**QUANT I, FALL 2013**

**PROF. PATRICK EGAN**

**DISPLAYING DATA**

**A DATA TABLE (SOURCE: 2012 GENERAL SOCIAL SURVEY)**

**use gss.2012.sample.dta, clear**

**list partyid rincom06**

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| partyid rincom06 |

|---------------------------------------|

1. | strong democrat under $1 000 |

2. | strong democrat $40000 to 49999 |

3. | ind,near dem $5 000 to 5 999 |

4. | independent $12500 to 14999 |

5. | strong republica $7 000 to 7 999 |

|---------------------------------------|

6. | strong republica $150000 or over |

7. | not str democrat $12500 to 14999 |

8. | independent $90000 to $109999 |

9. | ind,near dem $8 000 to 9 999 |

10. | independent $17500 to 19999 |

|---------------------------------------|

11. | strong republica $20000 to 22499 |

12. | ind,near rep $35000 to 39999 |

13. | ind,near dem $17500 to 19999 |

14. | not str republic $5 000 to 5 999 |

15. | strong republica $90000 to $109999 |

|---------------------------------------|

16. | ind,near rep $40000 to 49999 |

17. | not str democrat $20000 to 22499 |

18. | ind,near rep $50000 to 59999 |

19. | strong republica $60000 to 74999 |

20. | not str democrat $30000 to 34999 |

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21. | not str democrat $35000 to 39999 |

22. | strong democrat $8 000 to 9 999 |

23. | independent $50000 to 59999 |

24. | ind,near dem $8 000 to 9 999 |

25. | not str republic $40000 to 49999 |

|---------------------------------------|

26. | independent $17500 to 19999 |

27. | not str democrat $12500 to 14999 |

28. | independent $25000 to 29999 |

29. | independent $7 000 to 7 999 |

30. | ind,near dem $130000 to $149999 |

|---------------------------------------|

31. | strong democrat $110000 to $129999 |

32. | strong democrat $60000 to 74999 |

33. | not str democrat $35000 to 39999 |

34. | ind,near rep $150000 or over |

35. | strong democrat $60000 to 74999 |

|---------------------------------------|

36. | ind,near dem $35000 to 39999 |

37. | strong republica $50000 to 59999 |

38. | ind,near dem $50000 to 59999 |

39. | independent $25000 to 29999 |

40. | strong republica $75000 to $89999 |

|---------------------------------------|

41. | strong democrat $40000 to 49999 |

42. | not str democrat $3 000 to 3 999 |

43. | strong democrat $25000 to 29999 |

44. | strong democrat $40000 to 49999 |

45. | strong republica $60000 to 74999 |

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46. | not str democrat $15000 to 17499 |

