[1] What explains happiness? The relationships between happiness and marrige, religion

[2] health, trust, and saving

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9   Abstract

10   abstract goes here

11   *Keywords:* happiness

12   Word count: X

What explains happiness? The relationships between happiness and marrige, religion

health, trust, and saving

```
## [1] "Rather happy"
```

```
## [2] "Very happy"
```

```
## [3] "Not very happy"
```

```
## [4] "Not at all happy"
```

```
## [5] "No answer"
```

```
## [6] "Dont know"
```

```
## [7] "HT: Missing-Dropped out survey; RU: Inappropriate response{Inappropriate}"
```

family_savings	feeling_of_happiness	n
Just get by	Not at all happy	813
Just get by	Not very happy	4650
Just get by	Rather happy	18661
Just get by	Very happy	10545
Save money	Not at all happy	203
Save money	Not very happy	1449
Save money	Rather happy	11060
Save money	Very happy	9177
Spent savings and borrowed money	Not at all happy	400
Spent savings and borrowed money	Not very happy	1577
Spent savings and borrowed money	Rather happy	3867
Spent savings and borrowed money	Very happy	2489
Spent some savings and borrowed money	Not at all happy	207
Spent some savings and borrowed money	Not very happy	1471
Spent some savings and borrowed money	Rather happy	5853
Spent some savings and borrowed money	Very happy	3800

Figure 1

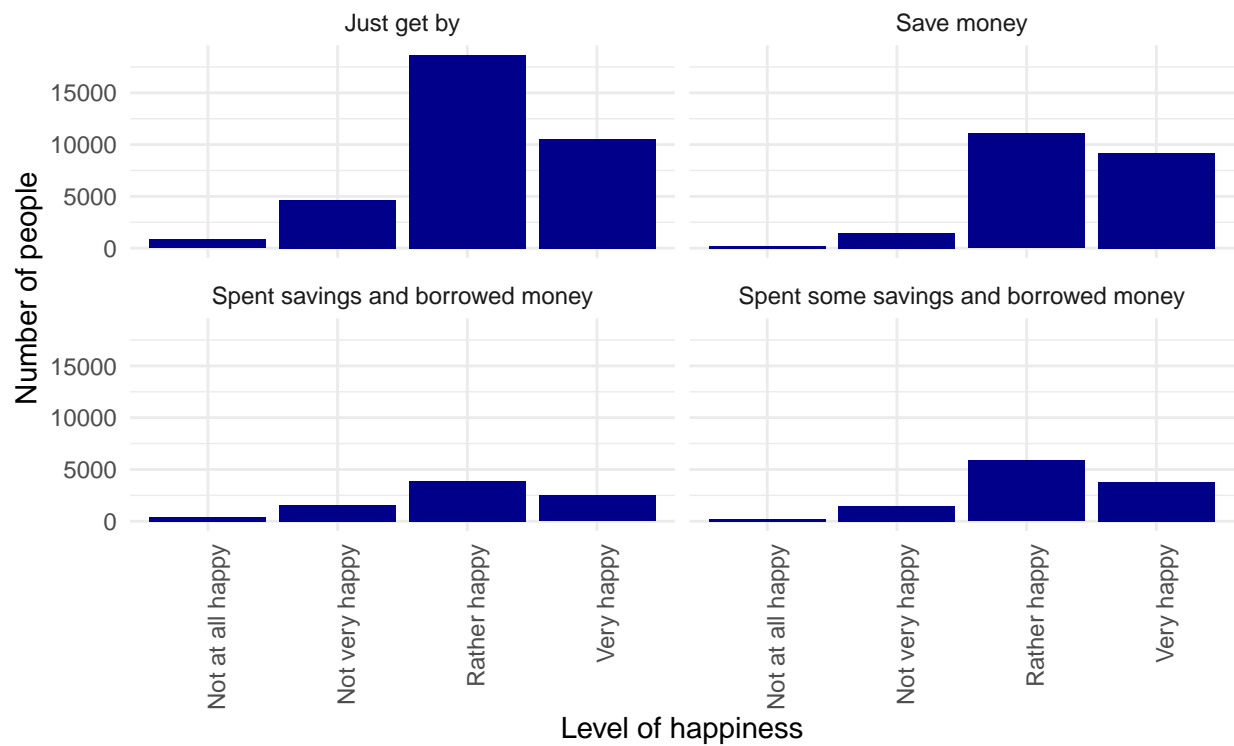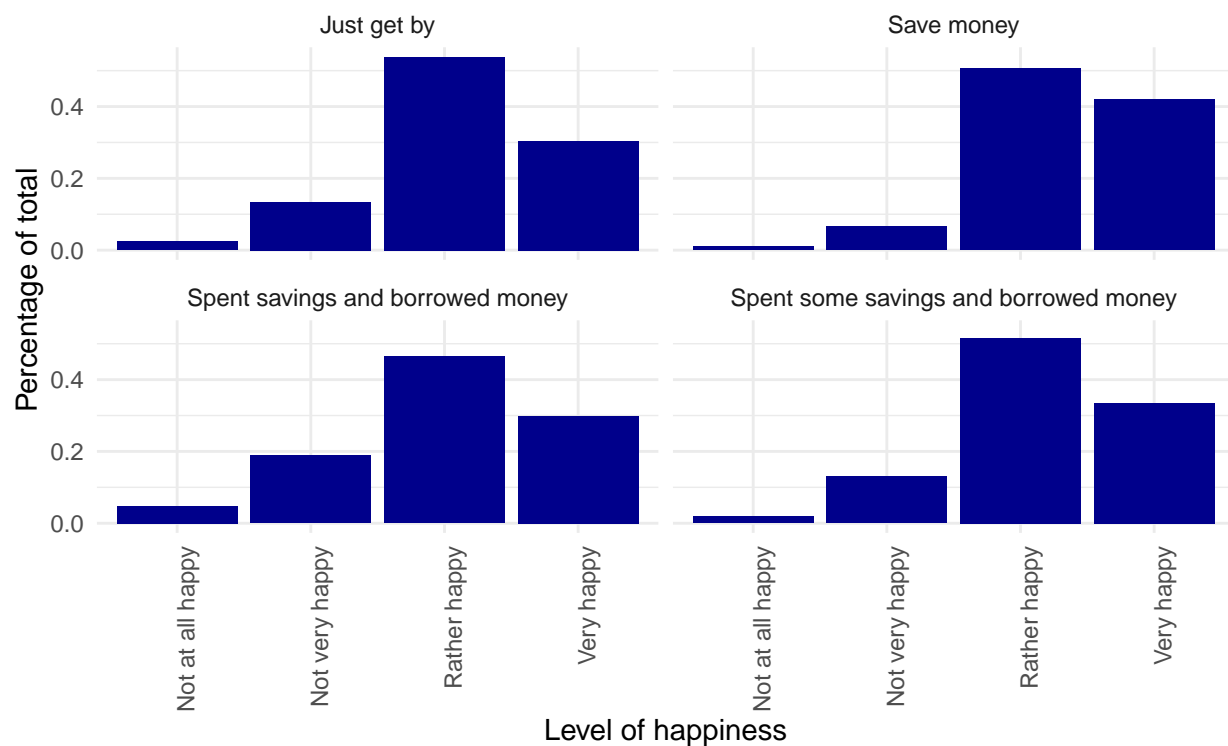Happiness levels by family savings: Raw numbers

