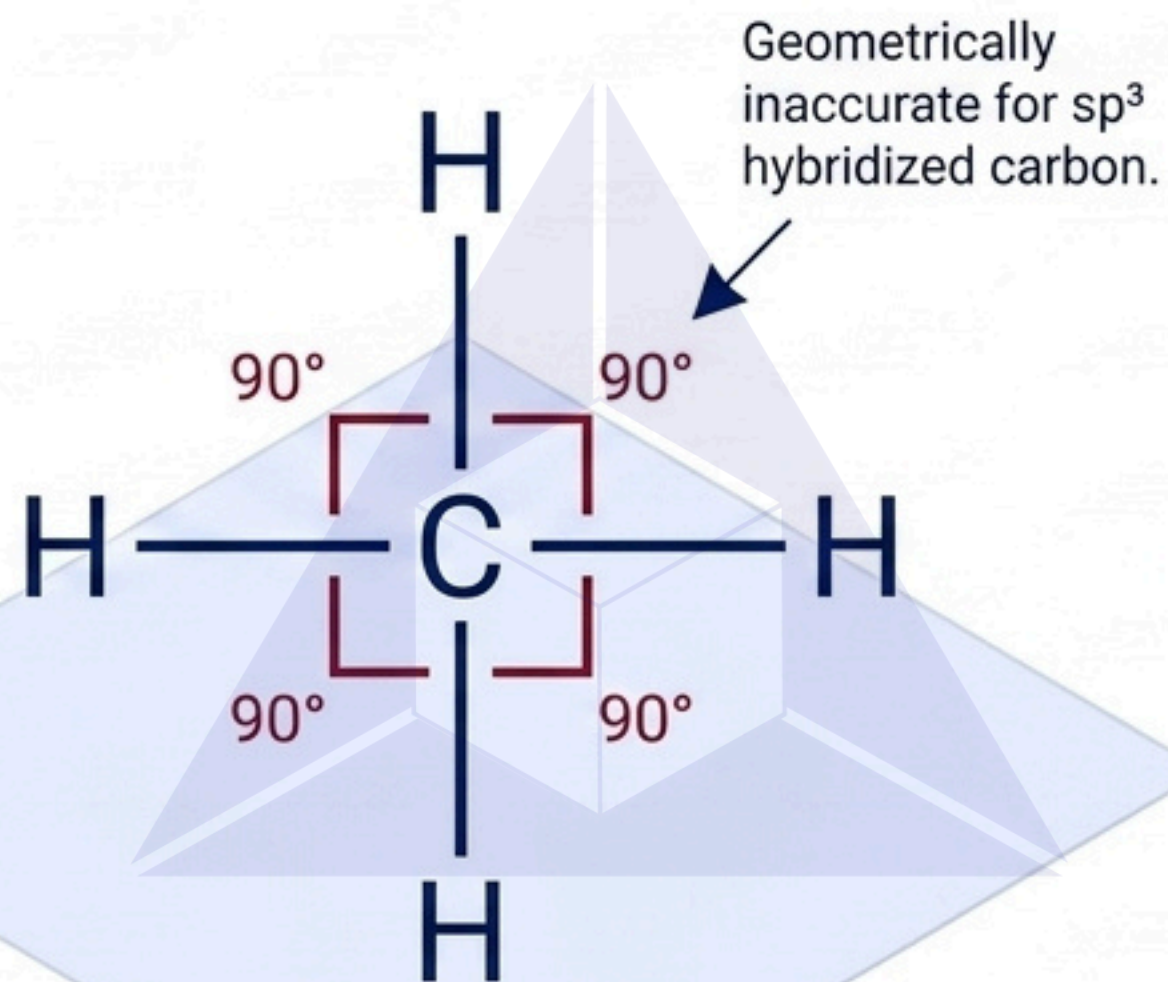
