Example 1: real data report: multiple-source education register

Data set and main information needed

about: time-variables, modeled - variables, imputed-variables

Education register, after combining several administrative sources and imputing level and field of education for many records. The variable info_source identifies the ones which are imputed (when it has the value "tilreikna").

For this report, a large sample from the whole register is extracted, for speed and memory reasons but this can be easily run for the whole set.

Output of this report: pdf, html, word.

Plots are now static. We will produce soon interactive ones.

Dashboards are possible

Main packages and resources:

ggplot2, DataExplorer, funModeling, tabplot, forecast, tsfeatures, anomalous

view_data

edu_field

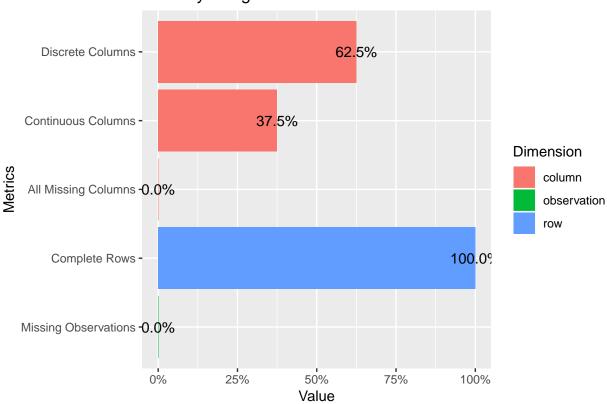
n missing distinct

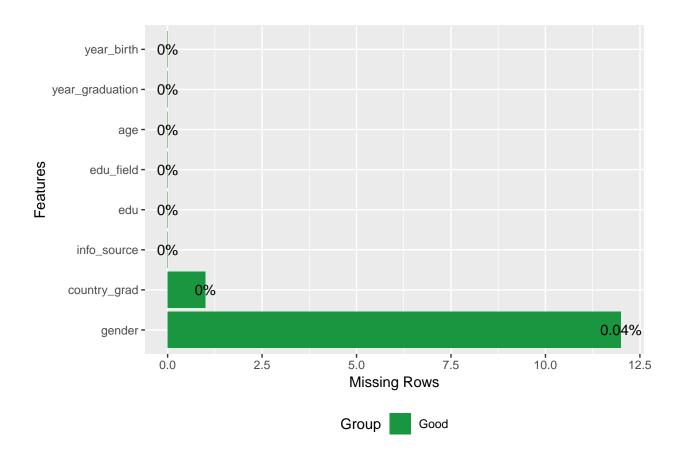
Overview of main data-set characteristics

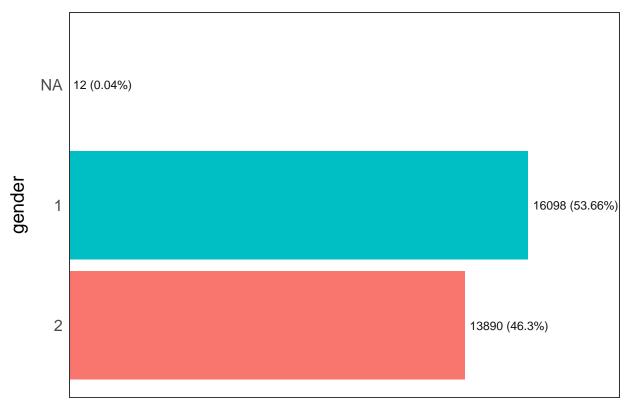
```
## df
##
             30000 Observations
  8 Variables
##
    n missing distinct
##
    29988
          12
##
              1
## Frequency 16098 13890
## Proportion 0.537 0.463
## ------
## info_source
##
    n missing distinct
##
    30000
          0
##
                                                                  EldriPrófaskrár
## lowest : Atvinnuvega- og nýsköpunarráðuneyti Danska hagstofan
## highest: Sænska hagstofan
                                                                  Útlendingastofnun
                                     Tilreiknað
##
       n missing distinct
    30000 0
##
##
## lowest : 00 11 20 21 22, highest: 61 62 71 72 80
```

```
30000 0 442
##
##
## lowest : 0... 010. 010a 010b 010c, highest: 861. 861a 863. 999. ooo
## -----
## country_grad
  n missing distinct
##
##
    29999 1 95
##
## lowest : AL AR AT AU AZ, highest: VU XX YU YY ZA
## age
                                        .05
##
     n missing distinct
                       Info
                             Mean
                                    Gmd
                                                 .10
                                  7.706
         0
                      0.981
                           22.37
##
    30000
                 57
                                            16
                                                  16
                       .90
##
     . 25
           .50
                 .75
                             .95
##
     16
            20
                 26
                         31
##
## lowest : 13 14 15 16 17, highest: 65 66 69 71 78
## -----
## year_graduation
                                   Gmd
27.57
   n missing distinct Info
                             Mean
                                           . 05
                                                 .10
                                           .05
1937
##
    30000
           0 122
                       1
                             1990
                                                 1951
##
    . 25
           .50
                 .75
                       .90
                              .95
                2011
##
    1977
          1998
                       2016
                              2017
##
## lowest : 1879 1880 1882 1895 1897, highest: 2014 2015 2016 2017 2018
## -----
## year_birth
##
   n missing distinct
                     Info Mean
                                    Gmd
                                          .05
                                                 .10
    30000 0 126
                       1
                              1968
                                    27.47
##
                                           1918
                                                 1931
           .50
                       .90
##
    . 25
                 .75
                              .95
                1987
##
    1954
           1973
                       1996
                              2000
##
## lowest : 1863 1864 1866 1879 1881, highest: 2001 2002 2003 2004 2005
```



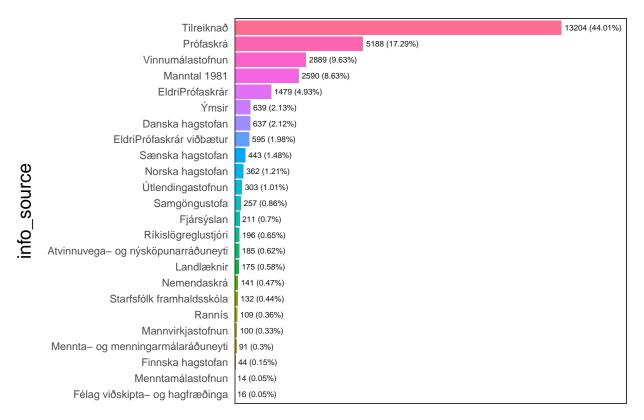






Frequency / (Percentage %)

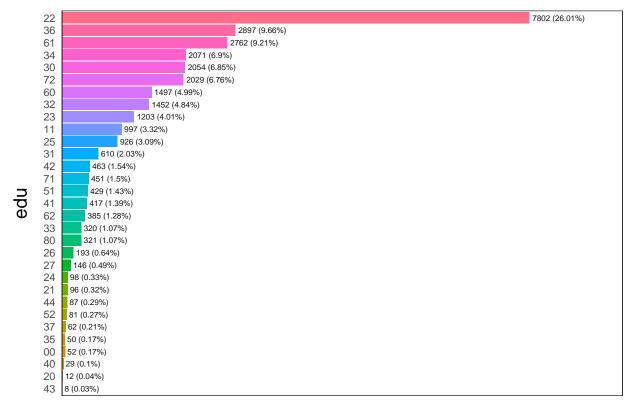
##		gender	frequency	percentage	cumulative_perc
##	1	1	16098	53.66	53.66
##	2	2	13890	46.30	99.96
##	3	<na></na>	12	0.04	100.00



Frequency / (Percentage %)

##		info_source	frequency	percentage
##	1	Tilreiknað	13204	44.01
##	2	Prófaskrá	5188	17.29
##	3	Vinnumálastofnun	2889	9.63
##	4	Manntal 1981	2590	8.63
##	5	EldriPrófaskrár	1479	4.93
##	6	Ýmsir	639	2.13
##	7	Danska hagstofan	637	2.12
##	8	EldriPrófaskrár viðbætur	595	1.98
##	9	Sænska hagstofan	443	1.48
##	10	Norska hagstofan	362	1.21
##	11	Útlendingastofnun	303	1.01
##	12	Samgöngustofa	257	0.86
##	13	Fjársýslan	211	0.70
##	14	Ríkislögreglustjóri	196	0.65
##	15	Atvinnuvega- og nýsköpunarráðuneyti	185	0.62
##	16	Landlæknir	175	0.58
##	17	Nemendaskrá	141	0.47
##	18	Starfsfólk framhaldsskóla	132	0.44
##	19	Rannís	109	0.36
##	20	Mannvirkjastofnun	100	0.33
##	21	Mennta- og menningarmálaráðuneyti	91	0.30
##	22	Finnska hagstofan	44	0.15
	00	Félag viðskipta- og hagfræðinga	16	0.05
##	23	10108 viornipud og nagiiwoinga		
## ##		Menntamálastofnun	14	0.05

```
## 1
                 44.01
## 2
                 61.30
## 3
                 70.93
## 4
                 79.56
                 84.49
## 5
## 6
                 86.62
## 7
                 88.74
                 90.72
## 8
## 9
                 92.20
## 10
                 93.41
## 11
                 94.42
## 12
                 95.28
##
  13
                 95.98
                 96.63
## 14
## 15
                 97.25
## 16
                 97.83
## 17
                 98.30
  18
                 98.74
##
                 99.10
## 19
## 20
                 99.43
## 21
                 99.73
## 22
                 99.88
## 23
                 99.93
## 24
                100.00
```



