

ASSIGNMENT 2

DATA VISUALIZATION OF DRUG USE

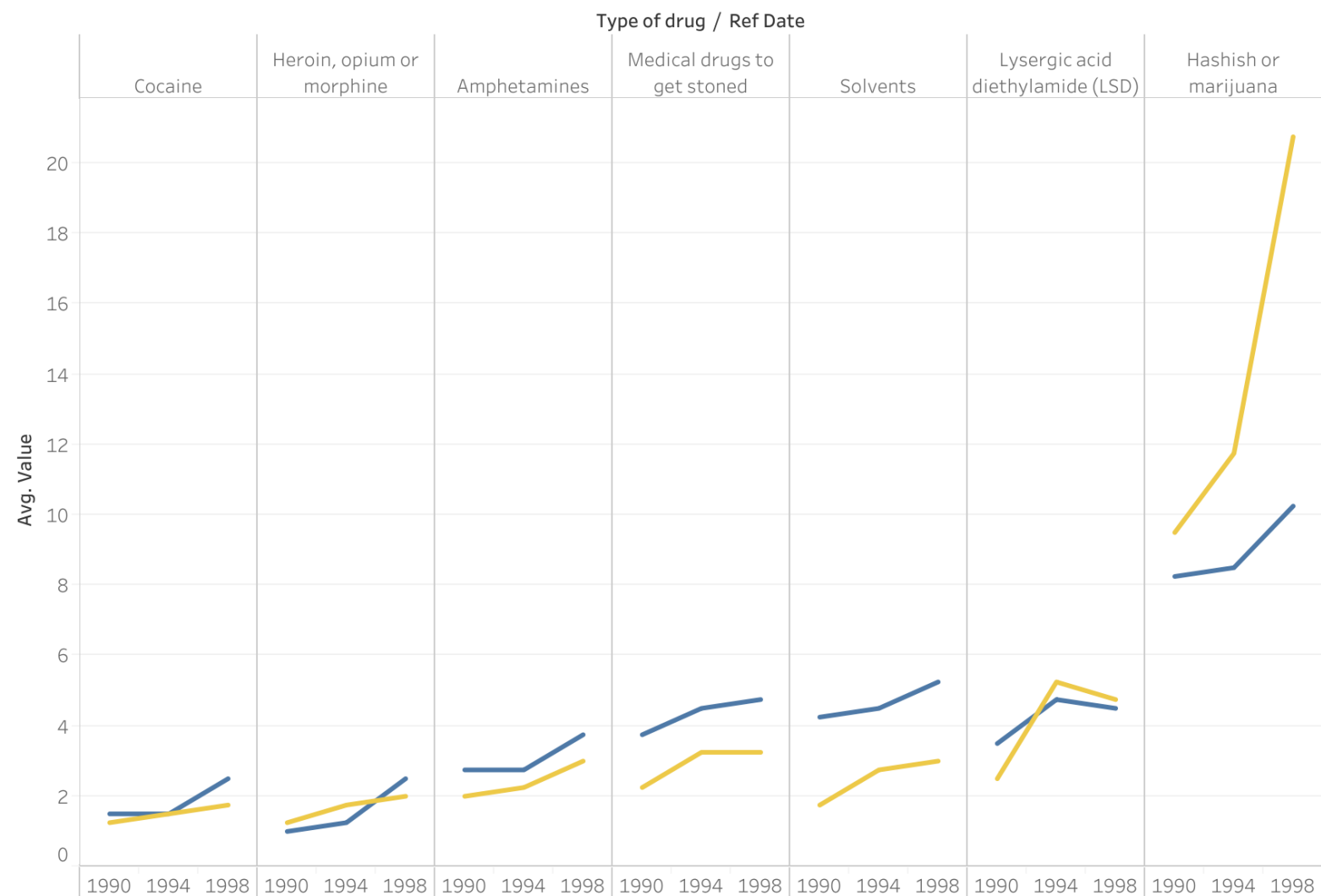
based on charts and graphs created in Tableau

Sharon Xia

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Emily Carr University of Art and Design