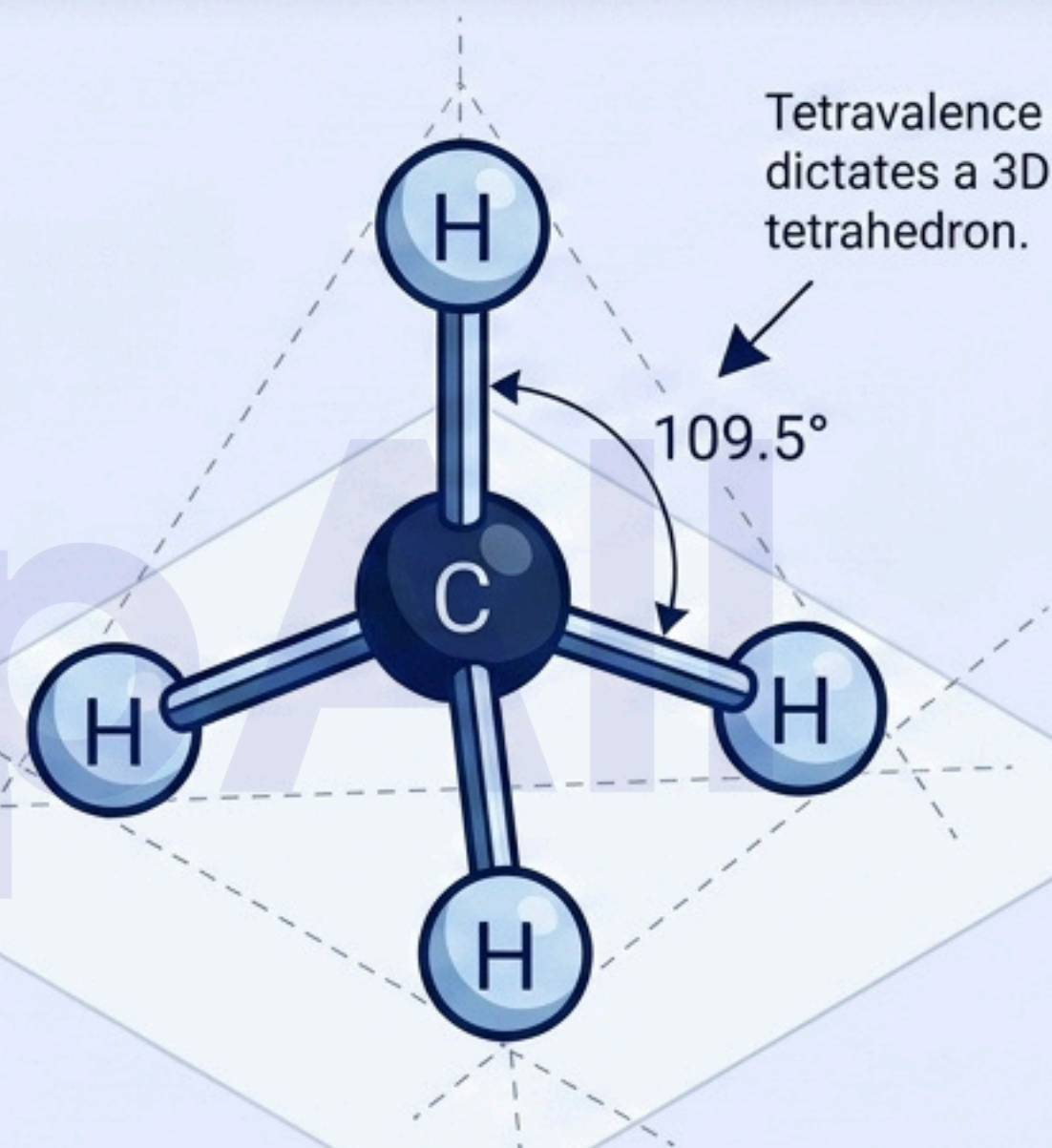