Figure 2

Happiness levels by family savings: percentage

24

```
## # A tibble: 16 x 5
##    family_savings                      feeling_of_happine~     n total percent
##    <fct>                               <fct>               <int> <int>   <dbl>
##  1 Save money                          Not at all happy      203 21889 0.00927
##  2 Spent some savings and borrowed~    Not at all happy      207 11331 0.0183
##  3 Just get by                         Not at all happy      813 34669 0.0235
##  4 Spent savings and borrowed money    Not at all happy      400  8333 0.0480
##  5 Save money                          Not very happy       1449 21889 0.0662
##  6 Spent some savings and borrowed~    Not very happy       1471 11331 0.130
##  7 Just get by                         Not very happy       4650 34669 0.134
##  8 Spent savings and borrowed money    Not very happy       1577  8333 0.189
##  9 Spent savings and borrowed money    Very happy           2489  8333 0.299
## 10 Just get by                         Very happy          10545 34669 0.304
```

```
38  ## 11 Spent some savings and borrowed~ Very happy              3800 11331 0.335

39  ## 12 Save money                          Very happy           9177 21889 0.419

40  ## 13 Spent savings and borrowed money Rather happy            3867  8333 0.464

41  ## 14 Save money                          Rather happy        11060 21889 0.505

42  ## 15 Spent some savings and borrowed~ Rather happy            5853 11331 0.517

43  ## 16 Just get by                         Rather happy        18661 34669 0.538
```
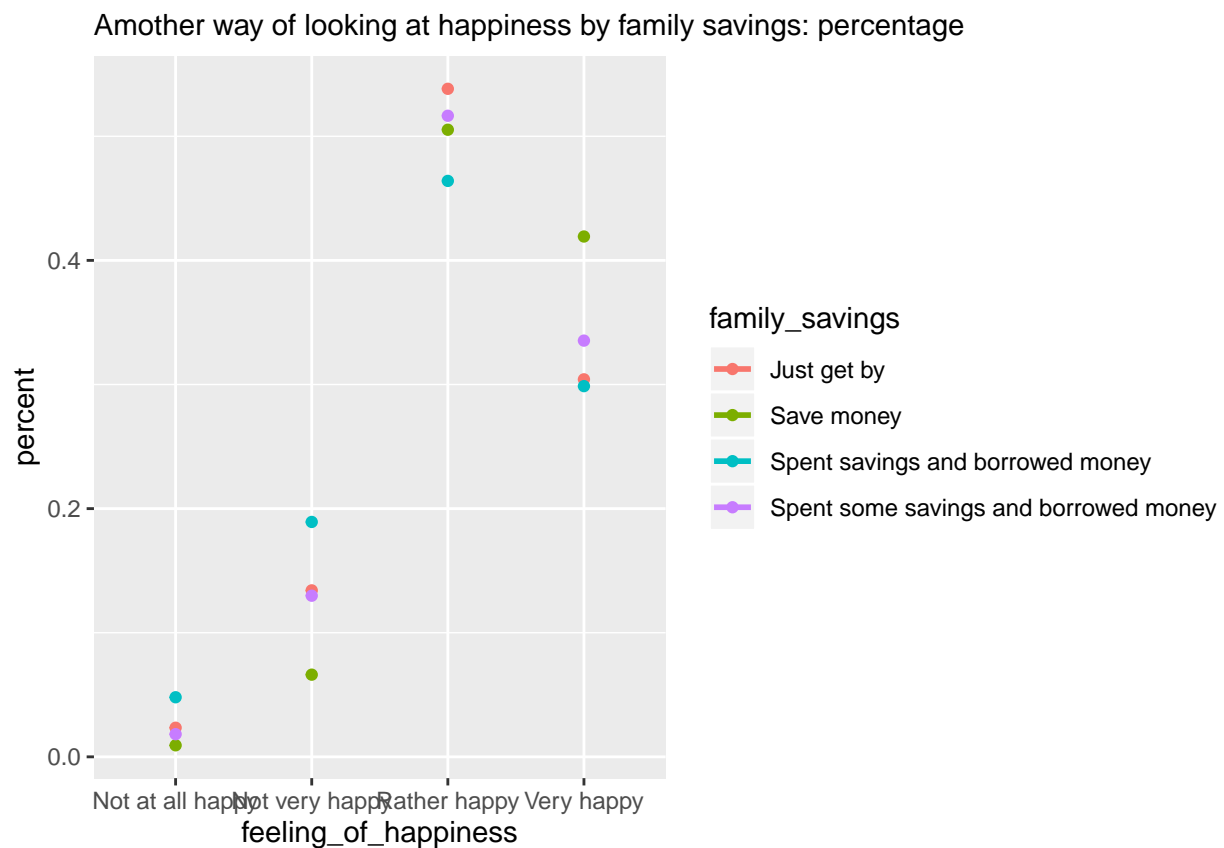

