

Proposal for OSMH Mental Health Survey 2016 EDA

Executive Summary	<p>Open Sourcing Mental Health (formerly OSMI) is a non-profit corporation dedicated to raising awareness, educating, and providing resources to support mental wellness in the tech and open-source communities.</p> <p>Currently over 1400 responses, the ongoing 2016 survey aims to measure attitudes towards mental health in the tech workplace, and examine the frequency of mental health disorders among tech workers.</p>
who	<p><i>Stakeholder:</i> Joe Ferguson (Executive director/ Chief Cat Herder)</p> <p><i>Audience:</i> OSMH members, Internet community at large</p>
Persona	Administer Mental Health in Tech
Job Title	Executive Director at OSMH
Demographics	<p>Principal Software Engineer @ Preteckt</p> <p>Executive Director @ OSMH</p> <p>Executive Director @ Memphis Technology Foundation</p> <p>Developer, Manager, Architect, and PHP @ Ministry Brands</p>
Goals and Tasks	<ul style="list-style-type: none">• Maintain Organization Finances, Non-profit filings• Marketing efforts, sponsorship coordination with events to promote awareness and research• Facilitate speaker at corporate/public/private events focused on mental health• Administer annual “Mental Health in Tech” research of mental health in tech industry
what	<p><i>Data Source:</i> consists of over 1400 responses about mental health by tech workers</p> <p><i>Data Quality:</i> clear and concise</p> <p><i>Data Timeline:</i> data of 2016 survey</p>

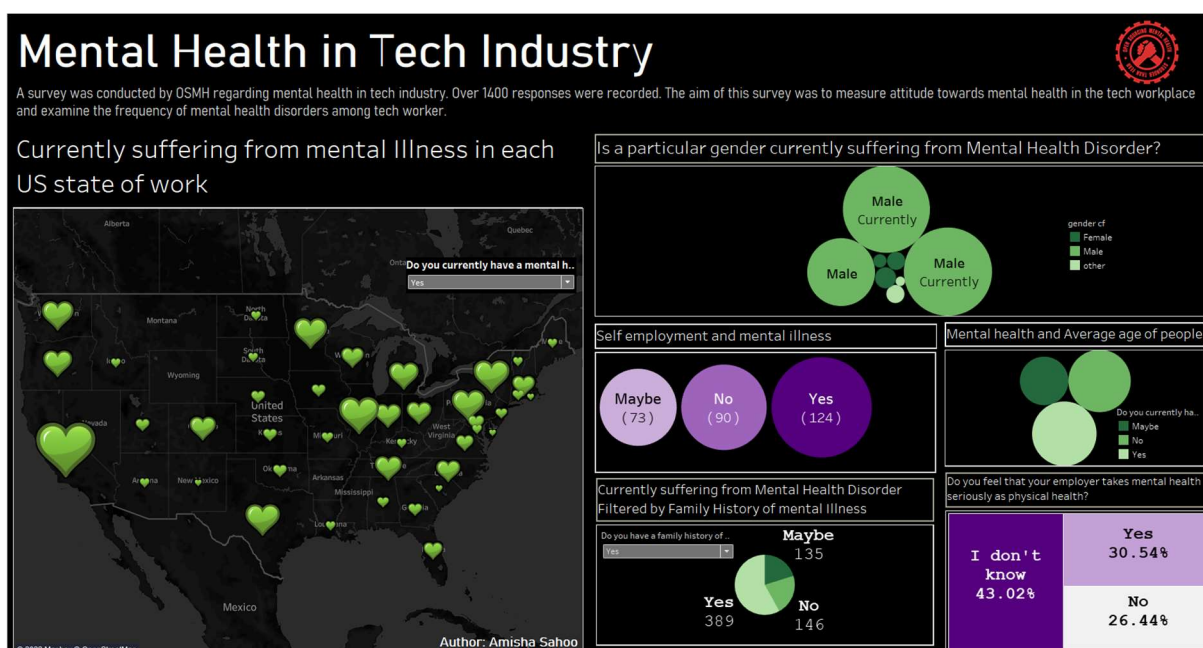
How	<p><i>Format:</i> Presentation Slide with Tableau Dashboard Report</p> <p><i>Presentation Vehicle:</i> Tablet or Desktop</p>
Why	<p><i>Goals:</i></p> <ul style="list-style-type: none"> To measure attitudes towards mental health in the tech workplace Examine the frequency of mental health disorders among tech workers. <p><i>Intended Outcome:</i></p> <ul style="list-style-type: none"> Introduce measures to improve mental health in tech industry
Challenges	The data set is based on a 2016 survey. There might have been a notable change in mental health of people.

