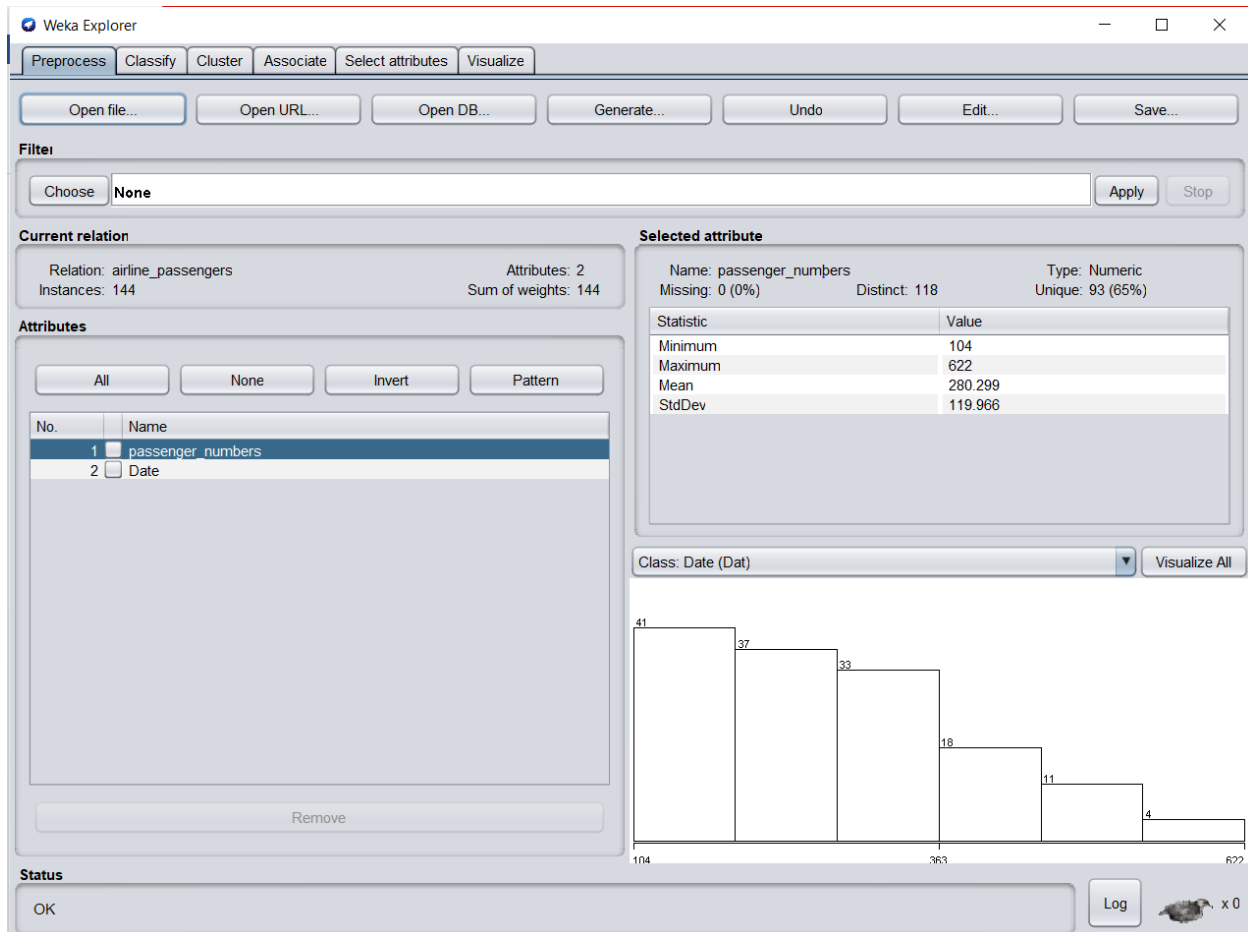


AIM:

1. airline.arff



The airline dataset consists;

Number of instances: 144

Attribute information:

Passenger_numbers:

Type: Numeric, Missing values: 0, Distinct: 118, Unique: 93

Maximum value: 622, Minimum value: 104, Mean: 280.299, Standard Deviation: 119.966

Date:

Type: Date, Missing values: 0, Distinct: 144, Unique: 144

Maximum: -286695000000, Minimum: -662707800000, Mean: -474769800000, Standard Deviation: 109697660835.156

2. Breast-cancer.arff

Weka Explorer

Preprocess | Classify | Cluster | Associate | Select attributes | Visualize

Open file... | Open URL... | Open DB... | Generate... | Undo | Edit... | Save...

Filter: Choose **None** [Apply] [Stop]

Current relation
 Relation: breast-cancer
 Instances: 286
 Attributes: 10
 Sum of weights: 286

Attributes
 All | None | Invert | Pattern

No.	Name
1	<input checked="" type="checkbox"/> age
2	<input type="checkbox"/> menopause
3	<input type="checkbox"/> tumor-size
4	<input type="checkbox"/> inv-nodes
5	<input type="checkbox"/> node-caps
6	<input type="checkbox"/> deg-malig
7	<input type="checkbox"/> breast
8	<input type="checkbox"/> breast-quad
9	<input type="checkbox"/> irradiat
10	<input type="checkbox"/> Class

Remove

Selected attribute
 Name: age
 Missing: 0 (0%)
 Distinct: 6
 Type: Nominal
 Unique: 1 (0%)

No.	Label	Count	Weight
1	10-19	0	0.0
2	20-29	1	1.0
3	30-39	36	36.0
4	40-49	90	90.0
5	50-59	96	96.0
6	60-69	57	57.0
7	70-79	6	6.0
8	80-89	0	0.0
9	90-99	0	0.0

Class: Class (Nom) [Visualize All]

Status: OK [Log] x 0

The breast-cancer dataset consists;

Number of instances: 286

Attribute Information:

1) age:

Type: Nominal, Missing values: 0, Distinct: 6, Unique: 1

Label	Count	Weight
10-19	0	0.0
20-29	1	1.0
30-39	36	36.0
40-49	90	90.0
50-59	96	96.0
60-69	57	57.0
70-79	6	6.0
80-89	0	0.0
90-99	0	0.0

2) menopause:

Type: Nominal, Missing: 0, Distinct: 3, Unique: 0

Label	Count	Weight
lt40	7	7.0
ge40	129	129.0
premeno	150	150.0

3) tumor-size:

Type: Nominal, Missing: 0, Distinct: 11, Unique: 0

Label	Count	Weight
0-4	8	8.0
5-9	4	4.0
10-14	28	28.0
15-19	30	30.0
20-24	50	50.0
25-29	54	54.0
30-34	60	60.0
35-39	19	19.0
40-44	22	22.0
45-49	3	3.0
50-54	8	8.0
55-59	0	0.0

4) inv-nodes:

Type: Nominal, Missing: 0, Distinct: 7, Unique: 1

Label	Count	Weight
0-2	213	213.0
3-5	36	36.0
6-8	17	17.0
9-11	10	10.0
12-14	3	3.0
15-17	6	6.0
18-20	0	0.0
21-23	0	0.0
24-26	1	1.0
27-29	0	0.0
30-32	0	0.0
33-35	0	0.0
36-39	0	0.0

5) node-caps:

Type: Nominal, Missing: 8, Distinct: 2, Unique: 0

Label	Count	Weight
yes	56	56.0
no	222	222.0

6) deg-malig:

Type: Nominal, Missing: 0, Distinct: 3, Unique: 0

Label	Count	Weight
1	71	71.0
2	130	130.0
3	85	85.0

7) breast:

Type: Nominal, Missing: 0, Distinct: 2, Unique: 0

Label	Count	Weight
left	152	152.0
right	134	134.0

8) breast-quad:

Type: Nominal, Missing: 1, Distinct: 5, Unique: 0

Label	Count	Weight
left_up	97	97.0
left_low	110	110.0
right_up	33	33.0
right_low	24	24.0
central	21	21.0

9) irradiat:

Type: Nominal, Missing:0, Distinct: 2, Unique: 0

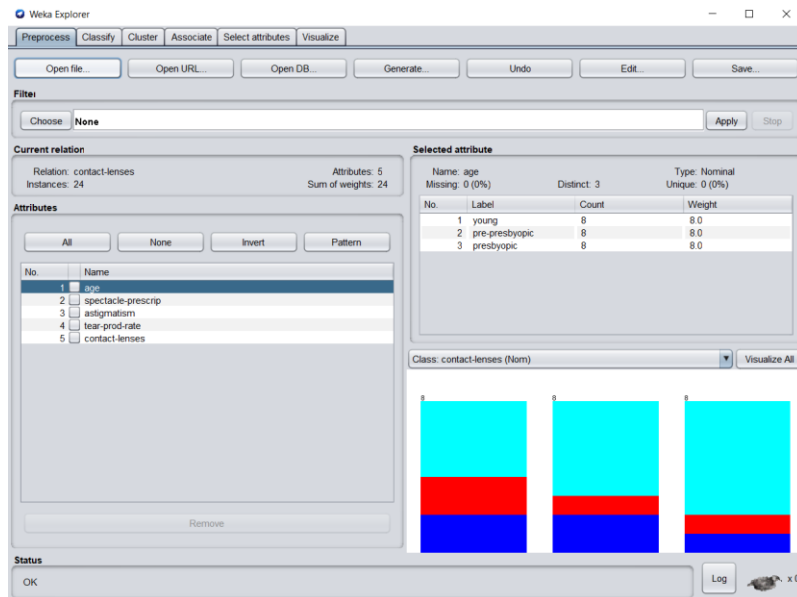
Label	Count	Weight
yes	68	68.0
no	218	218.0