Frequency / (Percentage %)

```
## edu frequency percentage cumulative_perc
## 1 22 7802 26.01 26.01
```

##	2	36	2897	9.66		35.67	
##	3	61	2762	9.21		44.88	
##	4	34	2071	6.90		51.78	
##	5	30	2054	6.85		58.63	
##	6	72	2029	6.76		65.39	
##	7	60	1497	4.99		70.38	
##	8	32	1452	4.84		75.22	
##	9	23	1203	4.01		79.23	
##	10	11	997	3.32		82.55	
##	11	25	926	3.09		85.64	
##	12	31	610	2.03		87.67	
##	13	42	463	1.54		89.21	
##	14	71	451	1.50		90.71	
##	15	51	429	1.43		92.14	
##	16	41	417	1.39		93.53	
##	17	62	385	1.28		94.81	
##	18	80	321	1.07		95.88	
##	19	33	320	1.07		96.95	
##	20	26	193	0.64		97.59	
##	21	27	146	0.49		98.08	
##	22	24	98	0.33		98.41	
##	23	21	96	0.32		98.73	
##	24	44	87	0.29		99.02	
##	25	52	81	0.27		99.29	
##	26	37	62	0.21		99.50	
##	27	00	52	0.17		99.67	
##	28	35	50	0.17		99.84	
##	29	40	00	0 10		00 04	
	25	40	29	0.10		99.94	
##		20	12	0.10		99.94 99.98	
##							
##	30	20	12	0.04		99.98	
## ##	30	20 43	12 8	0.04	centage	99.98	erc
## ## ##	30	20 43	12 8	0.04	centage 38.66	99.98 100.00 cumulative_p	erc
## ## ## ##	30 31	20 43	12 8 _field fre	0.04 0.03 equency perc	_	99.98 100.00 cumulative_p	
## ## ## ##	30 31 1	20 43	12 8 _field fre 010.	0.04 0.03 equency perc 11597	38.66	99.98 100.00 cumulative_p 38	3.66
## ## ## ## ##	30 31 1 2	20 43	12 8 _field fre 010. 000	0.04 0.03 equency perc 11597 3259	38.66 10.86	99.98 100.00 cumulative_r 38 49	3.66 9.52
## ## ## ## ## ##	30 31 1 2 3	20 43	12 8 field fre 010. 000 010a	0.04 0.03 equency perc 11597 3259 587	38.66 10.86 1.96	99.98 100.00 cumulative_p 38 49 51	3.66 9.52 48
## ## ## ## ## ##	30 31 1 2 3 4 5	20 43	12 8 field fre 010. 000 010a 010c	0.04 0.03 equency perc 11597 3259 587 479	38.66 10.86 1.96 1.60 1.53 1.35	99.98 100.00 cumulative_p 38 49 51 53	3.66 9.52 .48 3.08
## ## ## ## ## ##	30 31 1 2 3 4 5	20 43	12 8 field fre 010. 000 010a 010c 840.	0.04 0.03 equency perc 11597 3259 587 479 458	38.66 10.86 1.96 1.60 1.53 1.35 1.14	99.98 100.00 cumulative_p 38 49 51 53 54	3.66 9.52 .48 3.08 4.61
## ## ## ## ## ##	30 31 1 2 3 4 5 6	20 43	12 8 field fre 010. 000 010a 010c 840. 582b	0.04 0.03 equency perc 11597 3259 587 479 458 406	38.66 10.86 1.96 1.60 1.53 1.35 1.14	99.98 100.00 cumulative_p 38 49 51 53 54 55	3.66 9.52 .48 3.08 4.61 5.96
## ## ## ## ## ## ##	30 31 1 2 3 4 5 6 7 8 9	20 43	12 8 field fre 010. 000 010a 010c 840. 582b 814.	0.04 0.03 equency perc 11597 3259 587 479 458 406 343	38.66 10.86 1.96 1.60 1.53 1.35 1.14	99.98 100.00 cumulative_p 38 49 51 53 54 55 57	3.66 9.52 48 3.08 4.61 5.96 7.10
## ## ## ## ## ## ##	30 31 1 2 3 4 5 6 7 8	20 43	12 8 field fre 010. 000 010a 010c 840. 582b 814. 144a	0.04 0.03 equency perc 11597 3259 587 479 458 406 343 301	38.66 10.86 1.96 1.60 1.53 1.35 1.14	99.98 100.00 cumulative_r 38 49 51 53 54 55 57	3.66 9.52 48 3.08 4.61 5.96 7.10 3.10
## ## ## ## ## ## ## ##	30 31 1 2 3 4 5 6 7 8 9 10 11	20 43	12 8 field fre 010. 000 010a 010c 840. 582b 814. 144a 840a	0.04 0.03 equency perc 11597 3259 587 479 458 406 343 301 275	38.66 10.86 1.96 1.60 1.53 1.35 1.14 1.00 0.92	99.98 100.00 cumulative_p 38 49 51 53 54 55 57 58	3.66 9.52 48 3.08 4.61 5.96 7.10 3.10
## ## ## ## ## ## ## ##	30 31 1 2 3 4 5 6 7 8 9 10 11 12	20 43	12 8 field fre 010. 000 010a 010c 840. 582b 814. 144a 840a 380a	0.04 0.03 equency perc 11597 3259 587 479 458 406 343 301 275 256	38.66 10.86 1.96 1.60 1.53 1.35 1.14 1.00 0.92 0.85	99.98 100.00 cumulative_r 38 49 51 53 54 55 57 58 59 60	3.66 9.52 48 3.08 4.61 5.96 7.10 3.10 9.02
## ## ## ## ## ## ## ## ##	30 31 1 2 3 4 5 6 7 8 9 10 11	20 43	12 8 field fre 010. 000 010a 010c 840. 582b 814. 144a 840a 380a 340.	0.04 0.03 equency perc 11597 3259 587 479 458 406 343 301 275 256 243	38.66 10.86 1.96 1.60 1.53 1.35 1.14 1.00 0.92 0.85 0.81	99.98 100.00 cumulative_p 38 49 51 53 54 55 57 58 59 60 61	3.66 9.52 48 3.08 4.61 5.96 7.10 3.10 9.02 9.87 9.68
######################################	30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14	20 43	12 8 field free 010. 000 010a 010c 840. 582b 814. 144a 840a 380a 340. 525f	0.04 0.03 equency percentage of the second o	38.66 10.86 1.96 1.60 1.53 1.35 1.14 1.00 0.92 0.85 0.81 0.80 0.74	99.98 100.00 cumulative_r 38 49 51 53 54 55 57 58 59 60 61 62 62	3.66 3.52 .48 3.08 3.61 5.96 7.10 3.10 3.10 3.20 3.87 3.68 .48 2.22 2.96
## ## ## ## ## ## ## ## ## ##	30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	20 43	12 8 field free 010. 000 010a 010c 840. 582b 814. 144a 840a 380a 340. 525f 522d	0.04 0.03 equency percentage of the second o	38.66 10.86 1.96 1.60 1.53 1.35 1.14 1.00 0.92 0.85 0.81 0.74 0.74 0.73	99.98 100.00 cumulative_p 38 49 51 53 54 55 57 58 59 60 61 62 62 63	3.66 9.52 48 3.08 4.61 5.96 7.10 9.02 9.87 9.68 48 2.22 2.96 3.69
######################################	30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	20 43	12 8 field free 010. 000 010a 010c 840. 582b 814. 144a 840a 380a 340. 525f 522d 723. 723c 340b	0.04 0.03 equency percentage of the second o	38.66 10.86 1.96 1.60 1.53 1.35 1.14 1.00 0.92 0.85 0.81 0.74 0.74 0.73 0.72	99.98 100.00 cumulative_p 38 49 51 53 54 55 57 58 59 60 61 62 62 63	3.66 9.52 48 3.08 4.61 5.96 7.10 9.02 9.87 9.68 48 2.22 2.96 8.69 4.41
######################################	30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	20 43	12 8 field free 010. 000 010a 010c 840. 582b 814. 144a 840a 380a 340. 525f 522d 723. 723c 340b 525c	0.04 0.03 equency percentage of the second o	38.66 10.86 1.96 1.60 1.53 1.35 1.14 1.00 0.92 0.85 0.81 0.74 0.74 0.73 0.72 0.67	99.98 100.00 cumulative_r 38 49 51 53 54 55 57 58 59 60 61 62 62 63 64	3.66 9.52 .48 3.08 4.61 5.96 7.10 9.02 9.87 9.68 .48 2.22 2.96 9.69 1.41 1.508
# # # # # # # # # # # # # # # # # # #	30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	20 43	12 8 field free 010. 000 010a 010c 840. 582b 814. 144a 840a 380a 340. 525f 522d 723. 723c 340b 525c 010b	0.04 0.03 equency percentage of the second o	38.66 10.86 1.96 1.60 1.53 1.35 1.14 1.00 0.92 0.85 0.81 0.80 0.74 0.73 0.72 0.67 0.62	99.98 100.00 cumulative_p 38 49 51 53 54 55 57 58 60 61 62 62 63 64 65	3.66 9.52 .48 3.08 4.61 5.96 7.10 9.02 9.87 9.68 .48 2.22 2.96 8.69 8.41 5.08 7.50 8.70
######################################	30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	20 43	12 8 field free 010. 000 010a 010c 840. 582b 814. 144a 840a 380a 340. 525f 522d 723. 723c 340b 525c 010b 481c	0.04 0.03 equency percentage of the second o	38.66 10.86 1.96 1.60 1.53 1.35 1.14 1.00 0.92 0.85 0.81 0.80 0.74 0.73 0.72 0.67 0.62 0.60	99.98 100.00 cumulative_r 38 49 51 53 54 55 57 58 60 61 62 63 64 65 65 66	3.66 3.52 .48 3.08 4.61 5.96 7.10 3.10 9.02 9.87 9.68 .48 2.22 2.96 3.69 4.41 5.08 5.70 3.30
#########################	30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	20 43	12 8 field free 010. 000 010a 010c 840. 582b 814. 144a 840a 380a 340. 525f 522d 723. 723c 340b 525c 010b 481c 582.	0.04 0.03 equency percentage of the second o	38.66 10.86 1.96 1.60 1.53 1.35 1.14 1.00 0.92 0.85 0.81 0.80 0.74 0.73 0.72 0.67 0.62 0.60 0.55	99.98 100.00 cumulative_r 38 49 51 53 54 55 57 58 59 60 61 62 62 63 64 65 66 66	3.66 3.52 .48 3.08 4.61 5.96 7.10 3.10 9.02 9.87 9.68 2.22 2.96 3.69 4.41 5.08 5.70 5.30 5.30 5.30 5.30 5.30 5.30 5.30 5.30 6
############################	30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	20 43	12 8 -field free 010. 000 010a 010c 840. 582b 814. 144a 840a 380a 340. 525f 522d 723. 723c 340b 525c 010b 481c 582. 723b	0.04 0.03 equency percentage of the second o	38.66 10.86 1.96 1.60 1.53 1.35 1.14 1.00 0.92 0.85 0.81 0.74 0.74 0.73 0.72 0.67 0.62 0.60 0.55 0.54	99.98 100.00 cumulative_r 38 49 51 53 54 55 57 58 59 60 61 62 62 63 64 65 66 66 66 66 66	3.66 3.52 48 3.08 4.61 5.96 7.10 3.10 0.02 9.87 0.68 48 2.22 2.96 3.69 4.41 5.08 5.70 5.30 5.30 5.30 5.30 6.30
#########################	30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	20 43	12 8 field free 010. 000 010a 010c 840. 582b 814. 144a 840a 380a 340. 525f 522d 723. 723c 340b 525c 010b 481c 582.	0.04 0.03 equency percentage of the second o	38.66 10.86 1.96 1.60 1.53 1.35 1.14 1.00 0.92 0.85 0.81 0.80 0.74 0.73 0.72 0.67 0.62 0.60 0.55	99.98 100.00 cumulative_r 38 49 51 53 54 55 57 58 59 60 61 62 62 63 64 65 66 66 66 66 66	3.66 3.52 .48 3.08 4.61 5.96 7.10 3.10 9.02 9.87 9.68 2.22 2.96 3.69 4.41 5.08 5.70 5.30 5.30 5.30 5.30 5.30 5.30 5.30 5.30 6