My Viz Dashboard Link:

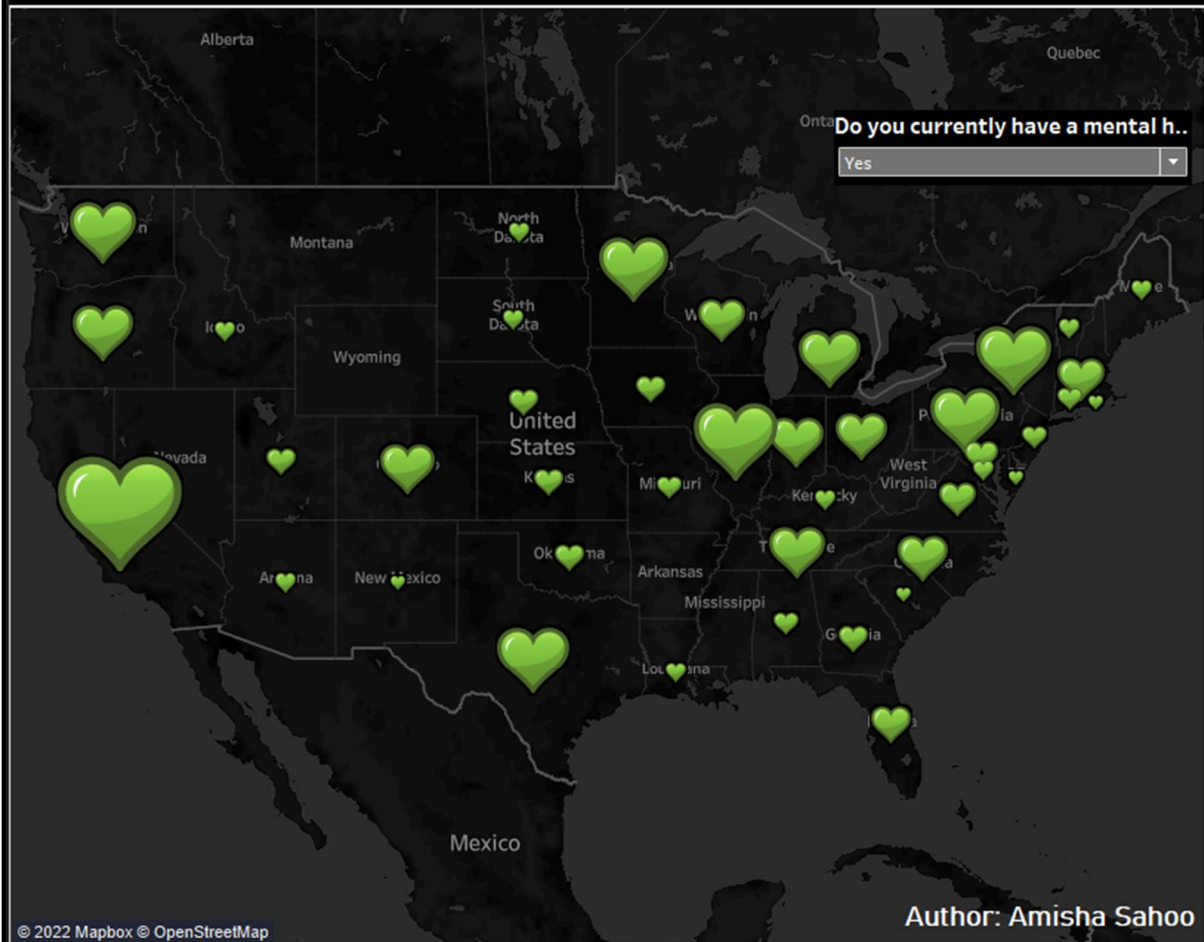
<https://public.tableau.com/app/profile/amisha.sahoo/viz/mentalhealthintechindustry/mentalhealthdashboard?publish=yes>

