Tales from the Trip

An atlas

The psychedelic renaissance.

The timeline on the right shows how many scientific articles about psilocybin have been published each year in the period 1958-2016. The same goes for LSD beneath it. However, the LSD-graph's period begins in 1950. These graphs were not produced by us, but illustrate how the scientific publications about psilocybin and LSD dropped after the illegalization of the psychedelic compounds in most parts of the world in 1970s. The graphs also show the resurgence in published scientific articles about both substances, especially around 2010 and onwards.

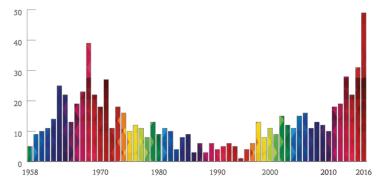
The graphs tell that there is a significant knowledge gap in scientific material on the two topics. There are however other traces and stories producing knowledge, which we decided to explore.

Lay knowledge vs. scientific knowledge

"The definition of boundaries of scientific expertise has power implications. As Jasanoff puts it, "to label something 'not science' is to delude it of cognitive authority" (Janasoff, 1990, p. 14). It is therefore not surprising that some of those who are excluded from the status of experts are often willing to put up a fight to see their knowledge recognized." (Munk & Venturini, 2022).

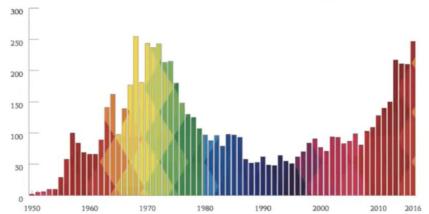
Thus we decided to explore the lay knowledge presented in Erowid's curated trip reports and the stories about the two most classic psychedelic substances that they hold.

NUMBER OF SCIENTIFIC ARTICLES PUBLISHED ABOUT PSILOCYBIN



https://www.psychedelia.io/about

NUMBER OF SCIENTIFIC ARTICLES PUBLISHED ABOUT LSD



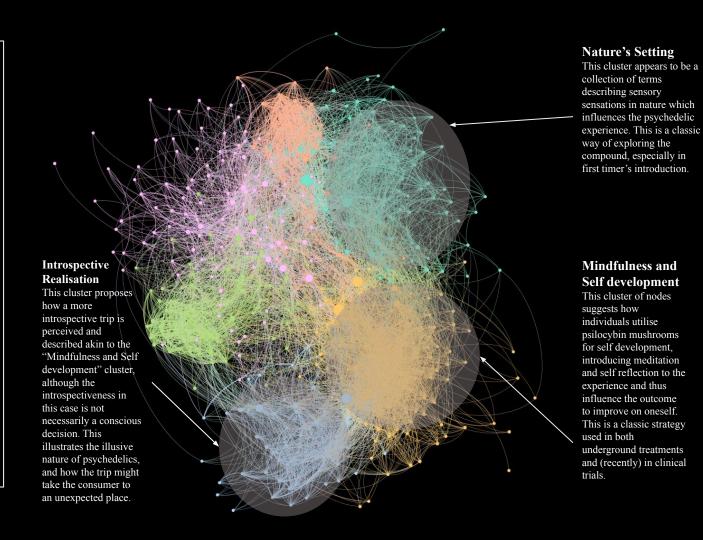
https://mapsofthemind.com/2018/08/14/beyond-psychedelics-2018-listening-talking-filming-review-of-a-psychedelic-forum-in-prague/

1.SEMANTIC NETWORKS

Semantic network of 500 trip reports written on the psilocybin mushroom experience.

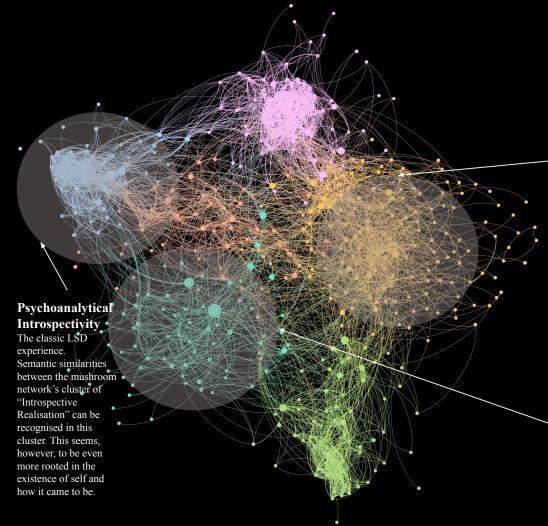
The nature of the following networks is heterogenous which enables specificity in term-use. This allows the observer to identify archetypical psychedelic experiences within the clusters.

