# Thesis Survey Data analysis

#### Ashkan Taravati

This data analysis is conducted using the R language and the data is stored in a .csv file.

#### Session Info:

```
## R version 3.6.3 (2020-02-29)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Linux Mint 20.3
##
## Matrix products: default
          /usr/lib/x86_64-linux-gnu/blas/libblas.so.3.9.0
## LAPACK: /usr/lib/x86_64-linux-gnu/lapack/liblapack.so.3.9.0
##
## locale:
## [1] LC_CTYPE=en_US.UTF-8
                               LC_NUMERIC=C
                                                       LC_TIME=en_US.UTF-8
## [4] LC COLLATE=en US.UTF-8 LC MONETARY=az IR
                                                       LC MESSAGES=en US.UTF-8
## [7] LC_PAPER=az_IR
                                                       LC ADDRESS=C
                               LC NAME=C
## [10] LC_TELEPHONE=C
                               LC_MEASUREMENT=az_IR
                                                       LC IDENTIFICATION=C
##
## attached base packages:
## [1] stats
                graphics grDevices utils
                                              datasets methods
                                                                  base
##
## other attached packages:
## [1] GGally_2.1.2 ggplot2_3.3.5
## loaded via a namespace (and not attached):
## [1] Rcpp 1.0.8.3
                         plyr 1.8.6
                                             pillar_1.7.0
                                                                compiler 3.6.3
## [5] RColorBrewer_1.1-2 tools_3.6.3
                                             digest_0.6.29
                                                                evaluate_0.15
## [9] lifecycle 1.0.1 tibble 3.1.6
                                             gtable 0.3.0
                                                                pkgconfig 2.0.3
## [13] rlang_1.0.2
                          cli_3.2.0
                                             yaml_2.3.5
                                                                xfun_0.30
## [17] fastmap_1.1.0
                          withr_2.5.0
                                             stringr_1.4.0
                                                                dplyr_1.0.8
## [21] knitr_1.38
                         generics_0.1.2
                                             vctrs_0.3.8
                                                                grid_3.6.3
## [25] tidyselect 1.1.2 reshape 0.8.8
                                             glue 1.6.2
                                                                R6 2.5.1
## [29] fansi 1.0.2
                          rmarkdown 2.13
                                             purrr_0.3.4
                                                                magrittr 2.0.2
## [33] scales 1.1.1
                          ellipsis_0.3.2
                                             htmltools 0.5.2
                                                                colorspace_2.0-3
                          stringi_1.7.6
## [37] utf8_1.2.2
                                             munsell_0.5.0
                                                                crayon_1.5.0
```

#### Dataset

#### Aggregated data from teams that participated

##		team	org	team_size	response_rate	response_count	age	tenure
##	1	VxWVZXy	qX0d3XD	3	0.67	2	26.00	7.00
##	2	OlvA1P1	ml4MwXj	4	0.75	3	25.33	6.00
##	3	5xOnMXW	oXoqeP0	3	1.00	3	24.00	4.00
##	4	J1Bq3PN	Kl3zeP6	4	0.75	3	25.00	2.00

	_				_		_	_		
##		rX1wnPb			6	0.8			29.20	4.00
##		5xOnqXW			3	0.6			29.50	9.50
##		KPjegx7	•		4	0.7			24.33	3.00
	8	WXzOpPm	-		4	0.7			28.67	4.67
	9	zP7KKP8	-		6	0.6			24.00	3.75
##		5P88oP9	_		7	0.8			26.50	6.42
##		4xdmYPE			3	1.0			29.67	8.33
##		YXmyDXN	-		3	0.6			25.00	3.00
##		DPpkGx8	-		4	0.7			23.00	1.67
##		8xNAJXm			5	1.0			23.80	5.00
##		ml4MwXj			5	0.8			22.75	4.00
##		gxwyalv			3	1.0			28.67	4.00
##		ylrepPL			3	0.6			30.00	4.50
##		2PJKk10			3	1.0			23.00	0.33
##		VxWvAXy			6	0.8			30.20	7.20
##		${\tt OxAoGlQ}$			3	0.6			27.00	4.50
		rX1dnlb			5	0.8			26.25	5.75
		5x02qXW			6	0.5			24.67	3.33
	23	JlBJYlN			6	1.0			35.33	6.25
##		overconi			voic	_	coordination	effe		
##			4.00	6.50		3.92	3.80			5.30
##			4.00	12.67		4.72	4.53			3.83
##	-		5.67	20.33		3.45	3.33			.67
##			7.33	14.00		3.28	3.40			5.87
	5		3.20	11.60		3.77	2.56			.76
	6		6.50	6.00		4.08	4.00			.85
	7		6.67	8.33		4.55	2.80			.90
	8		4.33	11.67		3.61	2.93			.57
	9		3.25	4.25		4.17	4.15			3.35
	10		5.83	19.67		4.28	3.20			5.85
	11		3.33	5.00		4.33	3.67			5.27
##	12		6.00	14.00		4.17	3.80			3.00
##	13		4.67	5.67		3.78	4.00			5.33
##	14		4.00	32.40		3.57	4.04			5.70
##	15		6.00	29.50		3.62	2.80			5.48
##	16		6.33	11.00		4.33	3.07			5.60
##	17		5.00	19.00		3.83	3.50			5.25
##	18		4.33	3.00		4.39	3.87			5.17
##	19		4.60	13.40		4.07	3.52			5.42
##	20		5.50	12.00		4.92	2.80			5.45
##	21		5.00	38.00		3.88	3.90			5.18
##	22		3.33	21.33		3.33	2.80			. 13
##	23		5.67	34.83		3.50	3.17		4	.68