Figure 1

```
44  ## List of 65

45  ##  $ line                        :List of 6

46  ##   ..$ colour        : chr "black"

47  ##   ..$ size          : num 0.5
```

```
48  ##    ..$ linetype    : num 1

49  ##    ..$ lineend     : chr "butt"

50  ##    ..$ arrow       : logi FALSE

51  ##    ..$ inherit.blank: logi TRUE

52  ##    ..- attr(*, "class")= chr [1:2] "element_line" "element"

53  ##  $ rect                      :List of 5

54  ##    ..$ fill        : chr "white"

55  ##    ..$ colour      : chr "black"

56  ##    ..$ size        : num 0.5

57  ##    ..$ linetype    : num 1

58  ##    ..$ inherit.blank: logi TRUE

59  ##    ..- attr(*, "class")= chr [1:2] "element_rect" "element"

60  ##  $ text                      :List of 11

61  ##    ..$ family      : chr ""

62  ##    ..$ face        : chr "plain"

63  ##    ..$ colour      : chr "black"

64  ##    ..$ size        : num 11

65  ##    ..$ hjust       : num 0.5

66  ##    ..$ vjust       : num 0.5

67  ##    ..$ angle       : num 0

68  ##    ..$ lineheight  : num 0.9

69  ##    ..$ margin      : 'margin' num [1:4] 0pt 0pt 0pt 0pt

70  ##    .. ..- attr(*, "valid.unit")= int 8

71  ##    .. ..- attr(*, "unit")= chr "pt"

72  ##    ..$ debug       : logi FALSE

73  ##    ..$ inherit.blank: logi TRUE

74  ##    ..- attr(*, "class")= chr [1:2] "element_text" "element"
```

```
## $ axis.title.x              :List of 11
##   ..$ family      : NULL
##   ..$ face        : NULL
##   ..$ colour      : NULL
##   ..$ size        : NULL
##   ..$ hjust       : NULL
##   ..$ vjust       : num 1
##   ..$ angle       : NULL
##   ..$ lineheight  : NULL
##   ..$ margin      : 'margin' num [1:4] 2.75pt 0pt 0pt 0pt
##   .. ..- attr(*, "valid.unit")= int 8
##   .. ..- attr(*, "unit")= chr "pt"
##   ..$ debug       : NULL
##   ..$ inherit.blank: logi TRUE
##   ..- attr(*, "class")= chr [1:2] "element_text" "element"
## $ axis.title.x.top          :List of 11
##   ..$ family      : NULL
##   ..$ face        : NULL
##   ..$ colour      : NULL
##   ..$ size        : NULL
##   ..$ hjust       : NULL
##   ..$ vjust       : num 0
##   ..$ angle       : NULL
##   ..$ lineheight  : NULL
##   ..$ margin      : 'margin' num [1:4] 0pt 0pt 2.75pt 0pt
##   .. ..- attr(*, "valid.unit")= int 8
##   .. ..- attr(*, "unit")= chr "pt"
```

```
102  ##   ..$ debug        : NULL
103  ##   ..$ inherit.blank: logi TRUE
104  ##   ..- attr(*, "class")= chr [1:2] "element_text" "element"
105  ##  $ axis.title.y            :List of 11
106  ##   ..$ family       : NULL
107  ##   ..$ face         : NULL
108  ##   ..$ colour       : NULL
109  ##   ..$ size         : NULL
110  ##   ..$ hjust        : NULL
111  ##   ..$ vjust        : num 1
112  ##   ..$ angle        : num 90
113  ##   ..$ lineheight   : NULL
114  ##   ..$ margin       : 'margin' num [1:4] 0pt 2.75pt 0pt 0pt
115  ##   .. ..- attr(*, "valid.unit")= int 8
116  ##   .. ..- attr(*, "unit")= chr "pt"
117  ##   ..$ debug        : NULL
118  ##   ..$ inherit.blank: logi TRUE
119  ##   ..- attr(*, "class")= chr [1:2] "element_text" "element"
120  ##  $ axis.title.y.right      :List of 11
121  ##   ..$ family       : NULL
122  ##   ..$ face         : NULL
123  ##   ..$ colour       : NULL
124  ##   ..$ size         : NULL
125  ##   ..$ hjust        : NULL
126  ##   ..$ vjust        : num 0
127  ##   ..$ angle        : num -90
128  ##   ..$ lineheight   : NULL
```

```
129  ##    ..$ margin        : 'margin' num [1:4] 0pt 0pt 0pt 2.75pt
130  ##    .. ..- attr(*, "valid.unit")= int 8
131  ##    .. ..- attr(*, "unit")= chr "pt"
132  ##    ..$ debug         : NULL
133  ##    ..$ inherit.blank: logi TRUE
134  ##    ..- attr(*, "class")= chr [1:2] "element_text" "element"
135  ##  $ axis.text                 :List of 11
136  ##    ..$ family        : NULL
137  ##    ..$ face          : NULL
138  ##    ..$ colour        : chr "grey30"
