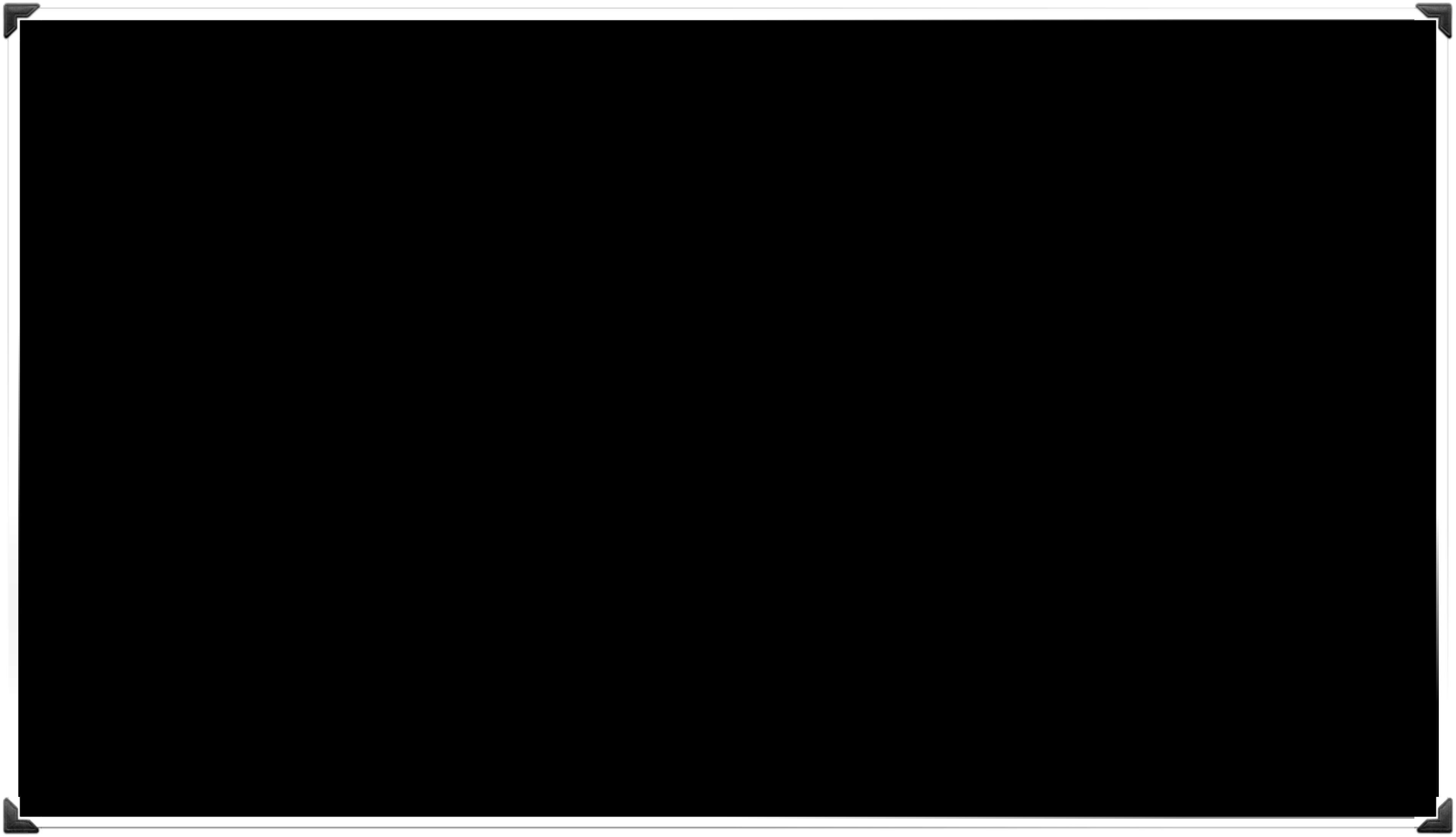


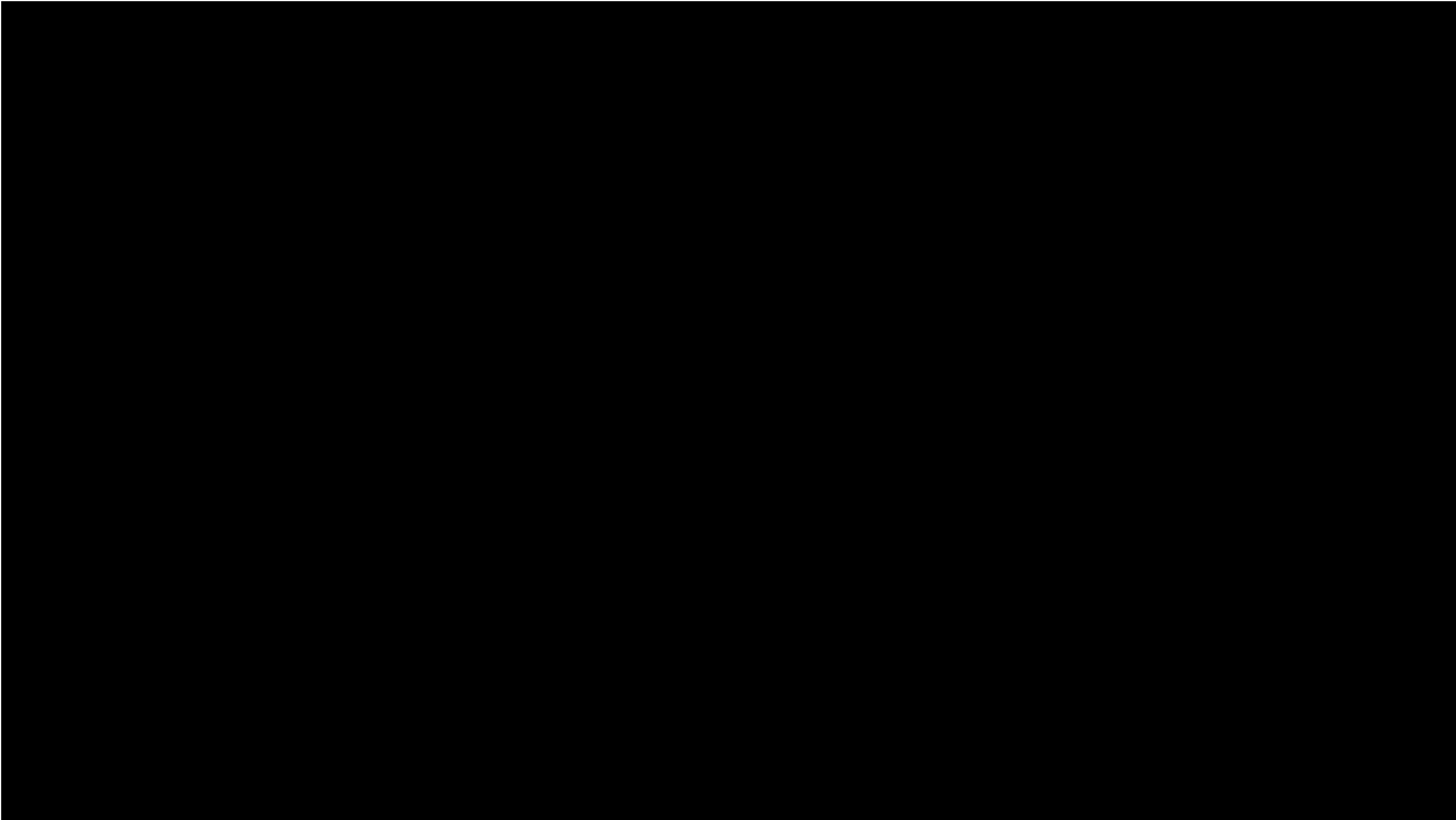




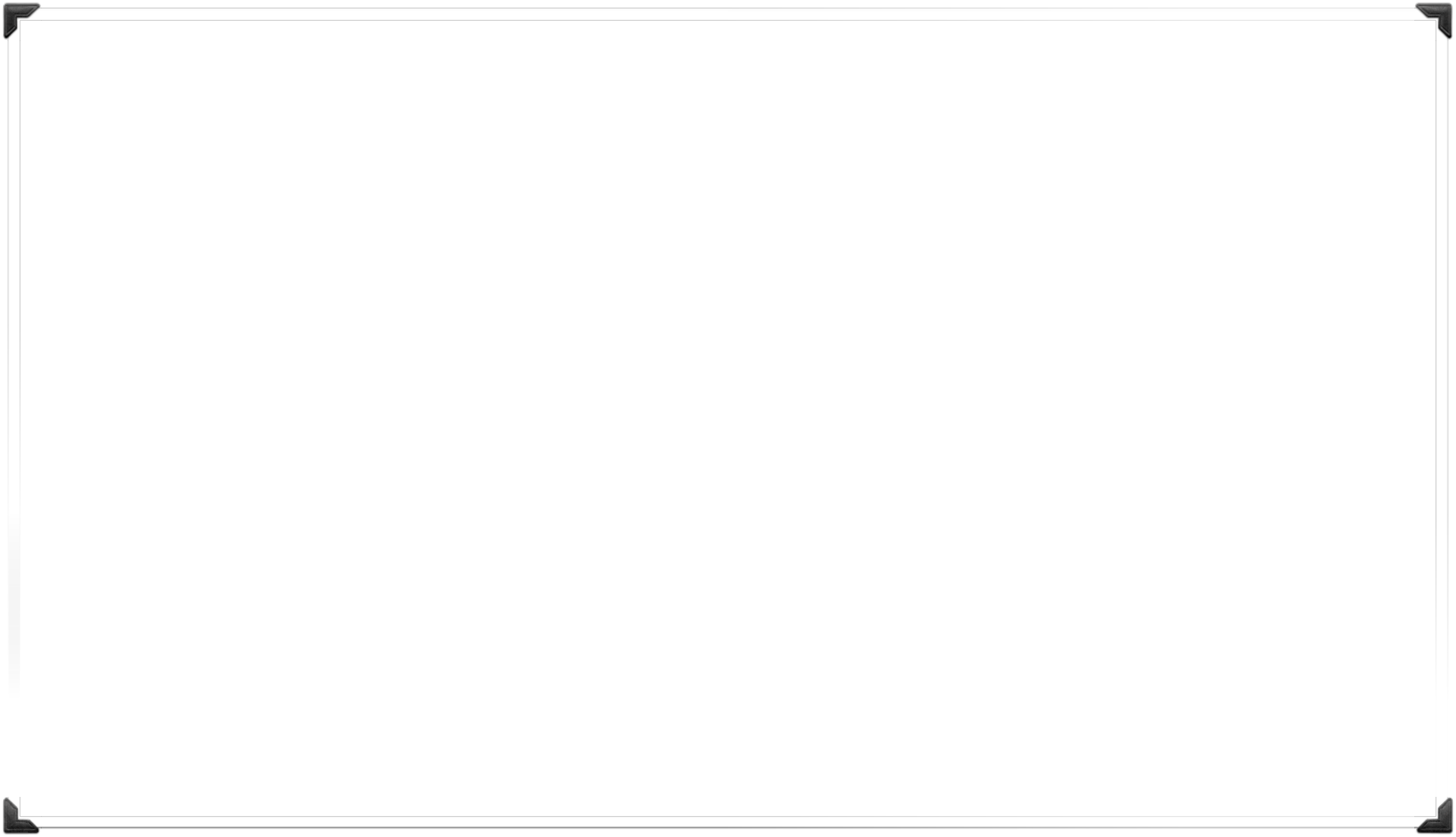
<https://www.youtube.com/watch?v=pIVk4NVVIUh8>



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## Example: MHC-restricted CTL killing of infected cells

- CD8+ Cytotoxic T-lymphocytes (CTLs) effect cell-mediated immune response
- Foreign (e.g., viral) proteins are cleaved by the proteasome in infected cells, transported by the Transporter associated with antigen processing (TAP) complex and loaded onto the MHC Class 1 molecule.
- MHC Class 1 presents a restricted polypeptide (**epitope**) on the surface of the cell.
- A CD8+ cells binds to presented foreign peptides via a T cell receptor (TCR) and initiates infected cell apoptosis.