Frequency

3 times or more

Once or twice

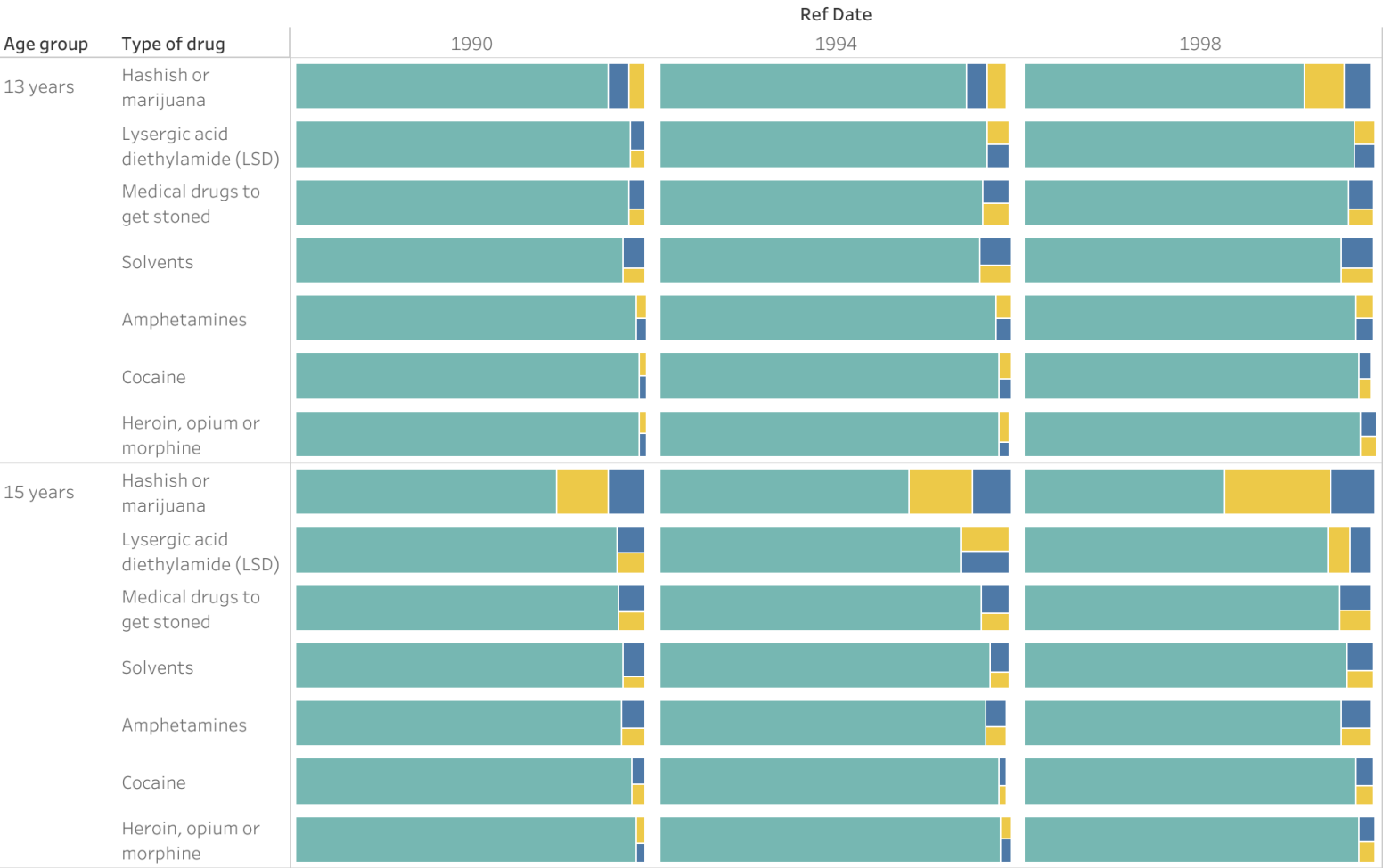
1. The frequency of different types of drug use from 1994 to 1998

This line chart illustrates the frequency of drug use among 7 categories in an 8 year's period. It tells audiences which drug is frequently used, and which drug is occasionally used. It also shows the trend of drug use from 1990 to 1998.

Conclusion: Hashish or marijuana is the most frequently used drug, and it has a very significant increase than other drugs. Also, the proportion of people who use Hashish or marijuana 3 times or more is always higher than people who use the drug once or twice which means this type of drug may has more regular drug users.

Although some of the drug use frequency has slightly declined from 1994 to 1998 (such as Lysergic acid diethylamide), the overall trend is still increased.

Line chart is a good way to show a general trend, and the gradient shows the rate of change. The bright yellow and dark blue lines also make color contrast so as to make the comparison of frequency more clear.



