1171-13-169 **Justin Chen*** (justin.chen@math.gatech.edu). Primary decomposition of modules via Ext. Primary decomposition is a tool of foundational importance in commutative algebra. Often the most interesting aspects of a primary decomposition are already captured by the set of associated primes. Eisenbud, Huneke, and Vasconcelos [EHV] showed how to understand the set of associated primes via a free resolution, namely through Ext. I will discuss how primary decomposition for general modules is computed in Macaulay2, making effective the work of [EHV]. (Received August 10, 2021)