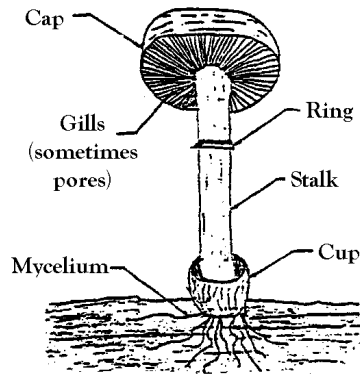


Mushrooms Dataset

- **Source:** UCI Machine Learning Repository
- Data collected from Audubon Society Field Guide to North American Mushrooms (1981)
- Descriptions of **23 species of mushrooms** from the Lepiota and Agaricus families
- **Nominal attributes** describing the anatomy of mushrooms
- One attribute, stalk root, has missing values



<ftp://ftp.ics.uci.edu/pub/machine-learning-databases/mushroom/>

Mushroom dataset

- 8124 cases, 51.8% are edible, the rest non-edible.
- **22 nominally valued Attributes**
 0. Class: poisonous=p, edible=e
 1. cap-shape: bell=b, conical=c, convex=x, flat=f, knobbed=k, sunken=s
 2. cap-surface: fibrous=f, grooves=g, scaly=y, smooth=s
 3. cap-color: brown=n, buff=b, cinnamon=c, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y
 4. bruises?: bruises=t, no=f
 5. odor: almond=a, anise=l, creosote=c, fishy=y, foul=f, musty=m, none=n, pungent=p, spicy=s
 6. gill-attachment: attached=a, descending=d, free=f, notched=n
 7. gill-spacing: close=c, crowded=w, distant=d
 8. gill-size: broad=b, narrow=n
 9. gill-color: black=k, brown=n, buff=b, chocolate=h, gray=g, green=r, orange=o, pink=p, purple=u, red=e, white=w, yellow=y
 10. stalk-shape: enlarging=e, tapering=t
 11. stalk-root: bulbous=b, club=c, cup=u, equal=e, rhizomorphs=z, rooted=r, missing=?
 12. stalk-surface-above-ring: ibrous=f, scaly=y, silky=k, smooth=s
 13. stalk-surface-below-ring: ibrous=f, scaly=y, silky=k, smooth=s
 14. stalk-color-above-ring: brown=n, buff=b, cinnamon=c, gray=g, orange=o, pink=p, red=e, white=w, yellow=y
 15. stalk-color-below-ring: brown=n, buff=b, cinnamon=c, gray=g, orange=o, pink=p, red=e, white=w, yellow=y
 16. veil-type: partial=p, universal=u
 17. veil-color: brown=n, orange=o, white=w, yellow=y
 18. ring-number: none=n, one=o, two=t
 19. ring-type: cobwebby=c, evanescent=e, flaring=f, large=l, none=n, pendant=p, sheathing=s, zone=z
 20. spore-print-color: black=k, brown=n, buff=b, chocolate=h, green=r, orange=o, purple=u, white=w, yellow=y
 21. population: abundant=a, clustered=c, numerous=n, scattered=s, several=v, solitary=y
 22. habitat: grasses=g, leaves=l, meadows=m, paths=p, urban=u, waste=w, woods=d

Mushroom decision tree

