Title Placeholder

Load in Specific Packages

```
library(readr)
library(tidyr)
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(here)
## here() starts at C:/Users/romin/ToyRepo
library(lemon)
## Warning: package 'lemon' was built under R version 4.4.2
library(kableExtra)
## Warning: package 'kableExtra' was built under R version 4.4.2
##
## Attaching package: 'kableExtra'
## The following object is masked from 'package:dplyr':
##
##
       group_rows
library(ggplot2)
## Warning: package 'ggplot2' was built under R version 4.4.2
library(reshape())
## Warning: package 'reshape' was built under R version 4.4.2
##
## Attaching package: 'reshape'
## The following object is masked from 'package:dplyr':
##
##
       rename
## The following objects are masked from 'package:tidyr':
##
##
       expand, smiths
```

```
library(hexbin)
## Warning: package 'hexbin' was built under R version 4.4.2
library(data.table)
##
## Attaching package: 'data.table'
## The following object is masked from 'package:reshape':
##
##
       melt
## The following objects are masked from 'package:dplyr':
##
       between, first, last
##
library(formattable)
## Warning: package 'formattable' was built under R version 4.4.2
Load in the data
cancerReg <- read.csv("C:\\Users\\romin\\ToyRepo\\Models\\cancerReg.csv")</pre>
```

Remove Uncessary Data for Analysis

cancerReg <- cancerReg %>% select(-area_type,-period,-type_definition,-indicator, -upper_confidence_int
cancerReg

```
##
       area_code
                                   area_name year measure
## 1
      S08000015
                       NHS Ayrshire & Arran 2003
                                                    649.7
## 2
                                NHS Borders 2003
      S08000016
                                                    614.6
## 3
      S08000017
                    NHS Dumfries & Galloway 2003
                                                    620.5
## 4
      S08000019
                            NHS Forth Valley 2003
                                                    651.8
## 5
      S08000020
                               NHS Grampian 2003
                                                    617.8
## 6
      S08000022
                               NHS Highland 2003
                                                    602.9
## 7
      S08000024
                                NHS Lothian 2003
                                                    655.1
## 8
      S08000025
                                 NHS Orkney 2003
                                                    589.0
## 9
                               NHS Shetland 2003
                                                    616.0
      S08000026
## 10 S08000028
                          NHS Western Isles 2003
                                                    652.0
## 11 S08000029
                                   NHS Fife 2003
                                                    611.4
## 12 S08000030
                                NHS Tayside 2003
                                                    611.2
## 13 S08000031 NHS Greater Glasgow & Clyde 2003
                                                    697.3
## 14 S08000032
                            NHS Lanarkshire 2003
                                                    633.7
## 15 S08000015
                       NHS Ayrshire & Arran 2004
                                                    642.8
## 16 S08000016
                                 NHS Borders 2004
                                                    616.8
## 17 S08000017
                    NHS Dumfries & Galloway 2004
                                                    645.2
## 18 S08000019
                           NHS Forth Valley 2004
                                                    648.2
## 19 S08000020
                               NHS Grampian 2004
                                                    601.5
## 20 S08000022
                               NHS Highland 2004
                                                    594.5
## 21 S08000024
                                NHS Lothian 2004
                                                    660.8
## 22 S08000025
                                 NHS Orkney 2004
                                                    582.4
## 23 S08000026
                               NHS Shetland 2004
                                                    636.7
## 24 S08000028
                          NHS Western Isles 2004
                                                    628.1
## 25 S08000029
                                   NHS Fife 2004
                                                   614.0
```

```
## 26
       S08000030
                                   NHS Tayside 2004
                                                       607.3
       S08000031 NHS Greater Glasgow & Clyde 2004
## 27
                                                       693.9
       S08000032
                              NHS Lanarkshire 2004
                                                       632.7
##
  29
       S08000015
                         NHS Ayrshire & Arran 2005
                                                       631.6
##
   30
       S08000016
                                   NHS Borders 2005
                                                       632.7
   31
##
       S08000017
                      NHS Dumfries & Galloway 2005
                                                       639.4
   32
                             NHS Forth Valley 2005
       S08000019
                                                       642.8
## 33
       S08000020
                                  NHS Grampian 2005
                                                       589.7
##
   34
       S08000022
                                  NHS Highland 2005
                                                       598.9
##
  35
       S08000024
                                  NHS Lothian 2005
                                                       659.4
   36
       S08000025
