HW2

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目錄

<u> </u>	變數定義										 	 													1
_ `	讀取資料 .										 	 											•		3
\equiv	資料簡述 .										 	 											•	į	8
四、	table one										 	 											•	(9

一、變數定義

"", "", ""),

```
mushroom_data <- data.frame(</pre>
     Variable = c('family', 'name', 'class', 'cap.diameter_min', 'cap.diameter_max', 'cap.shape',
                                        'Cap.surface', 'cap.color', 'does.bruise.or.bleed', 'gill.attachment',
                                        'gill.spacing', 'gill.color', 'stem.height_min', 'stem.height_max', 'stem.width_min',
                                       'stem.width_max', 'stem.root', 'stem.surface', 'stem.color', 'veil.type', 'veil.color',
                                       'has.ring', 'ring.type', 'Spore.print.color', 'habitat', 'season',
                                       'cap.diameter_mean', 'stem.height_mean', 'stem.width_mean'),
     `Data Type` = c('character', 'character', 'factor', 'numerical', 'numerical', 'factor', 'factor'
                                               'factor', 'numerical', 'numerical', 'numerical', 'factor', 'facotr', 'facotr
                                               'factor', 'factor', 'factor', 'numerical', 'numerical'),
     Definition = c("Mushrooms' family", "Mushrooms' name", "Edible or not", "The minimum of mushrooms' cap
                                            "The maximum of mushrooms' cap diameter", "The shape of mushrooms' cap", "The surface of
                                            "The color of mushrooms' cap", "Mushrooms' bruise or bleed or not", "How the gill attac
                                            "The space between the gill", "The color of the gill", "The minimum height of mushrooms
                                            "The maximum height of mushrooms' stem", "The minimum width of mushrooms' stem",
                                            "The maximum width of mushrooms' stem", "The root of mushrooms' stem", "The surface of
                                            "The color of mushrooms' stem", "The type of veil is partial or universal", "The color
                                            "Mushrooms have ring or not", "What the type of mushrooms' ring is", "The color of mush
                                            "Mushrooms' habitat", "The season mushroom grows", "The mean of mushrooms' cap diameter
                                            "The mean height of mushrooms' stem", "The mean width of mushrooms' stem"),
     Note = c("", "", "poisonous=p, edible=e", "", "", "bell=b, conical=c, convex=x, flat=f, sunken=s, sphe
                             "fibrous=i, grooves=g, scaly=y, smooth=s, shiny=h, leathery=l, silky=k, sticky=t, wrinkled=w
                             "brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y, blue=l, orange
                             "bruise-or-bleeding=t, no=f", "adnate=a, adnexed=x, decurrent=d, free=e, sinuate=s, pores=p,
                             "close=c, distant=d, none=f", "brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, wh:
                             "", "", "", "bulbous=b, swollen=s, club=c, cup=u, equal=e, rhizomorphs=z, rooted=r",
                             "fibrous=i, grooves=g, scaly=y, smooth=s, shiny=h, leathery=l, silky=k, sticky=t, wrinkled=w
                             "brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y, blue=l, orange
                             "ring=t, none=f", "cobwebby=c, evanescent=e, flaring=r, grooved=g, large=l, pendant=p, sheatl
```

"brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y, blue=l, orange "grasses=g, leaves=l, meadows=m, paths=p, heaths=h, urban=u, waste=w, woods=d", "spring=s, so

```
stringsAsFactors = FALSE
)
knitr::kable(mushroom_data)
```

Variable	Data.T	Гу ре finition	Note
family	charac	ctle/tushrooms'	
		family	
name	charac	ctle/hushrooms'	
		name	
class		Edible or not	poisonous=p, edible=e
cap.diame	tenume	ri Ta le minimum of	
		mushrooms' cap diameter	
can diame	tom i monov	ri Ta le maximum of	
cap.aiairic	Cinaria	mushrooms' cap	
		diameter	
cap.shape	factor	The shape of	bell=b, conical=c, convex=x, flat=f, sunken=s,
		mushrooms' cap	spherical=p, others=o
Cap.surfac	e factor	The surface of	fibrous=i, grooves=g, scaly=y, smooth=s, shiny=h,
•		mushrooms' cap	leathery=I, silky=k, sticky=t, wrinkled=w, fleshy=e
cap.color	factor	The color of	brown=n, buff=b, gray=g, green=r, pink=p, purple=u,
		mushrooms' cap	red=e, white=w, yellow=y, blue=l, orange=o, black=k
does.bruis	e. Cardoloe r	e d /lushrooms'	bruise-or-bleeding=t, no=f
		bruise or bleed or	
	.	not	
gill.attachr	n eac tor	How the gill attach	adnate=a, adnexed=x, decurrent=d, free=e, sinuate=s,
مناا معمونهم	. f	The ange	pores=p, none=f, unknown=x
giii.spacing	j lactor	The space between the gill	close=c, distant=d, none=f
gill.color	factor	The color of the	brown=n, buff=b, gray=g, green=r, pink=p, purple=u,
giii.coioi	ractor	gill	red=e, white=w, yellow=y, blue=l, orange=o, black=k,
		9	none=f
stem.heiah	ntm ain e	ri ₹a le minimum	
	_	height of	
		mushrooms'	
		stem	
stem.heigh	nt <u>r</u> maane	ri Tal e maximum	
		height of	
		mushrooms'	
		stem	
stem.wiatr	ı_mume	ri Tal e minimum	
		width of mushrooms'	
		stem	
stem width	mme	ri Ta le maximum	
Sterri.wiati	i_iiwaici	width of	
		mushrooms'	
		stem	
stem.root	factor	The root of	bulbous=b, swollen=s, club=c, cup=u, equal=e,
		mushrooms'	rhizomorphs=z, rooted=r
		stem	

Variable	Data.T	урe finition	Note
stem.surfac	c∉acotr	The surface of mushrooms' stem	fibrous=i, grooves=g, scaly=y, smooth=s, shiny=h, leathery=l, silky=k, sticky=t, wrinkled=w, fleshy=e, none=f
stem.color	factor	The color of mushrooms' stem	brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y, blue=l, orange=o, black=k, none=f
veil.type	factor	The type of veil is partial or universal	partial=p, universal=u
veil.color	factor	The color of mushrooms' veil	brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y, blue=l, orange=o, black=k, none=f
has.ring	factor	Mushrooms have ring or not	ring=t, none=f
ring.type	factor	What the type of mushrooms' ring is	cobwebby=c, evanescent=e, flaring=r, grooved=g, large=l, pendant=p, sheathing=s, zone=z, scaly=y, movable=m, none=f, unknown=z
Spore.print	t. đebo or	The color of mushrooms' spore print	brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y, blue=l, orange=o, black=k
habitat	factor	Mushrooms' habitat	grasses=g, leaves=l, meadows=m, paths=p, heaths=h, urban=u, waste=w, woods=d
season	factor	The season mushroom grows	spring=s, summer=u, autumn=a, winter=w
cap.diamet	:en_umæa	nitale mean of mushrooms' cap diameter	
stem.heigh	t <u>r</u> noeæn	ri ca le mean height of mushrooms' stem	
stem.width	_meale	ri Ta le mean width of mushrooms' stem	