##	23	521.	152	0.51	68.43
##	24	721a	144	0.48	68.91
##	25	815a	142	0.47	69.38
##	26	010i	141	0.47	69.85
	27	010t	139	0.46	70.31
	28	811e	134	0.45	70.76
	29	143a	131	0.44	71.20
	30	520.	121	0.40	71.60
	31	343a	120	0.40	72.00
##	32	621.	117	0.39	72.39
	33	311a	116	0.39	72.78
	34	340a	116	0.39	73.17
	35	145a	109	0.36	73.53
##	36	010z	105	0.35	73.88
##	37	345f	94	0.31	74.19
##	38	342a	91	0.30	74.49
##	39	523.	90	0.30	74.79
##	40	726b	88	0.29	75.08
##	41	010f	85	0.28	75.36
##	42	521j	84	0.28	75.64
	43	34	82	0.27	75.91
	44	225c	80	0.27	76.18
##		420.	80	0.27	76.45
##		541.	78	0.26	76.71
##		721.	77	0.26	76.71
##		142a	76 76	0.25	77.22
##		214.	76	0.25	77.47
##	50	812a	76	0.25	77.72
	51	811.	74	0.25	77.97
##	52	213.	73	0.24	78.21
##	53	345.	73	0.24	78.45
##	54	146a	71	0.24	78.69
##	55	010ó	69	0.23	78.92
##	56	582e	68	0.23	79.15
##	57	347a	67	0.22	79.37
##	58	090a	66	0.22	79.59
##	59	222f	66	0.22	79.81
##	60	346.	66	0.22	80.03
##	61	222b	65	0.22	80.25
##	62	762a	65	0.22	80.47
	63	144.	64	0.21	80.68
	64	314a	64	0.21	80.89
##	65	582d	61	0.20	81.09
##	66	522.	59	0.20	81.29
##	67	212.	58	0.19	81.48
##	68	582c	54	0.18	81.66
##	69	815b	54	0.18	81.84
##	70	144c	53	0.18	82.02
##	71	344a	52	0.17	82.19
##	72	582i	52	0.17	82.36
##	73	211.	50	0.17	82.53
##	74	222.	50	0.17	82.70
##	75	313a	50	0.17	82.87
##	76	542.	50	0.17	83.04

	77	4.4.41	40	0.40	00 00
	77	144b	49	0.16	83.20
	78	541a	48	0.16	83.36
##	79	726.	48	0.16	83.52
##	80	761.	48	0.16	83.68
##	81	344b	47	0.16	83.84
##	82	52	47	0.16	84.00
##	83	999.	47	0.16	84.16
##	84	145.	46	0.15	84.31
	85	525.	46	0.15	84.46
##	86	421a	44	0.15	84.61
##	87	581.	44	0.15	84.76
##	88	621a	44	0.15	84.91
##	89	727b	44	0.15	85.06
##	90	0101	43	0.14	85.20
##	91	312a	43	0.14	85.34
##	92	543a	43	0.14	85.48
##	93	815.	43	0.14	85.62
##	94	840b	43	0.14	85.76
##	95	812c	42	0.14	85.90
##	96	322b	41	0.14	86.04
##	97	541b	41	0.14	86.18
##	98	811b	41	0.14	86.32
##	99	814a	40	0.13	86.45
##	100	213f	39	0.13	86.58
##	101	523a	39	0.13	86.71
##	102	211a	38	0.13	86.84
##	103	48	38	0.13	86.97
##	104	481b	38	0.13	87.10
##	105	725a	38	0.13	87.23
##					
	106	581a	37	0.12	87.35
##	107	346c	36	0.12	87.47
##	108	522j	35	0.12	87.59
##	109	543.	35	0.12	87.71
##	110	723a	35	0.12	87.83
##	111	2	34	0.11	87.94
##	112	811a	34	0.11	88.05
##	113	213d	33	0.11	88.16
##	114	223c	33	0.11	88.27
##	115	421.	33	0.11	88.38
##	116	521c	33	0.11	88.49
##	117	311.	32	0.11	88.60
##	118	349.	32	0.11	88.71
##	119	422c	32	0.11	88.82
##	120	522e	32	0.11	88.93
##	121	313d	31	0.10	89.03
##	122	314.	31	0.10	89.13
##	123	345n	31	0.10	89.23
##	124	443b	31	0.10	89.33
##	125	521e	31	0.10	89.43
##	126	582a	31	0.10	89.53
##	127	725.	31	0.10	89.63
##	128	221b	30	0.10	89.73
##	129	010h	29	0.10	89.83
##	130	22	29	0.10	89.93

