



Mushroom Capstone Project

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The team



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Introduction

Our goal is to make identifying both delicious and potentially poisonous mushrooms as easy as possible.

Utilizing the power of machine learning and the extensive dataset we've collected from UC Irvine's Machine Learning Repository, we've developed a sophisticated model capable of predicting whether a mushroom is edible or poisonous with precision (and disclaimers).





What a trip!

Our data analysis journey began with a data source from University of California-Irvine.

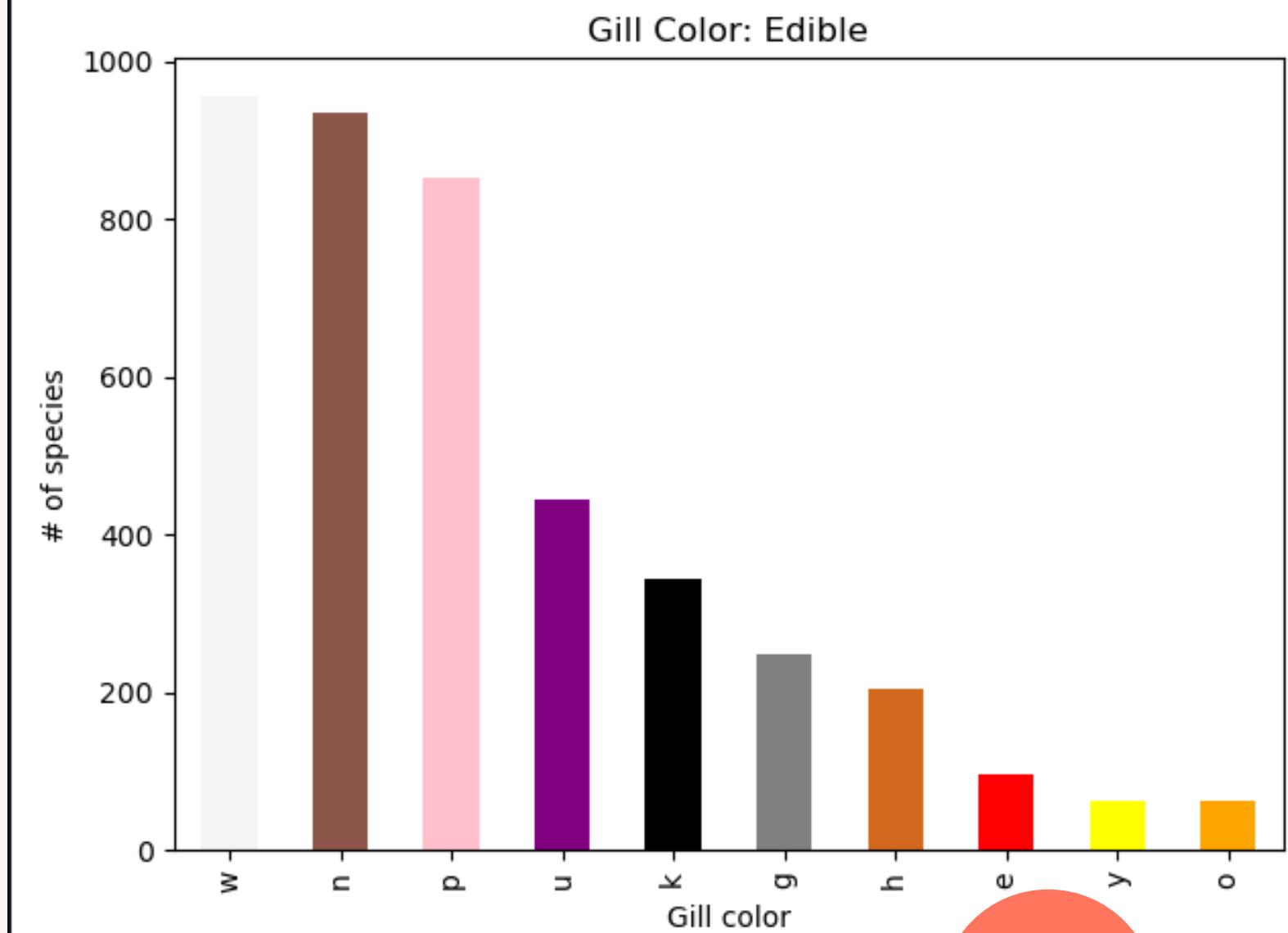
We began with a Pandas dataset and used machine learning to assess edibility. We used hypothetical samples that corresponded to 23 species of Agaricus and Lepiota Families of gilled mushrooms. We built illustrations using pyplot. Exemplifying HTML skills and finessed it all with our freshly cropped css tools. H5 is our model we exported.