Screenshots of Viz Dashboard:

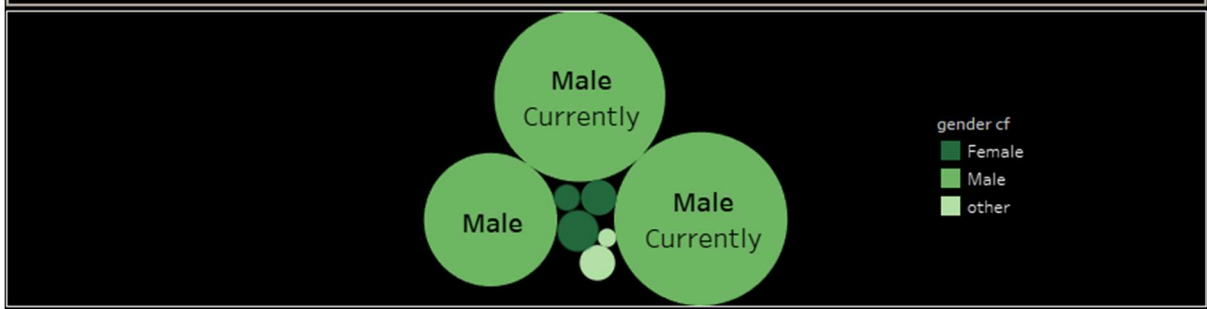
I am adding screenshots of my visualization dashboard in case you find overlapping or distorted content when viewing on your device.



Currently suffering from mental illness in each US state of work



Is a particular gender currently suffering from Mental Health Disorder?





Highlights of Design Choice:

1. Understanding the number of people currently suffering from mental health disorders who are working in US states. Among all the places where the survey was conducted, more than 85% data points were taken from US. Hence, the first visualisation helps us understand how many people from each US state are currently suffering from mental health disorder. The shape size shows the density of the data points. There is a filter than filters out datapoints based on the answers “Yes”, “No”, “Maybe” to “Are you currently suffering from mental health disorder”.
2. Showing the relationship between people currently suffering from mental illness and gender. It is observed that from the total number of data points, men are most likely to be suffering from mental illness.
However, one thing is to note here that from our dataset, the gender ratio is quite skewed towards the Male gender. Hence, it would not suffice to draw a conclusion about which gender is more vulnerable to mental health disorders.
3. Self-employment increases the number of mental health disorders. As observed, the self-employed people are the ones leading in currently suffering from mental health disorders.
4. Relationship between mental illness and average age of people. It is very important to understand which age group is most likely to be affected by mental illness to take necessary steps to reduce these numbers.
5. Understanding how history of mental illness in family affects current suffering of mental health disorders. There is a filter than filters out datapoints based on the answers “Yes”, “No”, “I don’t know” to “Are you currently suffering from mental health disorder”.
6. Understanding what people feel when they think about sharing their mental health condition with their employer. Understanding whether people believe their employer will understand their mental health disorder or not.

Our goal is most likely accomplished. However, it would have been better if there were more numeric features in our dataset because numbers speak for themselves. One more thing that could have been added in the survey is that how many people felt if the tech domain has somewhere contributed in their mental health disorder and how many people quit or stayed in the tech industry after being diagnosed.

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