10) Class:

Type: Nominal, Missing: 0, Distinct: 2, Unique: 0

Label	Count	Weight
no-recurrence...	201	201.0
recurrence-ev...	85	85.0

3. Contact-lenses.arff



The contact-lenses dataset consists:

No. of instances: 24

No. of attributes: 5

Class objects: age, spectacle-prescrip, astigmatism, tear-prod-rate, contact-lenses

Attribute Information:

1) age:

Type: Nominal, Missing: 0, Distinct: 3, Unique: 0

Label	Count
young	8
pre-presbyopic	8
presbyopic	8

2) spectacle-prescrip:

Type: Nominal, Missing: 0, Distinct: 2, Unique: 0

Label	Count
myope	12
hypermetrope	12

3) astigmatism:

Type: Nominal, Missing: 0, Distinct: 2, Unique: 0

Label	Count
no	12
yes	12

4) tear-prod-rate:

Type: Nominal, Missing: 0, Distinct: 2, Unique: 0

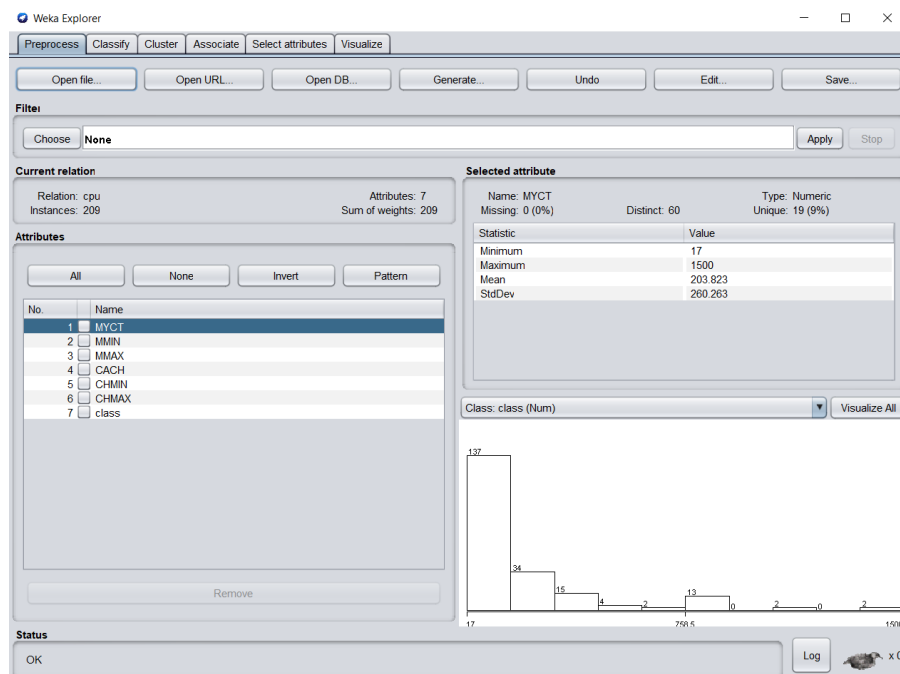
Label	Count
reduced	12
normal	12

5) contact-lenses:

Type: Nominal, Missing: 0, Distinct: 3, Unique: 0

Label	Count
soft	5
hard	4
none	15

4. Cpu.arff



The cpu dataset consists:

No. of instances: 209

No. of attributes: 7

Class objects: MYCT, MMIN, MMAX, CACH, CHMIN, CHMAX, class

Data type: Numeric

Missing Values: 0

Attribute information:

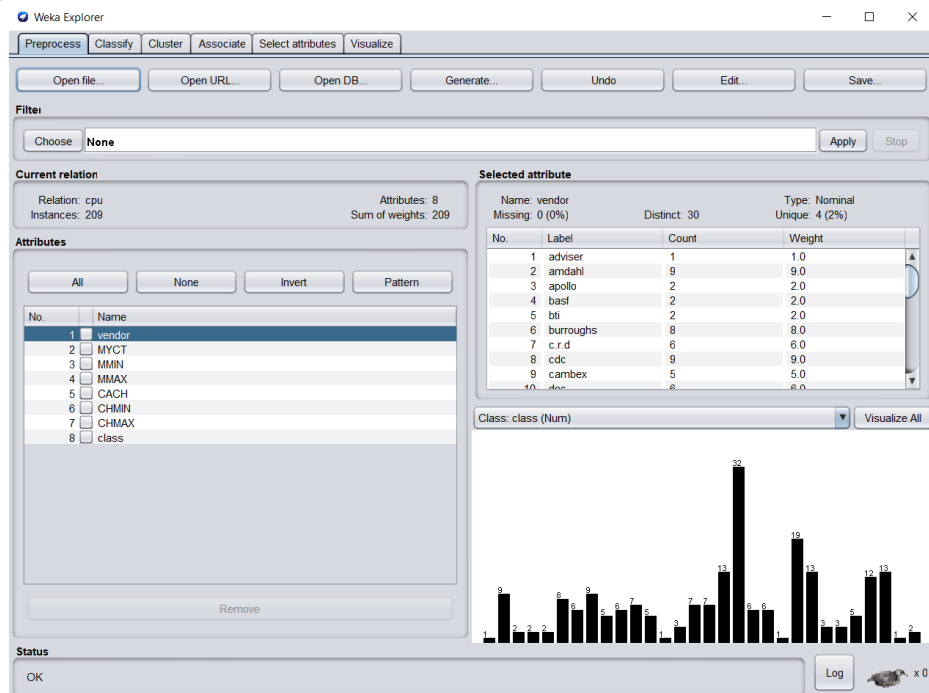
1) MYCT:

Distinct: 60, Unique: 19

Minimum value: 17, Maximum value: 1500, Mean: 203.823, Standard Deviation: 260.263

2) MMIN:

- Distinct: 25, Unique: 11
 Minimum value: 64, Maximum value: 32000, Mean: 2867.981, Standard Deviation: 3878.743
- 3) MMAX:
 Distinct: 23, Unique: 6,
 Minimum value: 64, Maximum value: 64000, Mean: 11796.153, Standard Deviation: 11726.564
- 4) CACH:
 Distinct: 22, Unique: 4
 Minimum: 0, Maximum: 256, Mean: 25.206, Standard Deviation: 40.629
- 5) CHMIN:
 Minimum: 0, Maximum: 52, Mean: 4.699, Standard Deviation: 6.816
- 6) CHMAX:
 Minimum: 0, Maximum: 176, Mean: 18.268, Standard Deviation: 25.997
- 7) Class
 Minimum: 6, Maximum: 1150, Mean: 105.622, Standard Deviation: 160.831
5. Cpu,with.vendor.arff



No. of instances: 209
 No. of attributes: 8
 Missing Values: 0

Attribute information:

1) Vendor:

Type: Nominal, Missing: 0, Distinct: 30, Unique: 4

Labels: adviser, amdahl, apollo, basf, bti, burroughs, c.r.d, cdc, cambex, dec, dg, formation, four-phase, gould, hp, harris, honeywell, ibm, ipl, magnuson, microdata, nas, ncr, nixdorf, perkin-elmer, prime, siemens, sperry, sratus, wang

2) MYCT:

Distinct: 60, Type: Numeric, Unique: 19

Minimum value: 17, Maximum value: 1500, Mean: 203.823, Standard Deviation: 260.263

3) MMIN:

Type: Numeric, Distinct: 25, Unique: 11

Minimum: 64, Maximum: 32000, Mean: 2867.981, Standard Deviation: 38783743

4) MMAX:

Type: Numeric, Distinct: 23, Unique: 6

Minimum value: 64, Maximum value: 64000, Mean: 11796.153, Standard Deviation: 11726.564

8) CACH:

Distinct: 22, Unique: 4

Minimum: 0, Maximum: 256, Mean: 25.206, Standard Deviation: 40.629

9) CHMIN:

Minimum: 0, Maximum: 52, Mean: 4.699, Standard Deviation: 6.816

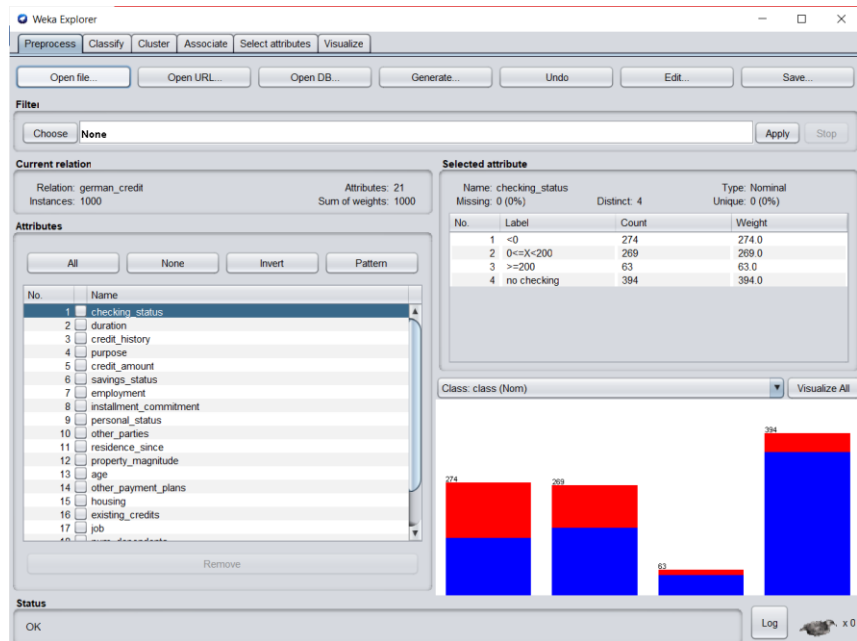
10) CHMAX:

Minimum: 0, Maximum: 176, Mean: 18.268, Standard Deviation: 25.997

11) Class

Minimum: 6, Maximum: 1150, Mean: 105.622, Standard Deviation: 160.831

6. Credit-g.arff



No. of instances: 1000

No. of attributes: 21

Missing values: 0

Attribute information:

1) Checking_status:

Type: Nominal, Distinct:4, Unique: 0

Label	Count
<0	274
0<=X<200	269
>=200	63
no checking	394

2) Duration:

Type: Numeric, Distinct: 33, Unique: 5

Minimum: 4, Maximum: 72, Mean: 20.903, Standard Deviation: 12.059

3) Credit_history:

Type: Nominal, Distinct: 5, Unique: 0

Label	Count
no credits/all p...	40
all paid	49
existing paid	530
delayed previo...	88
critical/other e...	293

4) Purpose:

Type: nominal, Distinct: 10, Unique: 0

Label	Count
new car	234
used car	103
furniture/equip...	181
radio/tv	280
domestic appli...	12
repairs	22
education	50
vacation	0
retraining	9
business	97
other	12

5) Credit_amount:

Type: Numeric, Distinct: 921, Unique: 847

Statistic	Value
Minimum	250
Maximum	18424
Mean	3271.258
StdDev	2822.737

6) Savings_status:

Type: Nominal, Distinct: 5, Unique: 0

Label	Count
<100	603
100<=X<500	103
500<=X<1000	63
>=1000	48
no known savi...	183

7) Employment:

Type: Nominal, Distinct: 5, Unique: 0

Label	Count
unemployed	62
<1	172
1<=X<4	339
4<=X<7	174
>=7	253

8) Installment_commitment:

Type: Numeric, Distinct: 4, Unique: 0

Minimum: 1, Maximum: 4, Mean: 2.973, Standard Deviation: 1.119

9) Personal_status:

Type: Nominal, Distinct: 4, Unique: 0

Label	Count
male div/sep	50
female div/dep...	310
male single	548
male mar/wid	92
female single	0

10) Other_parties:

Type: Nominal, Distinct: 3, unique: 0

Label	Count
none	907
co applicant	41
guarantor	52

11) Residence_since:

Type: Numeric, Distinct: 4

Statistic	Value
Minimum	1
Maximum	4
Mean	2.845
StdDev	1.104

12) Property_magnitude:

Type: Nominal, Distinct: 4, Unique: 0

Label	Count
real estate	282
life insurance	232
car	332
no known pro...	154

13) Age:

Type: Numeric, Distinct: 53, Unique:1

Statistic	Value
Minimum	19
Maximum	75
Mean	35.546
StdDev	11.375

14) Other_payment_plans:

Type: Nominal, Distinct: 3, Unique: 0

Label	Count
bank	139
stores	47
none	814

15) Housing:

Type: Nominal, Distinct: 3

Label	Count
rent	179
own	713
for free	108

16) Existing_credits:

Type: Numeric, Distinct: 4

Statistic	Value
Minimum	1
Maximum	4
Mean	1.407
StdDev	0.578

17) Job:

Type: Nominal, Distinct: 4, Unique: 0

Label	Count
unemp/unskill...	22
unskilled resid...	200
skilled	630
high qualif/self ...	148

18) Num_dependents:

Type: Numeric, Distinct: 2, Unique: 0

Statistic	Value
Minimum	1
Maximum	2
Mean	1.155
StdDev	0.362

19) Own_telephone:

Type: Nominal, Distinct: 4

Label	Count
none	596
yes	404

20) Foreign_worker:

Type: Nominal, Distinct: 2

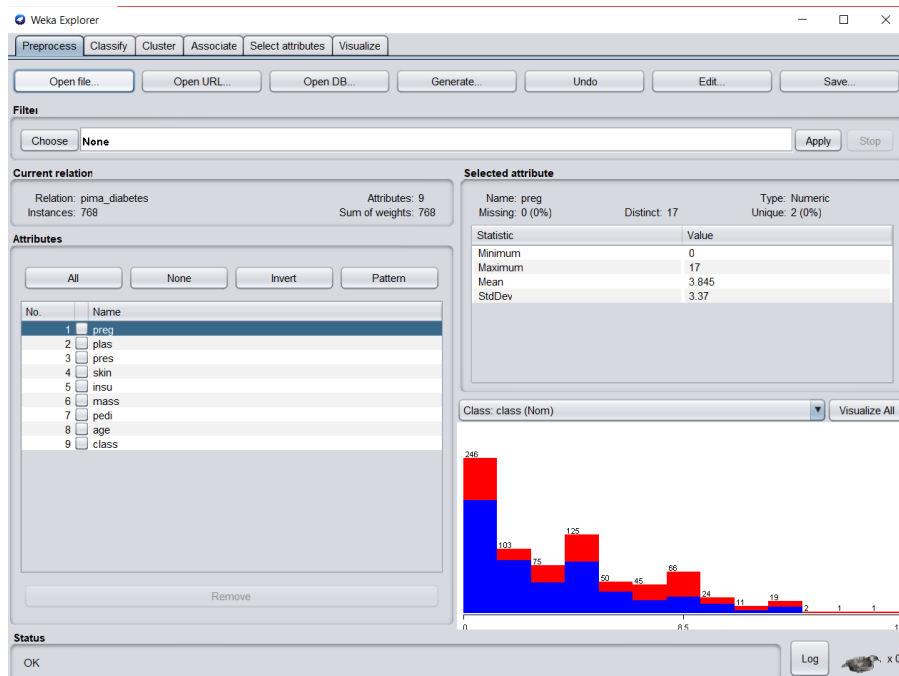
Label	Count
yes	963
no	37

21) Class:

Type: Nominal, Distinct: 2

Label	Count
good	700
bad	300

7. diabetes.arff



No. of instances: 768

No. of attributes: 9

Attribute information:

1) preg:

Type: Numeric, Distinct: 17, Unique: 2

Statistic	Value
Minimum	0
Maximum	17
Mean	3.845
StdDev	3.37

2) plas:

Type: Numeric, Distinct: 136, Unique: 19

Statistic	Value
Minimum	0
Maximum	199
Mean	120.895
StdDev	31.973

3) pres:

Type: Numeric, Distinct: 47, Unique: 8

Statistic	Value
Minimum	0
Maximum	122
Mean	69.105
StdDev	19.356

4) skin:

Type: Numeric, Distinct: 51, Unique: 5

Statistic	Value
Minimum	0
Maximum	99
Mean	20.536
StdDev	15.952

5) insu:

Type: Numeric, Distinct: 186, Unique: 93

Statistic	Value
Minimum	0
Maximum	846
Mean	79.799
StdDev	115.244

6) mass:

Type: Numeric, Distinct: 248, Unique: 76

Statistic	Value
Minimum	0
Maximum	67.1
Mean	31.993
StdDev	7.884

7) pedi:

Type: Numeric, Distinct: 517, Unique: 346

Statistic	Value
Minimum	0.078
Maximum	2.42
Mean	0.472
StdDev	0.331

8) age:

Type: Numeric, Distinct: 52, Unique: 5

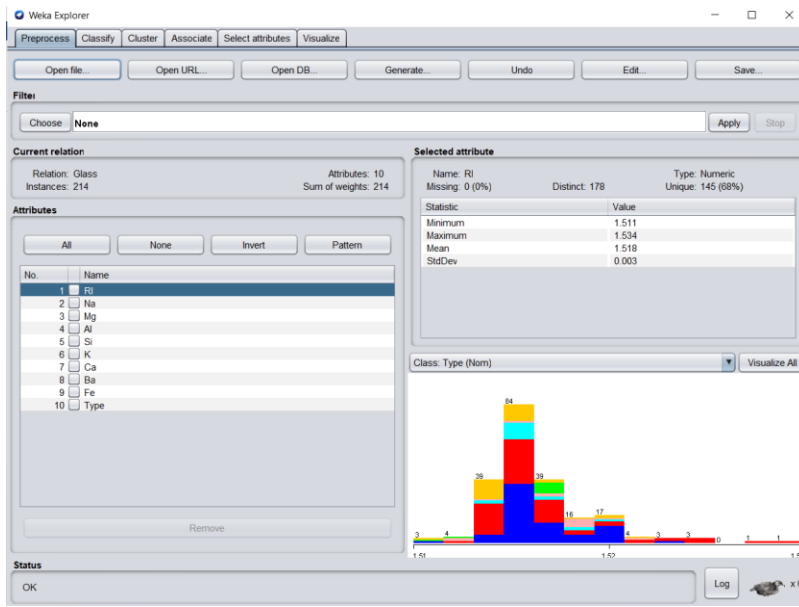
Statistic	Value
Minimum	21
Maximum	81
Mean	33.241
StdDev	11.76

9) class:

Type: Nominal, Distinct: 2, Unique: 0

Label	Count
tested_negative	500
tested_positive	268

8. Glasses.arff



No. of instances: 214

No. of attributes: 10

Missing values: 0

Attribute information:

1) Rf:

Type: Numeric, Distinct: 178, Unique: 145

Statistic	Value
Minimum	1.511
Maximum	1.534
Mean	1.518
StdDev	0.003

2) Na:

Type: Numeric, Distinct: 142, Unique: 97

Statistic	Value
Minimum	10.73
Maximum	17.38
Mean	13.408
StdDev	0.817

3) Mg:

Type: Numeric, Distinct: 94, Unique: 62

Statistic	Value
Minimum	0
Maximum	4.49
Mean	2.685
StdDev	1.442

4) Al:

Type: Numeric, Distinct: 118, Unique: 64

Statistic	Value
Minimum	0.29
Maximum	3.5
Mean	1.445
StdDev	0.499

5) Si:

Type: Numeric, Distinct: 133, Unique: 78

Statistic	Value
Minimum	69.81
Maximum	75.41
Mean	72.651
StdDev	0.775

6) K:

Type: Numeric, Distinct: 65, Unique: 30

Statistic	Value
Minimum	0
Maximum	6.21
Mean	0.497
StdDev	0.652

7) Ca:

Type: Numeric, Distinct: 143, Unique: 95

Statistic	Value
Minimum	5.43
Maximum	16.19
Mean	8.957
StdDev	1.423

8) Ba:

Type: Numeric, Distinct: 34, Unique: 28

Statistic	Value
Minimum	0
Maximum	3.15
Mean	0.175
StdDev	0.497

9) Fe:

Type: Numeric, Distinct: 32, Unique: 17

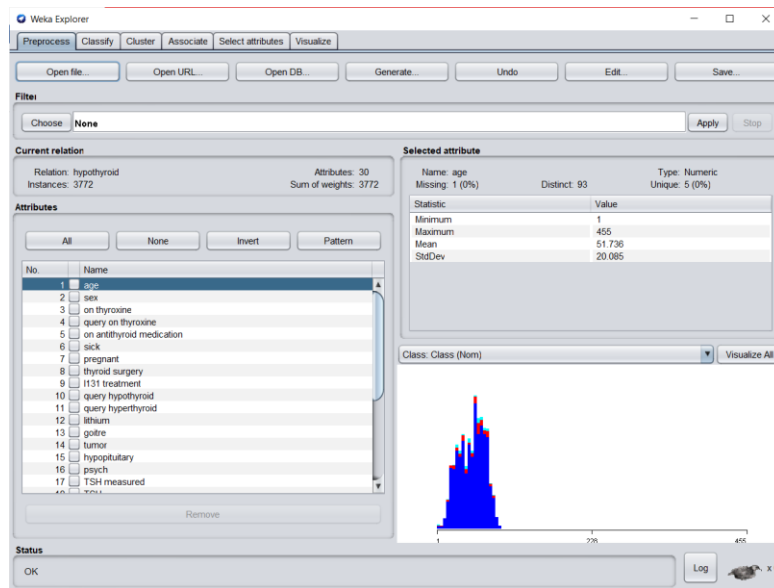
Statistic	Value
Minimum	0
Maximum	0.51
Mean	0.057
StdDev	0.097

10) Type:

Type: Nominal, Distinct: 6, Unique: 0

Label	Count
build wind float	70
build wind non...	76
vehic wind float	17
vehic wind no...	0
containers	13
tableware	9
headlamps	29

9. Hypothyroid.arff



No. of instances: 3772

No. of attributes: 30

Attribute information:

'age' integer

'sex' { F, M }

'on thyroxine' { f, t }

'query on thyroxine' { f, t }

'on antithyroid medication' { f, t }

'sick' { f, t }

'pregnant' { f, t }

'thyroid surgery' { f, t }

'I131 treatment' { f, t }

'query hypothyroid' { f, t }

'query hyperthyroid' { f, t }

'lithium' { f, t }

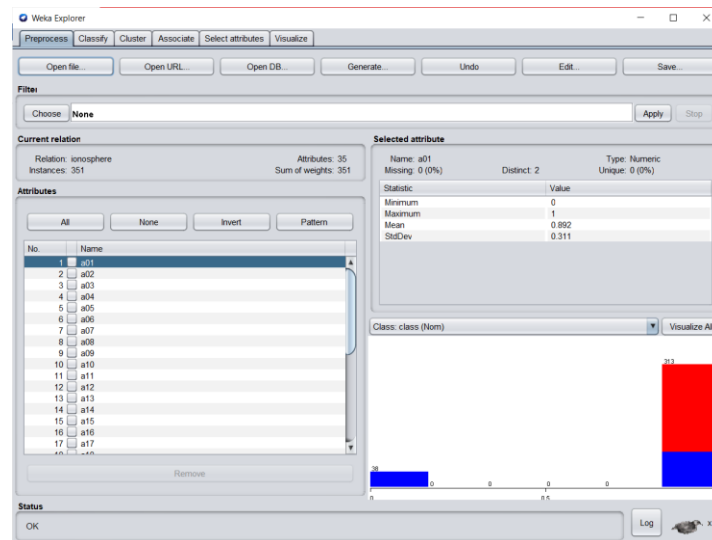
'goitre' { f, t }

'tumor' { f, t }

'hypopituitary' { f, t }

'psych' { f, t}
 'TSH measured' { t, f}
 'TSH' real
 'T3 measured' { t, f}
 'T3' real
 'TT4 measured' { t, f}
 'TT4' real
 'T4U measured' { t, f}
 'T4U' real
 'FTI measured' { t, f}
 'FTI' real
 'TBG measured' { f}
 'TBG' real
 'referral source' { SVHC, other, SVI, STMW, SVHD}
 'Class' { negative, compensated_hypothyroid, primary_hypothyroid, secondary_hypothyroid}

10. Ionosphere.arff



No. of instances: 351

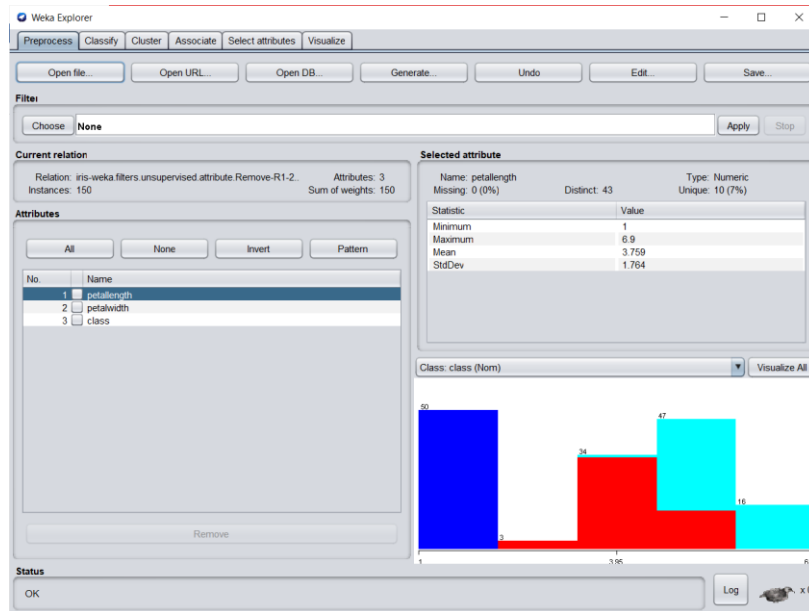
No. of attributes: 35

Attribute information:

Type: Numeric (a01-a34), Nominal (class)

a01, a02, a03, a04, a05, a06, a07, a08, a09, a10, a11, a12, a13, a14, a15, a16, a17, a18,
 a19, a20, a22, a23, a24, a25, a26, a27, a28, a29, a30, a31, a32, a33, a34
 class {b, g}

11. Iris.2D.arff



No. of instances: 150

No. of attributes: 3

Class objects: petallength, petalwidth, class

Missing values: 0

Attribute information:

1) Petallength:

Type: Numeric, Distinct: 43, Unique: 10

Statistic	Value
Minimum	1
Maximum	6.9
Mean	3.759
StdDev	1.764

2) Petalwidth:

Type: Numeric, Distinct: 22, Unique: 2

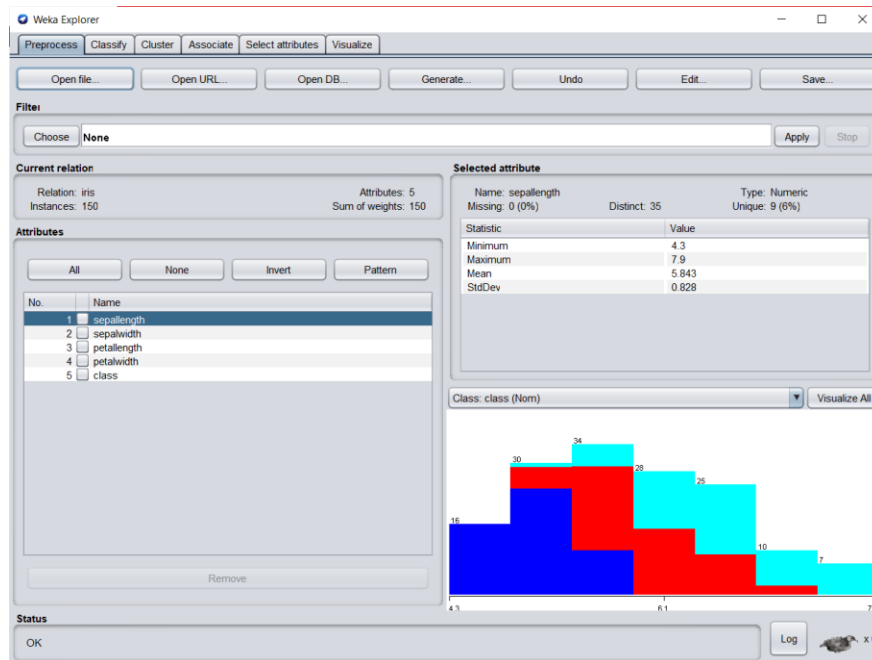
Statistic	Value
Minimum	0.1
Maximum	2.5
Mean	1.199
StdDev	0.763