Groovy Visuals

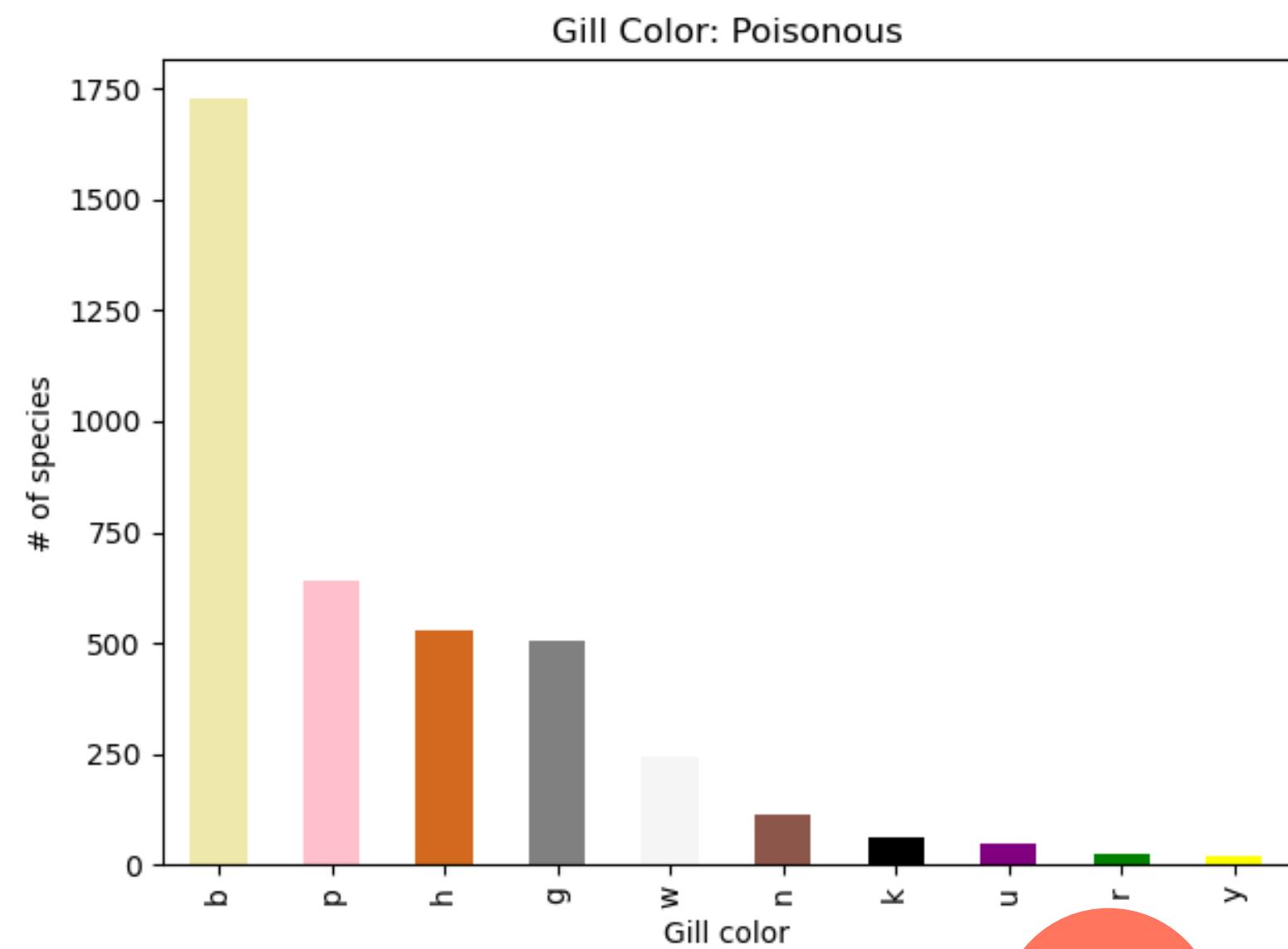
We plotted the results to create the following information:

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Groovy Visuals

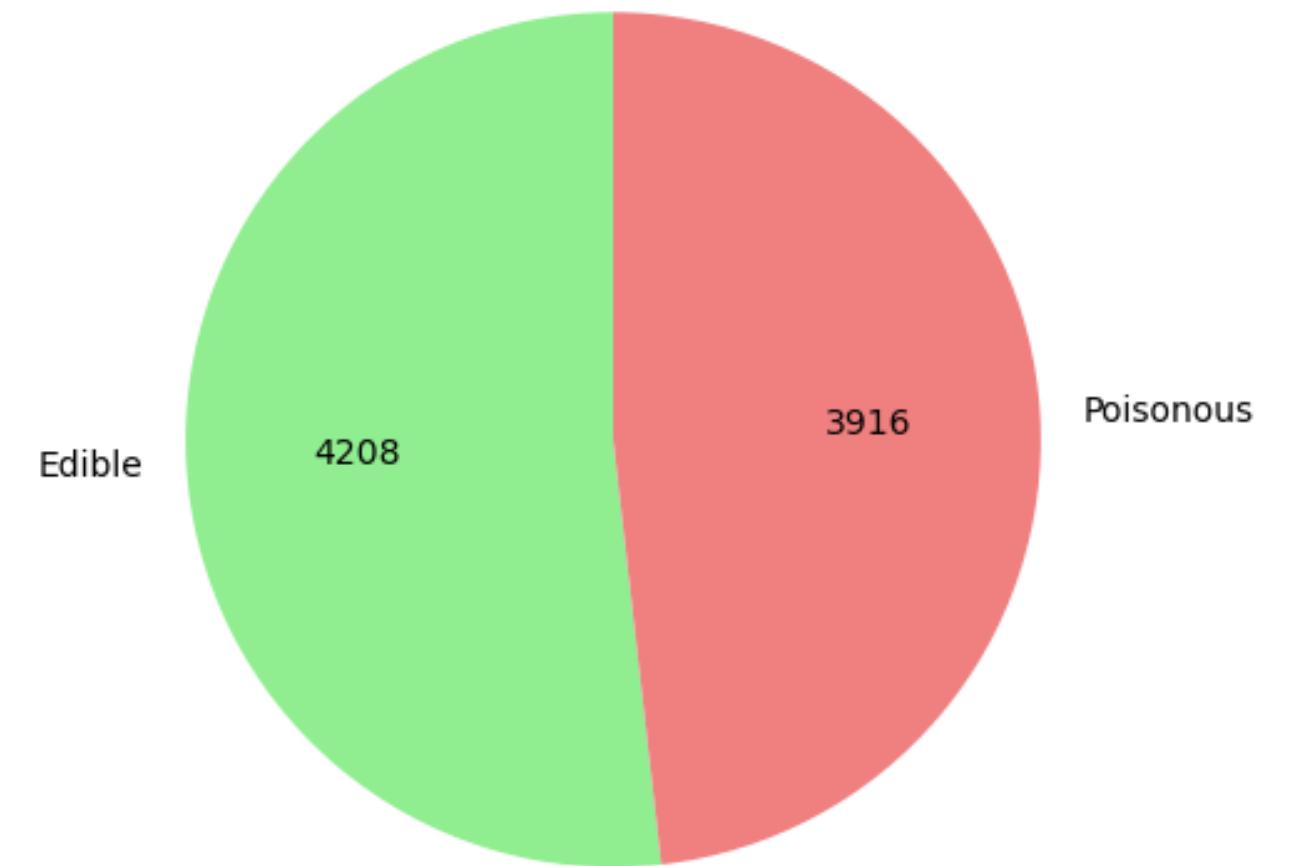
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Groovy Visuals

