1. I accessed the dataset by going to one of the suggested websites and downloading:

Faith Communities Today Survey (FACT) 2010, Assemblies of God

No registration was required. I saved the dataset as a .csv file.

1. I uploaded the content to github and called it: Faith Communities Today Survey (FACT) 2010, Assemblies of God.
2. I imported the data into R using the read.csv function.
3. Variables in the dataset:

[1] "SAMPLE" "FRISERVE" "SATSERVE" "SUNAMSER" "SUNPMSER" "SERVICES" "FRIATT" "SATATT"

[9] "SUNAMATT" "SUNPMATT" "ATTENSUM" "ATTDIFF" "SIMSTYLE" "WORSHCH" "OTHLANG" "LANGLIST"

[17] "WORSH10" "WORSH09" "WORSH08" "WORSH07" "WORSH06" "WORSH05" "YRORG" "CHOIR"

[25] "ORGAN" "DRUMS" "ELECTRIC" "SCREEN" "KNEEL" "COMMUN" "KIDREAD" "REVERENT"

[33] "GODTHERE" "JOYFUL" "INNOVATE" "INSPIRE" "THOUGHT" "SSCHOOL" "PRAYER" "BIBSTUDY"

[41] "FELLOWSH" "MUSIC" "ADFORM" "RETREAT" "SUPPORTG" "COMMSERV" "PARENT" "YADULT"

[49] "YOUTHACT" "SPORTS" "RECRUIT" "EVENTS" "NOVISIT" "NOCONTAC" "BYMAIL" "BYPHONE"

[57] "BYEMAIL" "BYVISIT" "BYMATER" "SOUP\_N" "SOUP\_Y1" "SOUP\_Y2" "CASH\_N" "CASH\_Y1"

[65] "CASH\_Y2" "DCARE\_N" "DCARE\_Y1" "DCARE\_Y2" "TUTOR\_N" "TUTOR\_Y1" "TUTOR\_Y2" "HEALTH\_N"

[73] "HEALTHY1" "HEALTHY2" "COMORG\_N" "COMORGY1" "COMORGY2" "JOBED\_N" "JOBED\_Y1" "JOBED\_Y2"

[81] "FINED\_N" "FINED\_Y1" "FINED\_Y2" "OLDPRO\_N" "OLDPROY1" "OLDPROY2" "VOTEED\_N" "VOTEEDY1"

[89] "VOTEEDY2" "IMMIPRON" "IMMIPRY1" "IMMIPRY2" "GOODPRAY" "STUDYBIB" "GOODFAST" "GOODHOLY"

[97] "GOODVEG" "NOSHACK" "DEVOTION" "PARENTS" "EMAIL" "WEBSITE" "BLOGS" "FACEBOOK"

[105] "PODCASTS" "OTHTECH" "TECH1" "FAMILY" "VITAL" "NODIFF" "PURPOSE" "BEACON"

[113] "CHANGE" "WANTGROW" "BELIEFS" "OKDENOM" "DIVERSE" "JUSTICE" "THEOLIB" "NATAMS"

[121] "ASIANS" "PACIFICI" "BLACKS" "HISPANIC" "WHITE" "MULTI" "RACETOT" "RACEDIFF"

[129] "PCTBLACK" "PCTWHITE" "PCTHISP" "PCTASIAN" "PCTPACIS" "PCTNATAM" "PCTMULTI" "RACE"

[137] "SENIORS" "MIDDLEAG" "MEDADULT" "YADULTS" "KIDYTH" "CUMAGE" "MEMBERS" "EVERYONE"

[145] "FEMALES" "COLLEGE" "NEWMEMB" "LIFELONG" "NEARBY" "LEADTYPE" "ORDAINED" "CALL"

[153] "LEADAGE" "EMPLOY" "LEADSEX" "CLEGEDU" "LEADRACE" "LEADRAC2" "YEARCALL" "LEADWORS"

[161] "LEADVIS" "DOEVAN" "DOTRAIN" "DOCARE" "DOTEACH" "DOSMALL" "DOADMIN" "DOREPRES"