## Data from actual survey responses

##		id	team	eff_q1	eff_q2	eff_q3	eff_q4	eff_q5	eff_q6	eff_q7	eff_q8
##	1	${\tt KPjenx7}$	VxWVZXy	6	7	6	6	6	6	6	6
##	2	8XM1vXy	VxWVZXy	5	3	5	6	3	5	6	6
##	3	${\tt WXzONPm}$	OlvA1P1	7	7	7	7	7	7	7	7
##	4	GxD15PN	OlvA1P1	7	2	7	7	7	7	7	7
##	5	YxeoL19	OlvA1P1	7	7	7	7	7	7	7	7
##	6	zP7KkP8	J1Bq3PN	7	5	7	7	7	6	7	6
##	7	5P88MP9	5xOnMXW	6	5	3	4	4	2	3	2
##	8	${\tt RXKYnPe}$	5xOnMXW	6	5	4	7	2	5	5	6
##	-	OxAJGPQ	-	6	6	7	7	7	4	6	6
		5xOnqXW	_	6	6	6	7	6	5	4	5
		JlBqYPN		6	6	5	7	4	5	5	6
		8XM1qXy	_	6	5	7	7	6	6	3	6
		WXzOpPm	_	5	6	7	7	7	4	6	4
		Yxeo019	-	6	6	6	6	5	4	5	5
		zP7KKP8	_	7	6	6	7	5	4	3	5
		5P88oP9		7	7	6	7	5	4	3	5
		RXKY8Pe		6	4	6	7	6	6	5	6
		BXqe5Xb		6	1	6	7	5	5	6	6
		EXnKYxg		7	1	6	7	3	7	5	7
		NP97vXA	•	7	3	6	7	5	6	5	6
		GlgNzPg		6	7	7	7	7	6	7	6
		oPGYjXz		6	6	5	6	4	5	5	4
		VX2m619		7	7	7	7	5	6	7	7
		JPRoKly		7	6	7	7	4	3	5	5
		YXmyDXN		6	5	6	6	1	6	5	6
		DPpkGx8		6	5	6	5	4	5	6	5
		2PyOwXW		6	5	5	5	4	4	6	5
		mPZ9Yxv		6	3	5	6	4	6	5	6
		8xNAJXm		3	6	6	7	5	4	3	5
		WlQnRXO	-	5	1	5	7	3	6	6	6
		B16eNPb		6	6	3	7	2	2	5	5
		qX0d3XD		7	1	5 7	7	4	7	6	7
		ml4MwXj		6	2 5	6	7 7	7 5	4	6 5	7 5
		71EA91Q		5 6	6	3	6	6	5	6	2
		oXoqePO jXVAWle	-	7	5	7	7	6	6	7	7
		8PYv81L		6	6	7	7	6	7	7	7
		ePbaqxJ		7	4	7	7	6	6	6	5
		rlLNAx2		6	2	7	6	6	6	6	7
		gxwyalv		6	6	7	7	6	6	6	6
		ylrepPL		6	4	7	7	7	5	6	5
		2PJKk10		7	6	7	7	6	5	6	4
		RX5ybX0		7	6	7	7	6	7	7	7
		VxWvAXy		7	2	7	7	6	7	6	6
		Olv9DP1		7	5	7	7	5	6	1	7
		OxAoGlQ		7	6	6	7	4	5	4	5
		rX1dnlb	0 0	7	7	7	7	5	5	4	6
		5x02qXW		6	7	6	7	6	5	6	6
		JlBJYlN		7	7	1	6	1	6	5	1
		KPjEgx7	-	7	6	7	7	6	6	4	6
		WXzqplm	•	5	3	5	6	2	3	4	5
		11	1								