二、讀取資料

```
# R Interface to Python
library(reticulate)
library(Hmisc)
library(tidyr)
library(dplyr)

df <- read.csv("C:/Users/ASUS/Downloads/mushroom/primary_data.csv", sep=";", stringsAsFactors=FALSE)

process_numeric <- function(column) {
    df <- df %>%
        separate(column, into = c(pasteO(column, "_min"), pasteO(column, "_max")), sep = ",", fill = "right"
        mutate(
        across(starts_with(column), ~ as.numeric(gsub("\\[|\\]", "", .)))
    ) %>%
        mutate(
        !!pasteO(column, "_mean") := ifelse(is.na(!!sym(pasteO(column, "_max"))), !!sym(pasteO(column, "_r
```

```
!!paste0(column, "_min") := ifelse(!is.na(!!sym(paste0(column, "_max"))), !!sym(paste0(column, "_i
           !!paste0(column, "_max") := ifelse(!is.na(!!sym(paste0(column, "_min"))), !!sym(paste0(column, "_r
       ) %>%
   return(df)
numeric_columns <- c("cap.diameter", "stem.height", "stem.width")</pre>
for (col in numeric_columns) {
   df <- process_numeric(col)</pre>
category_map <- list(</pre>
    "cap-shape" = c(b="bell", c="conical", x="convex", f="flat", s="sunken", p="spherical", o="others"),
    "cap-surface" = c(i="fibrous", g="grooves", y="scaly", s="smooth", h="shiny", l="leathery", k="silky"
    "cap-color" = c(n="brown", b="buff", g="gray", r="green", p="pink", u="purple", e="red", w="white", y=
    "does-bruise-bleed" = c(t="bruises-or-bleeding", f="no"),
    "gill-attachment" = c(a="adnate", x="adnexed", d="decurrent", e="free", s="sinuate", p="pores", f="nor
    "gill-spacing" = c(c="close", d="distant", f="none"),
    "gill-color" = c(n="brown", b="buff", g="gray", r="green", p="pink", u="purple", e="red", w="white",
    "stem-root" = c(b="bulbous", s="swollen", c="club", u="cup", e="equal", z="rhizomorphs", r="rooted"),
    "stem-surface" = c(i="fibrous", g="grooves", y="scaly", s="smooth", h="shiny", l="leathery", k="silky"
    "stem-color" = c(n="brown", b="buff", g="gray", r="green", p="pink", u="purple", e="red", w="white",
    "veil-type" = c(p="partial", u="universal"),
    "veil-color" = c(n="brown", b="buff", g="gray", r="green", p="pink", u="purple", e="red", w="white", y
    "has-ring" = c(t="ring", f="none"),
    "ring-type" = c(c="cobwebby", e="evanescent", r="flaring", g="grooved", l="large", p="pendant", s="she
    "spore-print-color" = c(n="brown", b="buff", g="gray", r="green", p="pink", u="purple", e="red", w="wl
    "habitat" = c(g="grasses", l="leaves", m="meadows", p="paths", h="heaths", u="urban", w="waste", d="weaths", u="urban", u="urban", w="waste", d="weaths", u="urban", u="urban", u="urban", u="weaths", u="urban", u="urban", u="weaths", u="urban", u="
    "season" = c(s="spring", u="summer", a="autumn", w="winter")
for (col in c("cap-shape", "habitat", "season")) {
   df[[col]] <- unlist(lapply(df[[col]], function(x) {</pre>
       if (is.na(x)) return(NA)
       values <- unlist(strsplit(gsub("\\[|\\]", "", x), ","))</pre>
       if (col %in% c("habitat", "season")) {
          return(paste(values, collapse=", "))
       } else {
          mapped_values <- category_map[[col]][values]</pre>
          return(paste(mapped_values, collapse=", "))
   }))
df <- df %>%
   mutate(across(everything(), ~ gsub("\\[|\\]", "", .))) # `[]`
df <- df %>%
   mutate(
       across(c("cap.diameter_min", "cap.diameter_max", "stem.height_min", "stem.height_max",
                        "stem.width_min", "stem.width_max", "cap.diameter_mean", "stem.height_mean", "stem.width_me
```

```
~ as.numeric(.))
  )
latex(describe(df), file="")
                                                          df
173 Observations
                                        29 Variables
family
        missing
0
                  distinct
 173
                            Bolbitius Family Bolete Family Bracket Fungi Chanterelle Fam Saddle-Cup Family Stropharia Family Tricholoma Family Wax Gill Family
lowest : Amanita Family
                                                                                      Chanterelle Family
highest: Russula Family
name
        missing
                  distinct
 173
lowest : Amethyst Deceiver
                                   Aniseed Funnel Cap
                                                            Apricot Fungus
                                                                                     Bare-toothed Russula
                                                                                                               Bay Bolete
highest: Yellow-gilled Russula
                                  Yellow-staining Mushroom Yellow-stemmed Bell Cap Yellow Swamp Russula
                                                                                                               Yellow Wax cap
class
       missing
0
                  distinct
 173
Value
Frequency
Proportion 0.445 0.555
cap.diameter_min
                                                                                            .05
                            Info
0.976
                                            pMedian
                                                                                             .90
                                                                                                   .95
8
 n
172
        missing
                  distinct
                                    Mean
                                                        Gmd
                                    3.776
                                                        2.533
Value
                                     2.0
39
                                                 4.0
26
                                                              6.0 7.0
11 4
                                           3.0
                                                        5.0
                                                                          8.0 10.0 12.0
             Frequency
Proportion 0.012 0.023 0.006 0.099 0.227 0.140 0.151 0.169 0.064 0.023 0.052 0.023 0.012
For the frequency table, variable is rounded to the nearest 0
cap.diameter_max
                                                                                            missing
                  distinct
                             Info
                                    Mean
                                            pMedian
                                                        Gmd
                                                                          .25
5
 172
                            0.991
Value
Frequency
             4.0 5.0
12 18
                                                        6.0
16
                                                            7.0 8.0
7 16
Proportion 0.017 0.006 0.023 0.041 0.035 0.070 0.105 0.093 0.041 0.093 0.017 0.163 0.105 0.017
            15.0 18.0 20.0 25.0 30.0
15 3 5 5 2
Proportion 0.087 0.017 0.029 0.029 0.012
For the frequency table, variable is rounded to the nearest {\tt 0}
                                                                                             cap.shape
       missing
0
                  distinct
 173
lowest : b
                 b, f b, f, s b, x b, x, f, highest: x, f
                                                                    x, f, s x, o
                                                                                    x, p
Cap.surface
                                                                                            missing
                  distinct
 133
             40
lowest : d
highest: t, w, d

    \begin{array}{l}
      d, e, y, i d, k \\
      w, t
   \end{array}

                                                     d, s
y, s
                                          d, k, s
cap.color
        missing
0
                  distinct
 173
lowest : b
highest: y
                                                    e e, n
y, o, g, n, r y, o, r, n
```

