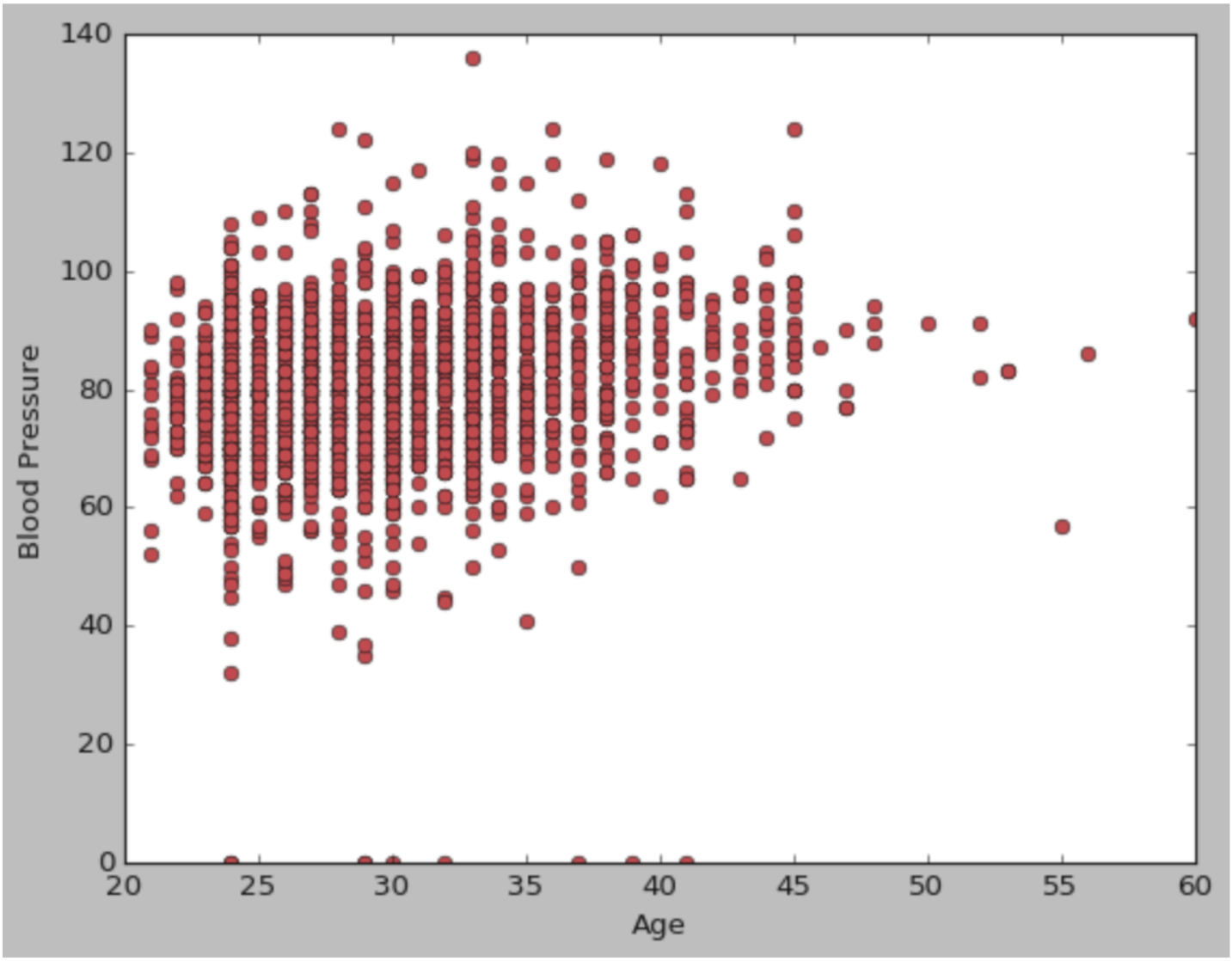
BLOOD PRESSURE ANALYSIS:

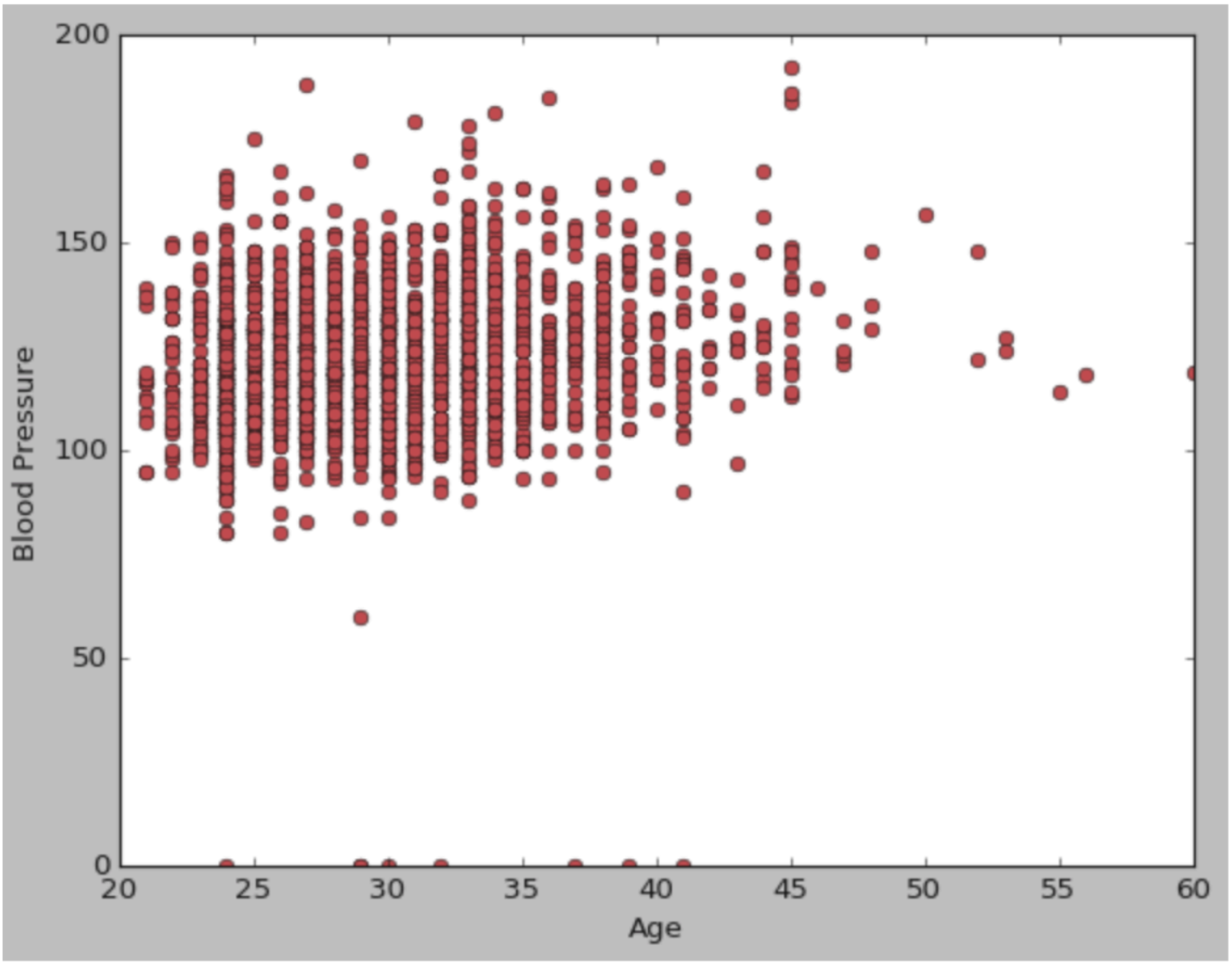
DATA:

NAME	AGE	GENDER							
A Anisha	**28**	**female**	28	female	31.47	155	75.6	86	120
A Bhanu	**31**	**male**	31	male	25.58	168	72.2	80	111
A ROMIO SINGH	**30**	**male**	30	male	25.48	163	67.7	100	146
ABHISHEK KASHYAP	**36**	**male**	36	male	29	171	84.8	92	127
AJAY BENJWAL	**28**	**male**	28	male	24.25	171	70.9	75	128
AKHIL GARG	**32**	**male**	32	male	22.57	170.5	65.6	89	128
ALEENA GEORGE	**24**	**female**	24	female	22.02	145	46.3	77	100
ANKIT AGRAWAL	**23**	**male**	23	male	26.13	173	78.2	89	144
ANKUSH MISHRA	**25**	**male**	25	male	27.74	174	84	93	135
ASWIN P S	**23**	**male**	23	male	27.1727.17	181181	8989	7676	137137
ATA UL HAQUE	**23**	**male**	23	male	23.22	173	69.5	93	127
Aadithya Krishnan	**23**	**male**	23	male	24.37	172	72.1	94	136
Aahuti Sharma	**24**	**female**	24	female	26.37	160	67.5	74	113
Aakash Agrawal	**30**	**male**	30	male	15.32	164	41.2	83	131
Aarushi Tandon	**25**	**female**	25	female	24.52	168	69.2	80	120
Aashish Sharma	**36**	**male**	36	male	30.73	170	88.8	92	124
Aashray	**26**	**male**	26	male	25.31	176	78.4	86	133
Aayush Agarwal	**22**	**male**	22	male	339.01	68.7	160	81	120
Aayush thusu	**30**	**male**	30	male	26.99	176	83.6	91	146
Abeesha D	**26**	**female**	26	female	29.19	149	64.8	72	128