[169] "WORKYADS" "DEALARGU" "SPEGROUP" "YEARSMET" "MONTHMET" "FULLORD" "PARTORD" "FULLADM"

[177] "PARTADM" "FULLPROG" "PARTPROG" "FULLSEC" "PARTSEC" "FULLCUST" "PARTCUST" "FULLOTH"

[185] "PARTOTH" "MIXVOLS" "JOINT\_N" "JOINT\_Y1" "JOINT\_Y2" "CELEB\_N" "CELEB\_Y1" "CELEB\_Y2"

[193] "EDFEL\_N" "EDFEL\_Y1" "EDFEL\_Y2" "COMM\_N" "COMM\_Y1" "COMM\_Y2" "CONCASHN" "CONCASH1"

[201] "CONCASH2" "CONCASH3" "CONCASH4" "CONWORSN" "CONWORS1" "CONWORS2" "CONWORS3" "CONWORS4"

[209] "CONPROGN" "CONPROG1" "CONPROG2" "CONPROG3" "CONPROG4" "CONSYNNO" "CONSYN1" "CONSYN2"

[217] "CONSYN3" "CONSYN4" "CONLEADN" "CONLEAD1" "CONLEAD2" "CONLEAD3" "CONLEAD4" "CONLACTN"

[225] "CONLACT1" "CONLACT2" "CONLACT3" "CONLACT4" "CONMACTN" "CONMACT1" "CONMACT2" "CONMACT3"

[233] "CONMACT4" "CONFACNO" "CONFAC1" "CONFAC2" "CONFAC3" "CONFAC4" "BUDGET" "PCTSTAFF"

[241] "PCTBLDGR" "PCTPROG" "PCTMISS" "PCTOTHER" "FINTOTAL" "FINANCES" "FINAN05" "ECONOMY"

[249] "LAYOFFS" "PAYCUTS" "DELAYS" "INVEST" "MISSION" "CAPITAL" "COUNSEL" "CASHNEED"

[257] "HOUSNEED" "NOWORK" "PLACE" "SEATING" "WORSHSIZ" "PARKSIZ" "I\_ATTEND" "I\_SIZPLACE"

[265] "I\_THEOLOGY"

1. What is the structure of the data? Which variables are character and which are numeric? Str(\_\_\_)

'data.frame': 306 obs. of 265 variables:

$ SAMPLE : int 22 22 22 22 22 22 22 22 22 22 ...

$ FRISERVE : int 0 0 0 0 0 0 0 0 0 0 ...

$ SATSERVE : int 0 0 0 0 0 0 0 0 0 0 ...

$ SUNAMSER : num 1 2 1 1 1 2 2 1 1 1 ...

$ SUNPMSER : int 0 0 0 1 1 0 0 0 0 1 ...

$ SERVICES : int 1 2 1 2 2 2 2 1 1 2 ...

$ FRIATT : int 0 0 NA 0 NA 0 0 0 0 0 ...

$ SATATT : int 0 0 NA 0 NA 0 0 0 0 0 ...

$ SUNAMATT : int 135 225 NA 50 NA 600 75 55 65 45 ...

$ SUNPMATT : int 0 0 NA 18 NA 0 0 0 0 12 ...

$ ATTENSUM : int 135 225 NA 68 NA 600 75 55 65 57 ...

$ ATTDIFF : int 0 -1 NA -3 NA 0 0 0 -5 -7 ...

$ SIMSTYLE : int 2 2 1 2 2 2 4 1 3 3 ...

$ WORSHCH : int 3 3 1 2 3 3 3 3 4 1 ...

$ OTHLANG : int 1 1 1 1 1 2 2 1 1 1 ...

$ LANGLIST : chr "" "" "" "" ...

$ WORSH10 : int 135 224 166 65 160 600 75 55 60 50 ...

$ WORSH09 : int 130 224 NA 40 150 500 75 50 50 35 ...

$ WORSH08 : int 135 222 NA 30 185 500 75 50 40 30 ...

$ WORSH07 : int 115 190 NA 25 190 700 NA 40 20 45 ...

