Electronic bands of crystalline structures are one of the key ingredients of condensed matter theory and can be obtained from first principles. The energy bands are typically computed along a path following high-symmetry lines of the Brillouin zone, and one often needs to reorder this path to compare between them different band structures. We present here a visualization tool that enables such reordering in real-time, applying it to the band structure of diamond computed using Quantum-ESPRESSO [1].

The visualizer uses the D3 javascript library [2].

Electronic bands of crystalline structures are one of the key ingredients of condensed matter theory and can be obtained from first principles. The energy bands are typically computed along a path following high-symmetry lines of the Brillouin zone, and one often needs to reorder this path to compare between them different band structures. We present here a visualization tool that enables such reordering in real-time, applying it to the band structure of diamond computed using Quantum-ESPRESSO [1].

The visualizer uses the D3 javascript library [2].