Pale	does.bruise.or.bleed
### Properties 0.827 0.173 ### Sing distinct 145	
Frequency 32 34 35 16 10 17 16 21 21 21 21 21 21 21	Value f t
Value	
Yalue	gill.attachment
Proportion	
Value	Frequency 32 8 25 16 10 17 16 21
Value	gill.spacing
Preparation 70 22 10	n missing distinct 102 71 3
Name	Frequency 70 22 10
173 0 59	gill.color
Stem.height_min	
No No No No No No No No	lowest: b b, p, w b, u e f , highest: y, n y, o, e y, r y, r, k y, w
Value 1 2 3 4 5 6 7 8 10 12 15 15 18 18 20 26 15 10 20 20 20 20 25 10 20 20 20 20 20 20 20 20 20 20 20 20 20	stem.height_min
Proportion 0.012 0.124 0.224 0.306 0.141 0.088 0.018 0.041 0.029 0.006 0.012 For the frequency table, variable is rounded to the nearest 0 Stem.height_max n missing distinct lnfo Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95	n missing distinct Info Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 170 3 11 0.955 4.382 4 2.157 2 2 3 4 5 7 8
Stem.height_max	
n missing distinct lnfo Mean pMedian 8 Gmd .05 .10 .25 .50 .75 .90 .95 Value 0.55 .10 2.0 3.0 4.0 5.0 .95 Value 40.0 5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 10.0 12.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15	For the frequency table, variable is rounded to the nearest 0
Value 40.0 Frequency 1 do 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	stem.height_maxul.l.r.r.r.r.r.r.r.r.r.r.r.r.r.r.r.r
Proportion 0.006 0.012 0.035 0.082 0.147 0.094 0.218 0.012 0.206 0.006 0.071 0.006 0.059 0.006	n missing distinct Info Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 170 3 18 0.976 9.029 8.5 4.205 4.45 5.00 6.00 8.00 10.00 15.00 15.00
Frequency 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Value 2 3 4 5 6 7 8 9 10 11 12 14 15 18 Frequency 1 2 6 14 25 16 37 2 35 1 12 1 10 1 Proportion 0.006 0.012 0.035 0.082 0.147 0.094 0.218 0.012 0.206 0.006 0.071 0.006 0.059 0.006
Stem.width_min	Frequency 4 1 1 1
n missing distinct Info Mean pMedian 6.785 2 10 25 .50 .75 .90 .95 162 11 15 0.98 8.83 pMedian 6.785 2 2 2 4 8 10 20 20 Value 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 10.0 12.0 15.0 20.0 30.0 Frequency 1 6 17 12 12 19 7 1 10 38 1 20 16 1 Proportion 0.006 0.037 0.105 0.074 0.074 0.117 0.043 0.006 0.062 0.235 0.006 0.123 0.099 0.006 Value 40.0 Frequency 1 Proportion 0.006 For the frequency table, variable is rounded to the nearest 0 stem.width_max n missing distinct Info Mean pMedian 6.78	
Value 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 10.0 12.0 15.0 20.0 30.0 Frequency 1 6 17 12 12 19 7 1 10 38 1 20 16 1 Proportion 0.006 0.037 0.105 0.074 0.074 0.117 0.043 0.006 0.062 0.235 0.006 0.123 0.099 0.006 Value 40.0 Frequency 1 Proportion 0.006 For the frequency table, variable is rounded to the nearest 0 Stem.width_max n missing distinct Info Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 162 11 20 0.991 16.58 15 13.51 3 4 8 15 20 30 40 Value 1 2 3 4 5 6 7 8 10 12 15 18 20 25 Frequency 1 5 10 9 5 3 3 17 15 11 19 4 26 10 Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062 Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	stem.width_min
Frequency 1 6 17 12 12 19 7 1 10 38 1 20 16 1 Proportion 0.006 0.037 0.105 0.074 0.074 0.117 0.043 0.006 0.062 0.235 0.006 0.123 0.099 0.006 Value 40.0 Frequency 1 Proportion 0.006 For the frequency table, variable is rounded to the nearest 0 stem.width_max n missing distinct Info Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 162 11 20 0.991 16.58 15 13.51 3 4 8 15 20 30 40 Value 1 2 3 4 5 6 7 8 10 12 15 18 20 25 Frequency 1 5 10 9 5 3 3 3 17 15 11 19 4 26 10 Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062 Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	
Frequency 1 Proportion 0.006 For the frequency table, variable is rounded to the nearest 0 Stem.width_max n missing distinct Info Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 162 11 20 0.991 16.58 15 13.51 3 4 8 15 20 30 40 Value 1 2 3 4 5 6 7 8 10 12 15 18 20 25 Frequency 1 5 10 9 5 3 3 17 15 11 19 4 26 10 Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062 Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	Frequency 1 6 17 12 12 19 7 1 10 38 1 20 16 1
For the frequency table, variable is rounded to the nearest 0 stem.width_max n missing distinct Info Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 162 11 20 0.991 16.58 15 13.51 3 4 8 15 20 30 40 Value 1 2 3 4 5 6 7 8 10 12 15 18 20 25 Frequency 1 5 10 9 5 3 3 3 17 15 11 19 4 26 10 Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062 Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	Frequency 1
n missing distinct lnfo Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 16.58 15 13.51 3 4 8 15 20 30 40 Value 1 2 3 4 5 6 7 8 10 12 15 18 20 25 .50 Prequency 1 5 10 9 5 3 3 3 17 15 11 19 4 26 10 Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062 Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	•
162 11 20 0.991 16.58 15 13.51 3 4 8 15 20 30 40 Value 1 2 3 4 5 6 7 8 10 12 15 18 20 25 Frequency 1 5 10 9 5 3 3 17 15 11 19 4 26 10 Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062 Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	stem.width_max
Frequency 1 5 10 9 5 3 3 17 15 11 19 4 26 10 Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062 Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	
Frequency 11 8 1 2 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	Frequency 1 5 10 9 5 3 3 17 15 11 19 4 26 10
·	Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1
	•

stem.root	The second of
n missing distinct 27 146 5	
Value b c f r s Frequency 9 2 3 4 9 Proportion 0.333 0.074 0.111 0.148 0.333	
stem.surface	
n missing distinct 65 108 14	
Value f g h i i, s i, t i, y k k, s s s, h t y Frequency 3 5 1 11 1 1 1 4 1 15 1 7 13 Proportion 0.046 0.077 0.015 0.169 0.015 0.015 0.015 0.062 0.015 0.231 0.015 0.108 0.200	y, s 1 0.015
stem.color	
n missing distinct 173 0 41	
lowest: b, u e e, n e, u, y e, y , highest: w, y y y, e, n y, n	y, o, k
veil.type	
n missing distinct value 9 164 1 u	
Value u Frequency 9 Proportion 1	
veil.color	
n missing distinct 21 152 7	
Value e, n k n u w y y, w Frequency 1 1 1 1 15 1 1 Proportion 0.048 0.048 0.048 0.714 0.048 0.048	
has.ring	
n missing distinct 173 0 2	
Value f t Frequency 130 43 Proportion 0.751 0.249	
ring.type	
n missing distinct 166 7 13	
Value e e, g f g g, p l l, e l, p l, r m p r z Frequency 6 1 137 2 2 2 1 1 2 3 6 Proportion 0.036 0.006 0.825 0.012 0.012 0.012 0.006 0.006 0.012 0.006 0.012 0.036 0.036	
Spore.print.color	
n missing distinct 18 155 8	
Value g k k, r k, u n p p, w w Frequency 1 5 1 1 3 3 1 3 Proportion 0.056 0.278 0.056 0.056 0.167 0.056 0.167	
habitat	1
n missing distinct 173 0 21	
lowest : d d, h g g, d g, d, h highest: m m, d m, h p, d w	

season						$\label{eq:continuous} (\mathbf{r}_{i}, \mathbf{r}_{i}, \mathbf$	Ι.			
n missing d 173 0	listinct 10									
Value Frequency Proportion	a 16 0.092	a, w 15 0.087	s 1 0.006	o.006	s, u s, 3 0.017	u, a 5 0.029				
Frequency	a, w 13 0.075	u 1 0.006	u, a u 106 0.613	1, a, w 12 0.069						
cap.diameter_mean										
n missing dist 1 172	tinct Info 1 0	Mean 50								
Value 50 Frequency 1 Proportion 1										
stem.height_mean										
n missing dist 3 170	tinct Info 1 0	Mean 0								
Value 0 Frequency 3 Proportion 1										
stem.width_mean	1					11.	1			
n missing dis 11 162	stinct Info 4 0.918	Mean pMe 4.091	edian Gm 5 5.05							
Value 0 1 2 10 Frequency 3 3 1 4 Proportion 0.273 0.273 0.091 0.364										
For the frequency t			the neares	st 0						