139  ##    ..$ size          : 'rel' num 0.8
140  ##    ..$ hjust         : NULL
141  ##    ..$ vjust         : NULL
142  ##    ..$ angle         : NULL
143  ##    ..$ lineheight    : NULL
144  ##    ..$ margin        : NULL
145  ##    ..$ debug         : NULL
146  ##    ..$ inherit.blank: logi TRUE
147  ##    ..- attr(*, "class")= chr [1:2] "element_text" "element"
148  ##  $ axis.text.x               :List of 11
149  ##    ..$ family        : NULL
150  ##    ..$ face          : NULL
151  ##    ..$ colour        : NULL
152  ##    ..$ size          : NULL
153  ##    ..$ hjust         : num 1
154  ##    ..$ vjust         : num 1
155  ##    ..$ angle         : num 90
```

```
156  ##    ..$ lineheight   : NULL

157  ##    ..$ margin       : 'margin' num [1:4] 2.2pt 0pt 0pt 0pt

158  ##    .. ..- attr(*, "valid.unit")= int 8

159  ##    .. ..- attr(*, "unit")= chr "pt"

160  ##    ..$ debug        : NULL

161  ##    ..$ inherit.blank: logi FALSE

162  ##    ..- attr(*, "class")= chr [1:2] "element_text" "element"

163  ##  $ axis.text.x.top          :List of 11

164  ##    ..$ family       : NULL

165  ##    ..$ face         : NULL

166  ##    ..$ colour       : NULL

167  ##    ..$ size         : NULL

168  ##    ..$ hjust        : NULL

169  ##    ..$ vjust        : num 0

170  ##    ..$ angle        : NULL

171  ##    ..$ lineheight   : NULL

172  ##    ..$ margin       : 'margin' num [1:4] 0pt 0pt 2.2pt 0pt

173  ##    .. ..- attr(*, "valid.unit")= int 8

174  ##    .. ..- attr(*, "unit")= chr "pt"

175  ##    ..$ debug        : NULL

176  ##    ..$ inherit.blank: logi TRUE

177  ##    ..- attr(*, "class")= chr [1:2] "element_text" "element"

178  ##  $ axis.text.y              :List of 11

179  ##    ..$ family       : NULL

180  ##    ..$ face         : NULL

181  ##    ..$ colour       : NULL

182  ##    ..$ size         : NULL
```

```
## ..$ hjust       : num 1
## ..$ vjust       : NULL
## ..$ angle       : NULL
## ..$ lineheight   : NULL
## ..$ margin       : 'margin' num [1:4] 0pt 2.2pt 0pt 0pt
## .. ..- attr(*, "valid.unit")= int 8
## .. ..- attr(*, "unit")= chr "pt"
## ..$ debug       : NULL
## ..$ inherit.blank: logi TRUE
## ..- attr(*, "class")= chr [1:2] "element_text" "element"
## $ axis.text.y.right       :List of 11
## ..$ family      : NULL
## ..$ face        : NULL
## ..$ colour      : NULL
## ..$ size        : NULL
## ..$ hjust       : num 0
## ..$ vjust       : NULL
## ..$ angle       : NULL
## ..$ lineheight   : NULL
## ..$ margin       : 'margin' num [1:4] 0pt 0pt 0pt 2.2pt
## .. ..- attr(*, "valid.unit")= int 8
## .. ..- attr(*, "unit")= chr "pt"
## ..$ debug       : NULL
## ..$ inherit.blank: logi TRUE
## ..- attr(*, "class")= chr [1:2] "element_text" "element"
## $ axis.ticks           : list()
## ..- attr(*, "class")= chr [1:2] "element_blank" "element"
```

```
210  ##  $ axis.ticks.length        : 'unit' num 2.75pt
211  ##   ..- attr(*, "valid.unit")= int 8
212  ##   ..- attr(*, "unit")= chr "pt"
213  ##  $ axis.ticks.length.x       : NULL
214  ##  $ axis.ticks.length.x.top   : NULL
215  ##  $ axis.ticks.length.x.bottom: NULL
216  ##  $ axis.ticks.length.y       : NULL
217  ##  $ axis.ticks.length.y.left  : NULL
218  ##  $ axis.ticks.length.y.right : NULL
219  ##  $ axis.line                 : list()
220  ##   ..- attr(*, "class")= chr [1:2] "element_blank" "element"
221  ##  $ axis.line.x               : NULL
222  ##  $ axis.line.y               : NULL
223  ##  $ legend.background         : list()
224  ##   ..- attr(*, "class")= chr [1:2] "element_blank" "element"
225  ##  $ legend.margin             : 'margin' num [1:4] 5.5pt 5.5pt 5.5pt 5.5pt
226  ##   ..- attr(*, "valid.unit")= int 8
227  ##   ..- attr(*, "unit")= chr "pt"
228  ##  $ legend.spacing            : 'unit' num 11pt
229  ##   ..- attr(*, "valid.unit")= int 8
230  ##   ..- attr(*, "unit")= chr "pt"