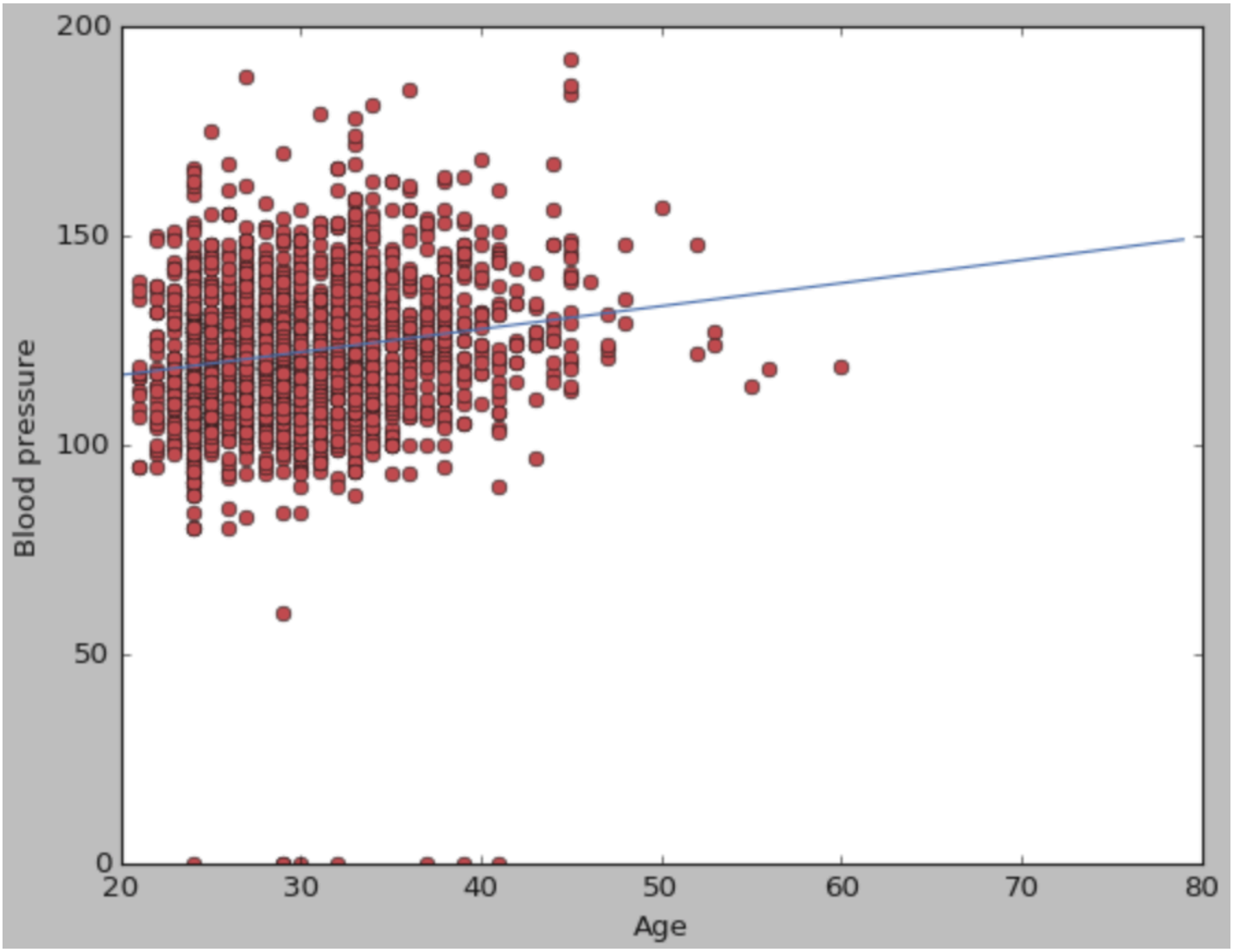
DIASTOLIC SCATTER PLOT(RANGES):



SYSTOLIC SCATTER PLOT(RANGES):