3) Class:

Type: Nominal, Distinct: 3, Unique: 0

Label	Count
Iris-setosa	50
Iris-versicolor	50
Iris-virginica	50

12. Iris.arff



No. of instances: 150

No. of attributes: 5

Missing values: 0

Attribute Information:

1. sepal length in cm

2. sepal width in cm

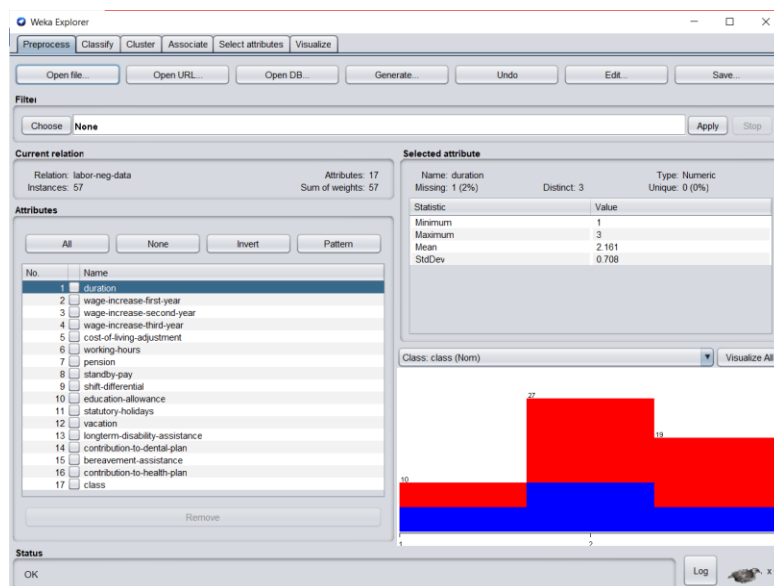
3. petal length in cm

4. petal width in cm

5. class:

Iris Setosa, Iris Versicolour, Iris Virginica

13. Labor.arff



No. of instances: 57

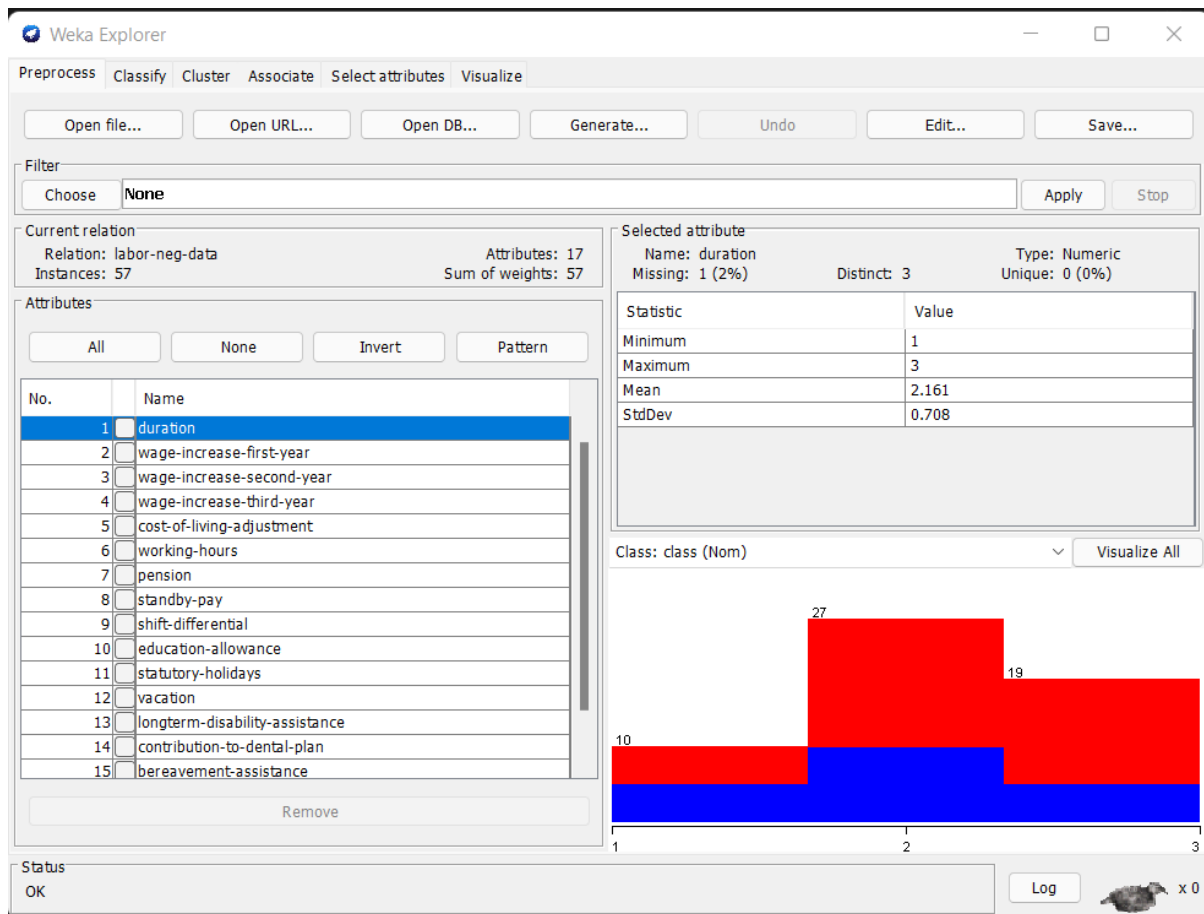
No. of attributes: 17

Missing values: 0

Attribute Information:

1. dur: duration of agreement [1..7]
- 2 wage1.wage : wage increase in first year of contract [2.0 .. 7.0]
- 3 wage2.wage : wage increase in second year of contract [2.0 .. 7.0]
- 4 wage3.wage : wage increase in third year of contract [2.0 .. 7.0]
- 5 cola : cost of living allowance [none, tcf, tc]
- 6 hours.hrs : number of working hours during week [35 .. 40]
- 7 pension : employer contributions to pension plan [none, ret_allw, empl_contr]
- 8 stby_pay : standby pay [2 .. 25]
- 9 shift_diff : shift differential : supplement for work on II and III shift [1 .. 25]
- 10 educ_allw.boolean : education allowance [true false]
- 11 holidays : number of statutory [9 .. 15]
- 12 vacation : number of paid vacation days [ba, avg, gnr]
- 13 lngtrm_disabil.boolean : employer's help during employee longterm disability [true , false]
- 14 dntl_ins : employers contribution towards the dental plan [none, half, full]
- 15 bereavement.boolean : employer's financial contribution towards the costs of bereavement [true , false]
- 16 empl_hplan : employer's contribution towards the health plan [none, half, full]