231  ##  $ legend.spacing.x          : NULL
232  ##  $ legend.spacing.y          : NULL
233  ##  $ legend.key                : list()
234  ##   ..- attr(*, "class")= chr [1:2] "element_blank" "element"
235  ##  $ legend.key.size           : 'unit' num 1.2lines
236  ##   ..- attr(*, "valid.unit")= int 3
```

```
237 ##   ..- attr(*, "unit")= chr "lines"
238 ## $ legend.key.height         : NULL
239 ## $ legend.key.width          : NULL
240 ## $ legend.text               :List of 11
241 ##   ..$ family      : NULL
242 ##   ..$ face        : NULL
243 ##   ..$ colour      : NULL
244 ##   ..$ size        : 'rel' num 0.8
245 ##   ..$ hjust       : NULL
246 ##   ..$ vjust       : NULL
247 ##   ..$ angle       : NULL
248 ##   ..$ lineheight  : NULL
249 ##   ..$ margin      : NULL
250 ##   ..$ debug       : NULL
251 ##   ..$ inherit.blank: logi TRUE
252 ##   ..- attr(*, "class")= chr [1:2] "element_text" "element"
253 ## $ legend.text.align         : NULL
254 ## $ legend.title              :List of 11
255 ##   ..$ family      : NULL
256 ##   ..$ face        : NULL
257 ##   ..$ colour      : NULL
258 ##   ..$ size        : NULL
259 ##   ..$ hjust       : num 0
260 ##   ..$ vjust       : NULL
261 ##   ..$ angle       : NULL
262 ##   ..$ lineheight  : NULL
263 ##   ..$ margin      : NULL
```

```
264 ##    ..$ debug         : NULL
265 ##    ..$ inherit.blank: logi TRUE
266 ##    ..- attr(*, "class")= chr [1:2] "element_text" "element"
267 ##  $ legend.title.align       : NULL
268 ##  $ legend.position          : chr "right"
269 ##  $ legend.direction         : NULL
270 ##  $ legend.justification     : chr "center"
271 ##  $ legend.box               : NULL
272 ##  $ legend.box.margin        : 'margin' num [1:4] 0cm 0cm 0cm 0cm
273 ##    ..- attr(*, "valid.unit")= int 1
274 ##    ..- attr(*, "unit")= chr "cm"
275 ##  $ legend.box.background     : list()
276 ##    ..- attr(*, "class")= chr [1:2] "element_blank" "element"
277 ##  $ legend.box.spacing        : 'unit' num 11pt
278 ##    ..- attr(*, "valid.unit")= int 8
279 ##    ..- attr(*, "unit")= chr "pt"
280 ##  $ panel.background          : list()
281 ##    ..- attr(*, "class")= chr [1:2] "element_blank" "element"
282 ##  $ panel.border             : list()
283 ##    ..- attr(*, "class")= chr [1:2] "element_blank" "element"
284 ##  $ panel.spacing            : 'unit' num 5.5pt
285 ##    ..- attr(*, "valid.unit")= int 8
286 ##    ..- attr(*, "unit")= chr "pt"
287 ##  $ panel.spacing.x          : NULL
288 ##  $ panel.spacing.y          : NULL
289 ##  $ panel.grid               :List of 6
290 ##    ..$ colour       : chr "grey92"
```

```
291  ##    ..$ size         : NULL
292  ##    ..$ linetype     : NULL
293  ##    ..$ lineend      : NULL
294  ##    ..$ arrow        : logi FALSE
295  ##    ..$ inherit.blank: logi TRUE
296  ##    ..- attr(*, "class")= chr [1:2] "element_line" "element"
297  ##  $ panel.grid.minor        :List of 6
298  ##    ..$ colour       : NULL
299  ##    ..$ size         : 'rel' num 0.5
300  ##    ..$ linetype     : NULL
301  ##    ..$ lineend      : NULL
302  ##    ..$ arrow        : logi FALSE
303  ##    ..$ inherit.blank: logi TRUE
304  ##    ..- attr(*, "class")= chr [1:2] "element_line" "element"
305  ##  $ panel.ontop             : logi FALSE
306  ##  $ plot.background         : list()
307  ##    ..- attr(*, "class")= chr [1:2] "element_blank" "element"
308  ##  $ plot.title              :List of 11
309  ##    ..$ family       : NULL
310  ##    ..$ face         : NULL
311  ##    ..$ colour       : NULL
312  ##    ..$ size         : 'rel' num 1.2
313  ##    ..$ hjust        : num 0
314  ##    ..$ vjust        : num 1
315  ##    ..$ angle        : NULL
316  ##    ..$ lineheight   : NULL
317  ##    ..$ margin       : 'margin' num [1:4] 0pt 0pt 5.5pt 0pt
```

```
318  ##   .. ..- attr(*, "valid.unit")= int 8
319  ##   .. ..- attr(*, "unit")= chr "pt"