                                    NHS Orkney 2005
                                                       587.1
   37
##
       S08000026
                                 NHS Shetland 2005
                                                       571.8
##
   38
       S08000028
                            NHS Western Isles 2005
                                                       610.3
   39
       S08000029
                                      NHS Fife 2005
##
                                                       630.7
##
  40
                                                       600.6
       S08000030
                                   NHS Tayside 2005
## 41
       S08000031 NHS Greater Glasgow & Clyde 2005
                                                       695.0
##
  42
       S08000032
                              NHS Lanarkshire 2005
                                                       643.5
##
  43
       S08000015
                         NHS Ayrshire & Arran 2006
                                                       626.1
##
  44
       S08000016
                                   NHS Borders 2006
                                                       641.5
##
  45
       S08000017
                      NHS Dumfries & Galloway 2006
                                                       642.1
##
   46
       S08000019
                             NHS Forth Valley 2006
                                                       618.3
   47
       S08000020
                                  NHS Grampian 2006
                                                       586.6
                                 NHS Highland 2006
                                                       613.3
## 48
       S08000022
   49
                                   NHS Lothian 2006
##
       S08000024
                                                       666.1
## 50
       S08000025
                                    NHS Orkney 2006
                                                       598.1
   51
       S08000026
                                 NHS Shetland 2006
                                                       574.3
##
  52
       S08000028
                            NHS Western Isles 2006
                                                       664.4
##
   53
       S08000029
                                      NHS Fife 2006
                                                       641.7
##
   54
                                   NHS Tayside 2006
       S08000030
                                                       596.0
   55
       S08000031 NHS Greater Glasgow & Clyde 2006
                                                       687.6
## 56
       S08000032
                              NHS Lanarkshire 2006
                                                       637.3
##
  57
       S08000015
                         NHS Ayrshire & Arran 2007
                                                       636.4
##
   58
       S08000016
                                   NHS Borders 2007
                                                       643.5
##
  59
       S08000017
                      NHS Dumfries & Galloway 2007
                                                       613.4
##
   60
       S08000019
                             NHS Forth Valley 2007
                                                       633.2
##
   61
                                 NHS Grampian 2007
       S08000020
                                                       595.9
   62
       S08000022
                                  NHS Highland 2007
                                                       627.4
## 63
       S08000024
                                   NHS Lothian 2007
                                                       668.7
##
  64
       S08000025
                                    NHS Orkney 2007
                                                       587.4
##
  65
                                  NHS Shetland 2007
       S08000026
                                                       562.6
                            NHS Western Isles 2007
   66
       S08000028
                                                       707.2
##
  67
       S08000029
                                      NHS Fife 2007
                                                       648.9
##
   68
       S08000030
                                   NHS Tayside 2007
                                                       617.6
##
   69
       S08000031 NHS Greater Glasgow & Clyde 2007
                                                       698.1
   70
       S08000032
                              NHS Lanarkshire 2007
                                                       640.5
## 71
                                                       648.2
       S08000015
                         NHS Ayrshire & Arran 2008
##
  72
       S08000016
                                   NHS Borders 2008
                                                       627.5
  73
##
       S08000017
                      NHS Dumfries & Galloway 2008
                                                       619.8
##
  74
       S08000019
                             NHS Forth Valley 2008
                                                       638.9
##
  75
       S08000020
                                  NHS Grampian 2008
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##
  76
                                  NHS Highland 2008
       S08000022
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##
  77
       S08000024
                                  NHS Lothian 2008
                                                       683.4
## 78
       S08000025
                                    NHS Orkney 2008
                                                       589.3
## 79
       S08000026
                                 NHS Shetland 2008
                                                       594.9
```

```
## 80
       S08000028
                            NHS Western Isles 2008
