Abstract: In response to the current global pandemic, we developed a quantitative community needs assessment tool that utilizes visualization. Due to COVID-19, non-profit budgets are facing cuts and shortfalls, and organizations are strapped for resources and information. In such unprecedented times, a unique solution is necessary to help nonprofits fully understand COVID-19 and its influence on social and economic needs. We are committed to providing a tool for non-profit organizations to make quicker, more informed data-driven decisions about resource distribution. We develop a centralized dashboard capturing various metrics that represent the community’s vulnerability to COVID-19. Our extensive, integrated dataset contains a range of health care, public health, physical and community infrastructure, socio-economic, demographic, and COVID-19 specific information, available for use. We compile data from various open access sources, such as the New York Times and the Robert Wood Johnson Foundation, and calculate interpretive indices for every US county. These indices include Severe COVID Complication Score, Risk of Economic Harm Score, Mobile Health Needs Score, Community Connected Score, Mental Health Needs Score, Food Access Score, Info Deserts Score, and Overwhelming Healthcare System Score. Our metrics are constructed using the following procedure: Each variable is quantile normalized to a Gaussian based on the full set of US counties to a scale of 0 to 100. Each of the normalized indicators is combined linearly and the final score is divided by the number of factors included*weights to get a final score between 0 and 100. Weights were determined through a review of published CDC information and other relevant literature. Deeper analysis of the incorporated dataset will help nonprofit organizations answer important questions related to community needs and respond to them accordingly.