R to LaTeX / HTML

Example of output

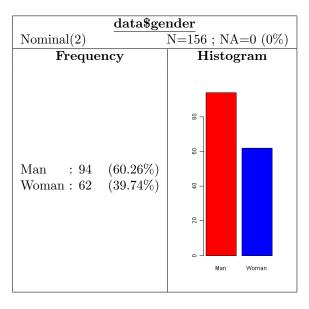
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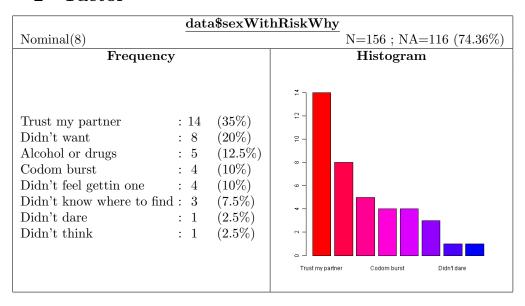
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$\begin{array}{c} {\rm Part\ I} \\ {\bf r2latexUniv} \end{array}$

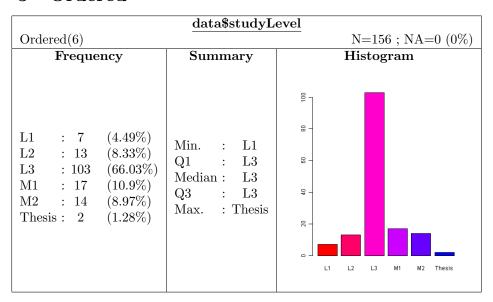
1 Logical



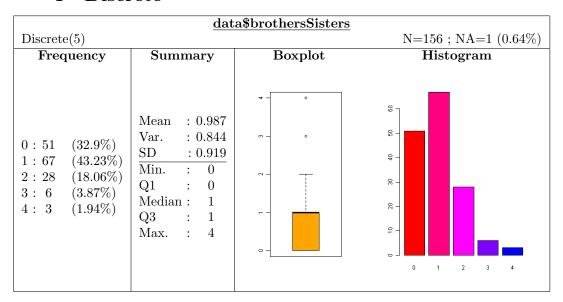
2 Factor



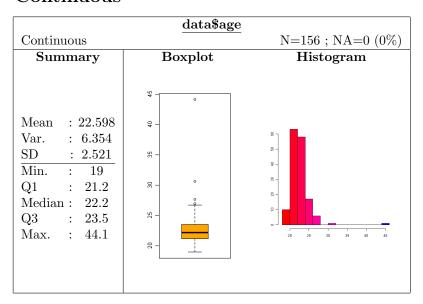
3 Ordered



4 Discrete



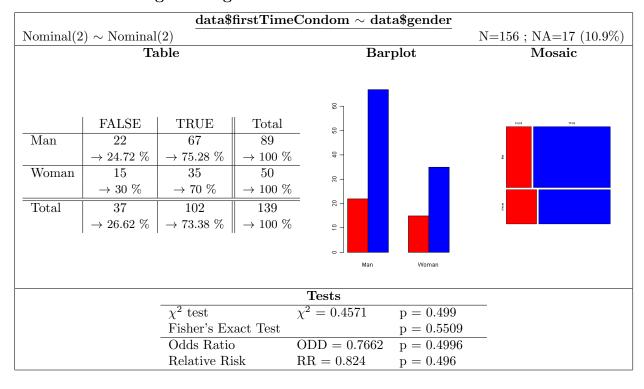
5 Continuous



$\begin{array}{c} {\bf Part~II} \\ {\bf r2latexBiv} \end{array}$

6 Logical

6.1 Logical \sim Logical



$6.2 \quad Logical{\sim} Factor$

		${f Condom} \sim {f d}$	lata\$native							
$Nominal(2) \sim Nominal(12)$				N=156; NA=31 (19.87%)						
	Table			${f Mosaic}$						
	FALSE	TRUE	Total							
Argenteuil	0	1	1							
	$\rightarrow 0 \%$	\rightarrow 100 %	\rightarrow 100 %							
Autre	10	38	48							
	\rightarrow 20.83 %	\rightarrow 79.17 %	$\rightarrow 100 \%$							
Boulogne Billancourt	1	1	2							
Doulogho Dinancourt	\rightarrow 50 %	\rightarrow 50 %	$\rightarrow 100 \%$							
Colombes	0	7	7							
Colonibes	$\rightarrow 0 \%$	$\rightarrow 100 \%$	$\rightarrow 100 \%$							
Courbevoie	0	8	8							
Courbevole	_			Passe your						
0 0 1 1	→ 0 %	→ 100 %	→ 100 %	77/08						
Garenne Colombes	0	2	2	es p						
	→ 0 %	→ 100 %	→ 100 %							
Nanterre	1	2	3							
	\rightarrow 33.33 %	\rightarrow 66.67 %	\rightarrow 100 %	100						
Neuilly	2	3	5	1						
	\rightarrow 40 %	\rightarrow 60 %	\rightarrow 100 %	water and the state of the stat						
Paris	14	16	30							
	\rightarrow 46.67 %	\rightarrow 53.33 %	\rightarrow 100 %							
Poissy	0	3	3							
	$\rightarrow 0 \%$	\rightarrow 100 %	\rightarrow 100 %							
Saint Germain en Laye	2	6	8							
v	\rightarrow 25 $\%$	\rightarrow 75 %	$\rightarrow 100 \%$							
Suresnes	2	6	8							
	\rightarrow 25 $\%$	$\rightarrow 75~\%$	$\rightarrow 100 \%$							
Total	32	93	125							
Total	$\rightarrow 25.6 \%$	\rightarrow 74.4 %	$\rightarrow 100 \%$							
	→ 25.0 / ₀		→ 100 /0							
		Barplot								
, s										
98										
72										
8 -										
25 -										
·										
- 1		_								
v –	vo –									
ا ا		<u></u> ı	.	.						
	Argenteuil Boulogne Billancourt Courbevoie Nanterre Paris Poissy Suresnes									
		Tests								
$\chi^2 \text{ tes}$	<u> </u>	$\frac{\text{rests}}{\chi^2 = 16.08}$	$555 ext{ p} = 0.$	1201						
. •		<i>/</i> C	1							
rısner	's Exact Test		p = 0.	1094						