                                                      726.0
## 81
       S08000029
                                     NHS Fife 2008
                                                      643.9
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## 82
                                  NHS Tayside 2008
                                                      621.1
##
  83
       S08000031 NHS Greater Glasgow & Clyde 2008
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   84
       S08000032
                              NHS Lanarkshire 2008
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##
   85
       S08000015
                         NHS Ayrshire & Arran 2009
                                                      652.2
   86
                                  NHS Borders 2009
       S08000016
                                                      633.8
## 87
       S08000017
                     NHS Dumfries & Galloway 2009
                                                      609.1
##
  88
       S08000019
                             NHS Forth Valley 2009
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                                                      605.4
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                                 NHS Highland 2009
                                                      625.8
## 91
       S08000024
                                  NHS Lothian 2009
                                                      681.6
##
  92
       S08000025
                                   NHS Orkney 2009
                                                      543.0
## 93
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                                                      596.0
## 94
       S08000028
                            NHS Western Isles 2009
                                                      715.0
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       S08000029
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## 96
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       S08000030
                                                      613.7
       S08000031 NHS Greater Glasgow & Clyde 2009
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                              NHS Lanarkshire 2009
## 98
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                         NHS Ayrshire & Arran 2010
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## 100 S08000016
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## 101 S08000017
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## 102 S08000019
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## 105 S08000024
                                  NHS Lothian 2010
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## 106 S08000025
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## 107 S08000026
                                 NHS Shetland 2010
                                                      663.4
## 108 S08000028
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## 109 S08000029
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                                  NHS Tayside 2010
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## 111 S08000031 NHS Greater Glasgow & Clyde 2010
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                              NHS Lanarkshire 2010
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## 113 S08000015
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                         NHS Ayrshire & Arran 2011
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## 115 S08000017
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## 116 S08000019
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## 117 S08000020
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## 118 S08000022
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## 125 S08000031 NHS Greater Glasgow & Clyde 2011
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## 126 S08000032
                              NHS Lanarkshire 2011
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## 127 S08000015
                         NHS Ayrshire & Arran 2012
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## 128 S08000016
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## 129 S08000017
                     NHS Dumfries & Galloway 2012
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## 130 S08000019
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## 131 S08000020
                                 NHS Grampian 2012
                                                      606.8
## 132 S08000022
                                 NHS Highland 2012
                                                      614.3
## 133 S08000024
                                  NHS Lothian 2012
                                                      691.6
```

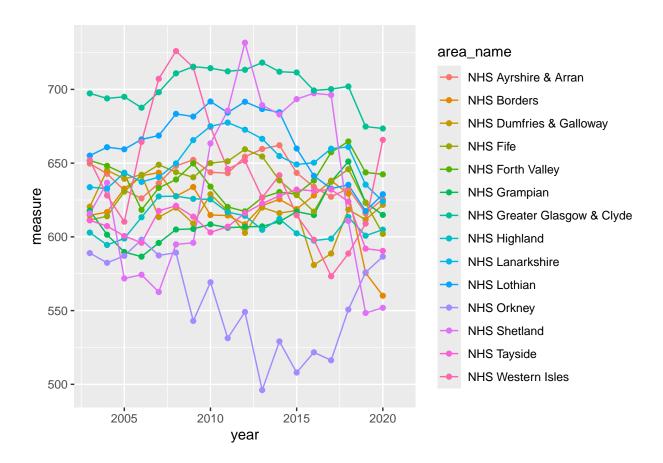
```
## 134 S08000025
                                  NHS Orkney 2012
                                                      549.1
## 135 S08000026
                                NHS Shetland 2012
                                                      731.7
                            NHS Western Isles 2012
## 136 S08000028
                                                      651.6
                                     NHS Fife 2012
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## 138 S08000030
                                  NHS Tayside 2012
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## 139 S08000031 NHS Greater Glasgow & Clyde 2012
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## 140 S08000032
                              NHS Lanarkshire 2012
                                                      672.7
## 141 S08000015
                        NHS Ayrshire & Arran 2013
                                                      659.6
## 142 S08000016
                                  NHS Borders 2013
                                                      621.2