二、資料簡號

1. 整體分析:

整筆資料有173個觀測值和29個變數,代表共有173種蘑菇,29個變數中,有family、name、class、cap.diameter_min、cap.diameter_max、cap.shape、Cap.surface、cap.color、does.bruise.or.bleed、gill.attachment、gill.spacing、gill.color、stem.height_min、stem.height_max、stem.width_min、stem.width_max、stem.root、stem.surface、stem.color、veil.type、veil.color、has.ring、ring.type、Spore.print.color、habitat、season、cap.diameter_mean、stem.height_mean、stem.width_mean。

- cap.diameter_min、cap.diameter_max和cap.diameter_mean:
 cap.diameter_min、cap.diameter_max各有一缺失值,該缺失值僅提供mean故分別處理。
- 3. stem.height_min、stem.height_max和stem.height_mean:
 stem.height_min、stem.height_max各有三缺失值,該缺失值僅提供mean故分別處理。
- 4. stem.width_min、stem.width_max和stem.width_mean:
 stem.width_min、stem.width_max各有十一缺失值,該缺失值僅提供mean故分別處理。
- 5. Cap.surface: 有40項缺失值。
- 6. gill.attachment: 有71項缺失值。
- 7. stem.root :
- 7. 5tcm:00t : 有146項缺失值。
- 8. stem.surface: 有108項缺失值。
- 9. veil.type: 有164項缺失值。
- 10. veil.color: 有152項缺失值。

- 11. ring.type: 有7項缺失值。
- 12. Spore.print.color: 有155項缺失值。

四、table one

library(table1)

	e	р	Overall
	(N=77)	(N=96)	(N=173)
family	. ,	,	,
Amanita Family	3 (3.9%)	5 (5.2%)	8 (4.6%)
Bolbitius Family	1 (1.3%)	2 (2.1%)	3 (1.7%)
Bolete Family	11 (14.3%)	3 (3.1%)	14 (8.1%)
Bracket Fungi	1 (1.3%)	6 (6.3%)	7 (4.0%)
Chanterelle Family	3 (3.9%)	0 (0%)	3 (1.7%)
Entoloma Family	1 (1.3%)	6 (6.3%)	7 (4.0%)
Hydnum Family	1 (1.3%)	0 (0%)	1 (0.6%)
Ink Cap Family	6 (7.8%)	7 (7.3%)	13 (7.5%)
Lepiota Family	2 (2.6%)	1 (1.0%)	3 (1.7%)
Morel Family	1 (1.3%)	0 (0%)	1 (0.6%)
Mushroom Family	4 (5.2%)	1 (1.0%)	5 (2.9%)
Oyster Mushroom Family	2 (2.6%)	0 (0%)	2 (1.2%)
Pluteus Family	2 (2.6%)	0 (0%)	2 (1.2%)
Russula Family	11 (14.3%)	16 (16.7%)	27 (15.6%)
Stropharia Family	1 (1.3%)	7 (7.3%)	8 (4.6%)
Tricholoma Family	23 (29.9%)	20 (20.8%)	43 (24.9%)
Wax Gill Family	4 (5.2%)	4 (4.2%)	8 (4.6%)
Cortinarius Family	0 (0%)	11 (11.5%)	11 (6.4%)
Crepidotus Family	0 (0%)	1 (1.0%)	1 (0.6%)
Ear-Pick Family	0 (0%)	1 (1.0%)	1 (0.6%)
Jelly Discs Family	0 (0%)	1 (1.0%)	1 (0.6%)
Paxillus Family	0 (0%)	3 (3.1%)	3 (1.7%)
Saddle-Cup Family name	0 (0%)	1 (1.0%)	1 (0.6%)
Amethyst Deceiver	1 (1.3%)	0 (0%)	1 (0.6%)
Aniseed Funnel Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Bare-toothed Russula	1 (1.3%)	0 (0%)	1 (0.6%)
Bay Bolete	1 (1.3%)	0 (0%)	1 (0.6%)
Blackening Russula	1 (1.3%)	0 (0%)	1 (0.6%)
Blackish Purple Russula	1 (1.3%)	0 (0%)	1 (0.6%)
Bleeding Brown Mushroom	1 (1.3%)	0 (0%)	1 (0.6%)
Bonnet Bell Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Branched Oyster Mushroom	1 (1.3%)	0 (0%)	1 (0.6%)
Brown Birch Bolete	1 (1.3%)	0 (0%)	1 (0.6%)
Brown Stew Fungus	1 (1.3%)	0 (0%)	1 (0.6%)

	е	р	Overall
Bulbous Honey Fungus	1 (1.3%)	0 (0%)	1 (0.6%)
Сер	1 (1.3%)	0 (0%)	1 (0.6%)
Changeable Melanoleuca	1 (1.3%)	0 (0%)	1 (0.6%)
Chanterelle	1 (1.3%)	0 (0%)	1 (0.6%)
Clouded Agaric	1 (1.3%)	0 (0%)	1 (0.6%)
Clustered Brown Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Coconut-scented Milk Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Common Crumble Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Common Funnel Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Common Morel	1 (1.3%)	0 (0%)	1 (0.6%)
Common Yellow Russula	1 (1.3%)	0 (0%)	1 (0.6%)
Crab-scented Russula	1 (1.3%)	0 (0%)	1 (0.6%)
Cultivated Mushroom	1 (1.3%)	0 (0%)	1 (0.6%)
Dryad' s Saddle	1 (1.3%)	0 (0%)	1 (0.6%)
Fairies' Bonnets	1 (1.3%)	0 (0%)	1 (0.6%)
Fairy Parasol	1 (1.3%)	0 (0%)	1 (0.6%)
Fairy Ring Champignon	1 (1.3%)	0 (0%)	1 (0.6%)
False Death Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Fawn Pluteus	1 (1.3%)	0 (0%)	1 (0.6%)
Field Blewit	1 (1.3%)	0 (0%)	1 (0.6%)
Field Mushroom	1 (1.3%)	0 (0%)	1 (0.6%)
Glistening Ink Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Greasy Tough Shank	1 (1.3%)	0 (0%)	1 (0.6%)
Grey Tricholoma	1 (1.3%)	0 (0%)	1 (0.6%)
Hedgehog Fungus	1 (1.3%)	0 (0%)	1 (0.6%)
Herald of Winter	1 (1.3%)	0 (0%)	1 (0.6%)
Honey Fungus	1 (1.3%)	0 (0%)	1 (0.6%)
Horn of Plenty	1 (1.3%)	0 (0%)	1 (0.6%)
Horse Mushroom	1 (1.3%)	0 (0%)	1 (0.6%)
Ivory Wax Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Larch Bolete	1 (1.3%)	0 (0%)	1 (0.6%)
Meadow Wax Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Milky Bell Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Orange Birch Bolete	1 (1.3%)	0 (0%)	1 (0.6%)
Oyster Mushroom	1 (1.3%)	0 (0%)	1 (0.6%)
Parasitic Bolete	1 (1.3%)	0 (0%)	1 (0.6%)
Parasol Mushroom	1 (1.3%)	0 (0%)	1 (0.6%)
Peppery Bolete	1 (1.3%)	0 (0%)	1 (0.6%)
Peppery Milk Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Porcelain Mushroom	1 (1.3%)	0 (0%)	1 (0.6%)
Red-cracked Bolete	1 (1.3%)	0 (0%)	1 (0.6%)
Saffron Milk Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Scaly Tricholoma	1 (1.3%)	0 (0%)	1 (0.6%)
Scarlet Hood	1 (1.3%)	0 (0%)	1 (0.6%)
	1 (1.3%)	0 (0%)	1 (0.6%)
Shaggy Ink Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Shaggy Parasol	. ,		
Shallow-pored Bolete	1 (1.3%) 1 (1.3%)	0 (0%) 0 (0%)	1 (0.6%)
Slippery Jack	1 (1.3%)		1 (0.6%)
Small Bleeding Bell Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Spring Agaric	1 (1.3%)	0 (0%)	1 (0.6%)
St George's Mushroom	1 (1.3%)	0 (0%)	1 (0.6%)
Tawny Grisette	1 (1.3%)	0 (0%)	1 (0.6%)