$ WORSH06 : int 120 178 NA 20 160 800 NA 35 NA 60 ...

$ WORSH05 : int 110 156 NA 20 200 800 NA 30 NA 75 ...

$ YRORG : int 1992 1979 NA 2003 1936 1948 NA 1991 NA 1997 ...

$ CHOIR : int 1 1 NA 1 1 4 1 1 1 1 ...

$ ORGAN : int 1 1 NA 1 1 1 3 1 1 1 ...

$ DRUMS : int 5 5 5 5 5 5 4 4 5 5 ...

$ ELECTRIC : int 5 5 5 3 5 5 4 5 5 3 ...

$ SCREEN : int 5 5 5 5 5 5 2 5 5 5 ...

$ KNEEL : int 4 2 3 3 5 3 4 1 1 1 ...

$ COMMUN : int 3 4 3 4 3 3 3 3 4 4 ...

$ KIDREAD : int 2 3 2 3 3 2 3 2 3 3 ...

$ REVERENT : int 3 3 NA 4 4 4 4 3 3 4 ...

$ GODTHERE : int 4 4 NA 5 4 4 4 4 4 4 ...

$ JOYFUL : int 4 4 5 5 3 3 4 4 5 5 ...

$ INNOVATE : int 3 3 NA 4 3 3 3 2 4 4 ...

$ INSPIRE : int 4 4 5 5 3 3 4 3 5 4 ...

$ THOUGHT : int 4 3 5 5 4 3 4 3 4 4 ...

$ SSCHOOL : int 3 2 3 1 2 1 4 1 2 1 ...

$ PRAYER : int 3 2 2 3 2 3 3 1 2 3 ...

$ BIBSTUDY : int 2 2 3 4 2 3 3 1 3 3 ...

$ FELLOWSH : int 2 2 2 3 3 2 4 2 3 3 ...

$ MUSIC : int 3 2 4 4 3 2 3 2 3 3 ...

$ ADFORM : int 3 2 3 4 3 2 2 1 1 3 ...

$ RETREAT : int 2 2 1 2 2 3 4 1 2 1 ...

$ SUPPORTG : int 1 2 1 1 1 1 1 1 1 3 ...

$ COMMSERV : int 2 3 2 2 2 3 2 2 1 3 ...

$ PARENT : int 1 2 2 1 1 2 2 1 1 1 ...

$ YADULT : int 2 2 2 1 2 2 2 1 3 2 ...

$ YOUTHACT : int 3 2 2 4 2 3 3 2 3 3 ...

$ SPORTS : int 1 1 1 1 1 2 1 2 1 1 ...

$ RECRUIT : int 3 4 3 5 2 3 3 2 4 4 ...

$ EVENTS : int 2 3 2 3 3 3 2 2 3 3 ...

$ NOVISIT : int 0 0 0 0 0 0 0 1 0 0 ...

$ NOCONTAC : int 0 0 0 0 0 0 0 0 0 0 ...

$ BYMAIL : int 1 1 1 1 1 1 0 0 1 1 ...

$ BYPHONE : int 1 1 1 1 0 1 1 0 1 1 ...

$ BYEMAIL : int 0 1 1 0 0 1 0 0 1 1 ...

$ BYVISIT : int 1 0 0 0 1 0 1 0 0 0 ...

$ BYMATER : int 1 0 0 1 0 1 1 0 1 0 ...

$ SOUP\_N : int 0 0 0 1 0 0 0 1 0 0 ...

$ SOUP\_Y1 : int 0 0 0 0 1 1 0 0 1 1 ...

$ SOUP\_Y2 : int 1 1 1 0 0 0 1 0 0 0 ...

$ CASH\_N : int 0 0 0 0 0 0 0 1 0 1 ...

$ CASH\_Y1 : int 0 1 1 1 1 1 1 0 1 0 ...

$ CASH\_Y2 : int 1 0 0 0 0 0 0 0 0 0 ...

$ DCARE\_N : int 1 1 0 1 1 1 1 1 0 1 ...