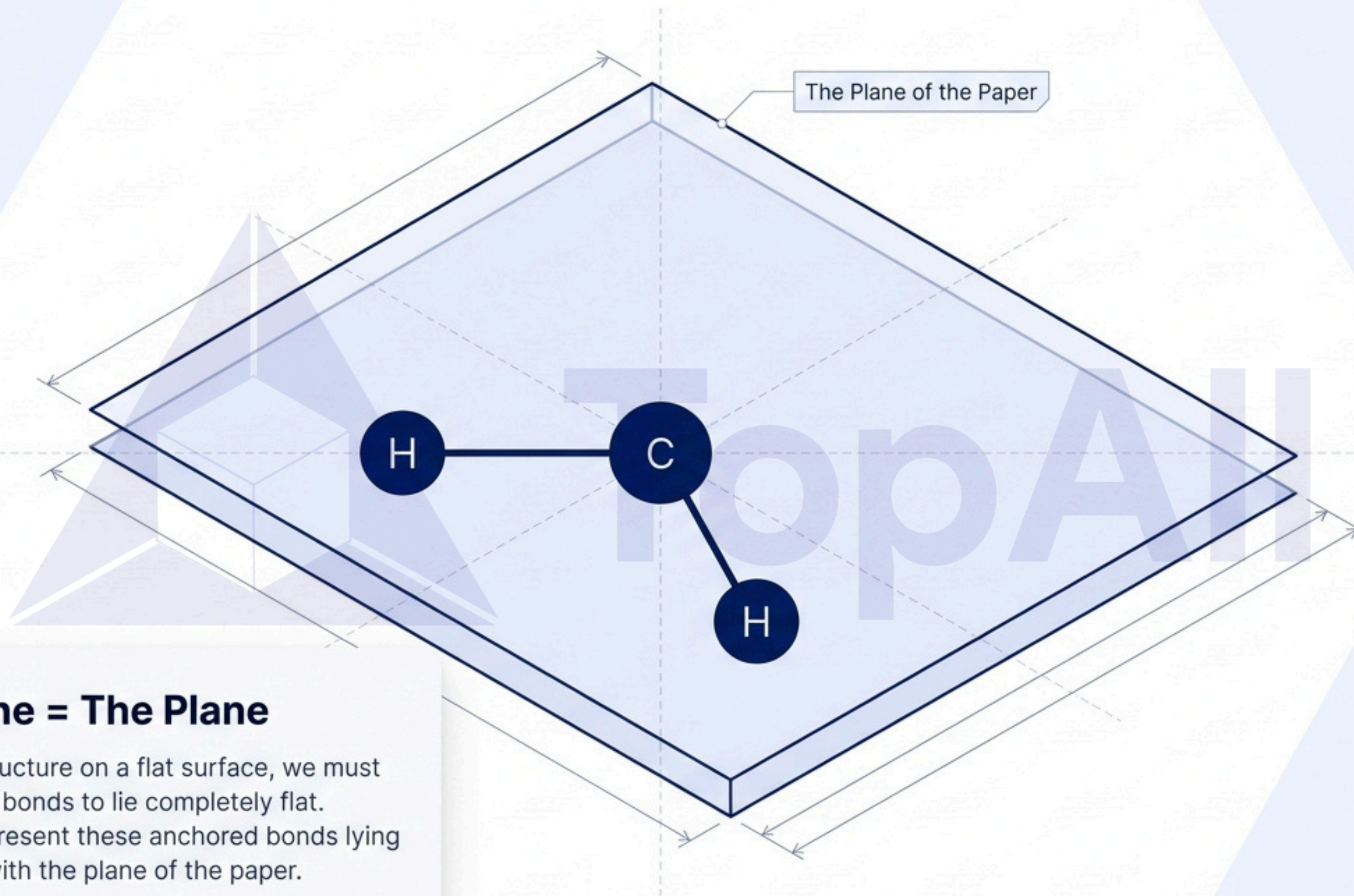
The 2D Illusion (Paper)