	е	р	Overall
The Blusher	1 (1.3%)	0 (0%)	1 (0.6%)
The Charcoal Burner	1 (1.3%)	0 (0%)	1 (0.6%)
The Deceiver	1 (1.3%)	0 (0%)	1 (0.6%)
The Miller	1 (1.3%)	0 (0%)	1 (0.6%)
Tubed Chanterelle	1 (1.3%)	0 (0%)	1 (0.6%)
Two-toned Crumble Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Veined Pluteus	1 (1.3%)	0 (0%)	1 (0.6%)
Velvet Shank	1 (1.3%)	0 (0%)	1 (0.6%)
Wood Blewit	1 (1.3%)	0 (0%)	1 (0.6%)
Yellow-brown Tricholoma	1 (1.3%)	0 (0%)	1 (0.6%)
Yellow-cracked Bolete	1 (1.3%)	0 (0%)	1 (0.6%)
Yellow-gilled Russula	1 (1.3%)	0 (0%)	1 (0.6%)
Yellow-stemmed Bell Cap	1 (1.3%)	0 (0%)	1 (0.6%)
Yellow Swamp Russula	1 (1.3%)	0 (0%)	1 (0.6%)
Apricot Fungus	0 (0%)	1 (1.0%)	1 (0.6%)
Beechwood Sickener	0 (0%)	1 (1.0%)	1 (0.6%)
Birch Russula	0 (0%)	1 (1.0%)	1 (0.6%)
Bitter Bolete	0 (0%)	1 (1.0%)	1 (0.6%)
Blackening Wax Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Blood-red Cortinarius	0 (0%)	1 (1.0%)	1 (0.6%)
	0 (0%)		
Blue Leptonia		1 (1.0%)	1 (0.6%)
Brick Caps	0 (0%)	1 (1.0%)	1 (0.6%)
Brown Bell Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Brown Goblet	0 (0%)	1 (1.0%)	1 (0.6%)
Brown Roll-rim	0 (0%)	1 (1.0%)	1 (0.6%)
Charcoal Pholiota	0 (0%)	1 (1.0%)	1 (0.6%)
Club-footed Funnel Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Clustered Tough Shank	0 (0%)	1 (1.0%)	1 (0.6%)
Common Ink Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Common White Inocybe	0 (0%)	1 (1.0%)	1 (0.6%)
Dark-centred Hebeloma	0 (0%)	1 (1.0%)	1 (0.6%)
Death Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Destroying Angel	0 (0%)	1 (1.0%)	1 (0.6%)
Dotted-stemmed Bolete	0 (0%)	1 (1.0%)	1 (0.6%)
Dung Roundhead	0 (0%)	1 (1.0%)	1 (0.6%)
Ear-pick Fungus	0 (0%)	1 (1.0%)	1 (0.6%)
Egg-shell Toadstool	0 (0%)	1 (1.0%)	1 (0.6%)
Egg Yolk Fungus	0 (0%)	1 (1.0%)	1 (0.6%)
Elfin's Saddle	0 (0%)	1 (1.0%)	1 (0.6%)
False Chanterelle	0 (0%)	1 (1.0%)	1 (0.6%)
False Panther Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Fleecy Milk Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Fly Agaric	0 (0%)	1 (1.0%)	1 (0.6%)
Fragile Russula	0 (0%)	1 (1.0%)	1 (0.6%)
Fuzzy Polypore	0 (0%)	1 (1.0%)	1 (0.6%)
Geranium-scented Russula	0 (0%)	1 (1.0%)	1 (0.6%)
Grass-green Russula	0 (0%)	1 (1.0%)	1 (0.6%)
Hairy Stereum	0 (0%)	1 (1.0%)	1 (0.6%)
Hay Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Horse-hair Fungus	0 (0%)	1 (1.0%)	1 (0.6%)
Ivory Clitocybe	0 (0%)	1 (1.0%)	1 (0.6%)
Jelly Babies	0 (0%)	1 (1.0%)	1 (0.6%)
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	е	р	Overall
Lilac Bell Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Little Wheel Fungus	0 (0%)	1 (1.0%)	1 (0.6%)
Livid Entoloma	0 (0%)	1 (1.0%)	1 (0.6%)
Lurid Bolete	0 (0%)	1 (1.0%)	1 (0.6%)
Magic Mushroom	0 (0%)	1 (1.0%)	1 (0.6%)
Magpie Ink Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Moss Pixy Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Oak Milk Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Olive-brown Panellus	0 (0%)	1 (1.0%)	1 (0.6%)
Orange-red Wax Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Orange Bell Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Orange Moss Agaric	0 (0%)	1 (1.0%)	1 (0.6%)
Parther Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Parrot Wax Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Petticoat Fungus	0 (0%)	1 (1.0%)	1 (0.6%)
Plums and custard	0 (0%)	1 (1.0%)	1 (0.6%)
Poison Pie	0 (0%)	1 (1.0%)	1 (0.6%)
Purple Cortinarius	0 (0%)	1 (1.0%)	1 (0.6%)
Red-banded Cortinarius	0 (0%)	1 (1.0%)	1 (0.6%)
Red-staining Inocybe	0 (0%)	1 (1.0%)	1 (0.6%)
Rooting Shank	0 (0%)	1 (1.0%)	1 (0.6%)
Rufous Milk Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Russet Tough Shank	0 (0%)	1 (1.0%)	1 (0.6%)
Rusty Carpet Ink Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Rusty Wood Rotter	0 (0%)	1 (1.0%)	1 (0.6%)
Saffron Parasol	0 (0%)	1 (1.0%)	1 (0.6%)
Shaggy Pholiota	0 (0%)	1 (1.0%)	1 (0.6%)
Silky Nolanea	0 (0%)	1 (1.0%)	1 (0.6%)
Silver Leaf Fungus	0 (0%)	1 (1.0%)	1 (0.6%)
Slimy Milk Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Small Brown Milk Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Soap-scented Tricholoma	0 (0%)	1 (1.0%)	1 (0.6%)
Soft Slipper Toadstool	0 (0%)	1 (1.0%)	1 (0.6%)
Spectacular Gymnopile	0 (0%)	1 (1.0%)	1 (0.6%)
Spotted Tough Shank	0 (0%)	1 (1.0%)	1 (0.6%)
Spruce Milk Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Stinking Parasol	0 (0%)	1 (1.0%)	1 (0.6%)
Stinking Russula	0 (0%)	1 (1.0%)	1 (0.6%)
Straw-coloured Inocybe	0 (0%)	1 (1.0%)	1 (0.6%)
Striated Nolanea	0 (0%)	1 (1.0%)	1 (0.6%)
Stump Bell Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Sulphur Tricholoma	0 (0%)	1 (1.0%)	1 (0.6%)
Sulphur Tuft	0 (0%)	1 (1.0%)	1 (0.6%)
Sweet Milk Cap	0 (0%)	1 (1.0%)	1 (0.6%)
The Sickener	0 (0%)	1 (1.0%)	1 (0.6%)
Tufted Bell Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Turban Fungus	0 (0%)	1 (1.0%)	1 (0.6%)
Ugly Milk Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Umbrella Navel Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Velvet Roll-rim	0 (0%)	1 (1.0%)	1 (0.6%)
Verdigris Toadstool	0 (0%)	1 (1.0%)	1 (0.6%)
Weeping Widow	0 (0%)	1 (1.0%)	1 (0.6%)