## 143 S08000017
                     NHS Dumfries & Galloway 2013
                                                      619.9
## 144 S08000019
                             NHS Forth Valley 2013
                                                      626.7
## 145 S08000020
                                 NHS Grampian 2013
                                                      607.1
## 146 S08000022
                                 NHS Highland 2013
                                                      604.8
## 147 S08000024
                                                      686.7
                                  NHS Lothian 2013
## 148 S08000025
                                   NHS Orkney 2013
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## 149 S08000026
                                 NHS Shetland 2013
                                                      689.3
## 150 S08000028
                            NHS Western Isles 2013
                                                      626.6
## 151 S08000029
                                     NHS Fife 2013
                                                      654.5
## 152 S08000030
                                  NHS Tayside 2013
                                                      622.6
## 153 S08000031 NHS Greater Glasgow & Clyde 2013
                                                      718.2
## 154 S08000032
                              NHS Lanarkshire 2013
                                                      666.5
## 155 S08000015
                         NHS Ayrshire & Arran 2014
                                                      662.1
## 156 S08000016
                                  NHS Borders 2014
                                                      625.5
## 157 S08000017
                     NHS Dumfries & Galloway 2014
                                                      616.1
## 158 S08000019
                             NHS Forth Valley 2014
                                                      630.4
## 159 S08000020
                                 NHS Grampian 2014
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## 160 S08000022
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                                                      612.2
## 161 S08000024
                                  NHS Lothian 2014
                                                      684.5
## 162 S08000025
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## 163 S08000026
                                 NHS Shetland 2014
                                                      683.1
## 164 S08000028
                            NHS Western Isles 2014
                                                      641.8
## 165 S08000029
                                     NHS Fife 2014
                                                      638.3
## 166 S08000030
                                  NHS Tayside 2014
                                                      627.8
## 167 S08000031 NHS Greater Glasgow & Clyde 2014
                                                      712.0
## 168 S08000032
                              NHS Lanarkshire 2014
                                                      654.8
## 169 S08000015
                        NHS Ayrshire & Arran 2015
                                                      643.4
## 170 S08000016
                                  NHS Borders 2015
                                                      618.9
## 171 S08000017
                     NHS Dumfries & Galloway 2015
                                                      617.9
## 172 S08000019
                             NHS Forth Valley 2015
                                                      628.9
                                 NHS Grampian 2015
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## 174 S08000022
                                 NHS Highland 2015
                                                      602.4
## 175 S08000024
                                  NHS Lothian 2015
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                                                      508.0
## 177 S08000026
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                                                      693.4
## 178 S08000028
                            NHS Western Isles 2015
                                                      614.6
## 179 S08000029
                                     NHS Fife 2015
                                                      628.3
## 180 S08000030
                                  NHS Tayside 2015
                                                      632.1
## 181 S08000031 NHS Greater Glasgow & Clyde 2015
                                                      711.5
## 182 S08000032
                              NHS Lanarkshire 2015
                                                      649.1
## 183 S08000015
                         NHS Ayrshire & Arran 2016
                                                      633.9
## 184 S08000016
                                  NHS Borders 2016
                                                      628.1
                     NHS Dumfries & Galloway 2016
## 185 S08000017
                                                      580.9
## 186 S08000019
                            NHS Forth Valley 2016
                                                      638.2
                                 NHS Grampian 2016
## 187 S08000020
                                                      614.8
```

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NHS Highland 2016
## 188 S08000022
                                                     597.5
                               NHS Lothian 2016
## 189 S08000024
                                                     641.4
                                 NHS Orkney 2016
## 190 S08000025
                                                     521.7
## 191 S08000026
                                NHS Shetland 2016