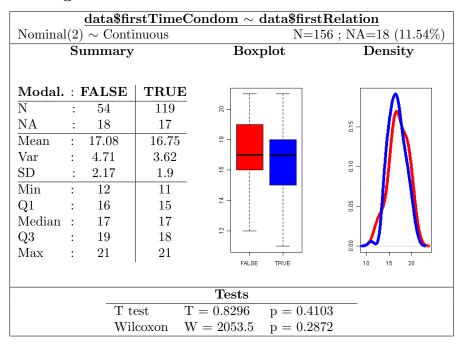
$\mathbf{6.3}\quad \mathbf{Logical}{\sim}\mathbf{Ordered}$

	red(9)						NA=25 (16.03%)
	Table					Summar	\mathbf{y}
	FALSE	TRUE	Total				
Never	13	18	31				
	\rightarrow 41.94 %	\rightarrow 58.06 %	\rightarrow 100 %				
Very rarely	2	12	14				
	\rightarrow 14.29 %	\rightarrow 85.71 %	\rightarrow 100 %				
Rarely	1	9	10				
	\rightarrow 10 %	\rightarrow 90 %	\rightarrow 100 %				
Occasionally	1	5	6	N/L1-1		DATCD	_ TDITE
	\rightarrow 16.67 %	\rightarrow 83.33 %	\rightarrow 100 %			FALSE	TRUE
Sometimes	6	9	15	Q1	:	Never	Never
	\rightarrow 40 %	\rightarrow 60 %	\rightarrow 100 %	Q2	:	Never	Very rarely
Often	3	4	7	Q3		ccasionally	Sometimes
	\rightarrow 42.86 %	\rightarrow 57.14 %	\rightarrow 100 %	Q4	:	Often	Very frequent
Frequently	4	15	19	Q5	:	Always	Always
	\rightarrow 21.05 %	\rightarrow 78.95 %	\rightarrow 100 %				
Very frequently	2	9	11				
	\rightarrow 18.18 %	\rightarrow 81.82 %	\rightarrow 100 %				
Always	2	16	18				
	\rightarrow 11.11 %	$\rightarrow 88.89 \%$, 100.07				
	→ 11.11 /0		\rightarrow 100 %				
Total	34	97	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				
Total							
Total	34	$\begin{array}{c} 97 \\ \rightarrow 74.05 \% \end{array}$	131			Mosaic	
	34 → 25.95 % Barplo	97 → 74.05 %	131 → 100 %		rum han na n	Mosaic	776
	34 $\rightarrow 25.95 \%$ Barplo	$97 \rightarrow 74.05 \%$	131 → 100 %		an a	Mosaic	
	$34 \rightarrow 25.95 \%$ Barplo $\sqrt{\chi^2 \text{ test}}$	$97 \rightarrow 74.05 \%$	131 → 100 %			Mosaic	775
	$34 \rightarrow 25.95 \%$ Barplo $\sqrt{\chi^2 \text{ test}}$	$97 \rightarrow 74.05 \%$	131 → 100 %	p = 0.1	1759	Mosaic	776

$6.4 \quad Logical {\sim} Discrete$

		data\$fi	rstTimeCo	$\sim ext{data}$	firstRelation		
Nomin	$al(2) \sim$	Discrete(11)				5; NA=18	(11.54%)
	()	` /	able			Summary	<u> </u>
		FALSE	TRUE	Total		~ c	
	11	0	1	1			
		$\rightarrow 0 \%$	\rightarrow 100 %	\rightarrow 100 %			
	12	1	0	1			
		\rightarrow 100 %	$\rightarrow 0 \%$	\rightarrow 100 %			
	13	2	0	2			
		\rightarrow 100 %	$\rightarrow 0 \%$	\rightarrow 100 %			
	14	1	11	12	Modal.	: FALSE	TRUE
		ightarrow 8.33 %	\rightarrow 91.67 %	\rightarrow 100 %	$\overline{\mathrm{N}}$: 54	119
	15	3	16	19	NA	: 18	17
		\rightarrow 15.79 %	\rightarrow 84.21 %	\rightarrow 100 %	3.5	: 17.08	16.75
	16	7	20	27	Var	: 4.71	3.62
		\rightarrow 25.93 $\%$	$\rightarrow 74.07~\%$	\rightarrow 100 %	SD	: 2.17	1.9
	17	7	20	27	3.51	: 12	11
		$\rightarrow 25.93~\%$	$\rightarrow 74.07~\%$	\rightarrow 100 %	Q1	: 16	15
	18	4	14	18	Median		17
		$\rightarrow 22.22~\%$	\rightarrow 77.78 %	\rightarrow 100 %	Q3	: 19	18
	19	6	11	17	Max	: 21	21
		$\rightarrow 35.29~\%$	\rightarrow 64.71 %	\rightarrow 100 %			
	20	4	7	11			
		$\rightarrow 36.36~\%$	\rightarrow 63.64 %	\rightarrow 100 %			
	21	1	2	3			
		\rightarrow 33.33 %	\rightarrow 66.67 %	\rightarrow 100 %			
	Total	36	102	138			
		$\rightarrow 26.09~\%$	$\rightarrow 73.91~\%$	\rightarrow 100 %			
		Ba	arplot			Mosaic	
0 6 10 15 20	11 12	13 14 15	16 17 18	19 20 21	#NOTE 1	1702	
		- 2 ,		Tests	0.0000		
		χ^2 test	Errort Test	$\chi^2 = 13.4312$	p = 0.2006		
			Exact Test	T = 0.000c	p = 0.2404		
		T test Wilcoxo	n	T = 0.8296 W = 2053.5	p = 0.4103 p = 0.2872		
		VV HCOXO	11	vv = 2000.0	p = 0.2872		

$6.5 \quad Logical {\sim} Continuous$



7 Factor (3 and +)

$7.1 \quad Factor {\sim} Logical$

	${\tt data\$area \sim data\$gender}$							
Nominal(3) $\sim \overline{\text{Nominal}(2)}$ N=156; NA=0 (0%)								
Table								
	Law	Math	Sport	Total				
Man	17	9	68	94				
	$\rightarrow 18.09~\%$	\rightarrow 9.57 %	\rightarrow 72.34 %	$\rightarrow 100 \%$				
Woman	5	4	53	62				
	$\rightarrow 8.06~\%$	\rightarrow 6.45 %	\rightarrow 85.48 %	$\rightarrow 100 \%$				
Total	22	13	121	156				
	\rightarrow 14.1 $\%$	\rightarrow 8.33 %	\rightarrow 77.56 %	$\rightarrow 100 \%$				
	Barplot		Mos	saic				
0 10 20 30 40 50 60	an W	oman	4	Guet				
m .								
2.2.1	Tests							
	χ^2 test $\chi^2 = 3.9293$ p = 0.1402 Fisher's Exact Test p = 0.1589							
Fisher	s exact les	_Մ	$\mathbf{p}=0.$	1999				