		GxDEwPN	-		5	6	7	4	5	4	6
		Yxe40X9	-	5	5	6	6	3	4	5	4
##		k7lkqxD		6	6	6	7	4	5	3	5
##		5GlgzPg			7	7	7	6	6	6	5
##		${\tt roPGjxz}$		6	3	7	6	5	6	6	6
##	57	GVX26X9	4xdmYPE	7	7	7	7	7	7	7	7
##	58	D4xdYPE	JlBJYlN	1	1	1	1	1	1	1	1
##	59	wJPRKly	gxwyalv	7	2	7	7	7	7	5	7
##	60	${\tt VYXmDlN}$	DPpkGx8	6	3	6	7	5	6	5	6
##	61	${\tt M8xNJxm}$	${\tt ml4MwXj}$	5	4	7	7	6	4	4	6
##	62	3B16N1b	${\tt ml4MwXj}$	6	7	7	7	5	6	5	6
##	63	zml4wPj	rX1wnPb	6	2	1	7	1	1	4	4
##	64	N71E91Q	ylrepPL	6	6	6	7	4	5	6	6
##	65	1oXoeP0	VxWvAXy	6	5	6	6	6	5	6	5
##	66	aKl3ex6	VxWvAXy	6	5	5	7	2	5	6	6
##	67	eYXaMXq	JlBJYlN	6	6	6	7	6	7	7	6
##	68	yjXVWxe	ylrepPL	6	5	5	7	2	5	5	5
##	69	E8PY8xL	2PJKk10	7	6	6	7	6	7	7	7
##	70	1ePbqxJ	2PJKk10	7	7	7	7	7	1	6	6
##	71	GylrpxL	2PJKk10	7	6	6	7	5	6	5	6
		7RX5bx0		6	5	7	7	5	5	6	5
##	73	oVxWAly	5x02qXW	5	3	2	7	1	5	4	5
		eOlvDx1	_	7	4	7	7	6	7	4	7
##	75	yOxAGlQ	rX1dnlb	6	6	7	7	6	6	6	6
		ZrX1nxb		7	7	7	7	7	7	7	6
##	77	K5x0q1W	JlBJYlN	6	5	4	7	5	5	5	6
##		mJlBYPN		6	6	6	6	5	6	5	4
	, 0	morpiin	INIUHID		U	U	U	Ü	U	J	4
				7	5	6	7	5	5	5	6
		mKPjgl7	JlBJYlN	7	5	6	7	5	5	5	6
##		mKPjgl7	JlBJYlN	7	5	6 coord_c	7	5		5	6
## ##	79	mKPjgl7 eff_q9	JlBJYlN eff_q10	7 coord_q1	5 coord_q2	6 coord_c	7 13 coc	5 ord_q4	5 coord_q5	5	6 q1
## ## ##	79 1	mKPjgl7 eff_q9 6	J1BJY1N eff_q10 4	7 coord_q1 5	5 coord_q2 2	6 coord_c	7 13 coc 3	5 ord_q4 4	5 coord_q5	5	6 q1 4
## ## ## ##	79 1 2	mKPjgl7 eff_q9 6 6 5	J1BJY1N eff_q10 4 3	7 coord_q1 5 5	5 coord_q2 2 4	6 coord_c	7 13 coc 3 4	5 ord_q4 4 4	5 coord_q5 4 3	5	6 q1 4 5
## ## ## ##	79 1 2 3	mKPjgl7 eff_q9 6 6 5 7	JlBJYlN eff_q10 4 3 7	7 coord_q1 5 5	5 coord_q2 2 4 4	6 coord_c	7 3 4 5	5 ord_q4 4 4 5	5 coord_q5 4 3 4	5	6 q1 4 5 5
## ## ## ## ##	79 1 2 3 4	mKPjgl7 eff_q9 6 6 5 7	JlBJYlN eff_q10 4 3 7	7 coord_q1 5 5 5	5 coord_q2 2 4 4	6 coord_c	7 13 coo 3 4 5 4	5 ord_q4 4 4 5 5	5 coord_q5 4 3 4	5	6 q1 4 5 5
## ## ## ## ## ##	79 1 2 3 4 5	mKPjgl7 eff_q9 6 6 5 7 7	JlBJY1N eff_q10 4 3 7 7	7 coord_q1 5 5 5 5 5	5 coord_q2 2 4 4 4	6 coord_c	7 13 coc 3 4 5 4 5	5 ord_q4 4 4 5 5	5 coord_q5 4 3 4 4	5	6 q1 4 5 5 4 5 2
## ## ## ## ## ##	79 1 2 3 4 5 6	mKPjgl7 eff_q9 6 6 5 7 7 7 6	J1BJY1N eff_q10 4 3 7 7 7 6	7 coord_q1 5 5 5 5 5 5	5 coord_q2 2 4 4 4 4	6 coord_c	7 13 coc 3 4 5 4 5 2	5 ord_q4 4 4 5 5 5	5 coord_q5 4 3 4 4 4	5	6 q1 4 5 5 4 5
## ## ## ## ## ##	79 1 2 3 4 5 6 7 8	mKPjgl7 eff_q9 6 6 5 7 7 7 6 2	J1BJY1N eff_q10 4 3 7 7 6 5	7 coord_q1 5 5 5 5 5 4 4	5 coord_q2 2 4 4 4 1 4 2	6 coord_c	7 13 coc 3 4 5 4 5 2 2	5 ord_q4 4 4 5 5 5 4	5 coord_q5 4 3 4 4 4 4 4 2	5	6 11 4 5 5 4 5 2 3 3
## ## ## ## ## ## ##	79 1 2 3 4 5 6 7 8 9	mKPjgl7 eff_q9 6 5 7 7 7 6 2 6	J1BJY1N eff_q10 4 3 7 7 7 6 5 4	7 coord_q1 5 5 5 5 5 4 4 4 3	5 coord_q2 2 4 4 4 4 1 4 2 2	6 coord_c	7 3 cood 3 4 5 4 5 2 2 2	5 ord_q4 4 4 5 5 5 4 4 4	5 coord_q5 4 3 4 4 4 4	5	6 q1 4 5 5 4 5 2 3 3 4
## ## ## ## ## ## ##	79  1 2 3 4 5 6 7 8 9 10	mKPjgl7 eff_q9 6 5 7 7 7 6 2 6 4	J1BJY1N eff_q10 4 3 7 7 7 6 5 4 6	7 coord_q1 5 5 5 5 5 4 4	5 coord_q2 2 4 4 4 4 1 4 2 2 2	6 coord_c	7 13 coo 3 4 5 4 5 2 2 2	5 ord_q4 4 4 5 5 5 4 4 4 4 4	5 coord_q5 4 3 4 4 4 4 4 2 3 4	5	6 q1 4 5 5 5 4 5 2 3 3 4 4 4
## ## ## ## ## ## ## ##	79  1 2 3 4 5 6 7 8 9 10 11	mKPjgl7 eff_q9 6 6 5 7 7 7 6 2 6 4 4 5	J1BJY1N eff_q10 4 3 7 7 6 5 4 6 4 5	7 coord_q1 5 5 5 5 5 4 4 3 4 3	5 coord_q2 4 4 4 1 4 2 2 4 4	6 coord_c	7 [3 coc 3 4 5 4 5 2 2 2 2 4 4 4	5 ord_q4 4 4 5 5 5 4 4 4 4 3	5 coord_q5 4 3 4 4 4 4 2 3 4 3	5	6 q1 4 5 5 5 4 5 2 3 3 4 4 4 4
## ## ## ## ## ## ## ## ## ## ## ## ##	79  1 2 3 4 5 6 7 8 9 10 11 12	mKPjgl7 eff_q9 6 6 5 7 7 7 6 2 6 4 4 5 3	J1BJY1N eff_q10 4 3 7 7 6 5 4 6 4 5 4	7 coord_q1 5 5 5 5 5 4 4 3 4 3 4 2	5 coord_q2 4 4 4 1 4 2 2 4 4 3	6 coord_c	7 [3 coc 3 4 5 4 5 2 2 2 4 4 4 1	5 ord_q4 4 4 5 5 4 4 4 4 3 4	5 coord_q5 4 3 4 4 4 4 2 3 4 3 2	5	6 q1 4 5 5 5 4 5 2 3 3 4 4 4 4 5 5
## ## ## ## ## ## ## ## ## ## ## ## ##	79  1 2 3 4 5 6 7 8 9 10 11 12 13	mKPjgl7 eff_q9 6 6 5 7 7 7 6 2 6 4 4 5 3 6	J1BJY1N eff_q10 4 3 7 7 6 5 4 6 4 5 4 4	7 coord_q1 5 5 5 5 5 4 4 3 4 3 4 2	5 coord_q2 4 4 4 4 1 4 2 2 2 4 4 3 3	6 coord_c	7 [3 coc 3 4 5 4 5 2 2 2 4 4 4 1 5	5 ord_q4 4 4 5 5 4 4 4 4 3 4 2	5 coord_q5 4 3 4 4 4 4 2 3 4 3 2 3	5	6 q1 4 5 5 4 5 2 3 3 4 4 4 5 5 2
## ## ## ## ## ## ## ## ## ## ## ## ##	79  1 2 3 4 5 6 7 8 9 10 11 12 13 14	mKPjgl7 eff_q9 6 5 7 7 7 6 2 6 4 4 5 3 6 3	J1BJY1N eff_q10 4 3 7 7 7 6 5 4 6 4 5 4 5	7 coord_q1 5 5 5 5 5 4 4 3 4 3 4 2 1 3	5 coord_q2 2 4 4 4 4 1 4 2 2 2 4 4 3 3	6 coord_c	7 3 coc 3 4 5 4 5 2 2 2 4 