                                                     697.4
## 192 S08000028
                           NHS Western Isles 2016
                                                     598.1
## 193 S08000029
                                     NHS Fife 2016
                                                     617.1
                                 NHS Tayside 2016
## 194 S08000030
                                                     631.2
## 195 S08000031 NHS Greater Glasgow & Clyde 2016
                                                     699.3
## 196 S08000032
                             NHS Lanarkshire 2016
                                                     650.3
## 197 S08000015
                        NHS Ayrshire & Arran 2017
                                                     627.2
## 198 S08000016
                                  NHS Borders 2017
                                                     638.1
## 199 S08000017
                     NHS Dumfries & Galloway 2017
                                                     588.7
## 200 S08000019
                            NHS Forth Valley 2017
                                                     657.4
                                 NHS Grampian 2017
## 201 S08000020
                                                     637.4
## 202 S08000022
                                 NHS Highland 2017
                                                     598.8
## 203 S08000024
                                NHS Lothian 2017
                                                     632.7
## 204 S08000025
                                 NHS Orkney 2017
                                                     516.3
## 205 S08000026
                                 NHS Shetland 2017
                                                     696.2
## 206 S08000028
                           NHS Western Isles 2017
                                                     573.3
## 207 S08000029
                                     NHS Fife 2017
                                                     637.5
## 208 S08000030
                                 NHS Tayside 2017
                                                     632.1
## 209 S08000031 NHS Greater Glasgow & Clyde 2017
                                                     700.2
## 210 S08000032
                             NHS Lanarkshire 2017
                                                     659.8
## 211 S08000015
                        NHS Ayrshire & Arran 2018
                                                     632.8
## 212 S08000016
                                  NHS Borders 2018
                                                     629.3
                     NHS Dumfries & Galloway 2018
## 213 S08000017
                                                     618.5
## 214 S08000019
                            NHS Forth Valley 2018
                                                     664.7
                                 NHS Grampian 2018
## 215 S08000020
                                                     651.1
## 216 S08000022
                                 NHS Highland 2018
                                                     613.4
## 217 S08000024
                                 NHS Lothian 2018
                                                     635.3
## 218 S08000025
                                   NHS Orkney 2018
                                                     550.7
## 219 S08000026
                                 NHS Shetland 2018
                                                     610.8
## 220 S08000028
                           NHS Western Isles 2018
                                                     588.7
## 221 S08000029
                                     NHS Fife 2018
                                                     645.9
## 222 S08000030
                                  NHS Tayside 2018
                                                     623.9
## 223 S08000031 NHS Greater Glasgow & Clyde 2018
                                                     702.0
## 224 S08000032
                             NHS Lanarkshire 2018
                                                     661.0
## 225 S08000015
                        NHS Ayrshire & Arran 2019
                                                     616.0
## 226 S08000016
                                  NHS Borders 2019
                                                     575.6
                     NHS Dumfries & Galloway 2019
## 227 S08000017
                                                     611.7
## 228 S08000019
                            NHS Forth Valley 2019
                                                     643.7
## 229 S08000020
                                NHS Grampian 2019
                                                     623.3
                                 NHS Highland 2019
## 230 S08000022
                                                     600.8
## 231 S08000024
                                 NHS Lothian 2019
                                                     617.5
## 232 S08000025
                                   NHS Orkney 2019
                                                     575.9
## 233 S08000026
                                 NHS Shetland 2019
                                                     548.4
## 234 S08000028
                           NHS Western Isles 2019
                                                     609.0
## 235 S08000029
                                     NHS Fife 2019
                                                     623.1
## 236 S08000030
                                 NHS Tayside 2019
                                                     592.0
## 237 S08000031 NHS Greater Glasgow & Clyde 2019
                                                     674.8
## 238 S08000032
                             NHS Lanarkshire 2019
                                                     635.4
## 239 S08000015
                        NHS Ayrshire & Arran 2020
                                                     625.5