Frequency

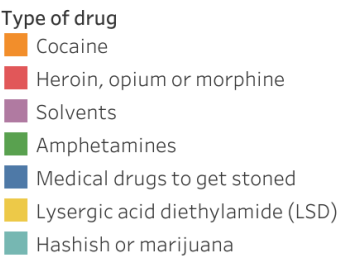
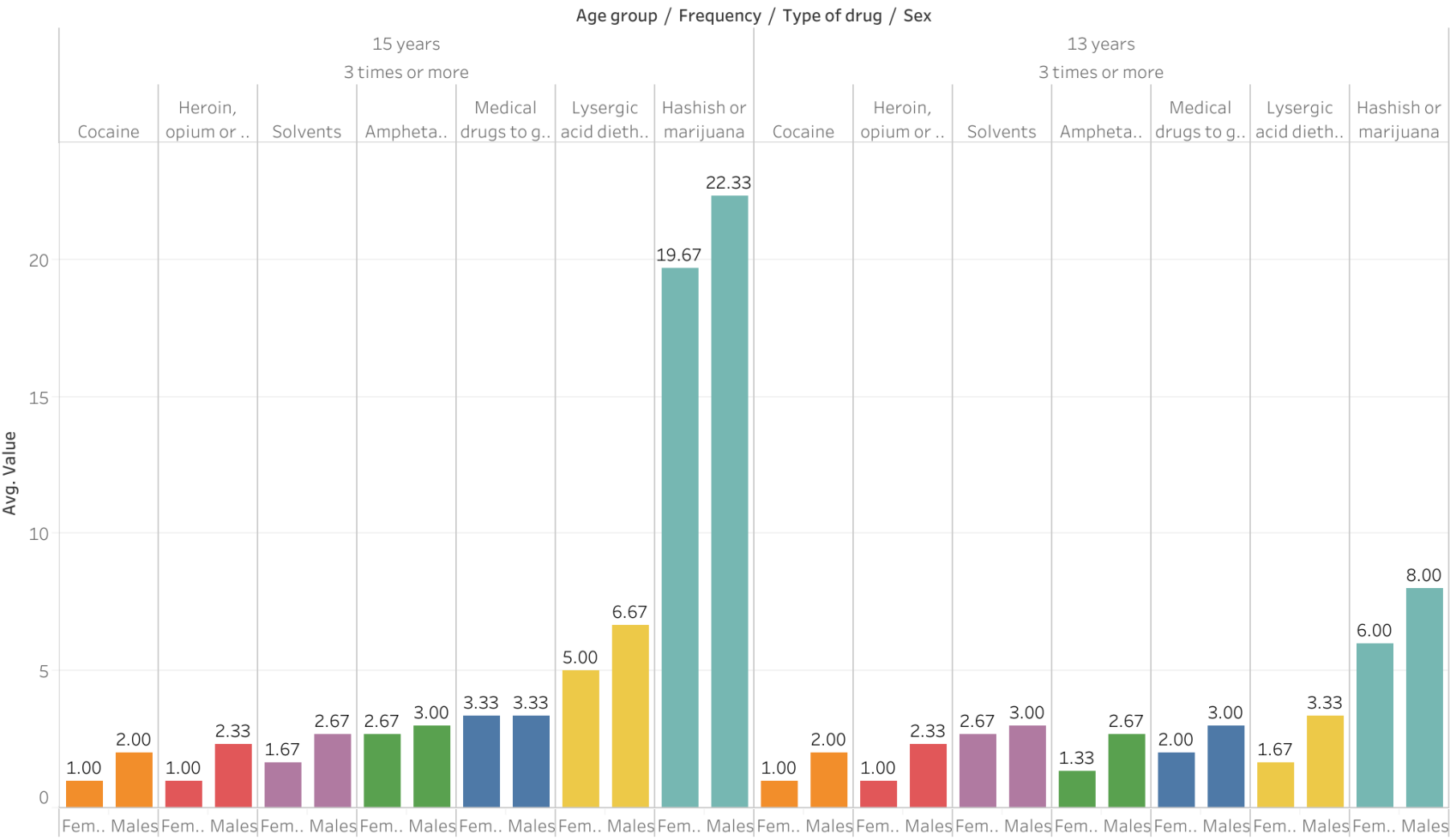
- Never
- Once or twice
- 3 times or more

2. Frequency of drug use in two age groups from 1990 to 1998

This bar chart shows the frequency of 7 categories of drug use among 13 years and 15 year age group in Canada, measured in average percentage, for the year 1990 to 1998, in four-yearly intervals.

Conclusion: The green area occupies the largest proportion which visually indicates most of people don't use drug. Also, the use of Hashish or marijuana has much larger proportion among both 13 years and 15 years age group from 1990 to 1998. In comparison, Heroin, opium or morphine has the least proportion.

The three colored horizontal bar chart is a good way to show the proportion of different types of drug use, gives audience an overall comparison between two age groups and three time period.



3. Frequently use different types of drug between gender

This vertical bar chart provides the use of 7 categories of drug among male and female under 13 years and 15 years age group in Canada, measured in average percentage.

Conclusion: Hashish or marijuana has the most frequently drug users among both male and female in 13 years and 15 years age group. One of the most significant result the graph illustrates is that male drug users are always more than female drug uses. Only medical drug users in 15 years age group has the same average percentage.

These vivid color shows different types of drugs. The number above each bar gives audience the exactly average percentage of people who use drugs 3 times or more.