7.2 Factor \sim Factor

$\underline{\mathbf{data\$area} \sim \mathbf{data\$nativeTown}}$								
Nominal(3) \sim Nominal(12) N=156; NA=16 (10.26%)								
	Tal		I a .	II				
	Law	Math	Sport	Total				
Argenteuil	0	0	2	2				
	→ 0 %	→ 0 %	→ 100 %	→ 100 %				
Autre	9	5	40	54				
D. I. Dill	→ 16.67 %	$\rightarrow 9.26 \%$	→ 74.07 %	→ 100 %				
Boulogne Billancourt	0	0	2	2				
	→ 0 %	→ 0 %	→ 100 %	→ 100 %				
Colombes	0	0	7	7				
	→ 0 %	→ 0 %	→ 100 %	→ 100 %				
Courbevoie	1	1	6	8				
	\rightarrow 12.5 %	\rightarrow 12.5 %	\rightarrow 75 %	→ 100 %				
Garenne Colombes	1	0	1	2				
	→ 50 %	→ 0 %	$\rightarrow 50 \%$	→ 100 %				
Nanterre	2	0	2	4				
	$\rightarrow 50 \%$	→ 0 %	$\rightarrow 50 \%$	$\rightarrow 100 \%$				
Neuilly	0	0	5	5				
	→ 0 %	→ 0 %	→ 100 %	\rightarrow 100 %				
Paris	5	5	24	34				
	\rightarrow 14.71 %	\rightarrow 14.71 %	\rightarrow 70.59 %	\rightarrow 100 %				
Poissy	0	0	4	4				
	→ 0 %	→ 0 %	→ 100 %	\rightarrow 100 %				
Saint Germain en Laye	1	0	8	9				
	\rightarrow 11.11 %	→ 0 %	\rightarrow 88.89 %	\rightarrow 100 %				
Suresnes	2	0	7	9				
	\rightarrow 22.22 %	$\rightarrow 0 \%$	\rightarrow 77.78 %	$\rightarrow 100 \%$				
Total	21	11	108	140				
	\rightarrow 15 %	\rightarrow 7.86 %	$\rightarrow 77.14~\%$	\rightarrow 100 %				
Barp	lot			Mosaic				
4 7								
_			E LANCE	quet				
8-								
	_		The Control					
- 38			in the second se					
_			1 2					
e-1 <u> </u>			The second secon					
.]								
Argenteuil Boulogne Billancourt Garenne Color	nbes Neuilly Paris F	Poissy Suresnes						
Tests								
χ^2 test		= 16.6294 p						
Fisher's Exac	Fisher's Exact Test $p = 0.918$							

7.3 Factor \sim Ordered

${\bf data\$area \sim data\$useCondom}$												
Nominal(3) \sim Ord	Nominal(3) \sim Ordered(9) N=156; NA=21 (13.46%)											
	Table Summary											
	Law	Math	Sport	Total								
Never	6	3	25	34								
	$\rightarrow 17.65~\%$	\rightarrow 8.82 %	\rightarrow 73.53 %	\rightarrow 100 %								
Very rarely	2	2	10	14								
	$\rightarrow 14.29~\%$	\rightarrow 14.29 %	\rightarrow 71.43 %	\rightarrow 100 %								
Rarely	0	1	9	10								
	$\rightarrow 0 \%$	\rightarrow 10 %	\rightarrow 90 %	\rightarrow 100 %								
Occasionally	2	2	3	7	Moda	al. : Law	Math	Sport				
	\rightarrow 28.57 %	\rightarrow 28.57 %	\rightarrow 42.86 %	\rightarrow 100 %			Never	Never				
Sometimes	0	0	15	15	Q1		Very rarely	Very rarely				
	$\rightarrow 0 \%$	$\rightarrow 0 \%$	\rightarrow 100 %	\rightarrow 100 %	Q2 $Q3$: Never : Occasionally	Occasionally	Sometimes				
Often	1	1	5	7	Q_4	: Frequently	Frequently	Frequently				
	\rightarrow 14.29 %	\rightarrow 14.29 %	\rightarrow 71.43 %	\rightarrow 100 %	Q_5	: Always	Always	Always				
Frequently	3	2	14	19	$Q_{\mathcal{O}}$. Always	Aiways	Aiways				
	\rightarrow 15.79 %	\rightarrow 10.53 %	\rightarrow 73.68 %	\rightarrow 100 %								
Very frequently	3	1	7	11								
	$\rightarrow 27.27~\%$	\rightarrow 9.09 %	\rightarrow 63.64 %	\rightarrow 100 %								
Always	2	1	15	18								
	\rightarrow 11.11 %	\rightarrow 5.56 %	\rightarrow 83.33 %	\rightarrow 100 %								
Total	19	13	103	135								
	$\rightarrow 14.07~\%$	\rightarrow 9.63 %	\rightarrow 76.3 %	\rightarrow 100 %								
	E	Barplot				M	osaic					
7.5												
- 30						Lav stop	Sport					
						leca .						
5 -		_				Auc I I I						
						Post in Spirit						
e -	_					00 Edward (10 mm)						
			_			Va and say on a second						
- 2						1 Appropri						
							<u> </u>					
ا ا												
Never Ve	Never Very rarely Rarely Occasionally Offen Frequently Always											
	Tests											
		χ^2 test		$\chi^2 = 14.10$		= 0.5908						
			Exact Test		_	= 0.4303						
		ANOVA		F = 0.110	-	=0.8956						
		Kruskal	-Wallis (y x)	K = 0.194	5 p	= 0.9073						