##	131	312b	29	0.10	90.03
##	132	525g	29	0.10	90.13
##	133	720a	29	0.10	90.23
##	134	010g	28	0.09	90.32
##	135	443.	28	0.09	90.41
##	136	523c	28	0.09	90.50
##	137	443a	27	0.09	90.59
##	138	582h	27	0.09	90.68
##	139	726d	27	0.09	90.77
##	140	141.	26	0.09	90.86
##	141	520b	26	0.09	90.95
##	142	010é	25	0.08	91.03
##	143	21	25	0.08	91.11
##	144	221.	25	0.08	91.19
##	145	226a	25	0.08	91.27
##	146	346b	25	0.08	91.35
##	147	811d	25	0.08	91.43
##	148	010m	24	0.08	91.51
##	149	213e	24	0.08	91.59
##	150	223.	24	0.08	91.67
##	151	225.	24	0.08	91.75
##	152	343.	24	0.08	91.83
##	153	345c	24	0.08	91.91
##	154	422a	24	0.08	91.99
##	155	521a	24	0.08	92.07
##	156	210.	23	0.08	92.15
##	157	321b	23	0.08	92.23
##	158	442a	23	0.08	92.31
##	159	481.	23	0.08	92.39
##					
	160	525b	23	0.08	92.47
##	161	720.	23	0.08	92.55
##	162	212e	22	0.07	92.62
##	163	521d	22	0.07	92.69
##	164	525d	22	0.07	92.76
##	165	541e	22	0.07	92.83
##	166	621b	22	0.07	92.90
##	167	621c	22	0.07	92.97
##	168	762.	22	0.07	93.04
##	169	861.	22	0.07	93.11
##	170	341.	21	0.07	93.18
##	171	522c	21	0.07	93.25
##	172	010r	20	0.07	93.32
##	173	213c	20	0.07	93.39
##	174	622.	20		93.46
				0.07	
##	175	811f	20	0.07	93.53
##	176	813.	20	0.07	93.60
##	177	312.	19	0.06	93.66
##	178	313b	19	0.06	93.72
##	179	345e	19	0.06	93.78
##	180	441a	19	0.06	93.84
##					
	181	723d	19	0.06	93.90
##	182	726a	19	0.06	93.96
##	183	727.	19	0.06	94.02
##	184	812.	19	0.06	94.08

##	185	215.	18	0.06	94.14
##	186	225a	18	0.06	94.20
##	187	345j	18	0.06	94.26
##	188	380c	18	0.06	94.32
##	189	461a	18	0.06	94.38
##	190	529x	18	0.06	94.44
##	191	541f	18	0.06	94.50
##	192	542b	18	0.06	94.56
##	193	542c	18	0.06	94.62
##	194	146b	17	0.06	94.68
##	195	223d	17	0.06	94.74
##			17		
	196	380.		0.06	94.80
##	197	521b	17	0.06	94.86
##	198	582f	17	0.06	94.92
##	199	724.	17	0.06	94.98
##	200	312c	16	0.05	95.03
##	201	313.	16	0.05	95.08
##	202	520a	16	0.05	95.13
##	203	524.	16	0.05	95.18
	204	5821	16	0.05	95.23
##	205	724b	16	0.05	95.28
##	206	724c	16	0.05	95.33
##	207	810.	16	0.05	95.38
##	208	812f	16	0.05	95.43
##	209	010þ	15	0.05	95.48
##	210	142.	15	0.05	95.53
##	211	523b	15	0.05	95.58
##	212	6	15	0.05	95.63
##	213	622b	15	0.05	95.68
##	214	622d	15	0.05	95.73
##	215	143.	14	0.05	95.78
##	216	212b	14	0.05	95.83
##	217	342.	14	0.05	95.88
##	218	345h	14	0.05	95.93
##	219	521f	14	0.05	95.98
##	220	522a	14	0.05	96.03
##	221	720b	14	0.05	96.08
##	222	725b	14	0.05	96.13
##	223	010k	13	0.04	96.17
##	224	14	13	0.04	96.21
##	225	140a	13	0.04	96.25
##	226	140b	13	0.04	96.29
##	227	213g	13	0.04	96.33
##	228	31	13	0.04	96.37
##	229	321.	13	0.04	96.41
##	230	345a	13	0.04	96.45
##	231	482a	13	0.04	96.49
##	232	624a	13	0.04	96.53
##	233	624b	13	0.04	96.57
##	234	640.	13	0.04	96.61
##	234	861a	13	0.04	
##	236	213b	12		96.65
				0.04	96.69
##	237	222d	12	0.04	96.73
##	238	581b	12	0.04	96.77

##	239	72	12	0.04	96.81
##	240	762b	12	0.04	96.85
##	241	010y	11	0.04	96.89
	242	146d	11	0.04	96.93
	243	221c	11	0.04	96.97
	244	225b	11	0.04	97.01
	245	441.	11	0.04	97.05
	246	443c	11	0.04	97.09
	247	461.	11	0.04	97.13
##	248	521m	11	0.04	97.17
##	249	522i	11	0.04	97.21
	250	525h	11	0.04	97.25
##	251	726e	11	0.04	97.29
##	252	851.	11	0.04	97.33
##	253	010j	10	0.03	97.36
##	254	145e	10	0.03	97.39
##	255	146.	10	0.03	97.42
##	256	345b	10	0.03	97.45
##	257	4	10	0.03	97.48
##	258	727a	10	0.03	97.51
##	259	811c	10	0.03	97.54
	260	813a	10	0.03	97.57
	261	146c	9	0.03	97.60
	262	146e	9	0.03	97.63
	263	212a	9	0.03	97.66
	264	214a	9		
				0.03	97.69
	265	222m	9	0.03	97.72
	266	322.	9	0.03	97.75
	267	421b	9	0.03	97.78
	268	521k	9	0.03	97.81
	269	525a	9	0.03	97.84
##	270	582g	9	0.03	97.87
##	271	640a	9	0.03	97.90
##	272	76	9	0.03	97.93
##	273	210a	8	0.03	97.96
##	274	211e	8	0.03	97.99
##	275	212d	8	0.03	98.02
##	276	226.	8	0.03	98.05
##	277	310.	8	0.03	98.08
##	278	5211	8	0.03	98.11
##	279	541c	8	0.03	98.14
##	280	599.	8	0.03	98.17
##	281	726c	8	0.03	98.20
##	282	010p	7	0.02	98.22
##	283	010p 010ö	7	0.02	98.24
##	284	142d	7	0.02	98.26
##	285	146f	7	0.02	98.28
##	286	214c	7	0.02	98.30
##	287	214d	7	0.02	98.32
##	288	225e	7	0.02	98.34
##	289	312h	7	0.02	98.36
##	290	341a	7	0.02	98.38
##	291	522b	7	0.02	98.40
##	292	620.	7	0.02	98.42

##	293	724a	7	0.02	98.44
##	294	010o	6	0.02	98.46
##	295	010æ	6	0.02	98.48
	296	140.	6	0.02	98.50
	297	213a		0.02	98.52
			6		
	298	213h	6	0.02	98.54
	299	215c	6	0.02	98.56
##	300	222k	6	0.02	98.58
##	301	223a	6	0.02	98.60
##	302	223e	6	0.02	98.62
##	303	310b	6	0.02	98.64
##	304	319x	6	0.02	98.66
##	305	344.	6	0.02	98.68
##	306	345d	6	0.02	98.70
##	307	422b		0.02	98.72
			6		
##	308	522g	6	0.02	98.74
##	309	542a	6	0.02	98.76
##	310	582j	6	0.02	98.78
	311	623.	6	0.02	98.80
	312	145b	5	0.02	98.82
##	313	212f	5	0.02	98.84
##	314	215a	5	0.02	98.86
##	315	215f	5	0.02	98.88
	316	220.	5	0.02	98.90
	317	222ö	5	0.02	98.92
	318	223h	5	0.02	98.94
	319	225d	5	0.02	98.96
	320	312f	5	0.02	98.98
	321	421g	5	0.02	99.00
	322	442.	5	0.02	99.02
	323	520c	5	0.02	99.04
	324	540.	5	0.02	99.06
##	325	542d	5	0.02	99.08
##	326	58	5	0.02	99.10
##	327	624.	5	0.02	99.12
##	328	81	5	0.02	99.14
##	329	840c	5	0.02	99.16
##	330	0	4	0.01	99.17
##	331	010e	4	0.01	99.18
##	332	010c	4	0.01	99.19
	333				
##		222a	4	0.01	99.20
##	334	222j	4	0.01	99.21
##	335	312e	4	0.01	99.22
##	336	312g	4	0.01	99.23
##	337	312i	4	0.01	99.24
##	338	319.	4	0.01	99.25
##	339	341d	4	0.01	99.26
##	340	343b	4	0.01	99.27
##	341	345g	4	0.01	99.28
##	342	346a	4	0.01	99.29
##	343	421f	4	0.01	99.30
	344	44	4	0.01	99.31
##	345	462.	4	0.01	99.32
##	346	525e	4		
##	J40	J20 e	7	0.01	99.33