4 4 1 5 3	5 ord_q4 4 4 5 5 5 4 4 4 4 4 2 3	5 coord_q5 4 3 4 4 4 4 2 3 4 3 2 3 2	5	6 q1 4 5 5 4 5 2 3 3 4 4 4 5 5 2 5
## ## ## ## ## ## ## ## ## ## ## ## ##	79  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	mKPjgl7 eff_q9 6 5 7 7 7 6 2 6 4 4 5 3 6 3	J1BJY1N eff_q10 4 3 7 7 7 6 5 4 6 4 5 4 4 5	7 coord_q1 5 5 5 4 4 3 4 3 4 3 3 4 3 3	5 coord_q2 4 4 4 4 1 4 2 2 2 4 4 3 3 3 2 4	6 coord_c	7 13 coc 3 4 5 4 5 2 2 2 4 4 4 1 5 3 2	5 ord_q4 4 4 5 5 5 4 4 4 4 4 2 3 3 3	5 coord_q5 4 3 4 4 4 4 3 3 4 3 2 3 2 2	5	6 q1 4 5 5 4 5 2 3 3 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5
######################################	79  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mKPjgl7 eff_q9 6 5 7 7 7 6 2 6 4 4 5 3 6 3 2	J1BJY1N eff_q10 4 3 7 7 7 6 5 4 6 4 5 4 4 5 4 4	7 coord_q1 5 5 5 4 4 3 4 3 4 2 1 3 3 3	5 coord_q2 4 4 4 4 1 4 2 2 4 4 3 3 2 4 4	6 coord_c	7 13 cood 3 4 5 4 5 2 2 2 4 4 4 1 5 3 2 2	5 ord_q4 4 4 5 5 5 4 4 4 4 3 3 3 3 3	5 coord_q5 4 3 4 4 4 4 3 3 4 3 2 3 2 2 2 2	5	6 q1 4 5 5 4 5 2 3 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
## ## ## ## ## ## ## ## ## ## ## ## ##	79  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	mKPjgl7 eff_q9 6 5 7 7 7 6 2 6 4 4 5 3 6 3 2 1 6	J1BJY1N eff_q10 4 3 7 7 7 6 5 4 6 4 5 4 4 5	7 coord_q1 5 5 5 5 4 4 3 4 3 4 2 1 3 3 4	5 coord_q2 2 4 4 4 4 1 4 2 2 4 4 3 3 3 2 4 4	6 coord_c	7 13 coc 3 4 5 4 5 2 2 2 4 4 4 1 5 3 2 2 4	5 ord_q4 4 4 5 5 5 4 4 4 4 3 3 4 2 2 3 3 3 4	5 coord_q5 4 3 4 4 4 4 3 3 4 3 2 3 2 2 2 3	5	6 q1 4 5 5 4 5 2 3 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
######################################	79  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	mKPjgl7 eff_q9 6 5 7 7 7 6 2 6 4 4 5 3 6 3 2 1 6 4	JIBJYIN eff_q10 4 3 7 7 6 5 4 6 4 5 4 4 5 4 4 5 4	7 coord_q1 5 5 5 5 4 4 3 4 2 1 3 3 4 4	5 coord_q2 4 4 4 4 1 4 2 2 4 4 3 3 3 2 4 2 4 3	6 coord_c	7 [3 coc 3 4 5 4 5 2 2 2 4 4 4 1 5 3 2 2 4 3	5 ord_q4 4 4 5 5 5 4 4 4 4 3 3 4 4 4 4 4 4 4 4	5 coord_q5 4 3 4 4 4 4 3 2 3 4 3 2 2 3 2 2 3 2	5	6 q1 4 5 5 4 5 2 3 3 4 4 4 5 5 5 5 3 4 5 5 5 5 5 5 5 5 5
######################################	79  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	mKPjgl7 eff_q9 6 5 7 7 7 6 2 6 4 4 5 3 6 3 2 1 6 4 4	JIBJYIN eff_q10 4 3 7 7 7 6 5 4 4 5 4 4 5 4 6	7 coord_q1 5 5 5 5 4 4 3 4 2 1 3 3 4 4 5	5 coord_q2 4 4 4 4 1 4 2 2 4 4 3 3 3 2 4 2 4 3 3 3	6 coord_c	7 3 cood 3 4 5 4 5 2 2 2 4 4 1 5 3 2 2 4 3 3	5 ord_q4 4 4 5 5 5 4 4 4 4 4 3 3 3 3 4 4 4 4 4	5 coord_q5 4 3 4 4 4 4 3 3 2 3 2 2 2 2 2 2 2	5	6 q1 4 5 5 4 5 2 3 3 4 4 4 5 5 5 5 3 4 4 5 5 5 5 5 5 5 5
######################################	79  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	mKPjgl7 eff_q9 6 5 7 7 7 6 2 6 4 4 5 3 6 3 2 1 6 4 5	JIBJYIN eff_q10 4 3 7 7 7 6 5 4 6 4 5 4 4 5 4 6 6 6	7 coord_q1 5 5 5 5 4 4 3 4 3 4 2 1 3 3 4 4 5 4	5 coord_q2 2 4 4 4 4 2 2 2 4 4 3 3 3 2 4 2 4 3 3 3 3	6 coord_c	7 3 coc 3 4 5 4 5 2 2 2 4 4 4 1 5 3 2 2 4 3 3 3 4	5 ord_q4 4 4 5 5 5 4 5 4 4 4 4 3 3 3 3 4 4 4 3 3	5 coord_q5 4 3 4 4 4 4 3 3 2 3 2 2 2 3 3 2 3	5	6 q1 4 5 5 4 5 2 3 3 4 4 4 5 5 5 5 5 4 5 5 5 5 5 5 5 5 5
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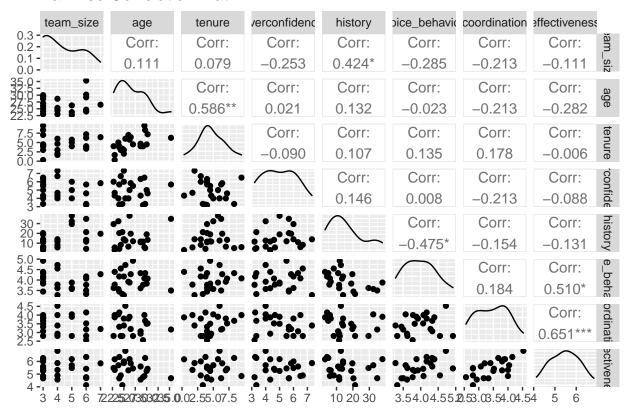
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## ## ## ## ## ## ## ##	12 13 14 15 16 17 18 19 20 21 22 23 24	1300 1000 800 1000 1000 1200 1000 900 1200 1600 1100 1500 1200	1000 900 700 800 800 800 1000 700 700 1400 1000 720 800	80 30 20 50 50 50 60 54 56 30 70 50 100	60 20 15 40 40 40 40 18 46 20 60 40 40 40			
## ## ## ## ## ## ## ##	12 13 14 15 16 17 18 19 20 21 22 23 24 25	1300 1000 800 1000 1000 1200 1000 900 1200 1600 1100 1500 1200 10000 1100	1000 900 700 800 800 1000 800 700 700 1400 1000 720 800 800	80 30 20 50 50 50 60 54 56 30 70 50 100 70 75	60 20 15 40 40 40 18 46 20 60 40 40 50 45			
## ## ## ## ## ## ## ##	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	1300 1000 800 1000 1000 1200 1000 900 1200 1600 1100 1200 10000 1100 1200	1000 900 700 800 800 1000 800 700 700 1400 1000 720 800 800 1000 900	80 30 20 50 50 50 60 54 56 30 70 50 100 75 60 55	60 20 15 40 40 40 40 18 46 20 60 40 40 40 50 45			
## ## ## ## ## ## ## ## ## ## ## ## ##	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	1300 1000 800 1000 1000 1200 1000 900 1200 1600 1100 1500 1200 10000 1100	1000 900 700 800 800 1000 800 700 700 1400 1000 720 800 800	80 30 20 50 50 50 60 54 56 30 70 50 100 70 75	60 20 15 40 40 40 40 18 46 20 60 40 40 40 50 45			