The network's overall density represents each node's frequency of cooccurrence, which in this case, is plentiful. This tells us the terminology used to explain the different types of trips is semantically closely related, despite how the trips inherently are different.



Semantic network of 500 trip reports written on the LSD experience.

The approach to the creation of this network is the same as the previous to explore the two compounds' similarities and differences. At first glance the network is less dense than the psilocybin mushroom's, which indicates the terminology used to describe the experience is farther apart in comparison. Some clusters are semantically closely related to the clusters established in the psilocybin mushroom network with common themes such as introspectivity and setting(s) in nature. This indicates similarities in the experience between the two substances, and may confirm the notion of how the psychedelic experience inherently is similar between substances despite their differences in observable character.



A Trip to a Friend's House

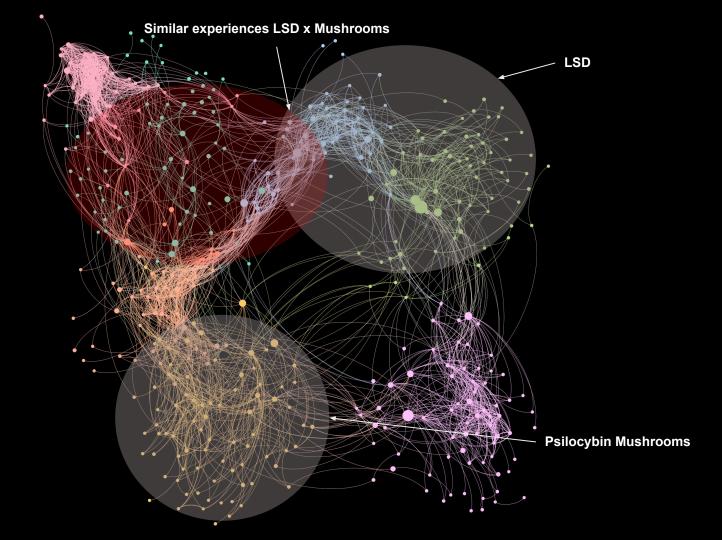
This cluster represents a classic introduction to these substances: try them with a friend. The terminology applied by the author(s) is overflowing to setting-aspects such as nature and (in)tangible stimulus-objects: mirrors and music. These objects are usually tools the consumer of the compound prepares beforehand to enhance or explore the experience in different ways.

Other Dimensional Encounter(s)

Atypical to the usual LSD experience, this cluster indicates encounters with other-worldy entities. This appears to be rare to LSD, yet still an archetypical experience and can be achieved if the dose is large enough. This suggests the author(s) attempted a heroic dose.

Semantic network of the previous data sets merged together: 1000 trip reports.

How is the data represented when merged together? With a thesis of the network presenting semantic differences across the two substances, we expected to observe how the similarities of the previous networks' clusters pulled towards each other and those opposed each other pushed away, due to less cooccurrences. This appears to be the fact, seeing two of the mentioned cluster in the LSD network organised together in the top right corner farthest away from the mushroom's cluster in the bottom left. The clusters that are semantically similar between the LSD and mushroom networks are closer together and overlap marked by the red circle.



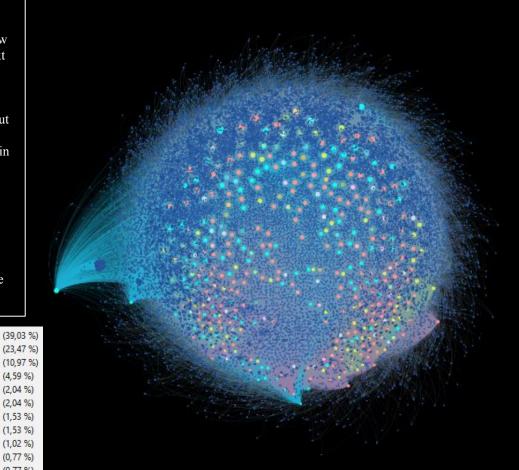
2. Prototype Network of terms to substance

Prototyping to make sense of data can be a long journey.