			Overall
	e	p	Overall
White Leptonia	0 (0%)	1 (1.0%)	1 (0.6%)
White Saddle	0 (0%)	1 (1.0%)	1 (0.6%)
Wood Woolly-foot	0 (0%)	1 (1.0%)	1 (0.6%)
Woolly Milk Cap	0 (0%)	1 (1.0%)	1 (0.6%)
Yellow-staining Mushroom	0 (0%)	1 (1.0%)	1 (0.6%)
Yellow Wax cap	0 (0%)	1 (1.0%)	1 (0.6%)
cap.diameter_min	,	. ,	,
Mean (SD)	4.16 (2.38)	3.47 (2.27)	3.78 (2.34)
Median [Min, Max]	4.00 [0.500, 12.0]	3.00 [0.400, 10.0]	3.00 [0.400, 12.0]
Missing	1 (1.3%)	0 (0%)	1 (0.6%)
cap.diameter_max	_ (=:=:)	(3.13)	_ (******)
Mean (SD)	10.3 (5.76)	8.29 (5.58)	9.20 (5.73)
Median [Min, Max]	10.0 [1.50, 30.0]	7.00 [1.00, 30.0]	8.00 [1.00, 30.0]
Missing	1 (1.3%)	0 (0%)	1 (0.6%)
cap.shape	1 (1.570)	0 (070)	1 (0.070)
b	2 (2.6%)	8 (8.3%)	10 (5.8%)
b, f	2 (2.6%)	3 (3.1%)	5 (2.9%)
C	1 (1.3%)	2 (2.1%)	3 (1.7%)
c, x	1 (1.3%)	0 (0%)	1 (0.6%)
c, x, f	1 (1.3%)	0 (0%)	1 (0.6%)
f	4 (5.2%)	4 (4.2%)	8 (4.6%)
f, s	3 (3.9%)	5 (5.2%)	8 (4.6%)
f, x	1 (1.3%)	1 (1.0%)	2 (1.2%)
0	1 (1.3%)	7 (7.3%)	8 (4.6%)
p, b	1 (1.3%)	2 (2.1%)	3 (1.7%)
p, c, o	1 (1.3%)	0 (0%)	1 (0.6%)
p, f	2 (2.6%)	0 (0%)	2 (1.2%)
p, x	3 (3.9%)	1 (1.0%)	4 (2.3%)
p, x, f	2 (2.6%)	0 (0%)	2 (1.2%)
S	4 (5.2%)	5 (5.2%)	9 (5.2%)
S, O	2 (2.6%)	0 (0%)	2 (1.2%)
X	23 (29.9%)	25 (26.0%)	48 (27.7%)
x, f	14 (18.2%)	15 (15.6%)	29 (16.8%)
x, f, s	7 (9.1%)	6 (6.3%)	13 (7.5%)
x, p	1 (1.3%)	1 (1.0%)	2 (1.2%)
X, S	1 (1.3%)	2 (2.1%)	3 (1.7%)
b, f, s	0 (0%)	1 (1.0%)	1 (0.6%)
b, x	0 (0%)	3 (3.1%)	3 (1.7%)
b, x, f	0 (0%)	1 (1.0%)	1 (0.6%)
c, f	0 (0%)	2 (2.1%)	2 (1.2%)
р	0 (0%)	1 (1.0%)	1 (0.6%)
х, о	0 (0%)	1 (1.0%)	1 (0.6%)
Cap.surface	,	` ,	,
•	19 (24.7%)	21 (21.9%)	40 (23.1%)
d	4 (5.2%)	5 (5.2%)	9 (5.2%)
d, k	1 (1.3%)	1 (1.0%)	2 (1.2%)
d, s	1 (1.3%)	0 (0%)	1 (0.6%)
e	3 (3.9%)	2 (2.1%)	5 (2.9%)
e, y	1 (1.3%)	0 (0%)	1 (0.6%)
	5 (6.5%)	7 (7.3%)	12 (6.9%)
g a s h t	1 (1.3%)	0 (0%)	1 (0.6%)
g, s, h, t	1 (1.3%)	0 (0%)	1 (0.6%)
g, s, t	± (±.570)	0 (0 /0)	± (0.070)

	e	р	Overall
h	3 (3.9%)	2 (2.1%)	5 (2.9%)
h, s, d	1 (1.3%)	0 (0%)	1 (0.6%)
h, t	6 (7.8%)	4 (4.2%)	10 (5.8%)
i, y	2 (2.6%)	0 (0%)	2 (1.2%)
'' '	2 (2.6%)	2 (2.1%)	4 (2.3%)
S	8 (10.4%)	5 (5.2%)	13 (7.5%)
s, d	1 (1.3%)	0 (0%)	1 (0.6%)
s, t	2 (2.6%)	2 (2.1%)	4 (2.3%)
s, y	1 (1.3%)	2 (2.1%)	3 (1.7%)
ť	2 (2.6%)	10 (10.4%)	12 (6.9%)
t, h	1 (1.3%)	1 (1.0%)	2 (1.2%)
t, h, s	1 (1.3%)	0 (0%)	1 (0.6%)
W	2 (2.6%)	3 (3.1%)	5 (2.9%)
w, t	1 (1.3%)	0 (0%)	1 (0.6%)
y	7 (9.1%)	7 (7.3%)	14 (8.1%)
y, s	1 (1.3%)	0 (0%)	1 (0.6%)
d, e, y, i	0 (0%)	1 (1.0%)	1 (0.6%)
d, k, s	0 (0%)	1 (1.0%)	1 (0.6%)
e, k, s, h	0 (0%)	1 (1.0%)	1 (0.6%)
e, t, k	0 (0%)	1 (1.0%)	1 (0.6%)
g, h	0 (0%)	1 (1.0%)	1 (0.6%)
g, s, d	0 (0%)	1 (1.0%)	1 (0.6%)
h, s, t	0 (0%)	1 (1.0%)	1 (0.6%)
h, t, w	0 (0%)	1 (1.0%)	1 (0.6%)
h, t, y	0 (0%)	1 (1.0%)	1 (0.6%)
į	0 (0%)	4 (4.2%)	4 (2.3%)
i, e	0 (0%)	1 (1.0%)	1 (0.6%)
k	0 (0%)	4 (4.2%)	4 (2.3%)
k, e	0 (0%)	1 (1.0%)	1 (0.6%)
s, h	0 (0%)	1 (1.0%)	1 (0.6%)
s, i	0 (0%)	1 (1.0%)	1 (0.6%)
t, w, d	0 (0%)	1 (1.0%)	1 (0.6%)
cap.color	1 (1 20/)	0 (00()	1 (0 60()
b	1 (1.3%)	0 (0%)	1 (0.6%)
b, u	1 (1.3%)	0 (0%)	1 (0.6%)
e, n, y	2 (2.6%)	0 (0%)	2 (1.2%)
g, k	1 (1.3%)	1 (1.0%)	2 (1.2%)
g, n	6 (7.8%) 1 (1.3%)	4 (4.2%) 0 (0%)	10 (5.8%) 1 (0.6%)
g, u, n, p	1 (1.3%)	0 (0%)	1 (0.6%)
k, n, w l, g, b, w	1 (1.3%)	0 (0%)	1 (0.6%)
l, r, w	1 (1.3%)	0 (0%)	1 (0.6%)
l, u, g, n	1 (1.3%)	0 (0%)	1 (0.6%)
l, y	1 (1.3%)	0 (0%)	1 (0.6%)
n	22 (28.6%)	16 (16.7%)	38 (22.0%)
n ,w	1 (1.3%)	0 (0%)	1 (0.6%)
n, b	1 (1.3%)	1 (1.0%)	2 (1.2%)
n, e	1 (1.3%)	4 (4.2%)	5 (2.9%)
n, g	3 (3.9%)	0 (0%)	3 (1.7%)
n, o	2 (2.6%)	2 (2.1%)	4 (2.3%)
n, o, e	1 (1.3%)	0 (0%)	1 (0.6%)
n, p, e	1 (1.3%)	1 (1.0%)	2 (1.2%)
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n, r, u, y		е	р	Overall
n, w	n, r, u, y	1 (1.3%)	0 (0%)	1 (0.6%)
n, y, significant of the state	-	1 (1.3%)	3 (3.1%)	4 (2.3%)
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f 63 (81.8%) 80 (83.3%) 143 (82.7%) t 14 (18.2%) 16 (16.7%) 30 (17.3%)		0 (070)	I (I.U/0)	I (U.U /0)
t 14 (18.2%) 16 (16.7%) 30 (17.3%)	t	62 (01 00/)	00 (02 20/)	142 (92 70/)
	1			
giii.attachment		14 (18.2%)	10 (16.7%)	30 (17.3%)
	giii.attachment			