7.4 Factor \sim Discrete

${\tt data\$area \sim data\$firstRelation}$											
Nominal(3) \sim Discrete(11) N=156; NA=16 (10.26%)											
	Table Summary										
	Law	Math	Sport	Total							
11	0	1	0	1							
	$\rightarrow 0 \%$	\rightarrow 100 %	$\rightarrow 0 \%$	$\rightarrow 100 \%$							
12	0	0	1	1							
	$\rightarrow 0 \%$	→ 0 %	\rightarrow 100 %	$\rightarrow 100 \%$							
13	0	1	1	2							
	$\rightarrow 0 \%$	\rightarrow 50 %	\rightarrow 50 %	$\rightarrow 100 \%$							
14	3	0	9	12	Modal. : Law	Math	Sport				
	\rightarrow 25 %	$\rightarrow 0 \%$	\rightarrow 75 %	$\rightarrow 100 \%$	N : 22	13	121				
15	0	4	16	20	NA : 1	0	15				
	$\rightarrow 0 \%$	\rightarrow 20 %	\rightarrow 80 %	$\rightarrow 100 \%$	$\overline{\text{Mean}}$: 17.33	15.77	16.87				
16	5	2	20	27	Var : 4.33	4.86	3.58				
	\rightarrow 18.52 %	\rightarrow 7.41 %	\rightarrow 74.07 %	$\rightarrow 100 \%$	SD : 2.08	2.2	1.89				
17	4	3	20	27	Min : 14	11	12				
	\rightarrow 14.81 %	\rightarrow 11.11 %	\rightarrow 74.07 %	$\rightarrow 100 \%$	Q1 : 16	15	15.25				
18	2	0	16	18	Median : 17	16	17				
	\rightarrow 11.11 %	$\rightarrow 0 \%$	\rightarrow 88.89 %	$\rightarrow 100 \%$	Q3 : 19	17	18				
19	3	2	13	18	Max : 21	19	21				
	\rightarrow 16.67 %	\rightarrow 11.11 %	\rightarrow 72.22 %	$\rightarrow 100 \%$		1	'				
20	3	0	8	11							
	\rightarrow 27.27 %	$\rightarrow 0 \%$	\rightarrow 72.73 %	$\rightarrow 100 \%$							
21	1	0	2	3							
	\rightarrow 33.33 %	$\rightarrow 0 \%$	$\rightarrow 66.67~\%$	$\rightarrow 100 \%$							
Total	21	13	106	140							
	\rightarrow 15 %	\rightarrow 9.29 %	\rightarrow 75.71 %	$\rightarrow 100 \%$							
		Barplot			Mo	saic					
700		1	ı								
£ –		Ш	ш			EX.	syert				
5 10		Ш	Ш	•							
=-	_	. 🚺 📶 📗		_	8						
1	11 12 13	14 15 16	17 18 19	20 21							
			Т	ests							
	_	χ^2 test		= 27.5279	p = 0.1211						
		Fisher's Exac		- 21.0213	p = 0.1211 p = 0.1899						
		ANOVA		= 2.6416	p = 0.1899 p = 0.0749 .						
		Kruskal-Wall		= 2.0410 = 3.8993	p = 0.0749 . $p = 0.1423$						
		iri abixai- vvali	$y \wedge y \wedge$	_ 0.0000	P = 0.1420						

7.5 Factor~Continuous

Nominal(3) ~ Continuous N=156 ; NA=16 (10.26%)	$ ext{data\$area} \sim ext{data\$firstRelation}$								
Modal.: Law Math Sport N	` /		NA=16 (10.26%)						
N : 22 13 121 NA : 1 0 15 Mean : 17.33 15.77 16.87 Var : 4.33 4.86 3.58 SD : 2.08 2.2 1.89 Min : 14 11 12 Q1 : 16 15 15.25 Median : 17 16 17 Q3 : 19 17 18 Max : 21 19 21 Boxplot Boxplot Densities Tests	Summary								
NA : 1 0 15 Mean : 17.33 15.77 16.87 Var : 4.33 4.86 3.58 SD : 2.08 2.2 1.89 Min : 14 11 12 Q1 : 16 15 15.25 Median : 17 16 17 Q3 : 19 17 18 Max : 21 19 21 Boxplot Densities									
Mean : 17.33 15.77 16.87 Var : 4.33 4.86 3.58 SD : 2.08 2.2 1.89 Min : 14 11 12 Q1 : 16 15 15.25 Median : 17 16 17 Q3 : 19 17 18 Max : 21 19 21 Boxplot Densities									
Var : 4.33 4.86 3.58 SD : 2.08 2.2 1.89 Min : 14 11 12 Q1 : 16 15 15.25 Median : 17 16 17 Q3 : 19 17 18 Max : 21 19 21 Boxplot Densities									
SD : 2.08 2.2 1.89 Min : 14 11 12 Q1 : 16 15 15.25 Median : 17 16 17 Q3 : 19 17 18 Max : 21 19 21 Boxplot Densities		$33 \mid 15.77$	16.87						
Min : 14									
Q1 : 16 15 15.25 Median : 17 16 17 18 Max : 21 19 21 Boxplot	SD : 2.0	08 2.2							
Median : 17	$\overline{\mathrm{Min}}$: 14	4 11	12						
Q3 : 19 17 18 21 Boxplot									
Max : 21 19 21 Boxplot Densities Tests		7 16	17						
Boxplot Densities Tests		9 17	18						
Tests		1 19	21						
Tests	Boxplot	D	ensities						
Tests									
Tests									
Tests		0.20	Λ						
Tests	"								
Tests	œ - L	9116	//						
Tests			<i>III</i>						
Tests	6 -	6]	<i> </i>						
Law Math Sport 12 16 20 24		o							
Law Math Sport 12 16 20 24	4 1	10	/						
Law Math Sport 12 16 20 24		8 -	/ W						
Law Math Sport 12 16 20 24 Tests	2								
Tests									
	Law Math Sport 12 16 20 24								
±	ANOVA	F = 2.6416	1						
Kruskal-Wallis (y x) $K = 3.8993$ $p = 0.1423$	Kruskal-Wallis (y x)	K=3.8993	p = 0.1423						

8 Ordered

$8.1 \quad Ordered{\sim}Logical$

	(lata\$howLongToge	ther	$\sim ext{data\$gend}$	der						
Ordered(4	$\sim Nominal(2)$				N=156 ; NA=	=56 (35.9%)					
Table											
	Less than a week	Less than a month	Less	than a year	More thant a year	Total					
Man	0	4		15	45	64					
	→ 0 %	\rightarrow 6.25 %	_	→ 23.44 %	\rightarrow 70.31 %	\rightarrow 100 %					
Woman	0	2		9	25	36					
	→ 0 %	\rightarrow 5.56 %		\rightarrow 25 %	\rightarrow 69.44 %	\rightarrow 100 %					
Total	0	6		24	70	100					
	$\rightarrow 0 \%$	\rightarrow 6 %		\rightarrow 24 $\%$	\rightarrow 70 %	\rightarrow 100 %					
			rtiles								
	Mod			Woma							
	$\overline{\mathrm{Q}}1$: Less than a m		Less than a							
	Q2	: Less than a y		Less than							
	Q3	: More thant a		More thant							
	Q4	: More thant a		More thant							
	Q5	: More thant a	year	More thant							
	Barplot			M	losaic						
Barplot Mosaic											
	Man Woma	1									
	-		sts	NT NT NT							
		$\chi^2 \text{ test}$ $\chi^2 = \text{Nal}$		= NaN N	A						
		ANOVA $F = 2e-04$	a p	= 0.9889							