320  ##   ..$ debug        : NULL
321  ##   ..$ inherit.blank: logi TRUE
322  ##   ..- attr(*, "class")= chr [1:2] "element_text" "element"
323  ##  $ plot.subtitle          :List of 11
324  ##   ..$ family       : NULL
325  ##   ..$ face         : NULL
326  ##   ..$ colour       : NULL
327  ##   ..$ size         : NULL
328  ##   ..$ hjust        : num 0
329  ##   ..$ vjust        : num 1
330  ##   ..$ angle        : NULL
331  ##   ..$ lineheight   : NULL
332  ##   ..$ margin       : 'margin' num [1:4] 0pt 0pt 5.5pt 0pt
333  ##   .. ..- attr(*, "valid.unit")= int 8
334  ##   .. ..- attr(*, "unit")= chr "pt"
335  ##   ..$ debug        : NULL
336  ##   ..$ inherit.blank: logi TRUE
337  ##   ..- attr(*, "class")= chr [1:2] "element_text" "element"
338  ##  $ plot.caption           :List of 11
339  ##   ..$ family       : NULL
340  ##   ..$ face         : NULL
341  ##   ..$ colour       : NULL
342  ##   ..$ size         : 'rel' num 0.8
343  ##   ..$ hjust        : num 1
344  ##   ..$ vjust        : num 1
```

```
345 ##    ..$ angle        : NULL
346 ##    ..$ lineheight    : NULL
347 ##    ..$ margin        : 'margin' num [1:4] 5.5pt 0pt 0pt 0pt
348 ##    .. ..- attr(*, "valid.unit")= int 8
349 ##    .. ..- attr(*, "unit")= chr "pt"
350 ##    ..$ debug         : NULL
351 ##    ..$ inherit.blank: logi TRUE
352 ##    ..- attr(*, "class")= chr [1:2] "element_text" "element"
353 ##  $ plot.tag              :List of 11
354 ##    ..$ family        : NULL
355 ##    ..$ face          : NULL
356 ##    ..$ colour        : NULL
357 ##    ..$ size          : 'rel' num 1.2
358 ##    ..$ hjust         : num 0.5
359 ##    ..$ vjust         : num 0.5
360 ##    ..$ angle         : NULL
361 ##    ..$ lineheight    : NULL
362 ##    ..$ margin        : NULL
363 ##    ..$ debug         : NULL
364 ##    ..$ inherit.blank: logi TRUE
365 ##    ..- attr(*, "class")= chr [1:2] "element_text" "element"
366 ##  $ plot.tag.position     : chr "topleft"
367 ##  $ plot.margin           : 'margin' num [1:4] 5.5pt 5.5pt 5.5pt 5.5pt
368 ##    ..- attr(*, "valid.unit")= int 8
369 ##    ..- attr(*, "unit")= chr "pt"
370 ##  $ strip.background      : list()
371 ##    ..- attr(*, "class")= chr [1:2] "element_blank" "element"
```

```
372  ##   $ strip.placement          : chr "inside"
373  ##   $ strip.text               :List of 11
374  ##    ..$ family      : NULL
375  ##    ..$ face        : NULL
376  ##    ..$ colour      : chr "grey10"
377  ##    ..$ size        : 'rel' num 0.8
378  ##    ..$ hjust       : NULL
379  ##    ..$ vjust       : NULL
380  ##    ..$ angle       : NULL
381  ##    ..$ lineheight  : NULL
382  ##    ..$ margin      : 'margin' num [1:4] 4.4pt 4.4pt 4.4pt 4.4pt
383  ##    .. ..- attr(*, "valid.unit")= int 8
384  ##    .. ..- attr(*, "unit")= chr "pt"
385  ##    ..$ debug       : NULL
386  ##    ..$ inherit.blank: logi TRUE
387  ##    ..- attr(*, "class")= chr [1:2] "element_text" "element"
388  ##   $ strip.text.x            : NULL
389  ##   $ strip.text.y            :List of 11
390  ##    ..$ family      : NULL
391  ##    ..$ face        : NULL
392  ##    ..$ colour      : NULL
393  ##    ..$ size        : NULL
394  ##    ..$ hjust       : NULL
395  ##    ..$ vjust       : NULL
396  ##    ..$ angle       : num -90
397  ##    ..$ lineheight  : NULL
398  ##    ..$ margin      : NULL
```

```
399 ##   ..$ debug        : NULL
400 ##   ..$ inherit.blank: logi TRUE
401 ##   ..- attr(*, "class")= chr [1:2] "element_text" "element"
402 ## $ strip.switch.pad.grid   : 'unit' num 2.75pt
403 ##   ..- attr(*, "valid.unit")= int 8
404 ##   ..- attr(*, "unit")= chr "pt"
405 ## $ strip.switch.pad.wrap   : 'unit' num 2.75pt
406 ##   ..- attr(*, "valid.unit")= int 8
407 ##   ..- attr(*, "unit")= chr "pt"
408 ## - attr(*, "class")= chr [1:2] "theme" "gg"
409 ## - attr(*, "complete")= logi TRUE
410 ## - attr(*, "validate")= logi TRUE
```