The 3D Reality (Nature)



The wedge-dash notation system was engineered to solve this exact dimensional limitation.



Normal Line = The Plane

To build a 3D structure on a flat surface, we must first choose two bonds to lie completely flat. Normal lines represent these anchored bonds lying perfectly flush with the plane of the paper.



You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



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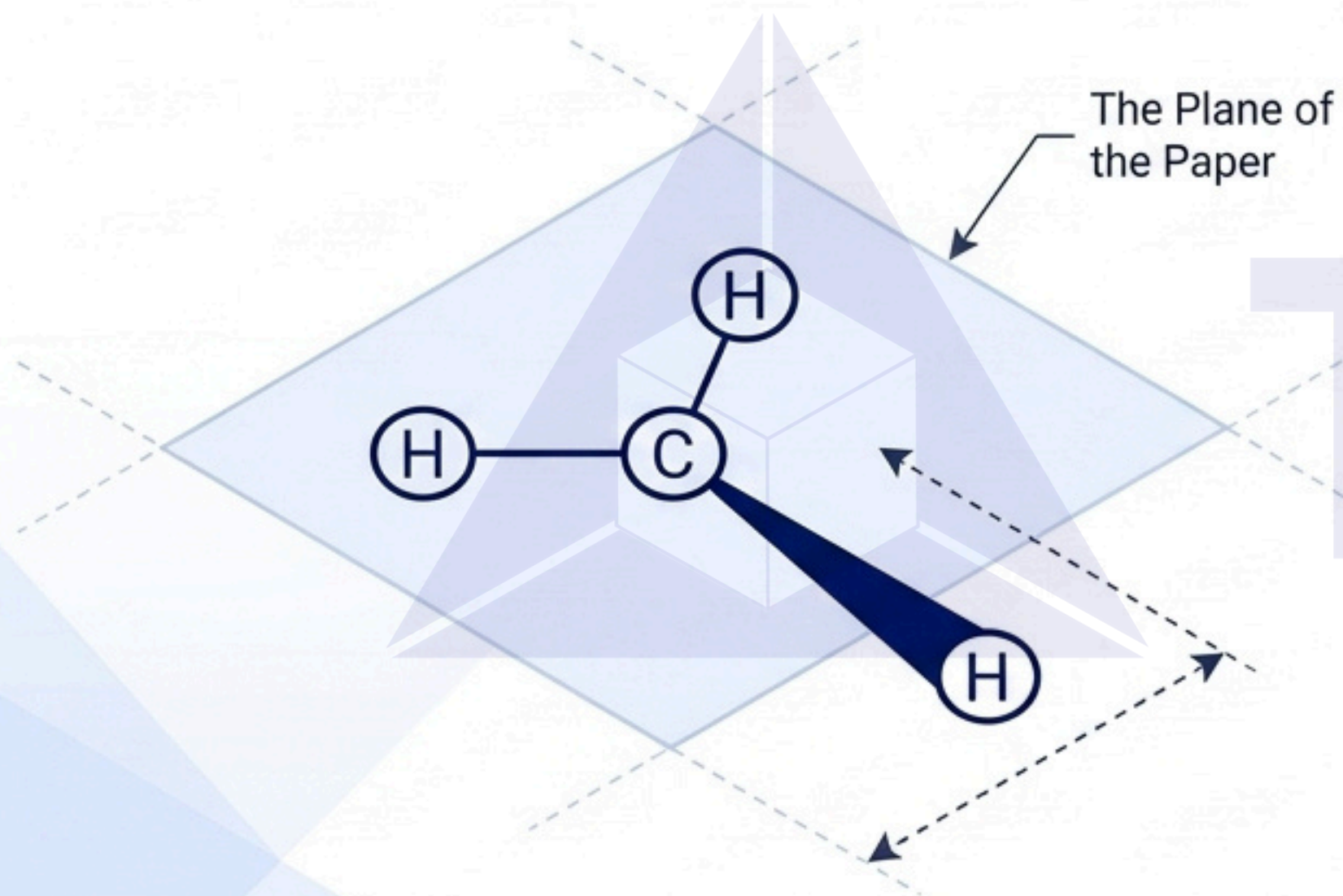
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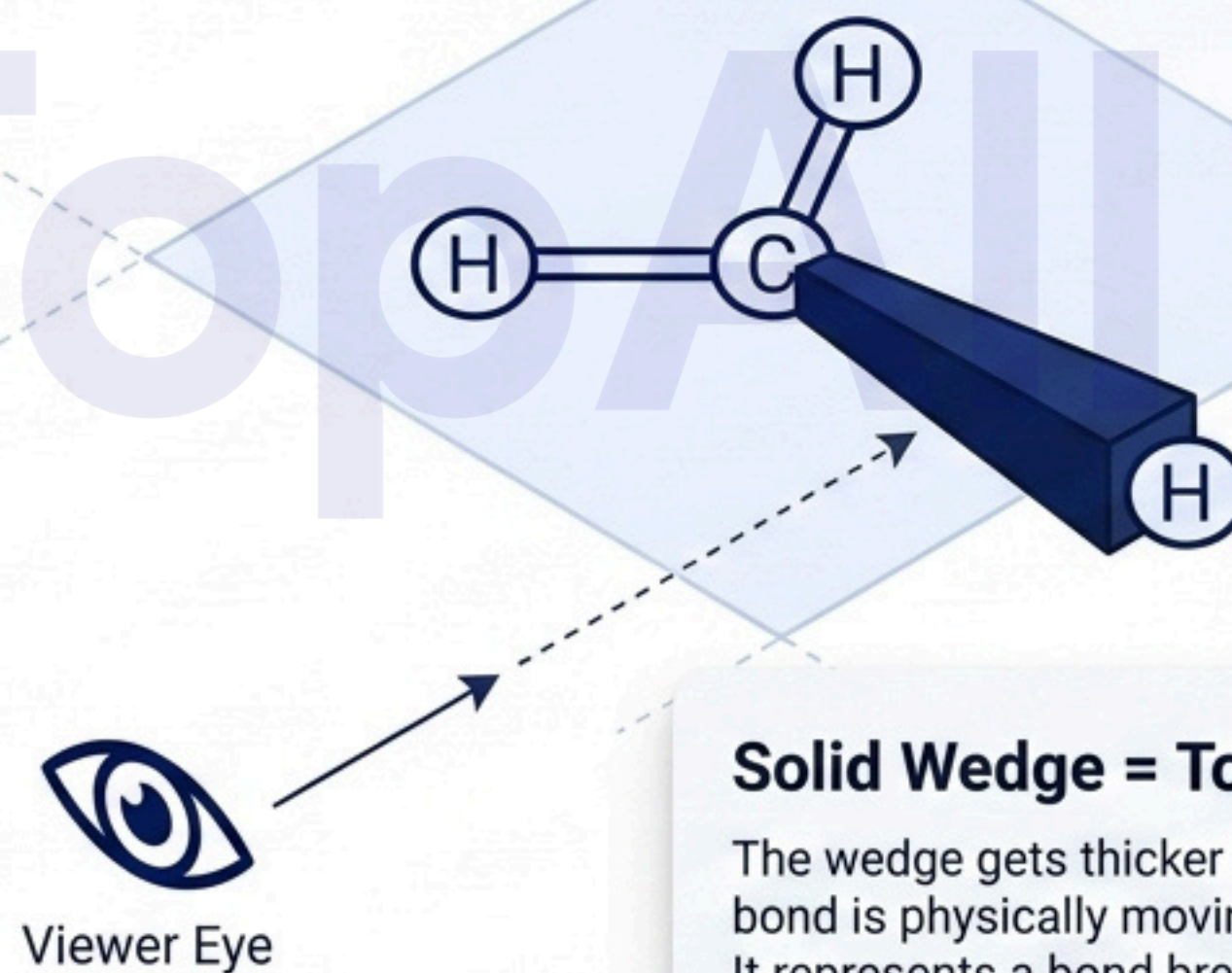