15) Laboror



Number of Instances: 57

Number of Attributes: 16

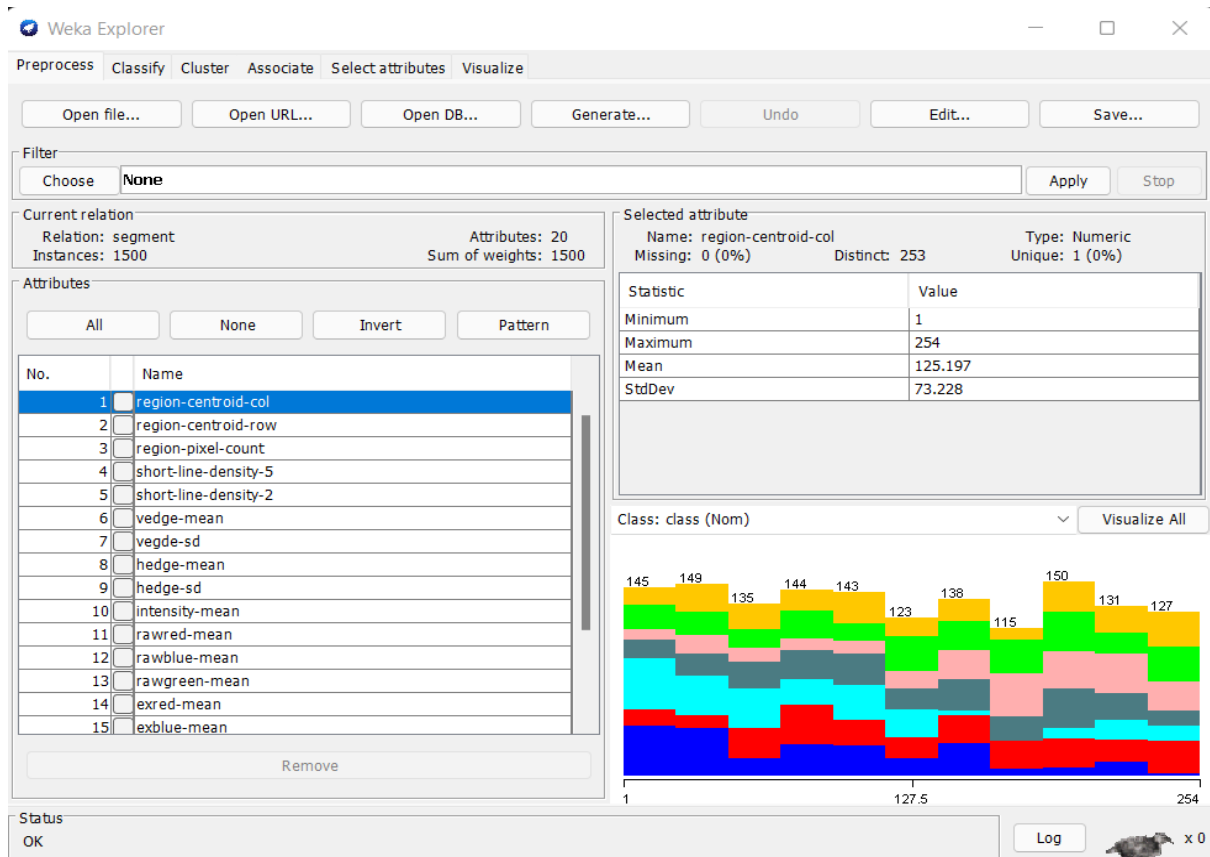
=====

7. Attribute Information:

1. dur: duration of agreement
[1..7]
- 2 wage1.wage : wage increase in first year of contract
[2.0 .. 7.0]
- 3 wage2.wage : wage increase in second year of contract
[2.0 .. 7.0]
- 4 wage3.wage : wage increase in third year of contract
[2.0 .. 7.0]
- 5 cola : cost of living allowance
[none, tcf, tc]
- 6 hours.hrs : number of working hours during week
[35 .. 40]
- 7 pension : employer contributions to pension plan
[none, ret_allw, empl_contr]

- 8 stby_pay : standby pay
[2 .. 25]
- 9 shift_diff : shift differencial : supplement for work on II and III shift
[1 .. 25]
- 10 educ_allw.boolean : education allowance
[true false]
- 11 holidays : number of statutory holidays
[9 .. 15]
- 12 vacation : number of paid vacation days
[ba, avg, gnr]
- 13 lngtrm_disabil.boolean :
employer's help during employee longterm disabili-
ty [true , false]
- 14 dntl_ins : employers contribution towards the dental plan
[none, half, full]
- 15 bereavement.boolean : employer's financial contribution towards the
covering the costs of bereavement
[true , false]
- 16 empl_hplan : employer's contribution towards the health plan
[none, half, full]

16) segment-challenge



7 Attribute Information:

1 region-centroid-col: the column of the center pixel of the region.

2 region-centroid-row: the row of the center pixel of the region.

region-pixel-count: the number of pixels in a region = 9.

short-line-density-5: the results of a line extractoin algorithm that counts how many lines of length 5 (any orientation) with low contrast, less than or equal to 5, go through the region.

short-line-density-2: same as short-line-density-5 but counts lines of high contrast, greater than 5.

vedge-mean: measure the contrast of horizontally adjacent pixels in the region. There are 6, the mean and standard deviation are given. This attribute is used as a vertical edge detector.

7 vegde-sd: (see 6)

hedge-mean: measures the contrast of vertically adjacent pixels. Used for horizontal line detection.

hedge-sd: (see 8).

1 intensity-mean: the average over the region of $(R + G + B)/3$

11 rawred-mean: the average over the region of the R value.

12 rawblue-mean: the average over the region of the B value.

1 rawgreen-mean: the average over the region of the G value.

1 exred-mean: measure the excess red: $(2R - (G + B))$

1 exblue-mean: measure the excess blue: $(2B - (G + R))$

1 exgreen-mean: measure the excess green: $(2G - (R + B))$

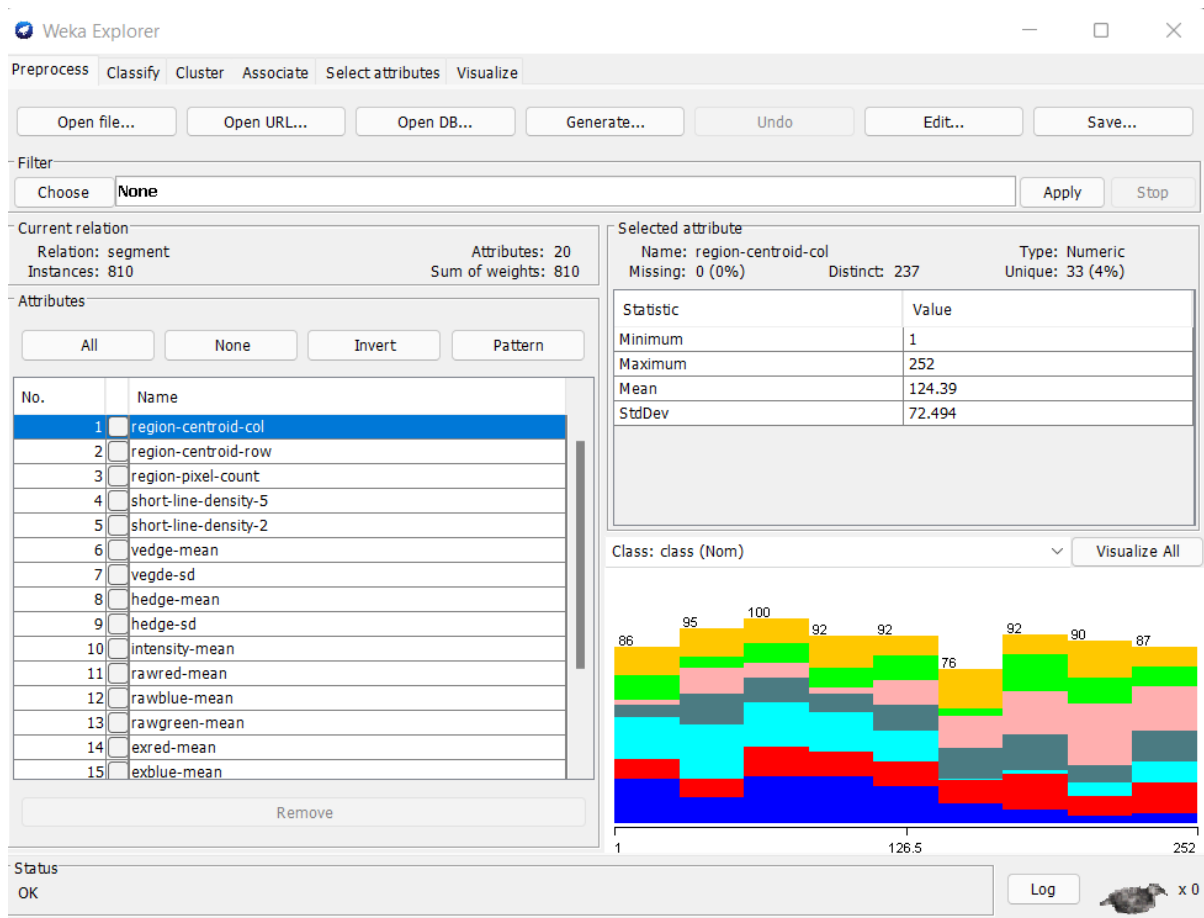
17 value-mean: 3-d nonlinear transformation

of RGB. (Algorithm can be found in Foley and VanDam, Fundamentals of Interactive Computer Graphics)

1 saturatoin-mean: (see 17)

1 hue-mean: (see 17)