##	347	529.	4	0.01	99.34
##	348	543b	4	0.01	99.35
	349	727c	4	0.01	99.36
	350	812b	4	0.01	99.37
	351	010d	3	0.01	99.38
	352	010v	3	0.01	99.39
	353	142b	3	0.01	99.40
##	354	145d	3	0.01	99.41
##	355	145f	3	0.01	99.42
##	356	146g	3	0.01	99.43
	357	211c	3	0.01	99.44
	358	212h	3	0.01	99.45
	359	213i	3	0.01	99.46
	360	2221	3	0.01	99.47
				0.01	
	361	2220	3		99.48
	362	226b	3	0.01	99.49
	363	3	3	0.01	99.50
##	364	310c	3	0.01	99.51
##	365	312d	3	0.01	99.52
##	366	345k	3	0.01	99.53
##	367	345m	3	0.01	99.54
##	368	422.	3	0.01	99.55
	369	521h	3	0.01	99.56
	370	524a	3	0.01	99.57
	371	544.	3	0.01	99.58
	372	726f	3	0.01	99.59
		762d		0.01	
	373		3		99.60
	374	762f	3	0.01	99.61
	375	860.	3	0.01	99.62
	376	863.	3	0.01	99.63
##	377	010w	2	0.01	99.64
##	378	145c	2	0.01	99.65
##	379	211b	2	0.01	99.66
##	380	212c	2	0.01	99.67
##	381	212g	2	0.01	99.68
##	382	215e	2	0.01	99.69
	383	221a	2	0.01	99.70
##	384	32	2	0.01	99.71
##	385	322a	2	0.01	99.72
			2		
##	386	3451		0.01	99.73
##	387	349x	2	0.01	99.74
##	388	421d	2	0.01	99.75
##	389	421e	2	0.01	99.76
##	390	422d	2	0.01	99.77
##	391	443e	2	0.01	99.78
##	392	481g	2	0.01	99.79
##	393	5	2	0.01	99.80
##	394	522f	2	0.01	99.81
##	395	522h	2	0.01	99.82
##	396	5221	2	0.01	99.83
##	397	599x	2	0.01	99.84
##	398	622c	2	0.01	99.85
##	399	7	2	0.01	99.86
##	400	840d	2	0.01	99.87
##	1 00	0±0u	4	0.01	33.01

##	401	850a	2	0.01	99.88
	402	010í	1	0.00	99.88
##	403	010q	1	0.00	99.88
##	404	010u	1	0.00	99.88
##	405	149x	1	0.00	99.88
##	406	210b	1	0.00	99.88
##	407	213j	1	0.00	99.88
##	408	214b	1	0.00	99.88
##	409	214e	1	0.00	99.88
##	410	215g	1	0.00	99.88
##	411	221d	1	0.00	99.88
	412	222á	1	0.00	99.88
##	413	222p	1	0.00	99.88
##	414	223b	1	0.00	99.88
	415	223f	1	0.00	99.88
	416	223g	1	0.00	99.88
##	417	310a	1	0.00	99.88
	418	312j	1	0.00	99.88
	419	314b	1	0.00	99.88
	420	340c	1	0.00	99.88
	421	341c	1	0.00	99.88
	422	347.	1	0.00	99.88
	423	421i	1	0.00	99.88
	424	440.	1	0.00	99.88
	425	481e	1	0.00	99.88
	426	481h	1	0.00	99.88
	427	482.	1	0.00	99.88
	428	499x	1	0.00	99.88
	429	521o	1	0.00	99.88
	430	541d	1	0.00	99.88
	431	542e	1	0.00	99.88
	432	581d	1	0.00	99.88
	433	581e	1	0.00	99.88
	434	623a	1	0.00	99.88
	435	720c	1	0.00	99.88
	436	8	1	0.00	99.88
	437	812g	1	0.00	99.88
	438	814c	1	0.00	99.88
	439	815c	1	0.00	99.88
	440	840e	1	0.00	99.88
	441	850.	1	0.00	99.88
##	442	853.	1	0.00	100.00



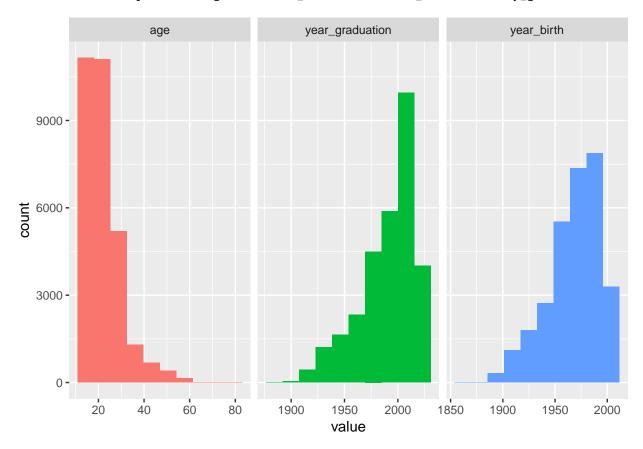
Frequency / (Percentage %)

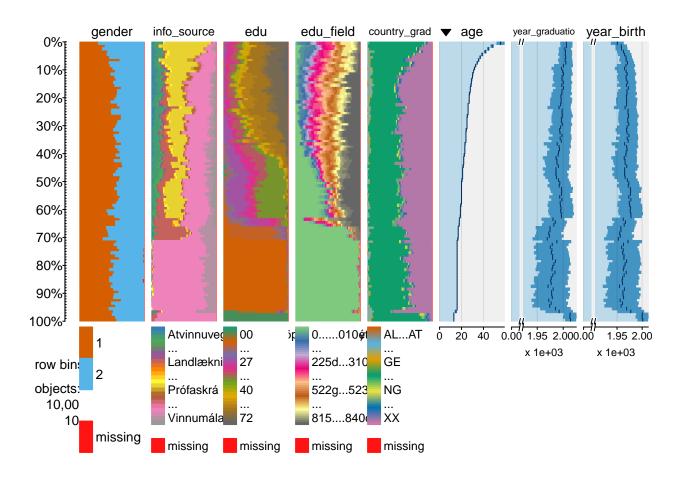
##		<pre>country_grad</pre>	frequency	${\tt percentage}$	<pre>cumulative_perc</pre>
##	1	IS	15069	50.23	50.23
##	2	XX	11873	39.58	89.81
##	3	DK	784	2.61	92.42
##	4	PL	471	1.57	93.99
##	5	SE	374	1.25	95.24
##	6	NO	279	0.93	96.17
##	7	US	239	0.80	96.97
##	8	DE	117	0.39	97.36
##	9	GB	93	0.31	97.67
##	10	FI	48	0.16	97.83
##	11	LT	45	0.15	97.98
##	12	PH	39	0.13	98.11
##	13	TH	37	0.12	98.23
##	14	CA	31	0.10	98.33
##	15	PT	29	0.10	98.43
##	16	SK	29	0.10	98.53
##	17	VN	28	0.09	98.62
##	18	CN	26	0.09	98.71
##	19	IT	26	0.09	98.80
##	20	FR	25	0.08	98.88
##	21	LV	20	0.07	98.95
##	22	ES	17	0.06	99.01
##	23	AT	14	0.05	99.06
##	24	CZ	13	0.04	99.10
##	25	NL	13	0.04	99.14

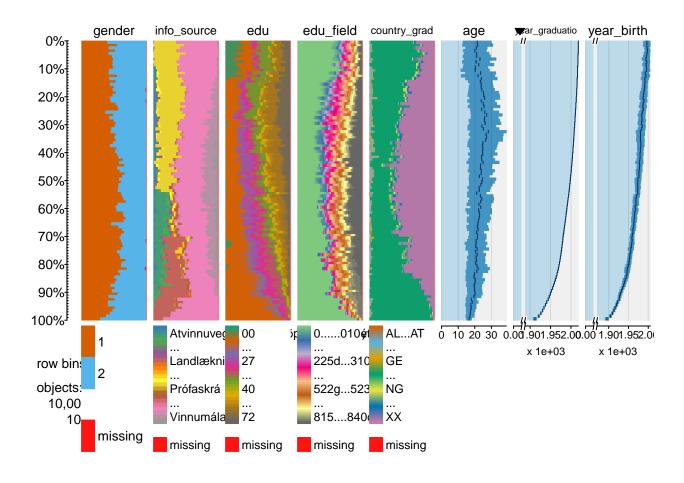
##	26	RS	13	0.04	99.18
##	27	HU	12	0.04	99.22
##	28	NZ	12	0.04	99.26
##	29	IN	11	0.04	99.30
##	30	RO	11	0.04	99.34
##	31	СН	10	0.03	99.37
##	32	HR	10	0.03	99.40
##	33	BA	9	0.03	99.43
##	34	CO	9	0.03	99.46
##	35	LU	8	0.03	99.49
##	36	RU	8	0.03	99.52
##	37	AU	7	0.02	99.54
##	38	F0	7	0.02	99.56
##	39	NP	6	0.02	99.58
##	40	BE	5	0.02	99.60
##	41	BG	5	0.02	99.62
	42	IE	5	0.02	99.64
	43	SI	5	0.02	99.66
	44	SY	5	0.02	99.68
	45	AL	4	0.01	99.69
	46	EE	4	0.01	99.70
	47	ID	4	0.01	99.71
	48	PK	4	0.01	99.72
	49	UA	4	0.01	99.73
	50	BR	3	0.01	99.74
##	51	ВҮ	3	0.01	99.75
##	52	CL	3	0.01	99.76
	53	KE	3	0.01	99.77
##	54	MK	3	0.01	99.78
##	55	MX	3	0.01	99.79
##	56	NG	3	0.01	99.80
##	57	QR	3	0.01	99.81
##	58	YU	3	0.01	99.82
##	59	YY	3	0.01	99.83
##	60	AR	2	0.01	99.84
##	61	CR	2	0.01	99.85
	62	DZ	2	0.01	99.86
	63	ET	2	0.01	99.87
##	64	GL	2	0.01	99.88
##	65	GR	2	0.01	99.89
##	66	HN	2	0.01	99.90
##	67	IL	2	0.01	99.91
##	68	IR	2	0.01	99.92
##	69	JP	2	0.01	99.93
##	70	LK	2	0.01	99.94
##	71	MA	2	0.01	99.95
##	72	MY	2	0.01	99.96
##	73	SL	2	0.01	99.97
##	74	SU	2	0.01	99.98
##	75	ZA	2	0.01	99.99
##	76	AZ	1	0.00	99.99
##	77	BO	1	0.00	99.99
##	78	CY	1	0.00	99.99
##	79	DD	1	0.00	99.99
11.11	. 5	20	-		55.55