##	30	1200	900	80	70
##	31	1200	900	60	50
##	32	1000	600	45	30
##	33	1000	900	50	40
##	34	1200	800	55	50
##	35	1000	800	45	40
##	36	1200	800	110	70
##	37	1000	500	60	50
##	38	2200	1900	65	45
##	39	1200	1100	70	50
##	40	1000	800	60	50
##	41	1000	900	100	70
##	42	250	120	80	50
##	43	1100	900	95	80
##	44	1800	1500	50	40
##	45	1000	80	120	80
##	46	25000	20000	100	80
##	47	650	400	55	43
##	48	1000	800	60	50
##	49	13000	900	60	40
##	50	1000	900	50	45
##	51	1200	900	55	45
##	52	500	100	8	3
##	53	900	700	50	40
##	54	900	800	50	40
##	55	1000	998	55	45
##	56	1000	900	60	50
##	57	950	900	53	48
##	58	9	9	9	9
##	59	1000	999	60	59
##	60	900	800	150	100
##	61	650	400	50	40
##	62	600	400	60	50
##	63	1000	900	17	16
##	64	1000	700	100	90
##	65	30000	5000	1400	89
##	66	1200	700	60	50
##	67	1000	900	62	59
##	68	1200	800	75	50
##	69	1100	950	60	50
##	70	1000	900	100	40
##	71	1100	950	130	70
##	72	1000	900	50	40
##	73	950	890	80	50
##	74	1000	999	60	50
##	75	920	850	52	45
##	76	750	700	40	30
##	77	900	890	55	52
##	78	990	900	55	40
##	79	1800	1200	85	75