17) segment-test



Number of Instances: Training data: 210 Test data: 2100

Number of Attributes: 19 continuous attributes

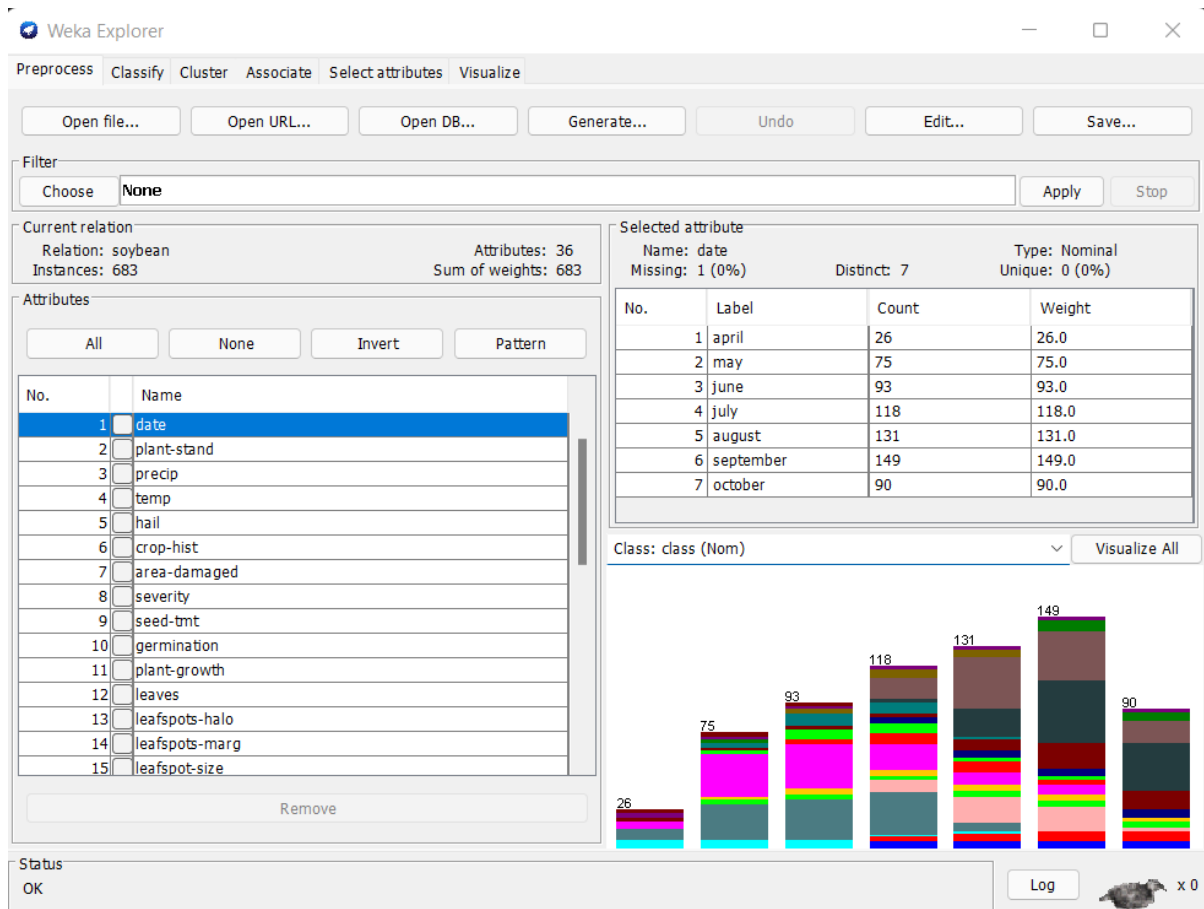
=====

Attribute Information:

1. region-centroid-col: the column of the center pixel of the region.
2. region-centroid-row: the row of the center pixel of the region.
3. region-pixel-count: the number of pixels in a region = 9.

4. short-line-density-5: the results of a line extractoin algorithm that counts how many lines of length 5 (any orientation) with low contrast, less than or equal to 5, go through the region.
5. short-line-density-2: same as short-line-density-5 but counts lines of high contrast, greater than 5.
6. vedge-mean: measure the contrast of horizontally adjacent pixels in the region. There are 6, the mean and standard deviation are given. This attribute is used as a vertical edge detector.
7. vegde-sd: (see 6)
8. hedge-mean: measures the contrast of vertically adjacent pixels. Used for horizontal line detection.
9. hedge-sd: (see 8).
10. intensity-mean: the average over the region of $(R + G + B)/3$
11. rawred-mean: the average over the region of the R value.
12. rawblue-mean: the average over the region of the B value.
13. rawgreen-mean: the average over the region of the G value.
14. exred-mean: measure the excess red: $(2R - (G + B))$
15. exblue-mean: measure the excess blue: $(2B - (G + R))$
16. exgreen-mean: measure the excess green: $(2G - (R + B))$
17. value-mean: 3-d nonlinear transformation of RGB. (Algorithm can be found in Foley and VanDam, Fundamentals of Interactive Computer Graphics)
18. saturatoin-mean: (see 17)
19. hue-mean: (see 17)

18) soybean



Number of Instances: 683

Number of Attributes: 35

=====

date {april,may,june,july,august,september,october}

plant-stand {normal,lt-normal}

precip {lt-norm,norm,gt-norm}

temp {lt-norm,norm,gt-norm}

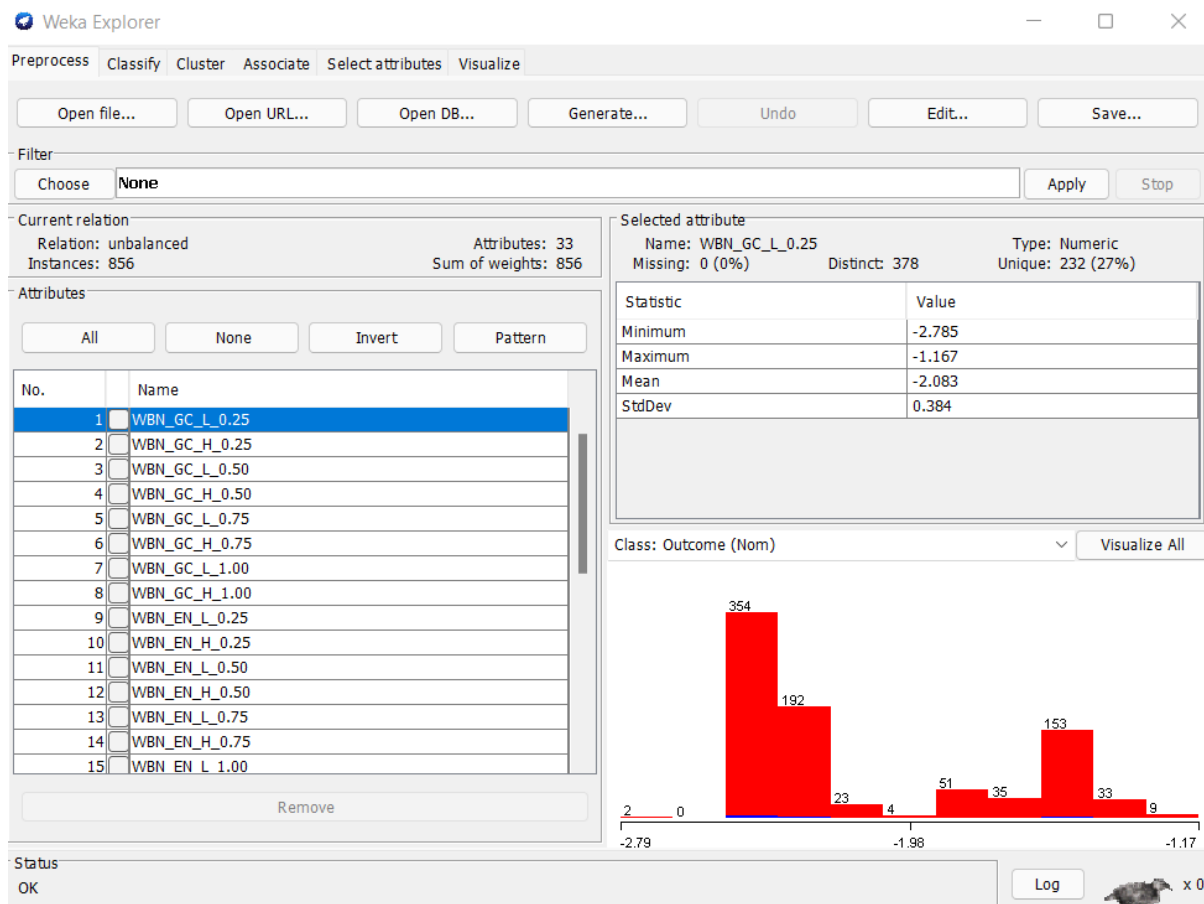
hail {yes,no}

crop-hist {diff-1st-year,same-1st-yr,same-1st-two-yrs, same-1st-sev-yrs}

area-damaged	{scattered,low-areas,upper-areas,whole-field}
severity	{minor,pot-severe,severe}
seed-tmt	{none,fungicide,other}
germination	{90-100,80-89,lt-80}
plant-growth	{norm,abnorm}
leaves	{norm,abnorm}
leafspots-halo	{absent,yellow-halos,no-yellow-halos}
leafspots-marg	{w-s-marg,no-w-s-marg,dna}
leafspot-size	{lt-1/8,gt-1/8,dna}
leaf-shread	{absent,present}
leaf-malf	{absent,present}
leaf-mild	{absent,upper-surf,lower-surf}
stem	{norm,abnorm}
lodging	{yes,no}
stem-cankers	{absent,below-soil,above-soil,above-sec-nde}
canker-lesion	{dna,brown,dk-brown-blk,tan}
fruiting-bodies	{absent,present}
external-decay	{absent,firm-and-dry,watery}
mycelium	{absent,present}
int-discolor	{none,brown,black}
sclerotia	{absent,present}
fruit-pods	{norm,diseased,few-present,dna}
fruit-spots	{absent,colored,brown-w/blk-specks,distort,dna}
seed	{norm,abnorm}
mold-growth	{absent,present}
seed-discolor	{absent,present}
seed-size	{norm,lt-norm}
shriveling	{absent,present}
roots	{norm,rotted,galls-cysts}
class	{diaporthe-stem-canker, charcoal-rot, rhizoctonia-root-rot, phytophthora-rot, brown-stem-rot, powdery-mildew, downy-mildew, brown-spot, bacterial-blight, bacterial-pustule,

purple-seed-stain, anthracnose, phyllosticta-leaf-spot, alternarialeaf-spot, frog-eye-leaf-spot, diaporthe-pod-&-stem-blight, cyst-nematode, 2-4-d-injury, herbicide-injury}

19) unbalanced



WBN_GC_L_0.25 numeric

WBN_GC_H_0.25 numeric

WBN_GC_L_0.50 numeric

WBN_GC_H_0.50 numeric

WBN_GC_L_0.75 numeric

WBN_GC_H_0.75 numeric

WBN_GC_L_1.00 numeric

WBN_GC_H_1.00 numeric

WBN_EN_L_0.25 numeric

WBN_EN_H_0.25 numeric

WBN_EN_L_0.50 numeric

WBN_EN_H_0.50 numeric

WBN_EN_L_0.75 numeric

WBN_EN_H_0.75 numeric

WBN_EN_L_1.00 numeric

WBN_EN_H_1.00 numeric

WBN_LP_L_0.25 numeric

WBN_LP_H_0.25 numeric

WBN_LP_L_0.50 numeric

WBN_LP_H_0.50 numeric

WBN_LP_L_0.75 numeric

WBN_LP_H_0.75 numeric

WBN_LP_L_1.00 numeric

WBN_LP_H_1.00 numeric

XLogP numeric

PSA numeric

NumRot numeric

NumHBA numeric

NumHBD numeric

MW numeric

BBB numeric

BadGroup numeric

Outcome {Active,Inactive}

20) vote

Weka Explorer

Preprocess | Classify | Cluster | Associate | Select attributes | Visualize

Open file... Open URL... Open DB... Generate... Undo Edit... Save...