$8.2 \quad Ordered{\sim}Factor$

${\tt data\$howLongTogether} \sim {\tt data\$area}$											
Ordered	$(4) \sim \text{Nominal}(3)$			N=156 ; NA=	=56 (35.9%)						
			Table								
	Less than a week	Less than a mon	· · ·	More thant a year	Total						
Law	0	0	3	9	12						
	→ 0 %	→ 0 %	$\begin{array}{c} \rightarrow 25 \% \\ \hline 2 \end{array}$	\rightarrow 75 %	\rightarrow 100 %						
Math	0	0	_	9	11						
	→ 0 %	→ 0 %	→ 18.18 %	\rightarrow 81.82 %	\rightarrow 100 %						
Sport	0	6	19	52	77						
	→ 0 %	→ 7.79 %	\rightarrow 24.68 %	\rightarrow 67.53 %	$\rightarrow 100 \%$						
Total	0	6	24	70	100						
	$\rightarrow 0 \%$	\rightarrow 6 %	\rightarrow 24 %	\rightarrow 70 %	$\rightarrow 100 \%$						
		(Quartiles								
	$\underline{\mathbf{Modal.}}$:	Law	Math	Sport							
		Less than a year	Less than a year	Less than a month							
		Less than a year	More than a year	Less than a year							
		More thant a year	More than a year	More thant a year							
		More thant a year	More thant a year	More thant a year							
	-	More thant a year	More thant a year	More thant a year							
	Barp	lot		Mosaic							
-											
8 -				H COSEGURATE SANT SANT BOOK SANCEYARE							
				g ::							
- 38											
- 28				u di							
₽ -											
•] _											
	Law Math Sport										
	Tests										
	$\frac{1 \text{ ests}}{\chi^2 \text{ test} \chi^2 = \text{NaN} \text{p} = \text{NaN} \text{NA}}$										
			0.8939 p = 0.4124	-·-*							
			1								

8.3 Ordered \sim Ordered

	data\$hov	LongTogeth	$ m er \sim d$	ata\$trans\	VithC	ondom			
$Ordered(4) \sim C$	Ordered(3)					N=156 ; NA=	=61 (39.1%)		
			Table						
	Less than a week	Less than a	month	Less than	a year	More thant a year	Total		
Yes	0	0		7		23	30		
	→ 0 %	$\rightarrow 0 \%$)	$\rightarrow 23.33$	%	$\rightarrow 76.67~\%$	\rightarrow 100 %		
Do not know	0	0	1			2	3		
	→ 0 %	$\rightarrow 0 \%$)	$\rightarrow 33.33$	%	\rightarrow 66.67 %	\rightarrow 100 %		
No	0	3		16		43	62		
	→ 0 %	$\rightarrow 4.84$	%	$\rightarrow 25.81$	%	\rightarrow 69.35 %	$\rightarrow 100 \%$		
Total		0 3		24		68	95		
	→ 0 %			$\rightarrow 25.26$	%	$\rightarrow 71.58~\%$	$\rightarrow 100 \%$		
			Quarti						
	Modal. :	Yes		not know		No			
		than a year		than a year	1	than a month			
		thant a year	1	than a year		ss than a year			
	-	thant a year	1	thant a year		ore thant a year			
	-	thant a year More thant a year				re thant a year			
	$\frac{Q5}{\mathbf{Barplot}} : \mathbf{More}$	thant a year	More	thant a year	Moi	e thant a year Mosaic			
Yes	Do not know	No			# 1	Sin Baltines			
			Tests	3					
	χ^2 test		$\chi^2 = N$	aN p =	NaN	NA			
	Fisher's l	Exact Test			0.7801				
	Kruskal-V	Wallis (y x)	K = 0.7	7176 p =	0.6985				
			K = 1.7		0.4217				
	Cor Pear		$\rho_P = -0$	-	0.3091				
	Cor Spea	rman	$\rho_S = -0$	0.0834 p =	0.4218	<u> </u>			

8.4 Ordered \sim Discrete

	${\tt data\$howLongTogether} \sim {\tt data\$brothersSisters}$										
Ordere	$ed(4) \sim$	Discrete(5)	awnow Long rogern	er - dataphrotner	-	NA=57 (36.54%)					
	(-)	(-)	r	Table		(33.32,0)					
		Less than a week	Less than a month	Less than a year	More thant a year	Total					
	0	0	2	8	25	35					
		$\rightarrow 0 \%$	\rightarrow 5.71 %	\rightarrow 22.86 %	\rightarrow 71.43 %	\rightarrow 100 %					
	1	0	3	10	28	41					
		$\rightarrow 0 \%$	\rightarrow 7.32 %	\rightarrow 24.39 %	\rightarrow 68.29 %	\rightarrow 100 %					
	2	0	1	3	14	18					
		→ 0 %	\rightarrow 5.56 %	\rightarrow 16.67 %	→ 77.78 %	→ 100 %					
	3	0	0	2	2	4					
		→ 0 %	→ 0 %	→ 50 %	→ 50 %	→ 100 %					
	4	0	0	1	0	1					
:		→ 0 %	→ 0 %	→ 100 %	→ 0 %	→ 100 %					
	Total	0	6	24	69	99					
		→ 0 %	→ 6.06 %	→ 24.24 %	\rightarrow 69.7 %	→ 100 %					
Moda	.1 .	0	Qi 1	uartiles 2	3	4					
$\frac{\text{Moda}}{\text{Q1}}$		-	Less than a month	Less than a month	Less than a year	Less than a year					
Q_2		ess than a year	Less than a year	More than a year	Less than a year	Less than a year					
\overrightarrow{Q}_3			More thant a year	More thant a year	Less than a year	Less than a year					
Q4		ž l	More thant a year	More thant a year	More thant a year	Less than a year					
$\overline{\mathrm{Q5}}$			More thant a year	More thant a year	More thant a year	Less than a year					
		Barplot	J	V	Mosaic	J					
0 5 10 15 20 25	20 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0										
		χ^2 te		$egin{array}{ll} \hline ext{Fests} \\ = ext{NaN} & ext{p} = ext{Na} \end{array}$	aN NA						
		, ,	er's Exact Test	p = 0.6							
		ANO		= 0.424 $p = 0.6$							
				= 0.219 $p = 0.8$							
			(0)	= 2.9669 $p = 0.5$							
			· · · ·	p = -0.0419 $p = 0.6$	6804						
		Cor S NA	Spearman ρ_S	= -0.0295 $p = 0.7$	7723						

8.5 Ordered \sim Continuous

	${ m data\$howLongTogether} \sim { m data\$firstRelation}$										
$Ordered(4) \sim Cor$				N=156; $NA=59$ (37.82%)							
		Summa									
Modal.	: Less than a week	Less than a mont	h Less than a year	More thant a year							
$\overline{ m N}$: 56	62	80	126							
NA	: 56	57	57	57							
Mean	: NaN	16	17.57	16.57							
Var	: NA	2	4.44	3.87							
SD	: NA	1.41	2.11	1.97							
$\overline{\mathrm{Min}}$: NA	14	13	11							
Q1	: NA	16	16	15							
Median	: NA	16	18	17							
Q3	: NA	16	19	18							
Max	: NA	18	21	20							
	Boxplot		Sca	atter plot							
Density	Less than a week Less than a year QQplot (Ord.)	QQplot (Cont.)	07 07 07 07 07 07 07 07 07 07 07 07 07 0	Tests							
500 000 000 000 000 000 000 000 000 000	9;	21 - 2 0 2	Kruskal-Wallis (y x) Cor Pearson	$\begin{array}{cccccccccccccccccccccccccccccccccccc$							