APPLIED LINEAR REGRESSION TO FIND PERFECT FIT(Experimental):



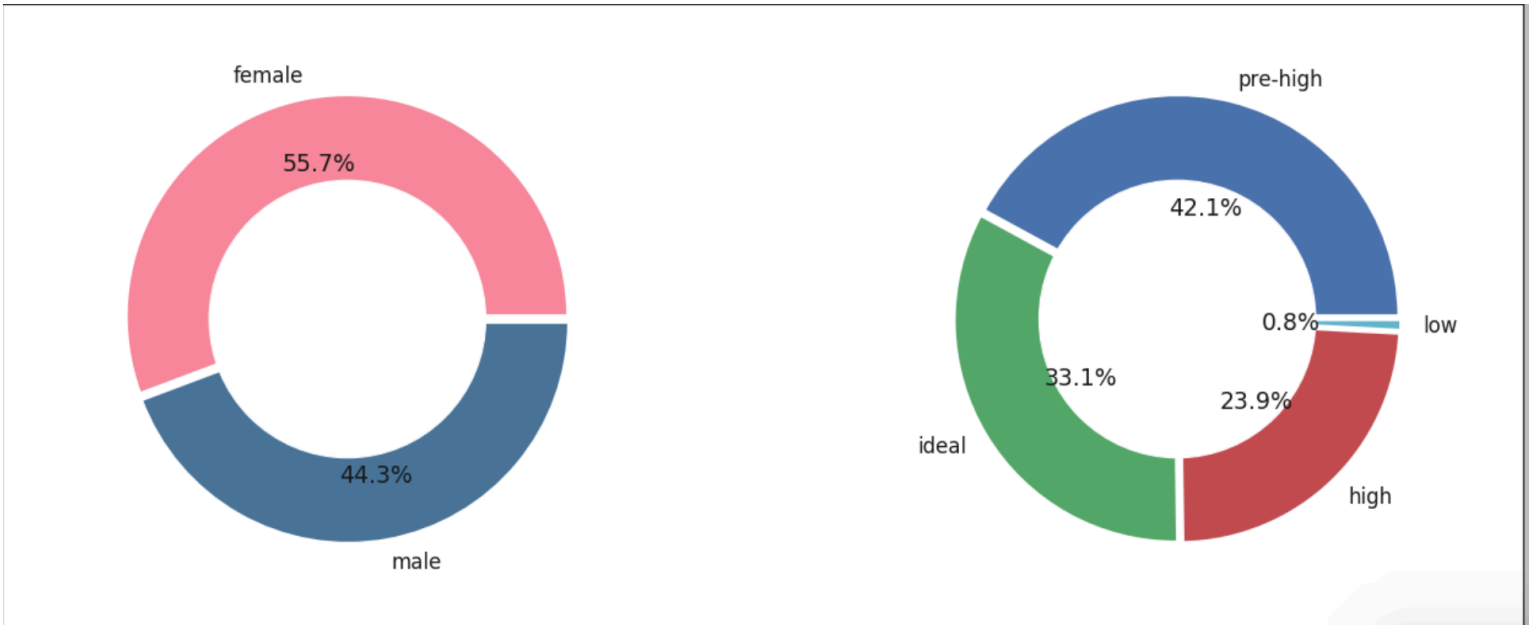
Giving Status to Blood Pressure:

```
if (x.Diastolic<60)&(x.Systolic<90):
        return 'low'
    elif (x.Diastolic<80)&(x.Systolic<120):
        return 'ideal'
    elif (x.Diastolic<90)&(x.Systolic<140):
        return 'pre-high'
    else:
        return ‘High'
```

DATA:

			Age	Gender	Bmi	Height	Weight	Diastolic	Systolic	BPStatus
NAME	**AGE**	**GENDER**								
A Anisha	**28**	**female**	28	female	31.4	155.0	75.6	86.0	120.0	pre-high
A Bhanu	**31**	**male**	31	male	25.5	168.0	72.2	80.0	111.0	pre-high
A ROMIO SINGH	**30**	**male**	30	male	25.4	163.0	67.7	100.0	146.0	High
ABHISHEK KASHYAP	**36**	**male**	36	male	29.0	171.0	84.8	92.0	127.0	High
AJAY BENJWAL	**28**	**male**	28	male	24.2	171.0	70.9	75.0	128.0	pre-high
AKHIL GARG	**32**	**male**	32	male	22.5	170.5	65.6	89.0	128.0	pre-high
ALEENA GEORGE	**24**	**female**	24	female	22.0	145.0	46.3	77.0	100.0	ideal
ANKIT AGRAWAL	**23**	**male**	23	male	26.1	173.0	78.2	89.0	144.0	High
ANKUSH MISHRA	**25**	**male**	25	male	27.7	174.0	84.0	93.0	135.0	High
ATA UL HAQUE	**23**	**male**	23	male	23.2	173.0	69.5	93.0	127.0	High
Aadithya Krishnan	**23**	**male**	23	male	24.3	172.0	72.1	94.0	136.0	High
Aahuti Sharma	**24**	**female**	24	female	26.3	160.0	67.5	74.0	113.0	ideal
Aakash Agrawal	**30**	**male**	30	male	15.3	164.0	41.2	83.0	131.0	pre-high
Aarushi Tandon	**25**	**female**	25	female	24.5	168.0	69.2	80.0	120.0	pre-high
Aashish Sharma	**36**	**male**	36	male	30.7	170.0	88.8	92.0	124.0	High
Aashray	**26**	**male**	26	male	25.3	176.0	78.4	86.0	133.0	pre-high
Aayush thusu	**30**	**male**	30	male	26.9	176.0	83.6	91.0	146.0	High
Abeesha D	**26**	**female**	26	female	29.1	149.0	64.8	72.0	128.0	pre-high
Abhijit Chawda	**37**	**male**	37	male	23.1	177.0	72.4	86.0	124.0	pre-high
Abhinav Daksha	**26**	**male**	26	male	23.7	165.0	64.6	103.0	167.0	High

DONUT PLOTS:

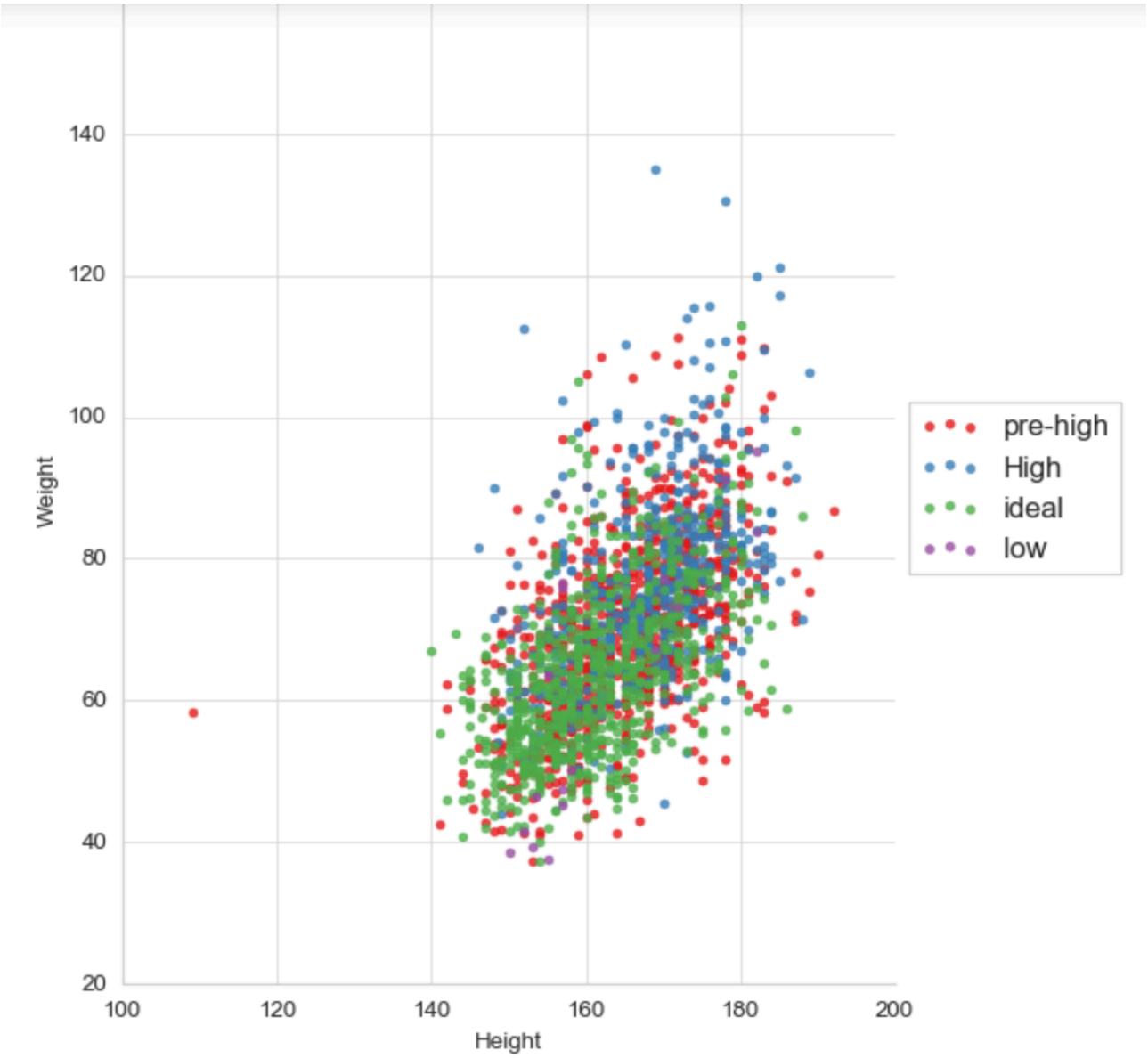


Value counts:

```
pre-high    897
ideal       706
High        510
low          18
```

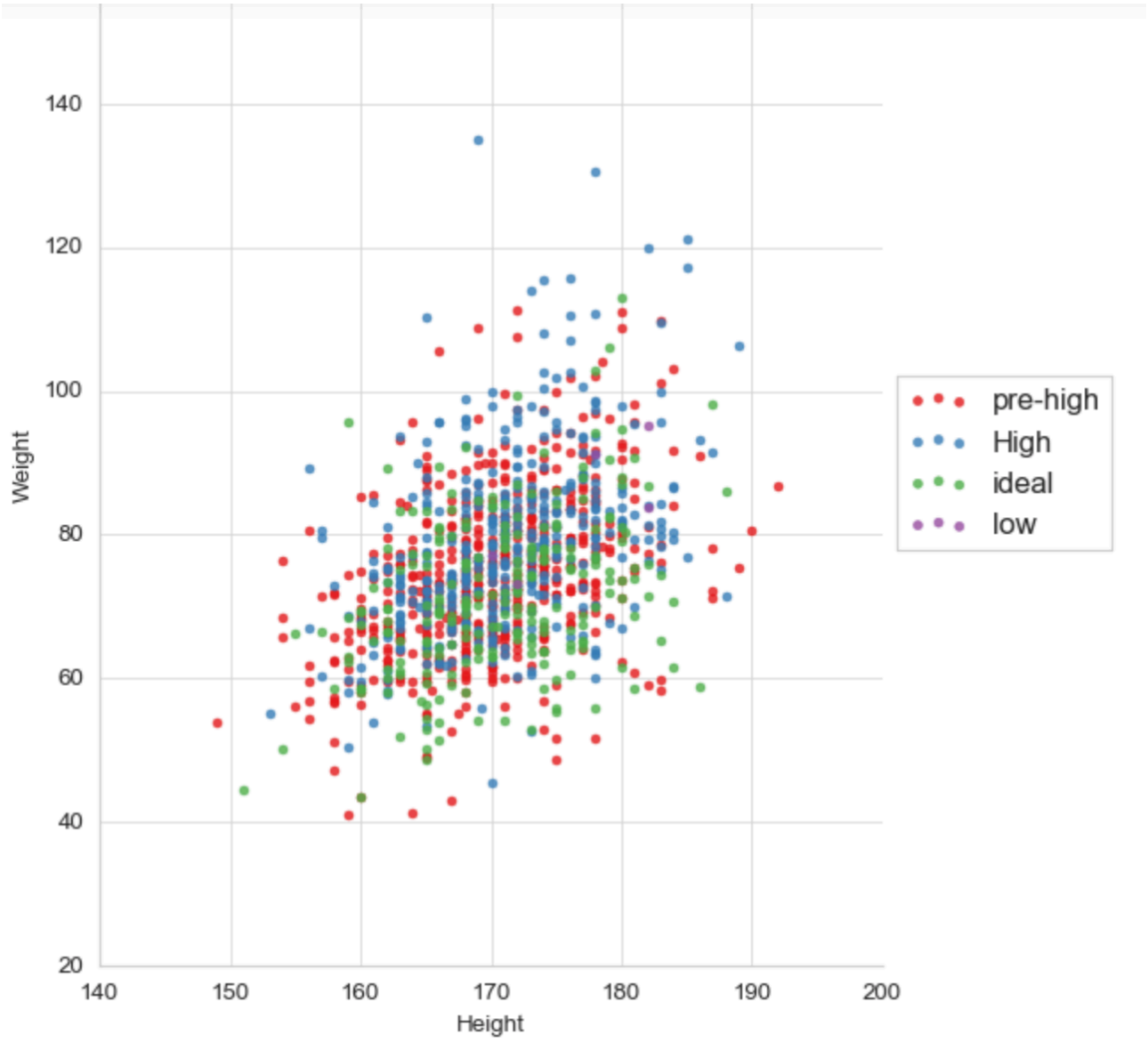
SCATTER PLOTS:

OVERALL:



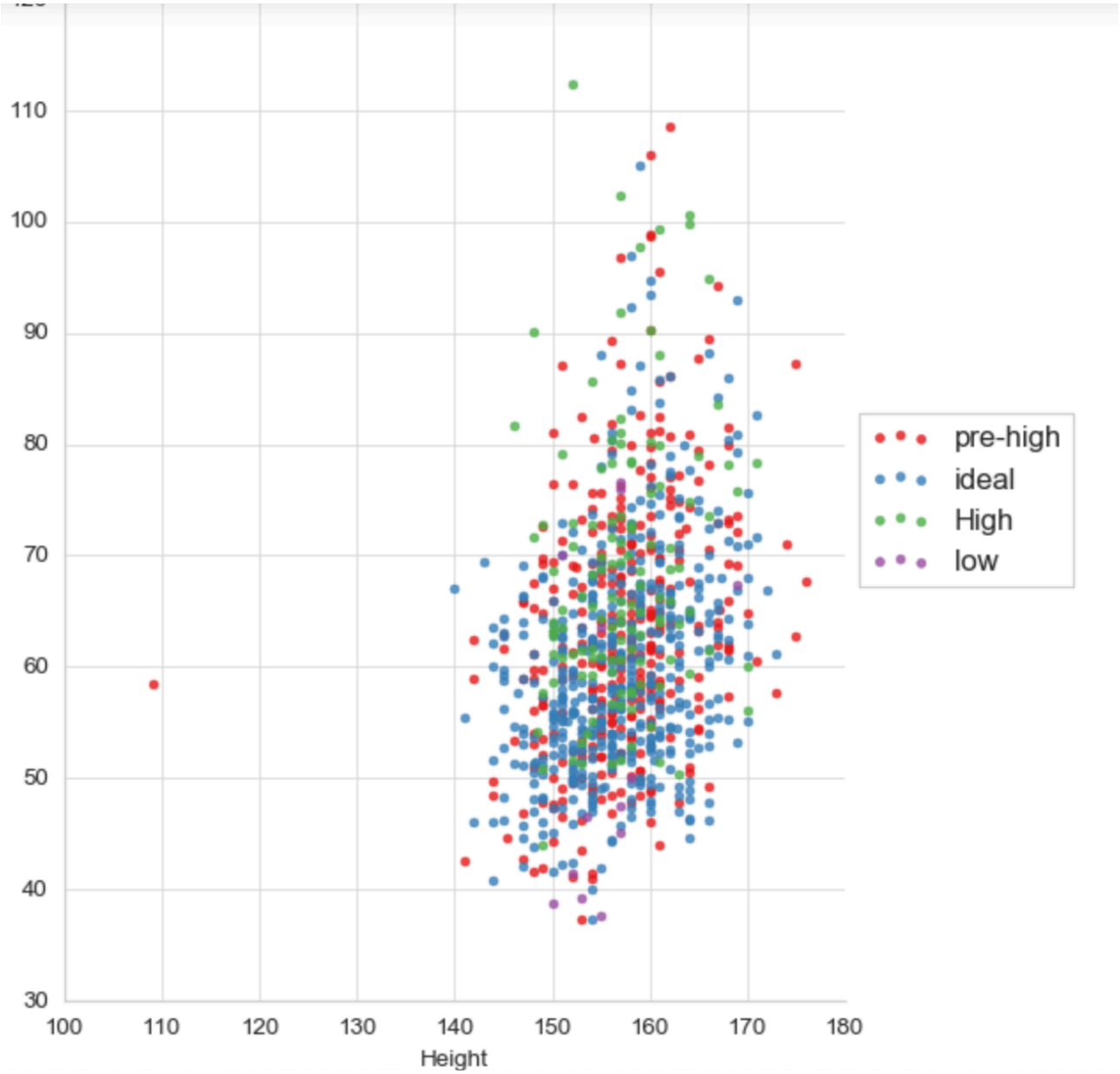
Note:The key colours are different for the plots.