Filter: Choose **None** Apply Stop

Current relation
Relation: vote
Instances: 435
Attributes: 17
Sum of weights: 435

Attributes

All None Invert Pattern

No.	Name
1	<input checked="" type="checkbox"/> handicapped-infants
2	<input type="checkbox"/> water-project-cost-sharing
3	<input type="checkbox"/> adoption-of-the-budget-resolution
4	<input type="checkbox"/> physician-fee-freeze
5	<input type="checkbox"/> el-salvador-aid
6	<input type="checkbox"/> religious-groups-in-schools
7	<input type="checkbox"/> anti-satellite-test-ban
8	<input type="checkbox"/> aid-to-nicaraguan-contras
9	<input type="checkbox"/> mx-missile
10	<input type="checkbox"/> immigration
11	<input type="checkbox"/> synfuels-corporation-cutback
12	<input type="checkbox"/> education-spending
13	<input type="checkbox"/> superfund-right-to-sue
14	<input type="checkbox"/> crime
15	<input type="checkbox"/> duty-free-exports

Remove

Selected attribute
Name: handicapped-infants
Missing: 12 (3%)
Distinct: 2
Type: Nominal
Unique: 0 (0%)

No.	Label	Count	Weight
1	n	236	236.0
2	y	187	187.0

Class: Class (Nom) Visualize All

Status: OK Log x 0

Selected attribute			
Name: handicapped-infants		Type: Nominal	
Missing: 12 (3%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	236	236.0
2	y	187	187.0

Selected attribute			
Name: water-project-cost-sharing		Type: Nominal	
Missing: 48 (11%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	192	192.0
2	y	195	195.0

Selected attribute			
Name: adoption-of-the-budget-resolution		Type: Nominal	
Missing: 11 (3%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	171	171.0
2	y	253	253.0

Selected attribute			
Name: physician-fee-freeze		Type: Nominal	
Missing: 11 (3%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	247	247.0
2	y	177	177.0

Selected attribute			
Name: el-salvador-aid		Type: Nominal	
Missing: 15 (3%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	208	208.0
2	y	212	212.0

Selected attribute			
Name: religious-groups-in-schools		Type: Nominal	
Missing: 11 (3%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	152	152.0
2	y	272	272.0

Selected attribute			
Name: anti-satellite-test-ban		Type: Nominal	
Missing: 14 (3%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	182	182.0
2	y	239	239.0

Selected attribute			
Name: aid-to-nicaraguan-contras		Type: Nominal	
Missing: 15 (3%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	178	178.0
2	y	242	242.0

Selected attribute			
Name: mx-missile		Type: Nominal	
Missing: 22 (5%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	206	206.0
2	y	207	207.0

Selected attribute			
Name: immigration		Type: Nominal	
Missing: 7 (2%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	212	212.0
2	y	216	216.0

Selected attribute			
Name: synfuels-corporation-cutback		Type: Nominal	
Missing: 21 (5%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	264	264.0
2	y	150	150.0

Selected attribute			
Name: education-spending		Type: Nominal	
Missing: 31 (7%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	233	233.0
2	y	171	171.0

Selected attribute			
Name: superfund-right-to-sue		Type: Nominal	
Missing: 25 (6%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	201	201.0
2	y	209	209.0

Selected attribute			
Name: crime		Type: Nominal	
Missing: 17 (4%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	170	170.0
2	y	248	248.0

Selected attribute			
Name: duty-free-exports		Type: Nominal	
Missing: 28 (6%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	233	233.0
2	y	174	174.0

Selected attribute			
Name: export-administration-act-south-africa		Type: Nominal	
Missing: 104 (24%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	n	62	62.0
2	y	269	269.0

Selected attribute			
Name: Class		Type: Nominal	
Missing: 0 (0%)		Distinct: 2	
		Unique: 0 (0%)	
No.	Label	Count	Weight
1	democrat	267	267.0
2	republican	168	168.0

21) weather.nominal

Weka Explorer

Preprocess | Classify | Cluster | Associate | Select attributes | Visualize

Open file... Open URL... Open DB... Generate... Undo Edit... Save...

Filter: Choose **None** Apply Stop

Current relation
Relation: weather.symbolic
Instances: 14
Attributes: 5
Sum of weights: 14

Attributes

All None Invert Pattern

No.	Name
1	<input checked="" type="checkbox"/> outlook
2	<input type="checkbox"/> temperature
3	<input type="checkbox"/> humidity
4	<input type="checkbox"/> windy
5	<input type="checkbox"/> play

Remove

Selected attribute
Name: outlook
Missing: 0 (0%)
Distinct: 3
Type: Nominal
Unique: 0 (0%)

No.	Label	Count	Weight
1	sunny	5	5.0
2	overcast	4	4.0
3	rainy	5	5.0

Class: play (Nom) Visualize All

outlook	play = no (blue)	play = yes (red)
sunny	3	2
overcast	4	0
rainy	3	2

Status: OK Log x 0

Selected attribute			
Name: outlook		Type: Nominal	
Missing: 0 (0%)		Unique: 0 (0%)	
		Distinct: 3	
No.	Label	Count	Weight
1	sunny	5	5.0
2	overcast	4	4.0
3	rainy	5	5.0

Selected attribute			
Name: temperature		Type: Nominal	
Missing: 0 (0%)		Unique: 0 (0%)	
		Distinct: 3	
No.	Label	Count	Weight
1	hot	4	4.0
2	mild	6	6.0
3	cool	4	4.0

Selected attribute			
Name: humidity		Type: Nominal	
Missing: 0 (0%)		Unique: 0 (0%)	
		Distinct: 2	
No.	Label	Count	Weight
1	high	7	7.0
2	normal	7	7.0

Selected attribute			
Name: windy		Type: Nominal	
Missing: 0 (0%)		Unique: 0 (0%)	
		Distinct: 2	
No.	Label	Count	Weight
1	TRUE	6	6.0
2	FALSE	8	8.0

Selected attribute			
Name: play		Type: Nominal	
Missing: 0 (0%)		Unique: 0 (0%)	
		Distinct: 2	
No.	Label	Count	Weight
1	yes	9	9.0
2	no	5	5.0

22) weather.numeric

Weka Explorer

Preprocess | Classify | Cluster | Associate | Select attributes | Visualize

Open file... Open URL... Open DB... Generate... Undo Edit... Save...

Filter: Choose **None** Apply Stop

Current relation
Relation: weather
Instances: 14
Attributes: 5
Sum of weights: 14

Attributes
All None Invert Pattern

No.	Name
1	<input checked="" type="checkbox"/> outlook
2	<input type="checkbox"/> temperature
3	<input type="checkbox"/> humidity
4	<input type="checkbox"/> windy
5	<input type="checkbox"/> play

Remove

Selected attribute
Name: outlook
Missing: 0 (0%)
Distinct: 3
Type: Nominal
Unique: 0 (0%)

No.	Label	Count	Weight
1	sunny	5	5.0
2	overcast	4	4.0
3	rainy	5	5.0

Class: play (Nom) Visualize All

Outlook	Blue (play=no)	Red (play=yes)	Total
sunny	5	0	5
overcast	4	0	4
rainy	5	0	5

Status: OK Log x 0

Selected attribute

Name: outlook
Missing: 0 (0%)

Distinct: 3

Type: Nominal
Unique: 0 (0%)

No.	Label	Count	Weight
1	sunny	5	5.0
2	overcast	4	4.0
3	rainy	5	5.0

Selected attribute

Name: temperature
Missing: 0 (0%)

Distinct: 12

Type: Numeric
Unique: 10 (71%)

Statistic	Value
Minimum	64
Maximum	85
Mean	73.571
StdDev	6.572

Selected attribute

Name: humidity
Missing: 0 (0%)

Distinct: 10

Type: Numeric
Unique: 7 (50%)

Statistic	Value
Minimum	65
Maximum	96
Mean	81.643
StdDev	10.285

Selected attribute

Name: windy
Missing: 0 (0%)

Distinct: 2

Type: Nominal
Unique: 0 (0%)

No.	Label	Count	Weight
1	TRUE	6	6.0
2	FALSE	8	8.0

Selected attribute

Name: play
Missing: 0 (0%)

Distinct: 2

Type: Nominal
Unique: 0 (0%)

No.	Label	Count	Weight
1	yes	9	9.0
2	no	5	5.0