## General Analysis

## Correlogram of core variables

### Pairwise Correlation Matrix



#### Multiple Linear Regression of all variables against team effectiveness

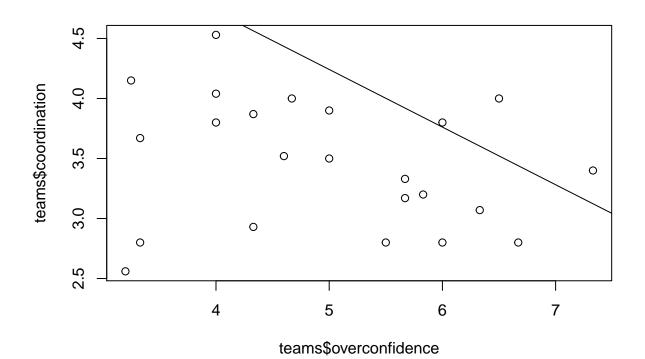
```
##
## Call:
## lm(formula = effectiveness ~ ., data = core_data)
##
## Residuals:
##
               1Q Median
                               3Q
      Min
                                       Max
## -0.62854 -0.22927 -0.03915 0.16603 0.86074
##
## Coefficients:
               Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
               -0.49250 2.01881 -0.244 0.81057
               0.06384 0.09287
                                  0.687 0.50230
## team_size
## age
               ## tenure
               -0.05607
                          0.06438 -0.871 0.39754
## overconfidence 0.01759
                          0.09439
                                  0.186 0.85467
## history 0.01310 0.01287
                                  1.018 0.32502
## voice_behavior 0.83127
                          0.26915
                                   3.088 0.00749 **
                        0.22088 3.604 0.00260 **
## coordination 0.79609
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.4735 on 15 degrees of freedom
## Multiple R-squared: 0.6668, Adjusted R-squared: 0.5113
## F-statistic: 4.289 on 7 and 15 DF, p-value: 0.008611
```

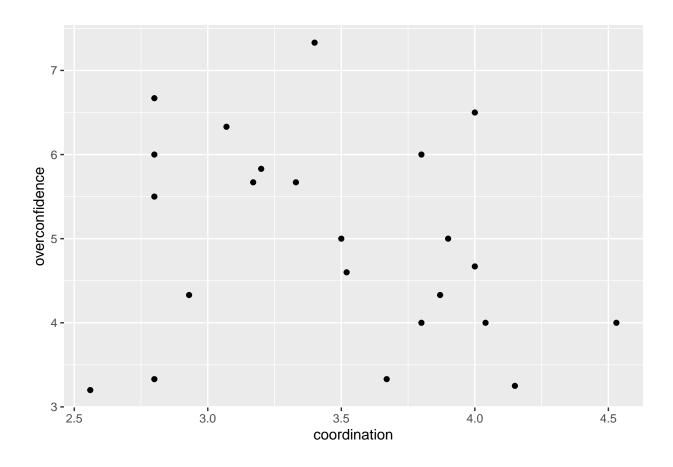
### Hypothesis testing

### Hypothesis No. 1

```
H1: Team Overconfidence has a negative effect on team coordination
```

```
##
## Call:
## lm(formula = overconfidence ~ coordination, data = teams)
##
## Residuals:
##
       Min
                 1Q
                      Median
                                   ЗQ
                                           Max
  -2.21342 -0.76037
                     0.03795
                              0.71286
                                       2.31994
##
##
## Coefficients:
##
               Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                 6.6427
                            1.6803
                                     3.953 0.000726 ***
## coordination -0.4802
                            0.4798 -1.001 0.328300
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 1.208 on 21 degrees of freedom
## Multiple R-squared: 0.04553,
                                   Adjusted R-squared:
## F-statistic: 1.002 on 1 and 21 DF, p-value: 0.3283
```