ONLY MALES:



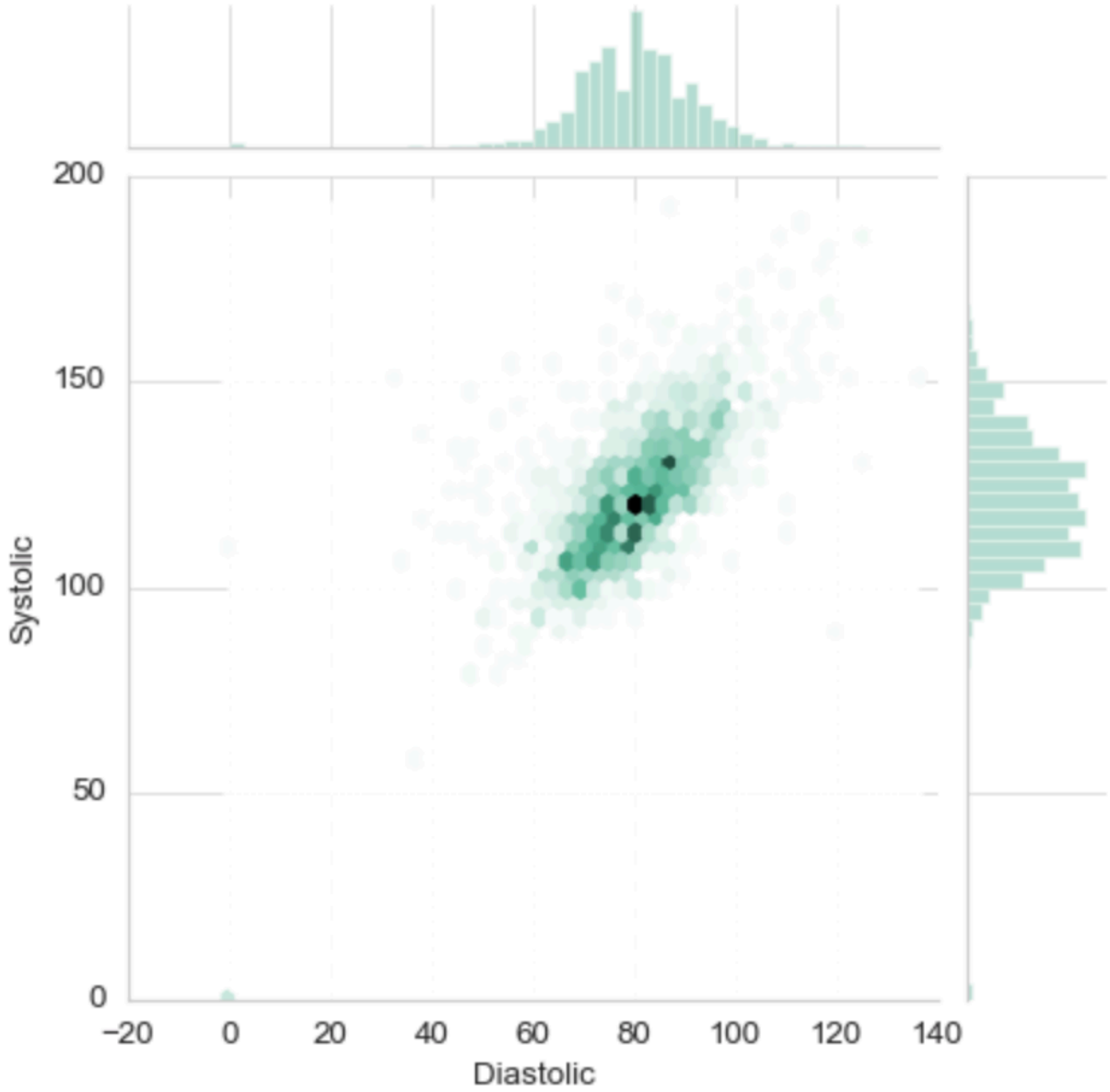
Note:The key colours are different for the plots.

ONLY FEMALES:



Note:The key colours are different for the plots.

DENSTIY PLOT:



Note:The darker the region Higher the number of people with that value.

SIMPLE STATISTICAL ANALYIS:

Paramter: Diastolic, Systolic
Median: 80.0 ,121.0
Mean: 79.90051618958236 ,122.12566870014078
Medain low: 80.0 ,121.0
Median high: 80.0 ,121.0
Median Grouped: 80.05940594059406 ,121.3157894736842
Mode: 80.0 ,120.0

Males Median: 83.0 ,127.0
Males Mean:) 82.77927548441448 ,127.56023588879528

Females Median: 76.0 ,114.0
Females Mean: 76.28072033898304 ,114.0

END