The Solid Wedge Pierces Toward the Observer

The Notation

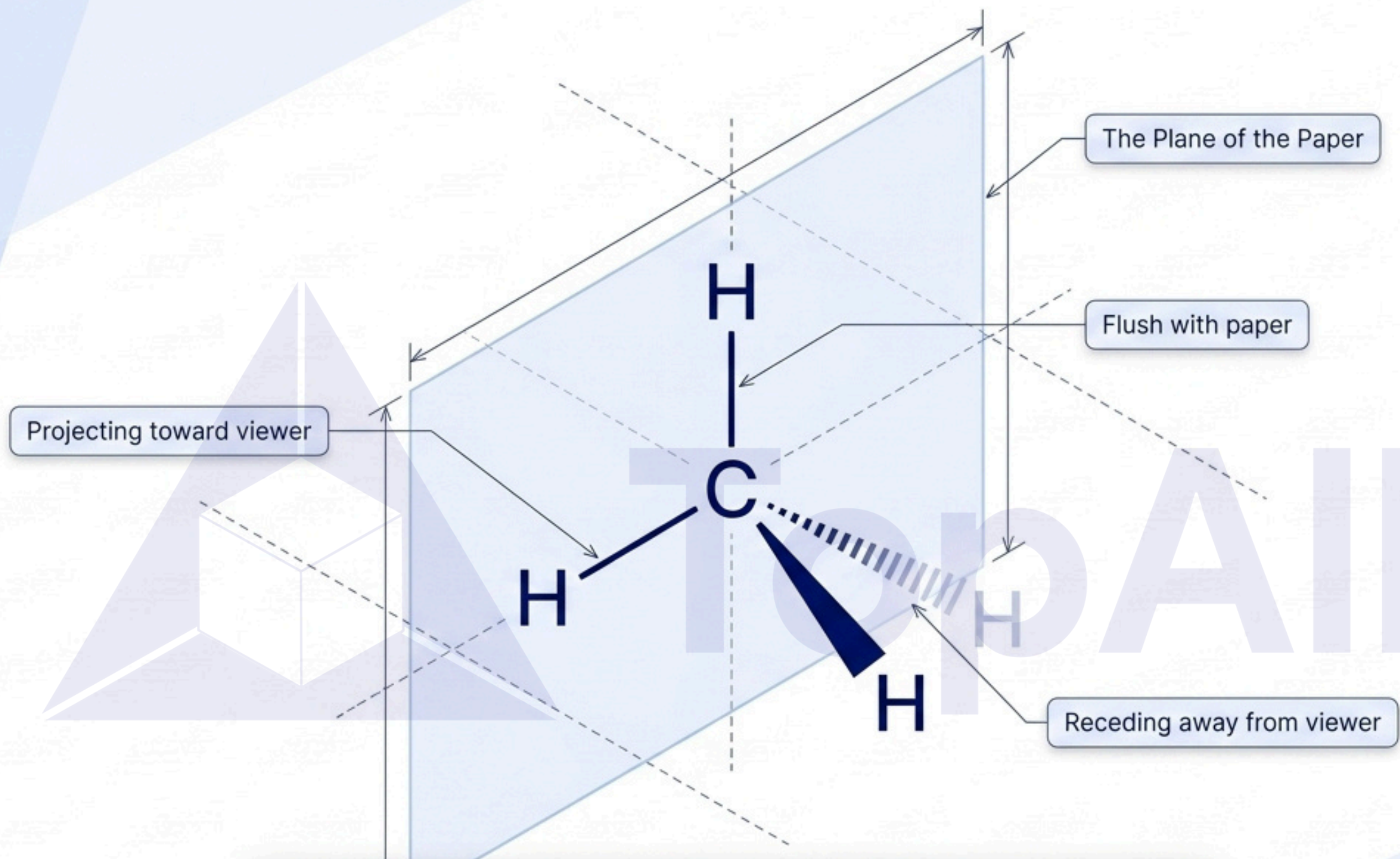


The Reality Camera



Solid Wedge = Towards

The wedge gets thicker because the bond is physically moving closer to you. It represents a bond breaking out of the page, scaling up via forced perspective.