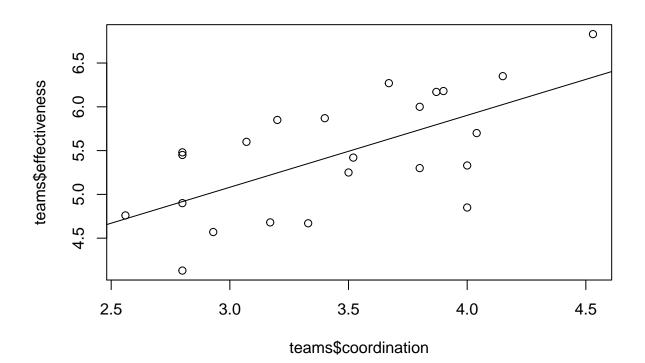


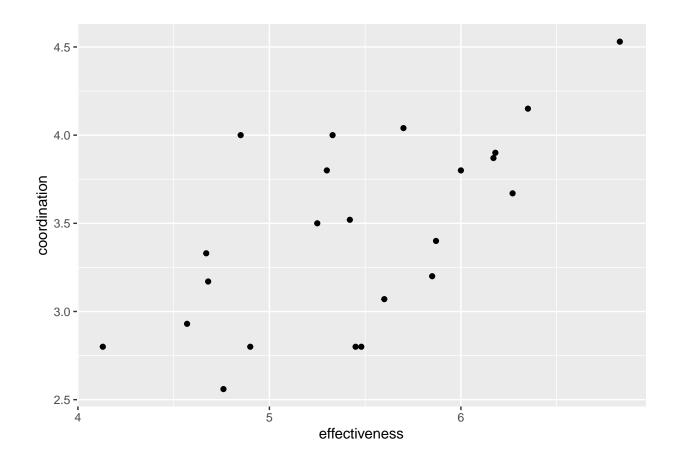


### Hypothesis No. 2

H2: Team Coordination has a positive effect on team effectiveness

```
##
## lm(formula = effectiveness ~ coordination, data = teams)
##
## Residuals:
##
        Min
                  1Q
                       Median
                                    ЗQ
                                            Max
  -1.05262 -0.44615
                     0.03993
                              0.46061
                                       0.63838
##
## Coefficients:
                Estimate Std. Error t value Pr(>|t|)
##
                             0.7321
                                      3.576 0.001784 **
## (Intercept)
                  2.6177
## coordination
                  0.8212
                             0.2090
                                      3.928 0.000771 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.5264 on 21 degrees of freedom
## Multiple R-squared: 0.4236, Adjusted R-squared: 0.3961
## F-statistic: 15.43 on 1 and 21 DF, p-value: 0.0007709
```

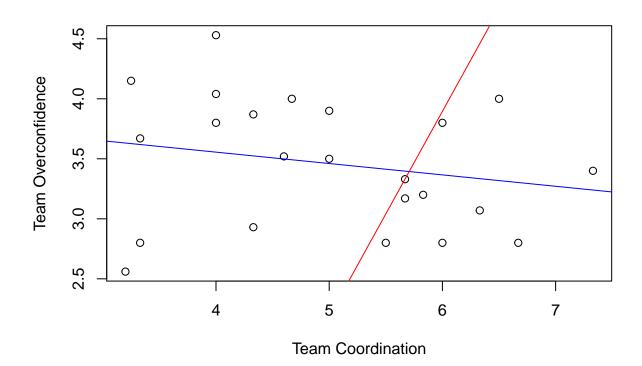


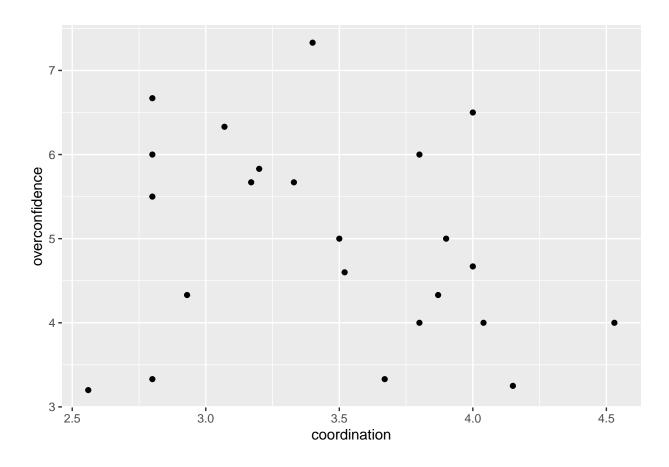


### Hypothesis No. 3

H3: Voice Behavior has a moderator effect on the relationship between overconfidence and team coordination

```
##
## Call:
## lm(formula = coordination ~ overconfidence + voice_behavior +
##
       inter, data = teams)
##
## Residuals:
##
       Min
                1Q Median
                                      Max
## -0.8892 -0.2471 -0.0404 0.3102 0.7715
##
## Coefficients:
##
                 Estimate Std. Error t value Pr(>|t|)
                              3.8966 -1.632
## (Intercept)
                  -6.3579
                                               0.1192
## overconfidence
                   1.7089
                               0.7269
                                        2.351
                                               0.0297 *
## voice_behavior 2.6272
                              0.9888
                                       2.657
                                               0.0156 *
## inter
                   -0.4614
                               0.1846 - 2.499
                                               0.0218 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4807 on 19 degrees of freedom
## Multiple R-squared: 0.3075, Adjusted R-squared: 0.1982
## F-statistic: 2.813 on 3 and 19 DF, p-value: 0.06707
## Warning in abline(lm_voice_coordination, col = "red"): only using the first two
## of 4 regression coefficients
```