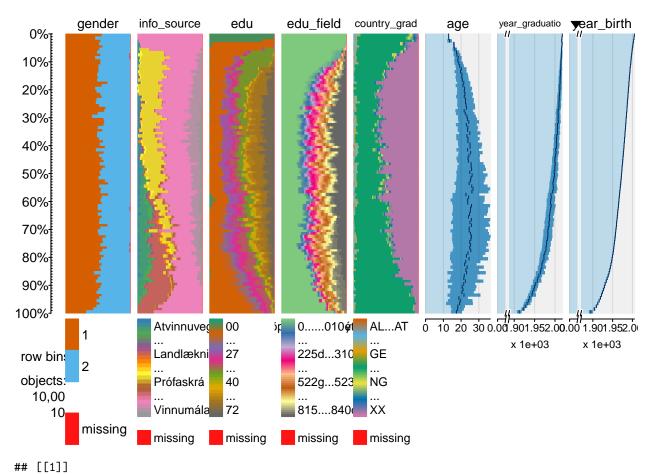
##	80	EC	1	0.00	99.99
##	81	GE	1	0.00	99.99
##	82	IQ	1	0.00	99.99
##	83	JM	1	0.00	99.99
##	84	JO	1	0.00	99.99
##	85	KZ	1	0.00	99.99
##	86	LB	1	0.00	99.99
##	87	MN	1	0.00	99.99
##	88	PE	1	0.00	99.99
##	89	SG	1	0.00	99.99
##	90	SN	1	0.00	99.99
##	91	SO	1	0.00	99.99
##	92	TR	1	0.00	99.99
##	93	TZ	1	0.00	99.99
##	94	UG	1	0.00	99.99
##	95	VU	1	0.00	99.99
##	96	<na></na>	1	0.00	100.00

[1] "Variables processed: gender, info_source, edu, edu_field, country_grad"









NULL ## ## [[2]]

NULL

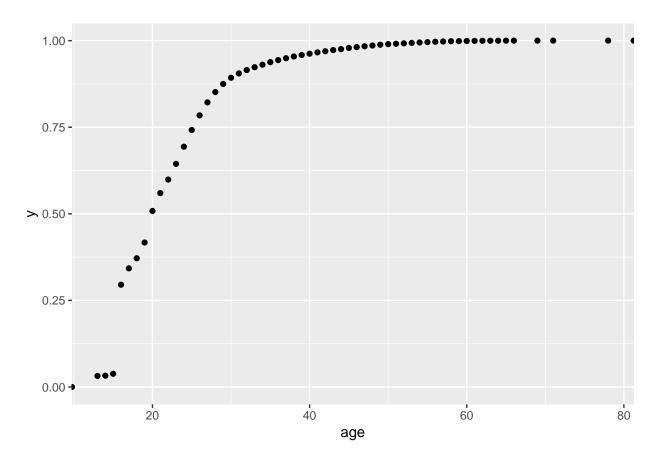
[[3]]

NULL

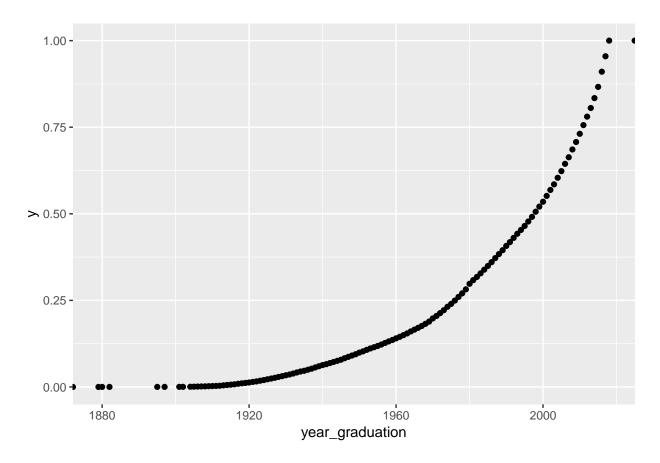
view_univar

Marginal cumulative distributions

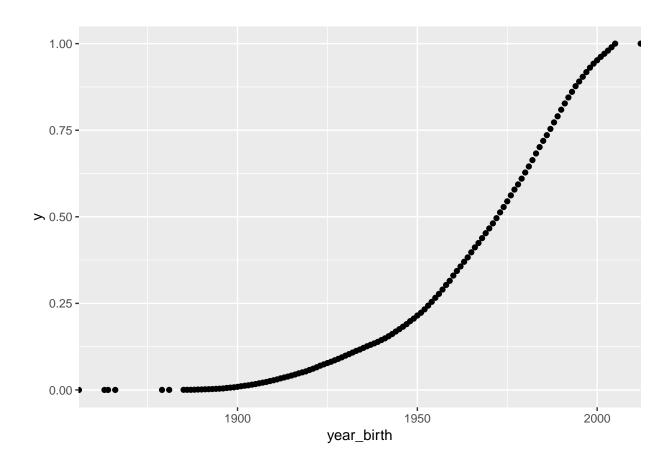
[[1]]



[[2]]



[[3]]

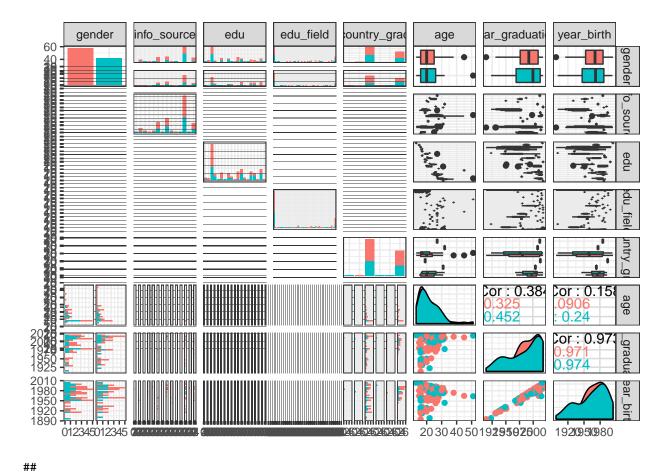


view multivar

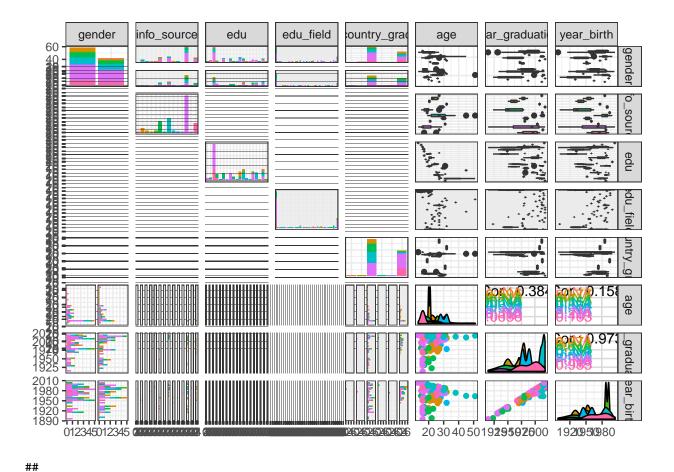
Pairwise bivariate distributions and correlation plots

Note that: printing is not yet "addapted" to size of data and paper

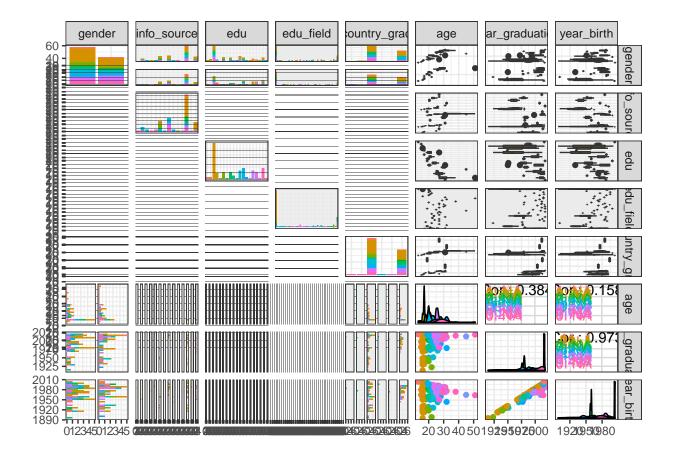
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## [[1]]
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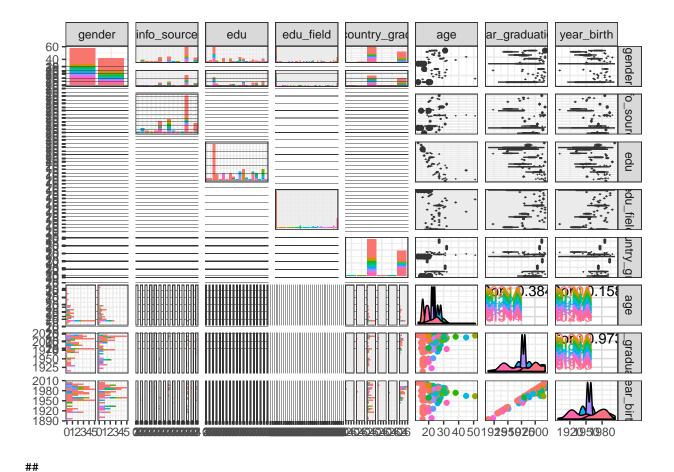


