In this thesis we introduce an innovative approach to visualisation and search results presentation for large video collection search and browsing. The general problem of video search is analysed and discussed in comparison with other current software tools and methods used for video search. A specific visualisation method and algorithm for its generation is then proposed and discussed. We evaluated the methods both, empirically and by a user study. Based on the results, we chose the best possible algorithm settings for interactive video search and applied them. A simple experimental software tool implementing the proposed methods is developed focusing on the visualisation components.