9 Discrete

$9.1 \quad Discretel{\sim} Logical$

			${ m sSisters}$	$\sim {f data\$gend}$						
Discrete(5	$\sim Nominal$	(2)			N=156 ; NA	=1 (0.64%)				
			Table							
	0	1	2	3	4	Total				
Man	30	45	12	5	1	93				
	\rightarrow 32.26 %	\rightarrow 48.39 %	\rightarrow 12.9 %	$5 \rightarrow 5.38 \%$	$\rightarrow 1.08 \%$	\rightarrow 100 %				
Woman	21	22	16	1	2	62				
	\rightarrow 33.87 %	\rightarrow 35.48 %	\rightarrow 25.81 $\%$	$\%$ $\rightarrow 1.61 \%$	\rightarrow 3.23 %	$\rightarrow 100 \%$				
Total	51	67	28	6	3	155				
	\rightarrow 32.9 %	\rightarrow 43.23 %	\rightarrow 18.06 %		\rightarrow 1.94 %	$\rightarrow 100 \%$				
			Summar							
			. : Man	Woman						
		N	: 94	62						
		NA	: 1	0						
		Mean	: 0.95	1.05						
		Var	: 0.77	0.96						
		$\frac{\text{SD}}{\text{N}}$: 0.88	0.98						
		Min	: 0	0						
		Q1	: 0	0						
		Median		1						
		Q3 Max	: 1 : 4	$\frac{2}{4}$						
	Barj		: 4	4	Mosaic					
	Darj	5100			Wiosaic					
			(D) 4							
	- 2 ,	L	Tests	1400	1000					
	χ^2 test		$\chi^2 = 7.$	-						
	T test	's Exact Test	T = -0.	p = 0.1						
	T test Wilcox	zon	1 = -0. W = 27							
	VV IICOX	2011	vv = ZI	$\Delta 0.0 \mathbf{p} = 0.6$	7400					

9.2 Discrete \sim Factor

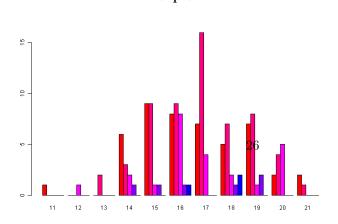
${\bf data\$brothersSisters \sim data\$area}$												
Discrete(5) \sim Nominal	(3)					N=156 ; N	A=1 (0.64%)				
			Ta	ble								
	0	1	2			3	4	Total				
Law	7	11	2			1	1	22				
	$\rightarrow 31.82~\%$	\rightarrow 50 %	$\rightarrow 9.0$	9 %	\rightarrow	4.55~%	$\rightarrow4.55~\%$	\rightarrow 100 %				
Math	4	7	2			0	0	13				
	\rightarrow 30.77 %	$\rightarrow 53.85~\%$	$\rightarrow 15.$		_	→ 0 %	\rightarrow 0 %	\rightarrow 100 %				
Sport	40	49	24			5	2	120				
	\rightarrow 33.33 %	\rightarrow 40.83 %	$\rightarrow 20$		\rightarrow	4.17~%	\rightarrow 1.67 %	$\rightarrow 100 \%$				
Total	51	67	28	3	6		3	155				
	\rightarrow 32.9 %	$\rightarrow 43.23~\%$				3.87~%	\rightarrow 1.94 $\%$	\rightarrow 100 %				
	Summary											
		Modal. :		Mat	h	Sport						
		N :		13		121						
		\overline{NA} :	0	0		1						
		Mean :	-	0.85		1						
			1.05	0.47		0.86						
			1.02	0.69)	0.93						
		Min :	-	0		0						
		Q1 :	0	0		0						
		Median :	1	1		1						
		Q3 :	1	1		2						
		Max :	4	2		4	3.6	•				
		Barplot					IVI	osaic				
10 20 30 40		_					3					
	Law	Math		Sport								
			Te									
	χ^2 tes		, .	= 3.6	724	-						
		's Exact Test				p = 0						
	ANOV			= 0.16		p = 0						
	Krusk	al-Wallis (y x	() K	= 0.16	32	p = 0	.9216					

9.3 Discrete \sim Ordered

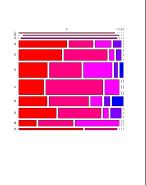
		hersSisters	\sim data\$tra			44 (= 0=04
$\text{Discrete}(5) \sim \text{Or}$	rdered(3)			N	N=156 ; NA=	=11 (7.05%
ı	_		Table	_		
	0	1	2	3	4	Total
Yes	17	18	8	2	0	\parallel 45
	\rightarrow 37.78 %	\rightarrow 40 $\%$	\rightarrow 17.78 %	$\rightarrow 4.44~\%$	$\rightarrow 0 \%$	$\parallel \rightarrow 100 \%$
Do not know	0	4	1	0	0	5
	$\rightarrow 0 \%$	\rightarrow 80 %	\rightarrow 20 %	$\rightarrow 0 \%$	$\rightarrow 0 \%$	$\rightarrow 100 \%$
No	32	38	18	4	3	95
	\rightarrow 33.68 %	\rightarrow 40 %	\rightarrow 18.95 %	\rightarrow 4.21 $\%$	$\rightarrow 3.16 \%$	$\rightarrow 100 \%$
Total	49	60	27	6	3	145
Total	$\rightarrow 33.79 \%$	$\rightarrow 41.38 \%$	$\rightarrow 18.62 \%$	\rightarrow 4.14 %	$\rightarrow 2.07 \%$	$\parallel \rightarrow 100 \%$
	→ 55.19 70			→ 4.14 7 ₀	\rightarrow 2.07 %	$\parallel \rightarrow 100 \%$
	N.σ		ummary	TAT		
		dal. : Yes	Do not kn			
	N	: 55	15	106		
	NA		10	11		
	Mea		1.2	1.03		
	Var		0.2	0.99		
	SD	: 0.86	0.45	0.99		
	Mir	n : 0	1	0		
	Q1	: 0	1	0		
	Med	dian : 1	1	1		
	Q3	: 1	1	2		
	Max	x : 3	2	4		
		rplot	I .		Mosa	ic
0 5 10 15 20 25 30 35	Do	o not know	No		The state of the s	
Yes						
Yes	v^2 test		Tests $v^2 = 5.5931$	p = 0.60	27	
Yes	$-\frac{\chi^2 \text{ test}}{\text{Fisher's F}}$	exact Test	Tests $\chi^2 = 5.5931$	p = 0.69 p = 0.70		
Yes	Fisher's E	exact Test	$\chi^2 = 5.5931$	p = 0.70	91	
Yes	Fisher's E ANOVA		$\chi^2 = 5.5931$ $F = 0.4747$	p = 0.70 p = 0.62	91 31	
Yes	Fisher's E ANOVA Kruskal-V	Vallis (y x)	$\chi^2 = 5.5931$ $F = 0.4747$ $K = 1.188$	p = 0.70 $p = 0.62$ $p = 0.55$	91 31 21	
Yes	Fisher's E ANOVA Kruskal-V Kruskal-V	Vallis (y x) Vallis (x y)	$\chi^2 = 5.5931$ $F = 0.4747$ $K = 1.188$ $K = 1.6382$	p = 0.70 $p = 0.62$ $p = 0.55$ $p = 0.80$	91 31 21 19	
Yes	Fisher's E ANOVA Kruskal-V	Vallis (y x) Vallis (x y) on	$\chi^2 = 5.5931$ $F = 0.4747$ $K = 1.188$	p = 0.70 $p = 0.62$ $p = 0.55$ $p = 0.80$ $p = 0.42$	91 31 21 19 45	