	е	р	Overall
	10 (13.0%)	18 (18.8%)	28 (16.2%)
a	11 (14.3%)	21 (21.9%)	32 (18.5%)
a, d	5 (6.5%)	3 (3.1%)	8 (4.6%)
d	9 (11.7%)	16 (16.7%)	25 (14.5%)
е	10 (13.0%)	6 (6.3%)	16 (9.2%)
f	4 (5.2%)	6 (6.3%)	10 (5.8%)
р	12 (15.6%)	5 (5.2%)	17 (9.8%)
S	7 (9.1%)	9 (9.4%)	16 (9.2%)
x	9 (11.7%)	12 (12.5%)	21 (12.1%)
gill.spacing	, ,	` '	` ,
5 1 5	31 (40.3%)	40 (41.7%)	71 (41.0%)
С	29 (37.7%)	41 (42.7%)	70 (40.5%)
d	13 (16.9%)	9 (9.4%)	22 (12.7%)
f	4 (5.2%)	6 (6.3%)	10 (5.8%)
gill.color	. (3.273)	0 (0.270)	10 (0.070)
b	1 (1.3%)	0 (0%)	1 (0.6%)
b, u	1 (1.3%)	0 (0%)	1 (0.6%)
f	4 (5.2%)	6 (6.3%)	10 (5.8%)
	3 (3.9%)	1 (1.0%)	4 (2.3%)
g	1 (1.3%)	1 (1.0%)	2 (1.2%)
g, k			
g, n	1 (1.3%)	2 (2.1%)	3 (1.7%)
g, p	1 (1.3%)	0 (0%)	1 (0.6%)
g, w	2 (2.6%)	0 (0%)	2 (1.2%)
g, w, y	1 (1.3%)	0 (0%)	1 (0.6%)
k, n	2 (2.6%)	4 (4.2%)	6 (3.5%)
k, p, w	1 (1.3%)	0 (0%)	1 (0.6%)
n	3 (3.9%)	8 (8.3%)	11 (6.4%)
n, y	1 (1.3%)	1 (1.0%)	2 (1.2%)
o .	2 (2.6%)	2 (2.1%)	4 (2.3%)
o, b	1 (1.3%)	0 (0%)	1 (0.6%)
o, e	1 (1.3%)	1 (1.0%)	2 (1.2%)
o, y	1 (1.3%)	4 (4.2%)	5 (2.9%)
р	3 (3.9%)	5 (5.2%)	8 (4.6%)
p, n	1 (1.3%)	0 (0%)	1 (0.6%)
p, n, k	1 (1.3%)	0 (0%)	1 (0.6%)
p, w	3 (3.9%)	2 (2.1%)	5 (2.9%)
r	1 (1.3%)	0 (0%)	1 (0.6%)
u, w	1 (1.3%)	0 (0%)	1 (0.6%)
W	21 (27.3%)	15 (15.6%)	36 (20.8%)
w, n	3 (3.9%)	2 (2.1%)	5 (2.9%)
w, p	1 (1.3%)	2 (2.1%)	3 (1.7%)
w, p, y	1 (1.3%)	0 (0%)	1 (0.6%)
w, u, g, n	1 (1.3%)	0 (0%)	1 (0.6%)
w, y	3 (3.9%)	2 (2.1%)	5 (2.9%)
y	6 (7.8%)	7 (7.3%)	13 (7.5%)
y, e, n	1 (1.3%)	0 (0%)	1 (0.6%)
y, k	1 (1.3%)	0 (0%)	1 (0.6%)
y, n	1 (1.3%)	4 (4.2%)	5 (2.9%)
y, r	1 (1.3%)	0 (0%)	1 (0.6%)
b, p, w	0 (0%)	1 (1.0%)	1 (0.6%)
	0 (0%)	1 (1.0%)	1 (0.6%)
e	0 (0%)	1 (1.0%)	1 (0.6%)
g, n, u	0 (070)	I (I.U/0)	I (0.070)

			O II
	e	р	Overall
g, r, w	0 (0%)	1 (1.0%)	1 (0.6%)
g, u	0 (0%)	1 (1.0%)	1 (0.6%)
k, p	0 (0%)	1 (1.0%)	1 (0.6%)
n, e, y	0 (0%)	1 (1.0%)	1 (0.6%)
n, p	0 (0%)	2 (2.1%)	2 (1.2%)
n, r	0 (0%)	1 (1.0%)	1 (0.6%)
n, u	0 (0%)	1 (1.0%)	1 (0.6%)
n, w	0 (0%)	2 (2.1%)	2 (1.2%)
p, y	0 (0%)	1 (1.0%)	1 (0.6%)
p, y, r	0 (0%)	1 (1.0%)	1 (0.6%)
r, y	0 (0%)	1 (1.0%)	1 (0.6%)
w, b, n	0 (0%)	1 (1.0%)	1 (0.6%)
w, g	0 (0%)	1 (1.0%)	1 (0.6%)
w, g, k	0 (0%)	1 (1.0%)	1 (0.6%)
w, g, p, n	0 (0%)	1 (1.0%)	1 (0.6%)
w, g, u	0 (0%)	1 (1.0%)	1 (0.6%)
w, r	0 (0%)	1 (1.0%)	1 (0.6%)
w, y, g, n	0 (0%)	1 (1.0%)	1 (0.6%)
y, g, k	0 (0%)	1 (1.0%)	1 (0.6%)
y, o, e	0 (0%)	1 (1.0%)	1 (0.6%)
y, r, k	0 (0%)	1 (1.0%)	1 (0.6%)
y, w	0 (0%)	1 (1.0%)	1 (0.6%)
stem.height_min	- ()	(12 2)	(,
Mean (SĎ)	4.52 (2.20)	4.27 (2.22)	4.38 (2.21)
Median [Min, Max]	4.00 [2.00, 15.0]	4.00 [1.00, 15.0]	4.00 [1.00, 15.0]
Missing	0 (0%)	3 (3.1%)	3 (1.7%)
stem.height_max	- ()	- (- ()
Mean (SD)	9.58 (5.03)	8.57 (3.80)	9.03 (4.41)
Median [Min, Max]	8.00 [3.00, 35.0]	8.00 [2.00, 20.0]	8.00 [2.00, 35.0]
Missing	0 (0%)	3 (3.1%)	3 (1.7%)
stem.width_min	- ()	- (- (' /
Mean (SD)	10.2 (6.90)	7.67 (5.65)	8.83 (6.36)
Median [Min, Max]	10.0 [1.00, 40.0]	5.00 [0.500, 20.0]	8.00 [0.500, 40.0]
Missing	4 (5.2%)	7 (7.3%)	11 (6.4%)
stem.width_max	((12 2)	()
Mean (SD)	19.2 (15.9)	14.4 (11.8)	16.6 (13.9)
Median [Min, Max]	15.0 [2.00, 100]	10.0 [1.00, 60.0]	15.0 [1.00, 100]
Missing	4 (5.2%)	7 (7.3%)	11 (6.4%)
stem.root	((12 2)	()
	67 (87.0%)	79 (82.3%)	146 (84.4%)
b	6 (7.8%)	3 (3.1%)	9 (5.2%)
S	4 (5.2%)	5 (5.2%)	9 (5.2%)
C	0 (0%)	2 (2.1%)	2 (1.2%)
f	0 (0%)	3 (3.1%)	3 (1.7%)
r	0 (0%)	4 (4.2%)	4 (2.3%)
stem.surface	C (C75)	. (1.275)	(=1075)
	53 (68.8%)	55 (57.3%)	108 (62.4%)
i	4 (5.2%)	7 (7.3%)	11 (6.4%)
i, t	1 (1.3%)	0 (0%)	1 (0.6%)
k	1 (1.3%)	3 (3.1%)	4 (2.3%)
k, s	1 (1.3%)	0 (0%)	1 (0.6%)
S	9 (11.7%)	6 (6.3%)	15 (8.7%)
-	5 (==., /0)	0 (0.070)	10 (0.770)