411   As Figure 3 shows, although patterns of happiness levels are similar overall (e.g. most
412 people report being "Rather Happy", fewest people report being "Not happy at all"), there
413 are some differences of happiness level distributions between groups. A greater percentage
414 of those with the lowest level of family savings (those who spent savings and borrowed
415 money) reported being "Not at all happy" or "Not very happy". On the other hand, the
416 greatest percentage of people reporting being "Rather happy" were those who reported just
417 getting by, and the greatest percentage of people reporting the highest level of happiness
418 were those in the strongest financial position - those who saved money.

419   (NOTE: I'd like to use inline code here to reference exact percentages. How do put
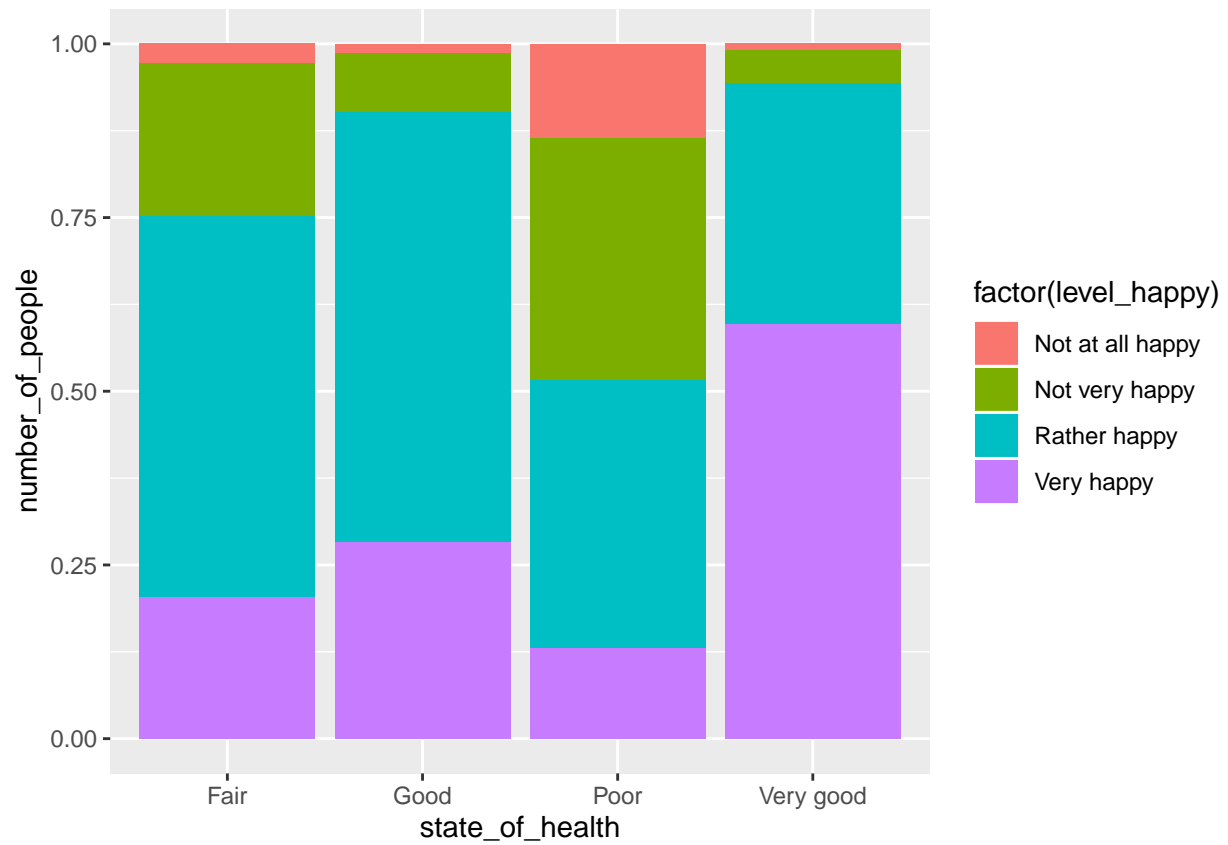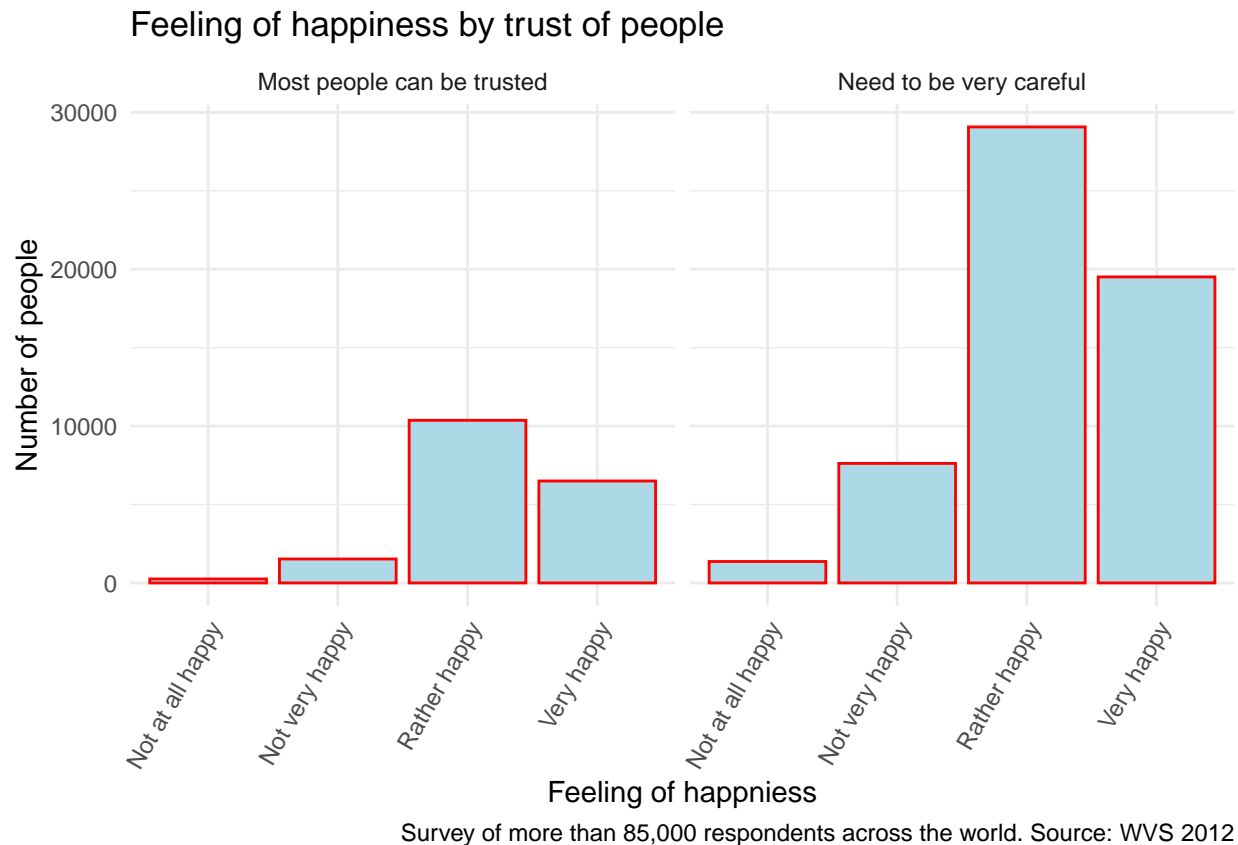420 one cell value into inline code??)