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## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
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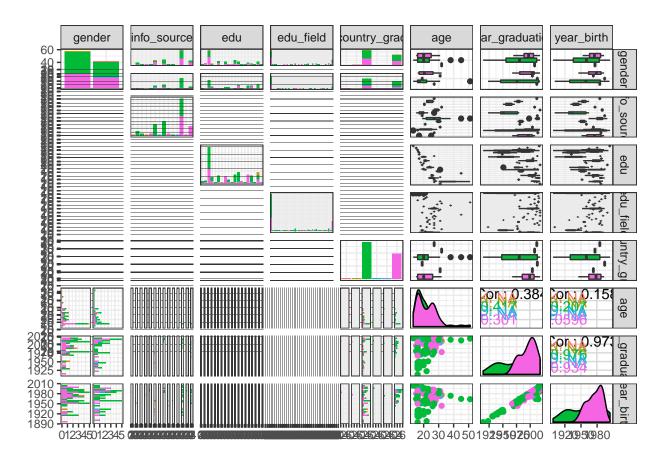


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## [[4]]
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
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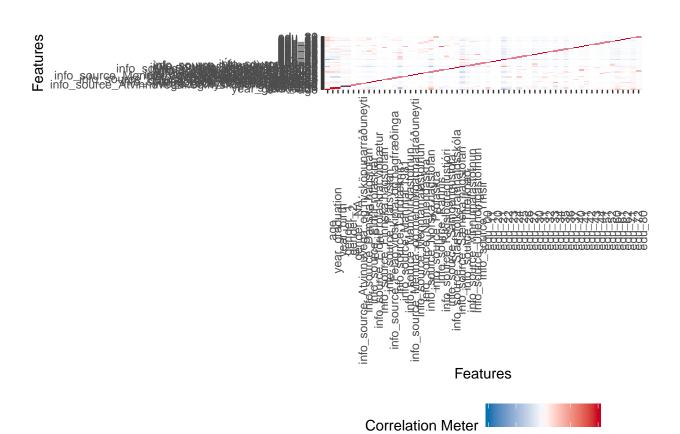


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## [[5]]
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
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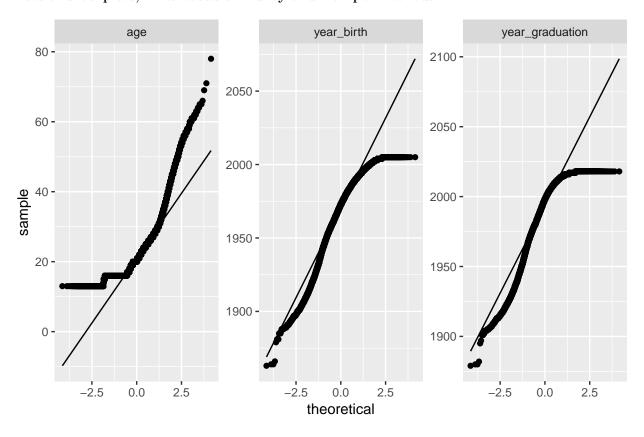
2 features with more than 50 categories ignored!

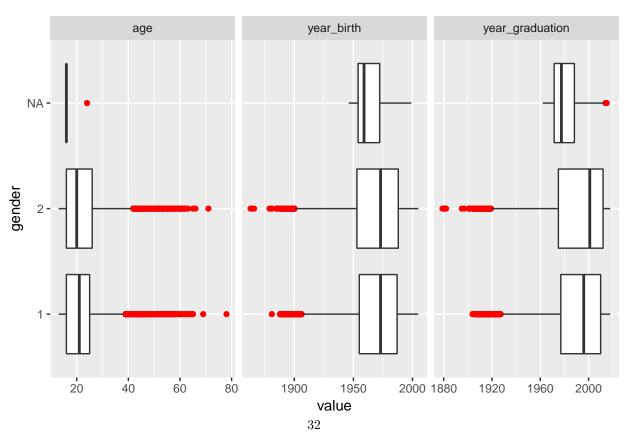
edu_field: 442 categories
country_grad: 96 categories

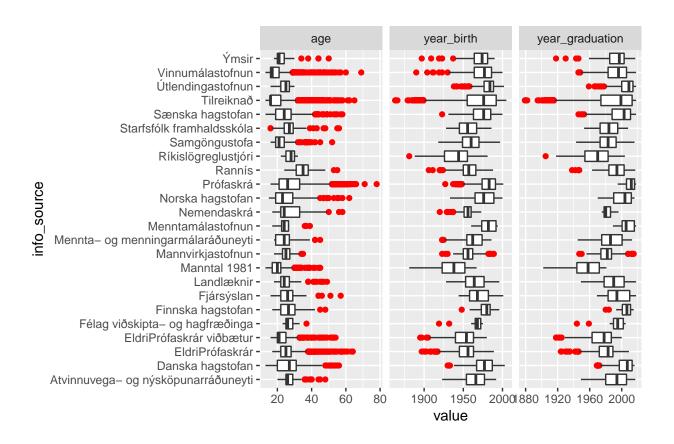


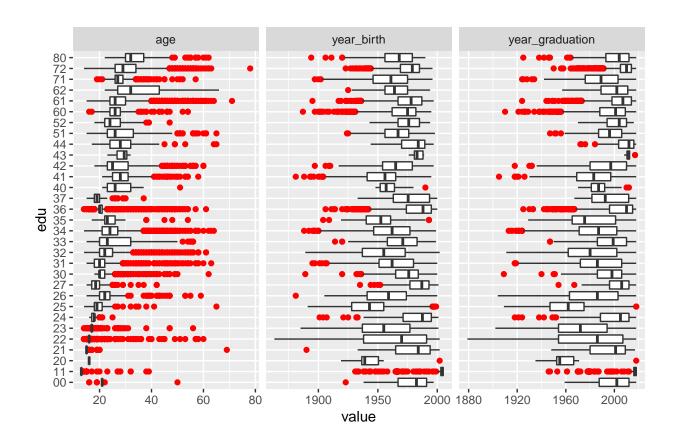
-1.0 -0.5 0.0 0.5 1.0

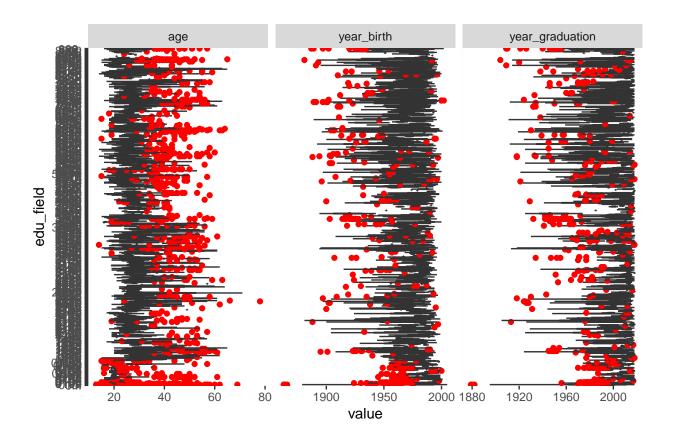
 $\begin{tabular}{ll} \bf view_outliers \\ \bf Plots \ and \ boxplots, limits \ based \ on \ Tukey \ and \ Hampel \ methods \\ \end{tabular}$