$ DCARE\_Y1 : int 0 0 1 0 0 0 0 0 1 0 ...

$ DCARE\_Y2 : int 0 0 0 0 0 0 0 0 0 0 ...

$ TUTOR\_N : int 1 1 1 1 1 1 1 1 1 1 ...

$ TUTOR\_Y1 : int 0 0 0 0 0 0 0 0 0 0 ...

$ TUTOR\_Y2 : int 0 0 0 0 0 0 0 0 0 0 ...

$ HEALTH\_N : int 1 1 1 1 1 1 1 1 1 1 ...

$ HEALTHY1 : int 0 0 0 0 0 0 0 0 0 0 ...

$ HEALTHY2 : int 0 0 0 0 0 0 0 0 0 0 ...

$ COMORG\_N : int 1 1 1 0 1 0 0 1 1 1 ...

$ COMORGY1 : int 0 0 0 1 0 1 1 0 0 0 ...

$ COMORGY2 : int 0 0 0 0 0 0 0 0 0 0 ...

$ JOBED\_N : int 1 1 1 1 1 1 1 1 1 1 ...

$ JOBED\_Y1 : int 0 0 0 0 0 0 0 0 0 0 ...

$ JOBED\_Y2 : int 0 0 0 0 0 0 0 0 0 0 ...

$ FINED\_N : int 1 1 0 0 1 0 1 1 0 0 ...

$ FINED\_Y1 : int 0 0 1 0 0 1 0 0 1 1 ...

$ FINED\_Y2 : int 0 0 0 1 0 0 0 0 0 0 ...

$ OLDPRO\_N : int 0 1 1 0 1 0 1 1 1 1 ...

$ OLDPROY1 : int 0 0 0 1 0 1 0 0 0 0 ...

$ OLDPROY2 : int 1 0 0 0 0 0 0 0 0 0 ...

$ VOTEED\_N : int 0 1 1 1 1 0 1 1 1 1 ...

$ VOTEEDY1 : int 1 0 0 0 0 1 0 0 0 0 ...

$ VOTEEDY2 : int 0 0 0 0 0 0 0 0 0 0 ...

$ IMMIPRON : int 1 1 1 1 1 0 1 1 1 1 ...

$ IMMIPRY1 : int 0 0 0 0 0 1 0 0 0 0 ...

$ IMMIPRY2 : int 0 0 0 0 0 0 0 0 0 0 ...

$ GOODPRAY : int 4 3 5 5 4 3 4 4 4 4 ...

$ STUDYBIB : int 4 3 5 5 4 4 5 4 4 4 ...

$ GOODFAST : int 3 3 4 2 3 3 NA 3 2 3 ...

$ GOODHOLY : int 3 3 3 2 4 2 1 2 3 4 ...

$ GOODVEG : int 1 1 1 1 1 1 1 1 1 1 ...

$ NOSHACK : int 5 4 4 3 4 1 3 5 5 4 ...

$ DEVOTION : int 4 3 4 5 4 3 1 4 3 3 ...

[list output truncated]

1. Describe the data through Central Tendencies:
   1. Sunday AM services:

Mean: 1.176471 Median: 1 Mode: 1

* 1. Sunday PM services:

Mean: 0.2745098 Median: 0 Mode: 0

* 1. Friday services:

Mean: 0.07843137 Median: 0 Mode: 0

* 1. Saturday services:

Mean: 0.0751634 Median: 0 Mode: 1

* 1. All services:

Mean: 1.604575 Median: 1 Mode: 1

1. Describe the data through variation:

Sunday AM Service:

Variance: 0.3425265

Range: 0-4

SD: 0.5852577

Histogram:



Box-plot:



Stem-leaf plot:

The decimal point is 1 digit(s) to the left of the |

0 | 000000000000000000

2 |

4 |

6 |

8 |

10 | 00000000000000000000000000000000000000000000000000000000000000000000+147

12 |

14 |

16 |

18 |

20 | 000000000000000000000000000000000000000000000000000

22 |

24 |

26 |

28 |

30 | 000000000

32 |

34 |

36 |

38 |

40 | 0