Feeling of happiness by self–rated state of health

Survey of more than 85,000 respondents across the world. Source: WVS 2012

421

most_people_trusted	feeling_of_happiness	n
Most people can be trusted	Not at all happy	255
Most people can be trusted	Not very happy	1528
Most people can be trusted	Rather happy	10369
Most people can be trusted	Very happy	6499
Need to be very careful	Not at all happy	1368
Need to be very careful	Not very happy	7619
Need to be very careful	Rather happy	29072
Need to be very careful	Very happy	19512

422

Happiness and trust

423

424   Out of the total 76222 people, only slightly more than 24.47 percent say they can

425   trust most of the people around them, while 75.53 is caucious about the society.

Figure 2

See below

Feeling of happiness by trust of people

Survey of more than 85,000 respondents across the world. Source: WVS 2012

it shows us

Introduction

Study of happiness and its causal factors has been flourished in recent years. This project explores the relationship between happiness and some candidate variables, namely marital status, religious affiliation, level of income, status of heath, and level of trust. We use individual level survey of more than 85,000 respondents across 60 countries and societies around the world in World Value Survey Dataset 2012.

Scholars have studied the relationship between happines and political system (Inglehart, 2009)...

Johnson (2012) finds that "trust as measured by the World Values Survey is positively correlated with experimentally measured trust".

Gandelman and Hernández-Murillo (2013) reviews relationship of self-rate health status and perceived life quality.

Methods

We report how we determined our sample size, all data exclusions (if any), all manipulations, and all measures in the study.

Data analysis

We used R (Version 3.5.1; R Core Team, 2018) and the R-packages *dplyr* (Version 0.8.3; Wickham, François, Henry, & Müller, 2019), *forcats* (Version 0.4.0; Wickham, 2019a), *ggplot2* (Version 3.2.1; Wickham, 2016), *here* (Version 0.1; Müller, 2017), *janitor* (Version 1.2.0; Firke, 2019), *kableExtra* (Version 1.1.0; Zhu, 2019), *knitr* (Version 1.25; Xie, 2015), *papaja* (Version 0.1.0.9842; Aust & Barth, 2018), *purrr* (Version 0.3.3; Henry & Wickham, 2019), *readr* (Version 1.3.1; Wickham, Hester, & Francois, 2018), *rio* (Version 0.5.16; C.-h. Chan, Chan, Leeper, & Becker, 2018), *stringr* (Version 1.4.0; Wickham, 2019b), *tibble* (Version 2.1.3; Müller & Wickham, 2019), *tidyr* (Version 1.0.0; Wickham & Henry, 2019), and *tidyverse* (Version 1.2.1; Wickham, 2017) for all our analyses.

Results

Discussion

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497 Final Paper

498 The final project must:

499 (a) be a reproducible and dynamic APA manuscript produced with R Markdown, via the

500   {papaja} package and include references to the extant literature;

501 (b) be housed on GitHub, with contributions from all authors obvious;

502 (c) demonstrate moving data from its raw "messy" format to a tidy data format through

503   the R Markdown file, but not in the final document;

(d) include at least two exploratory data visualizations, and

(e) include at least summary statistics of the data in tables, although fitted models of any

sort are an added bonus (not literally, there are not extra points for fitting a model).

The points for the final project are broken down as follows:

Writing (abstract, intro, methods, results, discussion, references).

- 30 points(25%) Document is fully reproducible and housed on GitHub
- 25 points (21%) Demonstrate use of inline code
- 5 points (4%) Demonstrate tidying messy data
- 30 points (25%) Two data visualizations
- 20 points(10 points each) (17%) Production of at least one table (of summary statistics or model results)
- 10 points (8%)