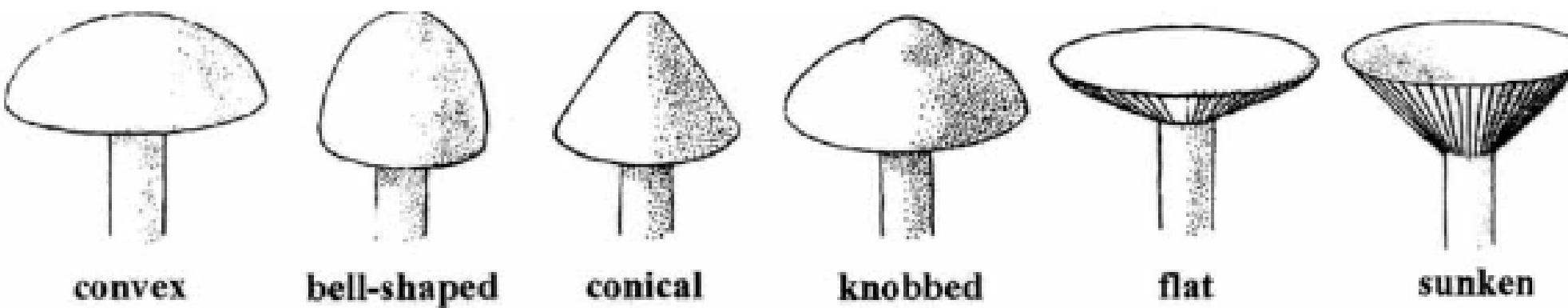
We plotted the results to create the following information:

Poisonous v. Edible: counts

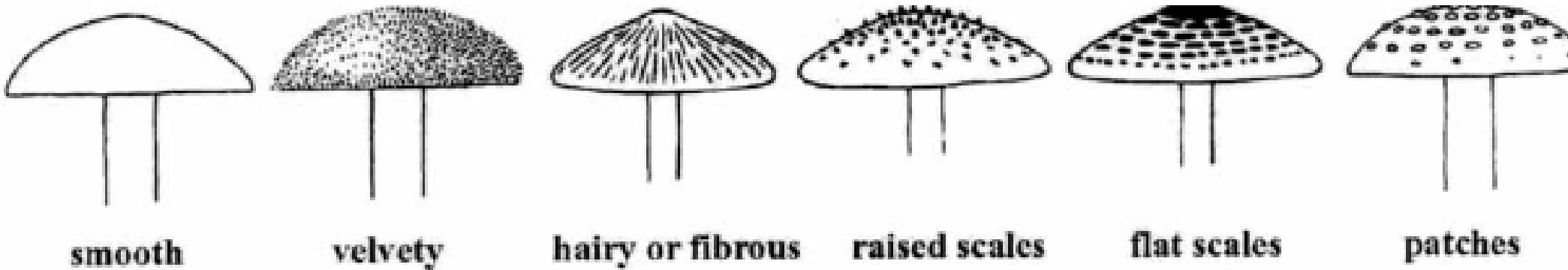


Definitions

Mushroom cap shapes



Mushroom cap surfaces

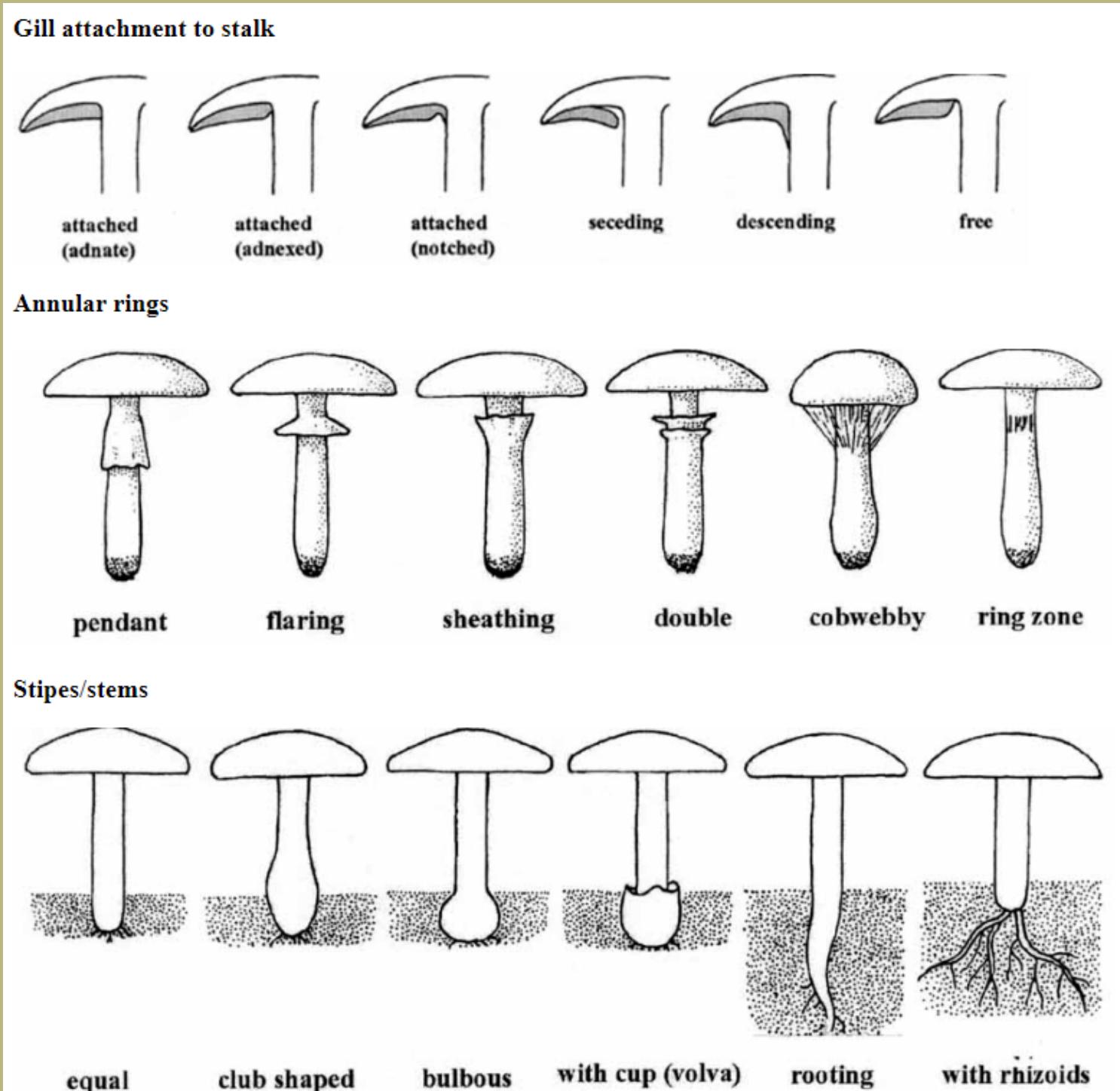


biolwww.usask.ca - Fungi of Saskatchewan

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American Caesar's Amanitas, just emerging from their universal veils. More mature ones can be seen in the background.

Photo by Jim Bernstein



Example of mushroom gill
(www.wildfooduk.com/mushroom-guide/field-mushroom/)

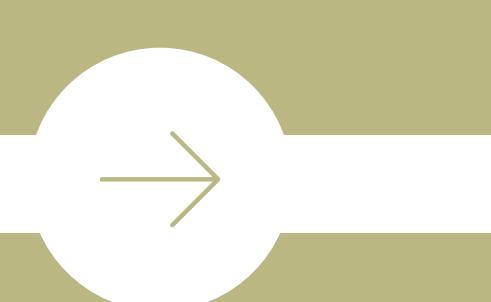


Example of spore print (nomyco.org)



A wispy, fibrillose partial veil
Photo by Rocky Houghtby

Mushroomthejournal.com/universal-veils.com



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Mushroomthejournal.com/universal-veils.com

Definitions

Bruisings are the darker spots on the mushroom



<https://www.eatortoss.com/dark-spots-or-discoloration-on-mushrooms/>



Reflection

We have learned a lot on this data analysis journey. We created a tool to assist with inputting data regarding mushroom species to determine if they are edible, questionable or likely poisonous.

Thanks for a great Bootcamp! Time for integration of everything learned into future experiences.

Thank
you!