9.4 Discrete \sim Discrete

		$ ext{data\$brothersSisters} \sim ext{data\$firstRelation}$												
Discrete($(5) \sim \text{Disc}$	crete	(11)							N=	156; N	NA=	-17	(10.9%)
					Tal	ole								
	0		1		2			3			4		Γ	Otal
11	1		0		0			0			0			1
	$\rightarrow 100$	%	$0 \rightarrow 0$	%	$\frac{\rightarrow 0.9}{1}$	6		$\begin{array}{c} \rightarrow 0 \% \\ \hline 0 \end{array}$		$\rightarrow 0 \%$			\rightarrow	100 %
12	0				1			0		0				1
	$\rightarrow 0 \%$		$\rightarrow 0$	%	\rightarrow 100 %			$\rightarrow 0 \%$			$\rightarrow 0 \%$		\rightarrow	100 %
13	0		2		0			U			0			2
	$\rightarrow 0 \%$		$\rightarrow 100$	%	0%			$\frac{\rightarrow 0 \%}{1}$			$\frac{\rightarrow 0 \%}{0}$		\rightarrow	100 %
14	6		3								0			12
	$\rightarrow 50\%$	6	$\rightarrow 25$	%	$\rightarrow 16.67$	7 %	-	→ 8.33 °	%		$\rightarrow 0 \%$		\rightarrow	100 %
15	9		9		1			1			0			20
	$\rightarrow 45\%$	6	$\rightarrow 45~\%$		$\frac{\rightarrow 5\%}{8}$	6		$\frac{\rightarrow 5 \%}{1}$			$\rightarrow 0 \%$		\rightarrow	100 %
16	8		9								1			27
	$\rightarrow 29.63$	%	$\rightarrow 33.3$	3 %	$\rightarrow 29.63$	3 %	-	$\rightarrow 3.7 \%$	0	-	→ 3.7 %		\rightarrow	100 %
17	7		16		4			0			0			27
	$\rightarrow 25.93$	%	$\rightarrow 59.2$	6 %	\rightarrow 14.81 $\%$			$\begin{array}{c} \rightarrow 0 \% \\ \hline 1 \end{array}$			$\frac{\rightarrow 0 \%}{2}$		\rightarrow 100 %	
18	5		7		2								17	
	$\rightarrow 29.41$	%	$\rightarrow 41.1$	8 %	→ 11.76 %		_	→ 5.88 %		\rightarrow	11.76 %	%	\rightarrow	100 %
19	7		8		1			2			0			18
	$\rightarrow 38.89$	%			$\rightarrow 5.56$	%	_	→ 11.11	%	→ 0 %			\rightarrow	100 %
20	2		4		5			0		0				11
	$\rightarrow 18.18$	%	$\rightarrow 36.3$	6 %	\rightarrow 45.45 %		→ 0 %					\rightarrow	100 %	
21	2		1		0		0		0			3		
	$\rightarrow 66.67$	%	$\rightarrow 33.3$	3 %	$\rightarrow 0$ %	6		$\frac{\rightarrow 0 \%}{6}$			$\rightarrow 0 \%$		$\rightarrow 100 \%$	
Total	47		59		24			6			3		139	
	$\rightarrow 33.81$	%	$\rightarrow 42.4$	5 %	$\rightarrow 17.27$	7 %	-	$\rightarrow 4.32$	%	\rightarrow	2.16 %	o	\rightarrow	100 %
					Sumr	nary	y							
	al.: 11	12		14	15	16		17		.8	19	20	- 1	21
N	: 17	17	18	28	36	43		43		34	34	2'	- 1	19
NA	: 16	16	16	16	16	16		16		7	16	10		16
Mean	: 0	2	1	0.83	0.7	1.1		0.89		29	0.89	1.2		0.33
Var	: NA	NA		1.06	0.64	1.0		0.41		72	0.93	0.6	- 1	0.33
SD	: NA	NA		1.03	0.8	1.0		0.64		31	0.96	0.7		0.58
Min	: 0	2	1	0	0	0		0		0	0	0	- 1	0
Q1	: 0	2	1	0	0	0		0.5		0	0	1	- 1	0
Media		2	1	0.5	1	1		1		1	1	1		0
Q3	: 0	2	1	1.25	1	2		1		2	1	2	- 1	0.5
Max	: 0	2	1	3	3	4		2		4	3	2		1
			Barı	olot							N	Mos	aic	