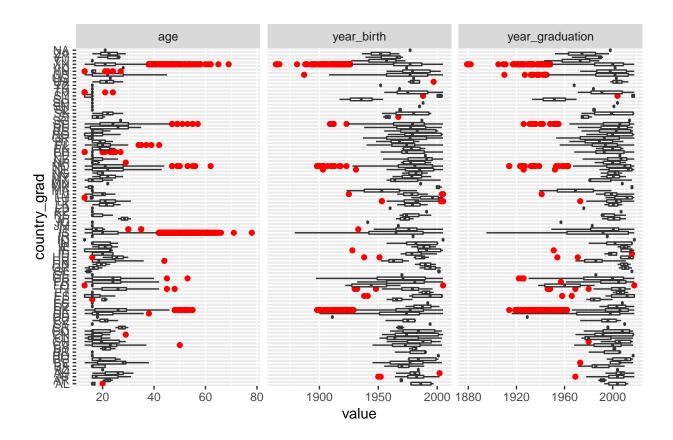




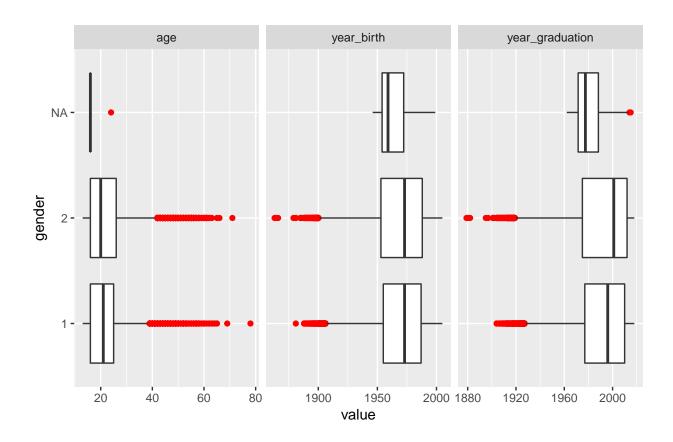




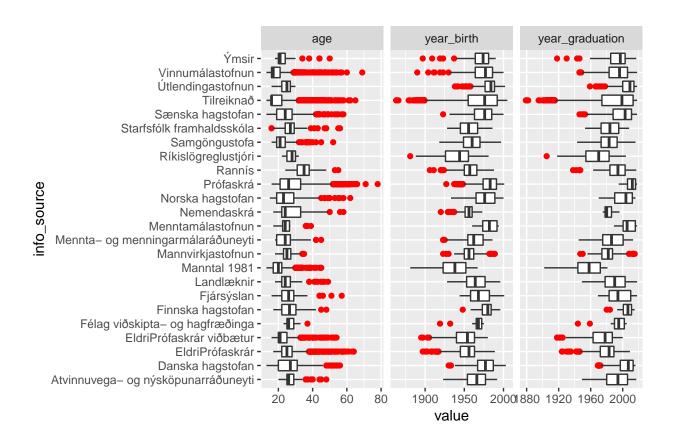




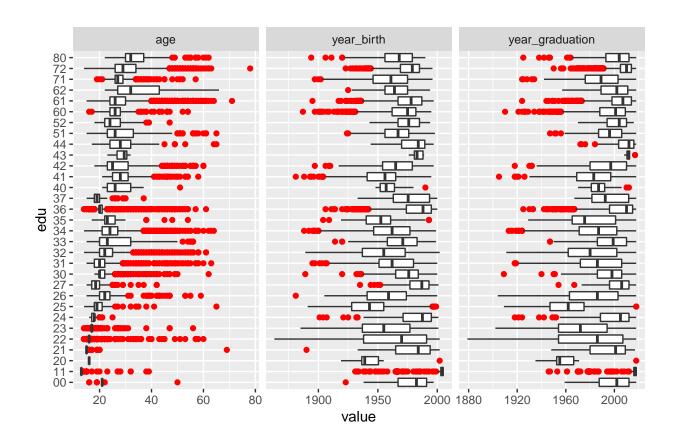
[[1]] ## [[1]]\$page_1

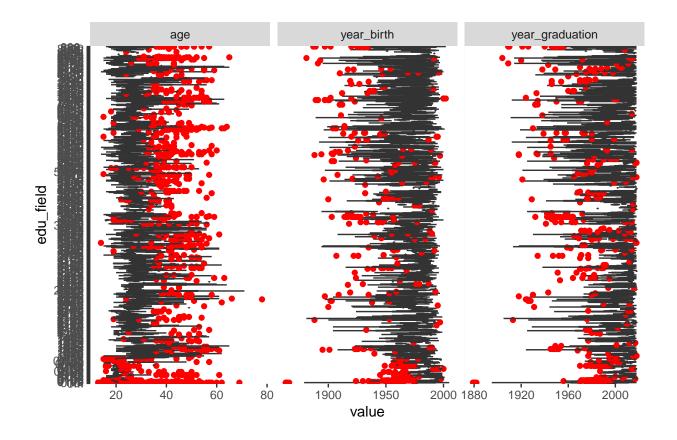


[[2]] ## [[2]]\$page_1

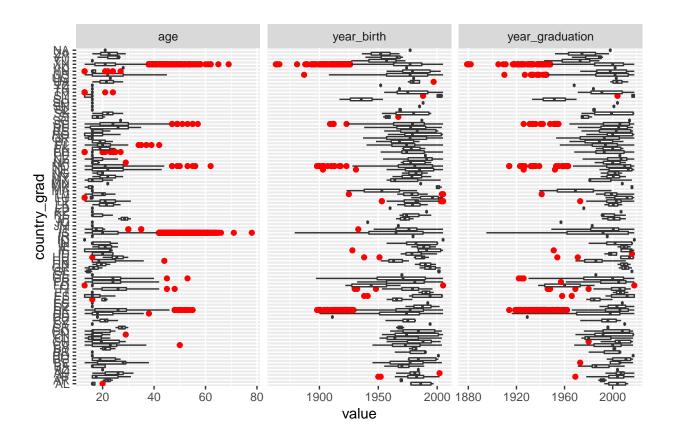


```
##
## [[3]]
## [[3]]$page_1
```





[[5]]\$page_1



	age
$bottom_threshold$	-14
$top_threshold$	56

	$year_graduation$
$bottom_threshold$	1875
$top_threshold$	2113

		$year_{\underline{}}$	$_{ m birth}$
bottom_	threshold	1855	
top_thres	shold	2086	

	age
$bottom_threshold$	2.2088
$top_threshold$	37.7912

	$year_graduation$
$bottom_threshold$	1912.2157
$top_threshold$	2076.7843

	year_birth
$bottom_threshold$	1895.3874
$top_threshold$	2046.6126

view_assoc

With validation rules mining potential. Under development.

view clusters

Potentialy identifying unwanted structures or confirming known ones. Under development.

rev_variability

information theory based measures, for categorical variables

```
##
      d_res
      "var1" "gender"
                                   "gender"
                                                         "gender"
##
      "var2" "info_source"
                                   "edu"
                                                         "edu_field"
##
## en " "
             "3.775"
                                   "4.758"
                                                         "5.955"
## mi " "
             "0.029"
                                   "0.056"
                                                         "0.195"
## ig " "
             "0.0289222787196088" "0.055532621834947" "0.193285070225961"
## gr " "
             "0.0290359305692985" "0.0557508406430445" "0.194044595641006"
##
##
      "gender"
                            "info_source"
                                                  "info_source"
##
      "country_grad"
                            "gender"
                                                  "edu"
## en "2.75"
                            "3.775"
                                                  "5.591"
## mi "0.014"
                            "0.029"
                                                  "1.034"
## ig "0.0147054975009455" "0.0293616545707784" "1.03438577710177"
## gr "0.0147632836459375" "0.0104553981667661" "0.368334663551355"
##
##
      "info_source"
                           "info_source"
                                                "edu"
      "edu_field"
                                                "gender"
##
                           "country_grad"
                           "3.72"
## en "6.684"
                                                "4.758"
## mi "1.276"
                           "0.857"
                                                "0.056"
                           "0.856809862763192" "0.0562102501816651"
## ig "1.27628896650394"
## gr "0.454474024564323" "0.30510161635499"
                                                "0.0147241479311459"
##
##
      "edu"
                           "edu"
                                                "edu"
      "info_source"
                           "edu_field"
##
                                                "country_grad"
## en "5.591"
                           "6.643"
                                                "5.302"
## mi "1.034"
                           "2.326"
                                                "0.284"
## ig "1.03438577710177"
                           "2.32603173840855" "0.284380106977406"
## gr "0.270955015334333" "0.609298754198382" "0.0744927259757373"
##
##
      "edu_field"
                            "edu_field"
                                                 "edu_field"
      "gender"
                                                 "edu"
##
                            "info_source"
## en "5.955"
                            "6.684"
                                                 "6.643"
## mi "0.195"
                            "1.276"
                                                 "2.326"
## ig "0.194459242812064"
                           "1.27628896650394"
                                                 "2.32603173840855"
## gr "0.0377446573022946" "0.247728464652864" "0.451484175145851"
##
##
      "edu_field"
                            "country_grad"
                                                  "country_grad"
                            "gender"
                                                  "info_source"
      "country_grad"
## en "6.491"
                            "2.75"
                                                  "3.72"
```

```
## mi "0.43"
                           "0.014"
                                                "0.857"
## ig "0.429554988421615" "0.0143514685183413" "0.856984861777206"
## gr "0.0833768845131961" "0.008113523021323" "0.484491632063189"
##
##
      "country_grad"
                          "country_grad"
##
      "edu"
                          "edu_field"
## en "5.302"
                          "6.491"
## mi "0.284"
                          "0.43"
## ig "0.284379250978661" "0.429490700221313"
## gr "0.160772230148655" "0.24281018205463"
```

rev_ts

univariate and multivariate time series: detection of anomalous features, tests of stationarity and (auto/cross)-correlation

```
rev_model()
```

Model testing

check_assumptions()

Checking test or model assumptions aout data

reviewed

Reporting function