47. | not str republic $30000 to 34999 |

48. | independent $7 000 to 7 999 |

49. | not str democrat $1 000 to 2 999 |

50. | ind,near rep $40000 to 49999 |

|---------------------------------------|

51. | not str republic $35000 to 39999 |

52. | not str democrat $30000 to 34999 |

53. | not str republic $30000 to 34999 |

54. | not str democrat $90000 to $109999 |

55. | not str democrat $30000 to 34999 |

|---------------------------------------|

56. | not str republic $35000 to 39999 |

57. | strong democrat $20000 to 22499 |

58. | independent $10000 to 12499 |

59. | strong republica $50000 to 59999 |

60. | strong democrat $35000 to 39999 |

|---------------------------------------|

61. | ind,near rep $75000 to $89999 |

62. | independent $25000 to 29999 |

63. | independent $60000 to 74999 |

64. | independent $22500 to 24999 |

65. | not str democrat $30000 to 34999 |

|---------------------------------------|

66. | strong democrat $60000 to 74999 |

67. | strong republica $30000 to 34999 |

68. | not str democrat $60000 to 74999 |

69. | strong democrat $22500 to 24999 |

70. | ind,near rep $10000 to 12499 |

|---------------------------------------|

71. | independent $150000 or over |

72. | ind,near rep $40000 to 49999 |

73. | independent $40000 to 49999 |

74. | independent $25000 to 29999 |

75. | strong democrat $6 000 to 6 999 |

|---------------------------------------|

76. | independent $130000 to $149999 |

77. | strong democrat $10000 to 12499 |

78. | not str republic $40000 to 49999 |

79. | independent $17500 to 19999 |

80. | strong democrat $75000 to $89999 |

|---------------------------------------|

81. | not str republic $40000 to 49999 |

82. | independent $35000 to 39999 |

83. | ind,near rep $60000 to 74999 |

84. | strong republica $25000 to 29999 |

85. | independent $60000 to 74999 |

|---------------------------------------|

86. | not str republic $8 000 to 9 999 |

87. | not str democrat $25000 to 29999 |

88. | independent $17500 to 19999 |

89. | not str democrat $30000 to 34999 |

90. | independent $12500 to 14999 |

|---------------------------------------|

91. | not str republic $40000 to 49999 |

92. | not str republic $50000 to 59999 |

93. | not str democrat $60000 to 74999 |

94. | not str democrat $35000 to 39999 |

95. | ind,near dem $75000 to $89999 |

|---------------------------------------|

96. | not str republic $50000 to 59999 |

97. | independent $15000 to 17499 |

98. | strong democrat $60000 to 74999 |

99. | ind,near dem $150000 or over |

100. | ind,near dem $25000 to 29999 |

|---------------------------------------|

101. | not str republic $17500 to 19999 |

102. | ind,near dem $75000 to $89999 |

103. | strong republica $75000 to $89999 |

104. | independent $3 000 to 3 999 |

105. | strong democrat $12500 to 14999 |

|---------------------------------------|

106. | independent $20000 to 22499 |

107. | not str republic $20000 to 22499 |

108. | not str republic $20000 to 22499 |

109. | strong democrat $17500 to 19999 |

110. | not str republic $30000 to 34999 |

|---------------------------------------|

111. | ind,near dem $17500 to 19999 |

112. | not str democrat $30000 to 34999 |

113. | ind,near dem $35000 to 39999 |

114. | ind,near rep $5 000 to 5 999 |

115. | strong republica $22500 to 24999 |

|---------------------------------------|

116. | not str republic $40000 to 49999 |

117. | not str democrat $30000 to 34999 |

118. | not str democrat $12500 to 14999 |

119. | strong republica $6 000 to 6 999 |

120. | strong republica $10000 to 12499 |

|---------------------------------------|

121. | strong democrat $35000 to 39999 |

122. | not str republic $40000 to 49999 |

123. | ind,near dem $40000 to 49999 |

124. | not str republic $50000 to 59999 |

125. | strong democrat $17500 to 19999 |

|---------------------------------------|

126. | independent $30000 to 34999 |

127. | ind,near dem $40000 to 49999 |

128. | not str democrat $40000 to 49999 |

129. | strong democrat $5 000 to 5 999 |

130. | independent $40000 to 49999 |

|---------------------------------------|

131. | not str republic $25000 to 29999 |

132. | strong democrat $10000 to 12499 |

133. | independent $60000 to 74999 |

134. | independent $15000 to 17499 |

**FREQUENCY TABLES**

**. tab partyid**

political party |

affiliation | Freq. Percent Cum.

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strong democrat | 23 17.16 17.16

not str democrat | 22 16.42 33.58

ind,near dem | 15 11.19 44.78

independent | 29 21.64 66.42

ind,near rep | 10 7.46 73.88

not str republican | 20 14.93 88.81

strong republican | 15 11.19 100.00

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Total | 134 100.00

**. tab rincom06**

respondents income | Freq. Percent Cum.