 χ^2 test



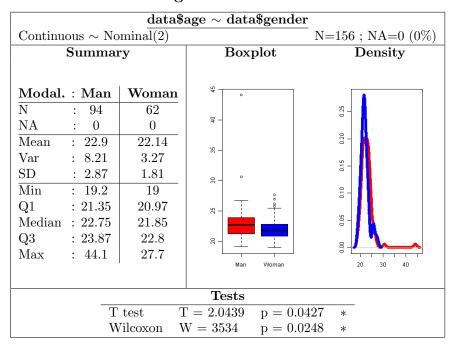
Tests $\chi^2 = 42.5044$ p = 0.3637

9.5 Discrete \sim Continuous

	dat	ta\$brotl	nersSist	$ers \sim c$	lata\$ag	e			
Discrete(5) \sim Continu	uous					_	N=156; $NA=1$ (0.64%)		
			Summ						
	Modal.		1	2	3	4			
	N	: 52	68	29	7	4			
	NA	: 1	1	1	1	1			
	Mean	: 22.39	23.02	22.19	23.07	20.3			
	Var	: 3.62	10.42	2.58	1.02	0.13			
	$\frac{\mathrm{SD}}{\mathrm{Min}}$: 1.9	3.23	1.61	1.01	$\frac{0.36}{20}$			
	Q1	: 19 : 21.35	19.3 21.35	19.1 21.17	$21.2 \\ 22.85$	$\frac{20}{20.1}$			
	Median		22.3	22.2	23.4	20.1			
	Q3	: 23.4	23.9	22.9	23.73	20.25			
	Max	: 27.7	44.1	25.8	23.9	20.40			
	Boxplot	. 21.1	11.1	20.0	20.0		Scatter plot		
	Donplot					_	protection protection		
ر د –									
4	0								
04 -									
						*- 00			
- 38						m	° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °		
						~ - * * * * * * * * * * * * * * * * * *	ço° e		
8-1	0					00 00 0	0.89		
	÷ + .								
- 25						- 0,0,0	**************************************		
- 58	-			20 25 30 35 40 45					
	<u> </u>								
	0 1 2 3 4								
	00.1.(0.1)	0.1.	~ \						
Density	QQplot (Ord.) Q	Qplot (Cont.)	Tests					
2-	47 — and	6 -	٩						
6: -		8 -							
8. –	m - •	50		ANC	17.1		F = 1.4269 $p = 0.2278$		
		- 35			kal-Wall	ic (x x)			
8-	~ -	8 -	۰		Pearson	пэ (у х)	$K = 8.86$ $p = 0.0647$. $\rho_P = -0.0442$ $p = 0.5849$		
4: -			٥		Spearma	ın	$\rho_S = -0.0442$ p = 0.3849 $\rho_S = -0.0146$ p = 0.8569		
		- 25			-Pearine	VII	ρ ₅ = 0.0110		
- 03			7						
8-17-	o ->	8-							
18 22 26 30	-2 0 2	-2 0	2						

10 Continuous

$10.1 \quad Continuousl {\sim} Logical$



10.2 Continuous \sim Factor

$ ext{data\$age} \sim ext{data\$area}$										
Continuous $\sim \overline{\text{Nor}}$	ninal(3)	N=	=156 ; NA=0	(0%)						
	Sumi									
Modal.	: Law	Math	Sport							
N	: 22	13	121							
NA	: 0	0	0							
Mean	: 22.31	24.34	22.46							
Var	: 2.44	38.78	3.54							
SD	: 1.56	6.23	1.88							
Min	: 19.7	20.2	19							
Q1	: 21.35	20.9	21.2							
Median	: 22.25	22.8	22.2							
Q3	: 23.03	24.8	23.5							
Max	: 26.2	44.1	30.6							
Boxplot		I	$\mathbf{Density}$							
25 - 0		9								
		0.25	A							
9 -		0750	M I							
		0								
88 -		0.15								
8-		0.10	/ \							
			/ //							
`` <u> </u>		0.05								
8 7 7	-	. /								
		8 -								
Law Math Spor	t	18	20 22 24 26 28							
	Tes	sts								
ANOVA		= 3.5265	p = 0.0318	3 *						
Kruskal-Wallis (y		= 0.6014	p = 0.0316 p = 0.7403							
111 dollar Trailis ()	11) 11 -	0.0011	P = 0.1406	,						

 $10.3 \quad Continuous {\sim} Ordered$

	dat	a $sage \sim dat$	a\$transWithCo	ndom	
Continuous \sim Ord	ered(3)				N=156; $NA=10$ (6.41%)
			ımmary		
		dal.: Yes	Do not know	No	
	N	: 55	15	106	
	NA	: 10	10	10	
	Mea		21.82	22.47	
	Var	: 2.62	4.4	3.6	
	$\frac{\mathrm{SD}}{\mathrm{N}}$: 1.62	2.1	1.9	
	Min		20.6	19.1	
	Q1 Mari	: 21.5	20.6	21.2	
		lian : 22.3	20.8	22.2	
	Q3 Mar	: 23.7	21.6	23.42	
	Boxplot Max	: 26.2	25.5	30.6	Scatter plot
	рохыог				Scatter plot
	۰				
	8 -				
	78			3.0	
	•			10	∞
	- 56			- 25	
	45			- 50	% .
				5 -	
				5 - 6	
					20 25 30 35 40 45
	Yes Do not know No				
Density	QQplot (Cont.)	QQplot (O	rd.)		Tests
	8 —		1		
9.9		08 -			
- A	8 -				
4.0		- 55			
- 33	8 –		ANOVA		F = 0.3014 $p = 0.7402$
_ ĭ		- 5.0	Kruskal-V		
- 52	8 -		Cor Pear		$ \rho_P = 0.0102 \text{p} = 0.9027 $
	ا 🌯	6 –	Cor Spea	rman	$\rho_S = -0.0269$ p = 0.7476
2-	- 79	_]			
 	8-				
8-27-1		÷ -			
18 22 26	-2 0 2	-2 0 2			

$10.4 \quad Continuous {\sim} Discrete$

	${\bf data\$age \sim data\$firstRelation}$												
Continuous	$\sim \text{Discrete}(11)$		_							N=156	5; NA=16 (10	.26%)	
					Sum	mary							
	Modal.: 11	12	13	14	15	16	17	18	19	20	21		
	N : 17	17	18	28	36	43	43	34	34	27	19		
	NA : 16	16	16	16	16	16	16	16	16	16	16		
	Mean : 20.9	22.4	23.7	22.01	24.41	22.2	22.3	23.15	22.25	22.41	23.5		
	Var : NA	NA	5.12	1.44	26.58	3.17	2.74	3.95	2.41	1.92	13.24		
	SD : NA	NA	2.26	1.2	5.16	1.78	1.66	1.99	1.55	1.39	3.64		
	Min : 20.9	22.4	22.1	19.6	20.2	19.2	19.5	20.2	20.4	21.2	21.3		
	Q1 : 20.9	22.4	22.9	21.15	21.78	21	21.25	22	21.12	21.5	21.4		
	Median : 20.9	22.4	23.7	22.15	23.15	22.1	22.2	22.95	21.8	21.7	21.5		
	Q3 : 20.9	22.4	24.5	23.2	24.4	23.45	23.45	23.9	23.32	22.95	24.6		
	Max : 20.9	22.4	25.3	23.3	44.1	26.7	25.8	27	25.9	25.8	27.7		
	Box	xplot							Scatte	er plot			
45 —	0				_								
94 -									8 0				
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