This map was a prototype built to show how different terms are used in context to a specific substance (psilocybin mushrooms), and illustrate the most common terms used to describe the psilocybin experience semantically. But with a data set of over 800.000 edges, terms of relevance and direct connections. The noise is created by similar words that have not been categorized properly (no n-grams or variations of word conjugations). The color is also contributing to the

there is still need for a lot of cleaning in confusion in this map, as the pastel palette make it hard to differentiate the substances from each other. (39,03 %) Mushrooms Mushrooms - P. cubensis (23,47 %) (10,97%) Mushrooms & Cannabis Mushrooms - P. cubensis & Cannabis (4,59 %) Mushrooms (P. cubensis) (2.04%)Mushrooms - P. semilanceata (2,04%)

Mushrooms - P. mexicana (1,53 %) Mushrooms - P. cvanescens Mushrooms - P. tampanensis (1.02%)Mushrooms - Panaeolus cyanescens (0,77%)Mushrooms - P. Cubensis & Cannabis (0,77 %)



3. Contrast Analysis

Frequently used words in LSD and Mushrooms trips

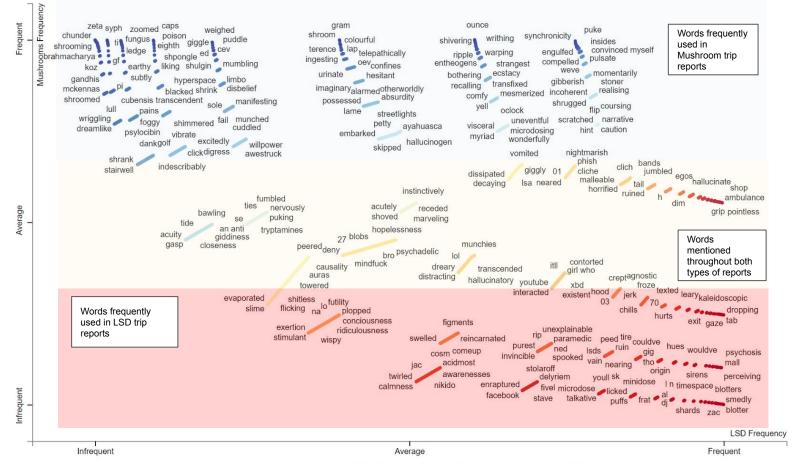
Contrast analysis of LSD and Mushroom Trip reports

This map shows the most frequently used words in LSD trip reports through the X-axis in contrast to the most frequently used words in Mushroom trip reports through the Y-axis. In the middle there are words which were used in both LSD and Mushroom reports in relatively similar frequency. It gives us a glimpse into what words can characterize the 2 different substances and their effects. creating a spectrum showing the contrast between them. It also takes into consideration words such as names, which are not as telling and should be sorted away.

The most interesting trend that can be observed is negative words such as: "panicking", "horrified" or "psychosis" being used significantly more frequently in relation to LSD in contrast to mushrooms.

The map is interactive and the various words can be seen in context through the link below: https://documents.cortext.net/0d3b/0d3b146c9d85cccb68b6b1c42b1d51ea/298299/ContrastVisualization.html

This allows to explore the words directly in the trip reports, permitting us to understand the terms exact use and meaning. A tool that can be valuable in a qualitative exploration of trip reports.



Mushrooms document count: 154; word count: 342,479 LSD document count: 256; word count: 584,026

4. Word clouds

The humidity of words used in LSD and Mushrooms

Word clouds illustrating word-frequency

The nature of these word clouds is all semantically close related in their terminology, as we see the same 4 categories of words dominating all 3 clouds. The word clouds illustrate the most frequently used words to describe the author's subjective experience with the compound. The most occuring words are typical in the descriptions of psychedelic experiences. The words can all be categorised into:

- **1. Settings and activities:** Living room, bathroom, part of town, high school, music, meditation practice, study room
- **2. Feelings and thoughts:** Amazing feel, anxiety, nonstop panic attacks, positive effects, sensation of heat, lot of fun, sense of self
- **3. Specification of drugs and dosage:** Doses of LSD, multiple substances, MDMA, study dosage timeline, Hawaiian baby woodrose
- **4. Objects and persons:** Wool socks, old friend, sober friend, evelyn, silver bullet, tree, girlfriend, baby, flute

Mushrooms



Mushrooms and LSD merged



LSD

PROTOCOLS