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	е	р	Overall
	74 (96.1%)	90 (93.8%)	164 (94.8%)
u	3 (3.9%)	6 (6.3%)	9 (5.2%)
veil.color			
	68 (88.3%)	84 (87.5%)	152 (87.9%)
W	7 (9.1%)	8 (8.3%)	15 (8.7%)
у	1 (1.3%)	0 (0%)	1 (0.6%)
y, w	1 (1.3%)	0 (0%)	1 (0.6%)
e, n	0 (0%)	1 (1.0%)	1 (0.6%)
k	0 (0%)	1 (1.0%)	1 (0.6%)
n	0 (0%)	1 (1.0%)	1 (0.6%)
u	0 (0%)	1 (1.0%)	1 (0.6%)
has.ring			
f	60 (77.9%)	70 (72.9%)	130 (75.1%)
t	17 (22.1%)	26 (27.1%)	43 (24.9%)
ring.type			
	4 (5.2%)	3 (3.1%)	7 (4.0%)
е	3 (3.9%)	3 (3.1%)	6 (3.5%)
f	61 (79.2%)	76 (79.2%)	137 (79.2%)
g	2 (2.6%)	0 (0%)	2 (1.2%)
Ī	1 (1.3%)	1 (1.0%)	2 (1.2%)
l, p	1 (1.3%)	0 (0%)	1 (0.6%)
l, r	2 (2.6%)	0 (0%)	2 (1.2%)
m	1 (1.3%)	0 (0%)	1 (0.6%)
р	1 (1.3%)	1 (1.0%)	2 (1.2%)
r	1 (1.3%)	2 (2.1%)	3 (1.7%)
e, g	0 (0%)	1 (1.0%)	1 (0.6%)
g, p	0 (0%)	2 (2.1%)	2 (1.2%)
l, e	0 (0%)	1 (1.0%)	1 (0.6%)
z	0 (0%)	6 (6.3%)	6 (3.5%)
Spore.print.color			
•	72 (93.5%)	83 (86.5%)	155 (89.6%)
g	1 (1.3%)	0 (0%)	1 (0.6%)
g k	1 (1.3%)	4 (4.2%)	5 (2.9%)
р	1 (1.3%)	2 (2.1%)	3 (1.7%)
w	2 (2.6%)	1 (1.0%)	3 (1.7%)
k, r	0 (0%)	1 (1.0%)	1 (0.6%)
k, u	0 (0%)	1 (1.0%)	1 (0.6%)
n	0 (0%)	3 (3.1%)	3 (1.7%)
p, w	0 (0%)	1 (1.0%)	1 (0.6%)
habitat			
d	47 (61.0%)	57 (59.4%)	104 (60.1%)
d, h	1 (1.3%)	3 (3.1%)	4 (2.3%)
g	1 (1.3%)	10 (10.4%)	11 (6.4%)
g, d	6 (7.8%)	4 (4.2%)	10 (5.8%)
g, d, h	1 (1.3%)	0 (0%)	1 (0.6%)
g, h, d	1 (1.3%)	2 (2.1%)	3 (1.7%)
g, l, m, d	1 (1.3%)	0 (0%)	1 (0.6%)
g, m	3 (3.9%)	2 (2.1%)	5 (2.9%)
g, m, d	1 (1.3%)	4 (4.2%)	5 (2.9%)
g, u, d	1 (1.3%)	0 (0%)	1 (0.6%)
Ĭ	1 (1.3%)	0 (0%)	1 (0.6%)
l, d	7 (9.1%)	6 (6.3%)	13 (7.5%)
	÷	· ·	•

	e	p	Overall
l, d, h	1 (1.3%)	0 (0%)	1 (0.6%)
l, h	1 (1.3%)	0 (0%)	1 (0.6%)
m	1 (1.3%)	1 (1.0%)	2 (1.2%)
m, d	2 (2.6%)	1 (1.0%)	3 (1.7%)
W	1 (1.3%)	0 (0%)	1 (0.6%)
g, l, d	0 (0%)	1 (1.0%)	1 (0.6%)
h, d	0 (0%)	2 (2.1%)	2 (1.2%)
m, h	0 (0%)	1 (1.0%)	1 (0.6%)
p, d	0 (0%)	2 (2.1%)	2 (1.2%)
season		-	•
a	5 (6.5%)	11 (11.5%)	16 (9.2%)
a, w	9 (11.7%)	6 (6.3%)	15 (8.7%)
S	1 (1.3%)	0 (0%)	1 (0.6%)
s, a, w	1 (1.3%)	0 (0%)	1 (0.6%)
s, u	2 (2.6%)	1 (1.0%)	3 (1.7%)
s, u, a	1 (1.3%)	4 (4.2%)	5 (2.9%)
s, u, a, w	7 (9.1%)	6 (6.3%)	13 (7.5%)
u, a	43 (55.8%)	63 (65.6%)	106 (61.3%)
u, a, w	8 (10.4%)	4 (4.2%)	12 (6.9%)
u	0 (0%)	1 (1.0%)	1 (0.6%)
cap.diameter_mean			
Mean (SD)	50.0 (NA)	NA (NA)	50.0 (NA)
Median [Min, Max]	50.0 [50.0, 50.0]	NA [NA, NA]	50.0 [50.0, 50.0]
Missing	76 (98.7%)	96 (100%)	172 (99.4%)
stem.height_mean			
Mean (SD)	NA (NA)	0 (0)	0 (0)
Median [Min, Max]	NA [NA, NA]	0 [0, 0]	0 [0, 0]
Missing	77 (100%)	93 (96.9%)	170 (98.3%)
stem.width_mean			
Mean (SD)	7.75 (4.50)	2.00 (3.61)	4.09 (4.72)
Median [Min, Max]	10.0 [1.00, 10.0]	1.00 [0, 10.0]	1.00 [0, 10.0]
Missing	73 (94.8%)	89 (92.7%)	162 (93.6%)