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under $1 000 | 1 0.75 0.75

$1 000 to 2 999 | 1 0.75 1.49

$3 000 to 3 999 | 2 1.49 2.99

$5 000 to 5 999 | 4 2.99 5.97

$6 000 to 6 999 | 2 1.49 7.46

$7 000 to 7 999 | 3 2.24 9.70

$8 000 to 9 999 | 4 2.99 12.69

$10000 to 12499 | 5 3.73 16.42

$12500 to 14999 | 6 4.48 20.90

$15000 to 17499 | 3 2.24 23.13

$17500 to 19999 | 9 6.72 29.85

$20000 to 22499 | 6 4.48 34.33

$22500 to 24999 | 3 2.24 36.57

$25000 to 29999 | 9 6.72 43.28

$30000 to 34999 | 12 8.96 52.24

$35000 to 39999 | 11 8.21 60.45

$40000 to 49999 | 17 12.69 73.13

$50000 to 59999 | 8 5.97 79.10

$60000 to 74999 | 12 8.96 88.06

$75000 to $89999 | 6 4.48 92.54

$90000 to $109999 | 3 2.24 94.78

$110000 to $129999 | 1 0.75 95.52

$130000 to $149999 | 2 1.49 97.01

$150000 or over | 4 2.99 100.00

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Total | 134 100.00

**FREQUENCY TABLES showing scores, rather than values**

tab partyid, nolabel

political |

party |

affiliation | Freq. Percent Cum.

------------+-----------------------------------

0 | 23 17.16 17.16

1 | 22 16.42 33.58

2 | 15 11.19 44.78

3 | 29 21.64 66.42

4 | 10 7.46 73.88

5 | 20 14.93 88.81

6 | 15 11.19 100.00

------------+-----------------------------------

Total | 134 100.00

tab rincom06, nolabel

respondents |

income | Freq. Percent Cum.

------------+-----------------------------------

1 | 1 0.75 0.75

2 | 1 0.75 1.49

3 | 2 1.49 2.99

5 | 4 2.99 5.97

6 | 2 1.49 7.46

7 | 3 2.24 9.70

8 | 4 2.99 12.69

9 | 5 3.73 16.42

10 | 6 4.48 20.90

11 | 3 2.24 23.13

12 | 9 6.72 29.85

13 | 6 4.48 34.33

14 | 3 2.24 36.57

15 | 9 6.72 43.28

16 | 12 8.96 52.24

17 | 11 8.21 60.45

18 | 17 12.69 73.13

19 | 8 5.97 79.10

20 | 12 8.96 88.06

21 | 6 4.48 92.54

22 | 3 2.24 94.78

23 | 1 0.75 95.52

24 | 2 1.49 97.01

25 | 4 2.99 100.00

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Total | 134 100.00

**HISTOGRAM/BAR CHARTS**

**hist partyid, discrete xlabel(0(1)6,valuelabel angle(45)) aspect(.4) percent**



**hist rincom06, discrete xlabel(1(1)25,valuelabel angle(45)) aspect(.4) percent**



**RECODING VARIABLES**

\*recode partyid:

recode partyid (0/2 = 1) (4/6=5), generate(partyid3)

\*generate new value labels:

label def partyid3 1 "Democrat" 3 "Independent" 5 "Republican"

\*label the values:

label values partyid3 partyid3

\*label the recoded variable:

label var partyid3 “Party Affiliation (3 categories)”

\*recode income:

recode rincom06 (1/12 = 1) (13/18=2) (19/20=3) (21/22=4) (23/25=5), gen(income\_rec)

\*generate new value labels:

label def income\_rec 1 "<$20,000" 2 "$20,000-$49,999" 3 "$50,000 - $74,999" 4 "$75,000-$109999" 5"$110,000 or more"

\*label the values:

label values income\_rec income\_rec

\*label the recoded variable:

label var income\_rec “Income (recoded)”

**HISTOGRAM/BAR CHARTS WITH RECODED VARIABLES**

hist partyid3 if partyid3>0, discrete xlabel(1 3 5,valuelabel angle(45)) aspect(.7) percent



hist income\_rec, discrete xlabel(1(1)5,valuelabel angle(45)) aspect(.7) percent