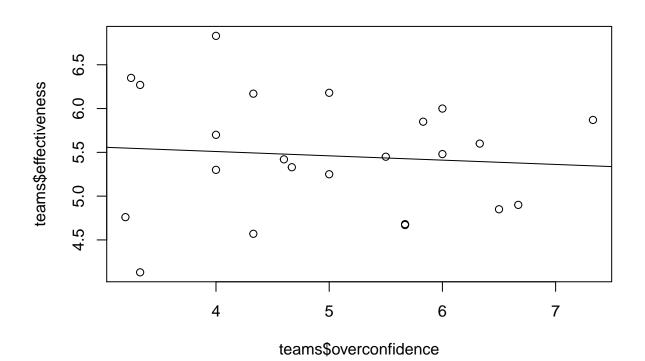


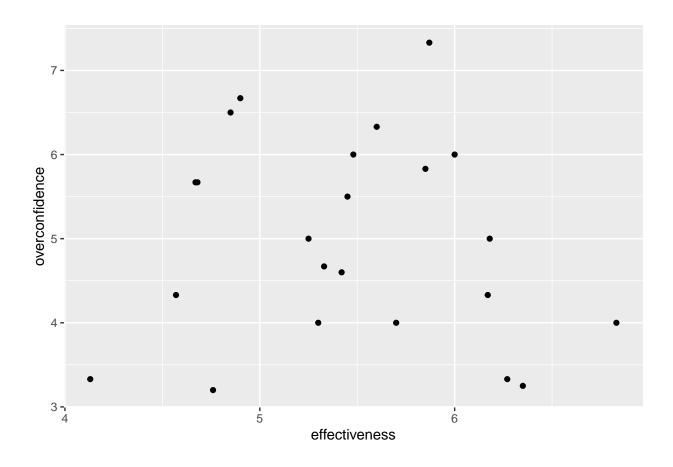
## Extra Hypotheses

### Hypothesis No. 1 - a

Hx1a: Team Overconfidence has a negative effect on team Effectiveness

```
##
## Call:
## lm(formula = effectiveness ~ overconfidence, data = teams)
##
## Residuals:
##
      Min
               1Q Median
                               ЗQ
                                      Max
  -1.4125 -0.5073 0.0143
                           0.5566
                                   1.3204
##
##
## Coefficients:
##
                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                  5.70648
                             0.62380
                                       9.148
                                                9e-09 ***
## overconfidence -0.04923
                             0.12188 -0.404
                                                 0.69
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.6906 on 21 degrees of freedom
## Multiple R-squared: 0.00771,
                                   Adjusted R-squared:
## F-statistic: 0.1632 on 1 and 21 DF, p-value: 0.6903
```

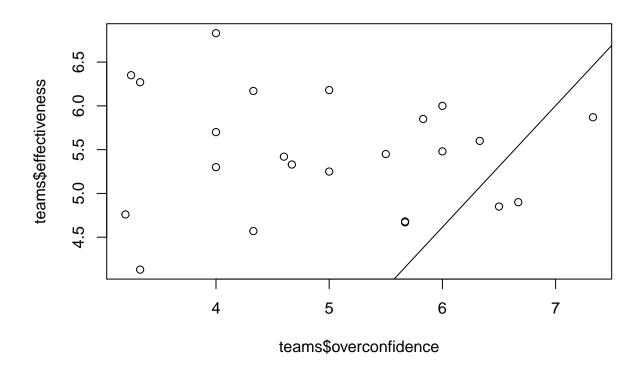


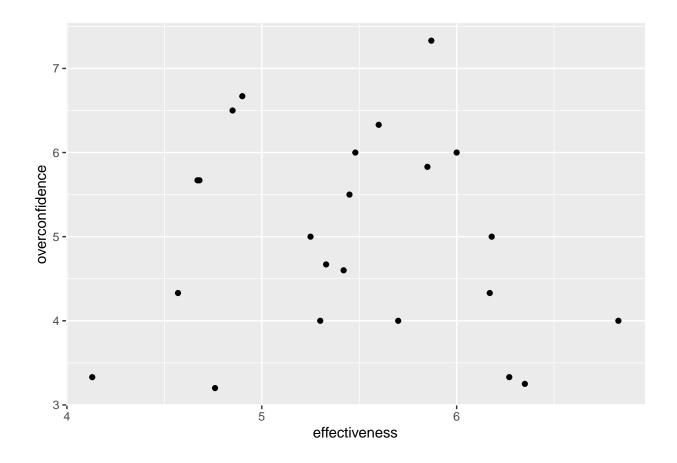


### Hypothesis No. 1 - b

Hx1b: Team Overconfidence has a reverse effect on team Effectiveness mediated by team Coordination

```
##
## Call:
## lm(formula = effectiveness ~ overconfidence + coordination +
      inter2, data = teams)
##
##
## Residuals:
##
       Min
                 1Q
                      Median
## -0.67371 -0.46438 -0.02151 0.43862 0.55177
##
## Coefficients:
##
                 Estimate Std. Error t value Pr(>|t|)
                              2.7257 -1.362 0.18917
## (Intercept)
                 -3.7121
## overconfidence 1.3878
                              0.5773
                                       2.404 0.02658 *
## coordination
                  2.6678
                              0.7947
                                       3.357 0.00331 **
## inter2
                  -0.4076
                              0.1713 -2.380 0.02796 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4846 on 19 degrees of freedom
## Multiple R-squared: 0.558, Adjusted R-squared: 0.4882
## F-statistic: 7.997 on 3 and 19 DF, p-value: 0.001197
## Warning in abline(lm_overconfidence_effectiveness_coordination): only using the
## first two of 4 regression coefficients
```





## Analysis of Internal Reliability

Cronbach's Alpha is used to determine the reliability of the survey used for each variable.

#### Team Effectiveness

```
##
## Cronbach's alpha for the 'eff_survey' data-set
##
## Items: 10
## Sample units: 79
## alpha: 0.823
##
## Bootstrap 95% CI based on 1000 samples
## 2.5% 97.5%
## 0.698 0.886
```

#### **Team Coordination**

```
##
## Cronbach's alpha for the 'coord_survey' data-set
##
## Items: 5
## Sample units: 79
## alpha: 0.67
```

```
##
## Bootstrap 95% CI based on 1000 samples
## 2.5% 97.5%
## 0.497 0.782

Team Voice Behavior
##
## Cronbach's alpha for the 'voice_survey' data-set
##
## Items: 6
## Sample units: 79
## alpha: 0.85
##
## Bootstrap 95% CI based on 1000 samples
## 2.5% 97.5%
## 0.773 0.894
```

#### Overconfidence

```
##
## Cronbach's alpha for the 'ovconf_survey' data-set
##
## Items: 20
## Sample units: 79
## alpha: 0.607
##
## Bootstrap 95% CI based on 1000 samples
## 2.5% 97.5%
## 0.235 0.756
```

### Conclusion