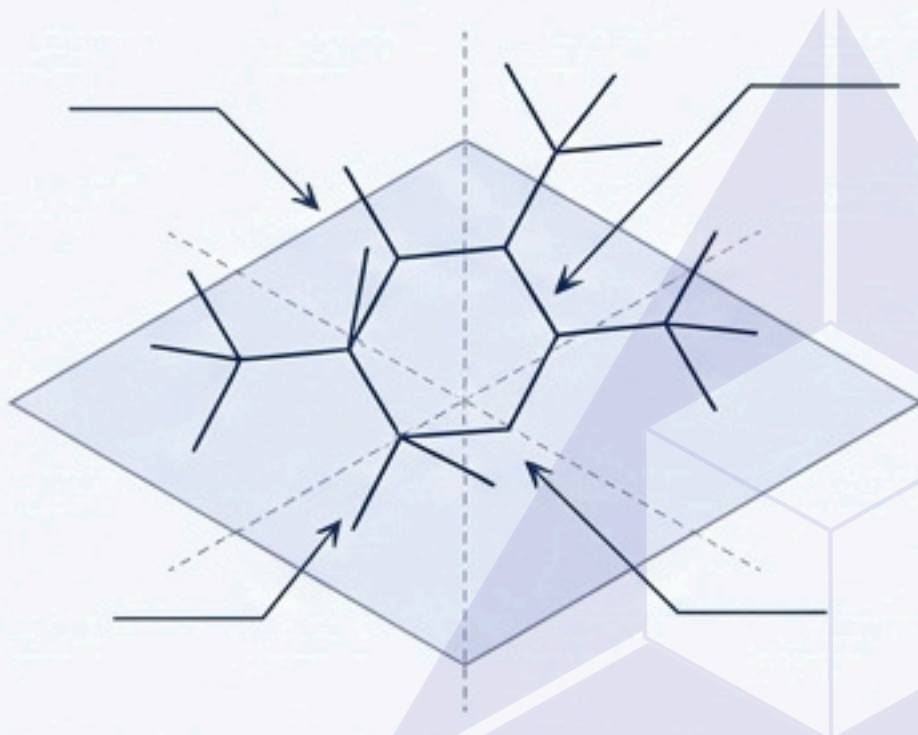


Dashed Wedge = Away

The dashed lines represent the bond fading into the distance, obscured by the plane of the paper. Our 2D medium now holds a complete 3D object.

Translating Notation into Physical Models

Framework Model

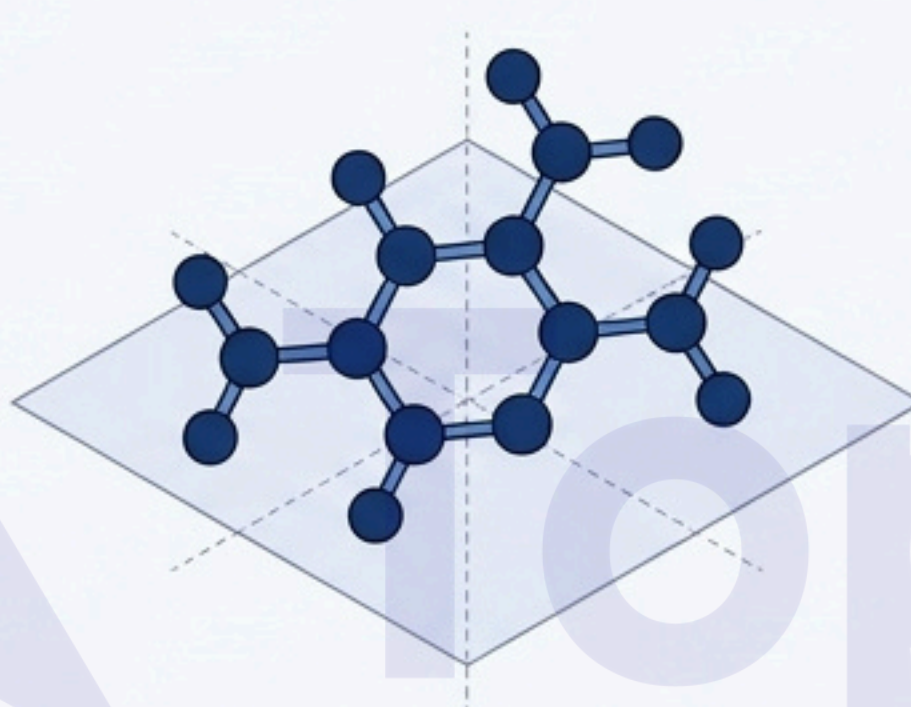


Emphasizes:
Only the bonds connecting atoms.

Hides:
Atomic size and true volume.

Best Use Case:
Tracking complex carbon backbones and connectivity in large organic molecules.

Ball-and-Stick Model

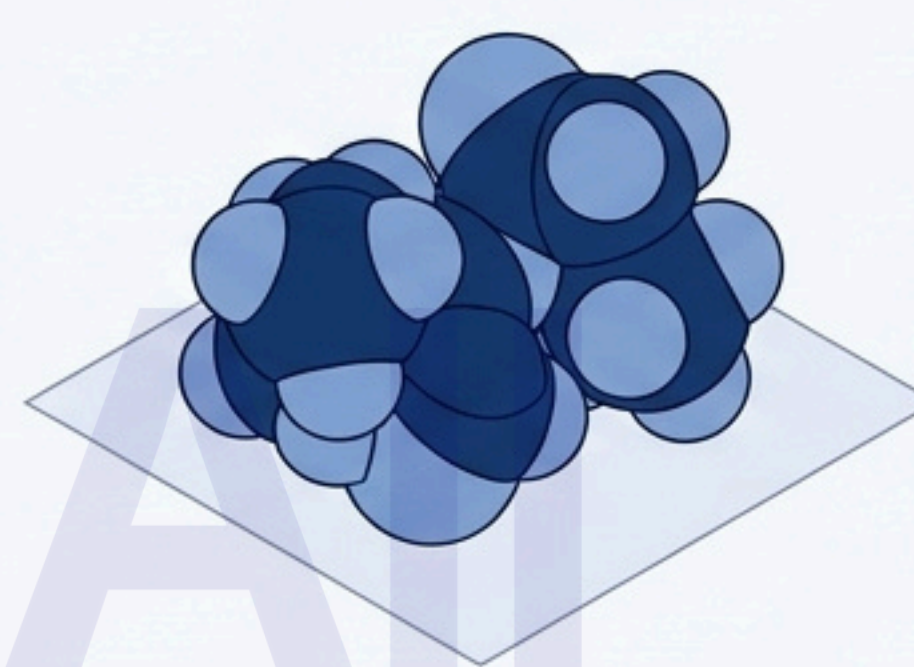


Emphasizes:
Both atomic nuclei and bonds.

Hides:
True Van der Waals radii (space occupied).

Best Use Case:
Visualizing exact bond angles, stereochemistry, and spatial arrangements.

Space-Filling Model



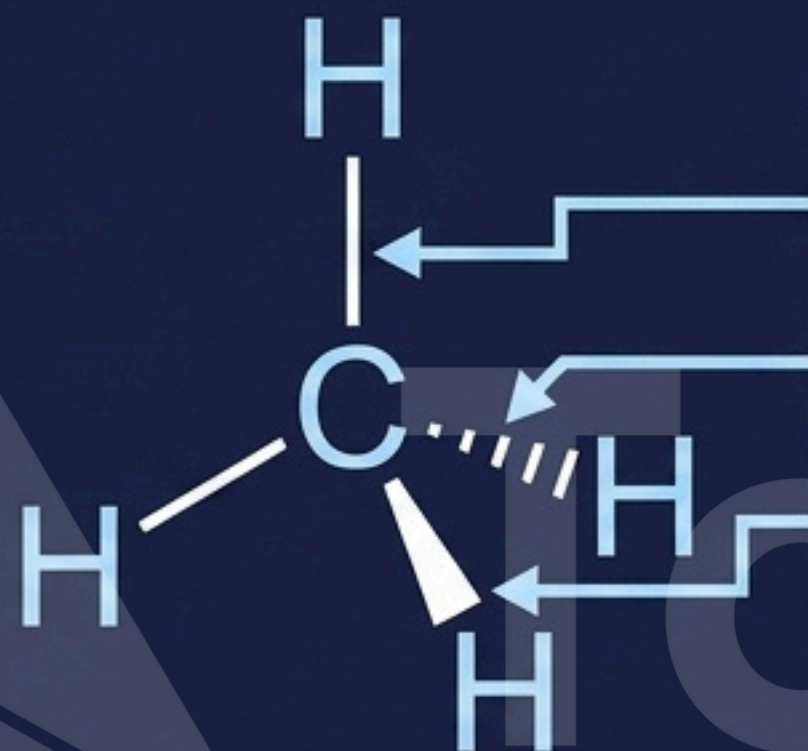
Emphasizes:
True relative 3D molecular volume.

Hides:
Internal bonds and skeletal structure.

Best Use Case:
Analyzing steric hindrance and overall molecular shape.

Revision Frame: 3D Spatial Systems

Wedge-Dash Legend



1	Normal Line	Plane of Paper	Anchor
2	Solid Wedge	Towards Viewer	+ Z-Axis
3	Dashed Wedge	Away from Viewer	- Z-Axis

Model Selection Matrix

 Framework	 Ball-and-Stick	 Space-Filling
Backbone Connectivity	Bond Angles	Volume & Sterics



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