## 240 S08000016
                                  NHS Borders 2020
                                                     560.1
## 241 S08000017
                  NHS Dumfries & Galloway 2020
                                                     621.7
```

```
## 242 S08000019
                            NHS Forth Valley 2020
                                                     642.4
## 243 S08000020
                                NHS Grampian 2020
                                                     614.9
                                NHS Highland 2020
## 244 S08000022
                                                     604.9
## 245 S08000024
                                NHS Lothian 2020
                                                     628.9
## 246 S08000025
                                  NHS Orkney 2020
                                                     586.6
## 247 S08000026
                                NHS Shetland 2020
                                                     551.9
## 248 S08000028
                           NHS Western Isles 2020
                                                     665.8
                                     NHS Fife 2020
## 249 S08000029
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## 250 S08000030
                                 NHS Tayside 2020
                                                     590.5
## 251 S08000031 NHS Greater Glasgow & Clyde 2020
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## 252 S08000032
                             NHS Lanarkshire 2020
                                                     624.1
## 253 S08000015
                        NHS Ayrshire & Arran 2021
                                                        NA
## 254 S08000016
                                 NHS Borders 2021
                                                        NA
## 255 S08000017
                     NHS Dumfries & Galloway 2021
                                                        NA
## 256 S08000019
                            NHS Forth Valley 2021
                                                        NΑ
## 257 S08000020
                                NHS Grampian 2021
                                                        NA
## 258 S08000022
                                NHS Highland 2021
                                                        NA
## 259 S08000024
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                                                        NA
## 260 S08000025
                                 NHS Orkney 2021
                                                        NA
## 261 S08000026
                                NHS Shetland 2021
                                                        NA
## 262 S08000028
                           NHS Western Isles 2021
                                                        NA
## 263 S08000029
                                     NHS Fife 2021
## 264 S08000030
                                 NHS Tayside 2021
                                                        NA
## 265 S08000031 NHS Greater Glasgow & Clyde 2021
                                                        NA
## 266 S08000032
                             NHS Lanarkshire 2021
                                                        NA
```

Display Summary of All Data

```
ggplot(cancerReg,aes(x=year, y= measure, col=area_name)) + geom_line() + geom_point()
## Warning: Removed 14 rows containing missing values or values outside the scale range
## (`geom_line()`).
## Warning: Removed 14 rows containing missing values or values outside the scale range
## (`geom_point()`).
```



Summary Table of Data Within Graph

```
customGreen0 = "#DeF7E9"
customGreen = "#71CA97"
customRed = "#ff7f7f"
healthBoardData <- reshape(cancerReg, idvar = "area_name", timevar = "year", v.names = "measure", direc
colnames(healthBoardData)
                                     "measure.2003" "measure.2004" "measure.2005"
##
   [1] "area_code"
                       "area_name"
   [6] "measure.2006" "measure.2007" "measure.2008" "measure.2009" "measure.2010"
## [11] "measure.2011" "measure.2012" "measure.2013" "measure.2014" "measure.2015"
## [16] "measure.2016" "measure.2017" "measure.2018" "measure.2019" "measure.2020"
## [21] "measure.2021"
healthBoardData <- healthBoardData %>%
   mutate(
        Average = round(rowMeans(select(., starts_with("measure.")), na.rm = TRUE), 2),
#Calculate the difference in all the values from 2003- 2021
healthBoardData
                                  area_name measure.2003 measure.2004 measure.2005
##
     area_code
## 1 S08000015
                      NHS Ayrshire & Arran
                                                   649.7
                                                                642.8
                                                                             631.6
                                NHS Borders
## 2 S08000016
                                                   614.6
                                                                616.8
                                                                             632.7
```

	0	000000047	MIIO D. C.;		600 F	245.0	600 4
##		S08000017	NHS Dumfries	•	620.5	645.2	639.4
##		S08000019		Forth Valley	651.8	648.2	642.8
##		S08000020		WHS Grampian	617.8	601.5	589.7
##		S08000022	ľ	WHS Highland	602.9	594.5	598.9
##		S08000024		NHS Lothian	655.1	660.8	659.4
##		S08000025	_	NHS Orkney	589.0	582.4	587.1
##		S08000026		WHS Shetland	616.0	636.7	571.8
		S08000028	NHS We	estern Isles	652.0	628.1	610.3
		S08000029		NHS Fife	611.4	614.0	630.7
		S08000030		NHS Tayside	611.2	607.3	600.6
			G Greater Glas	-	697.3	693.9	695.0
	14	S08000032		Lanarkshire	633.7	632.7	643.5
##			measure.2007				
##		626.1	636.4	648.2	652.2	643.8	
##	2	641.5	643.5	627.5	633.8	614.8	
##	3	642.1	613.4	619.8	609.1	628.9	
##	4	618.3	633.2	638.9	649.8	634.1	
##	5	586.6	595.9	605.0	605.4	608.5	
##	6	613.3	627.4	627.6	625.8	625.4	
##	7	666.1	668.7	683.4	681.6	691.8	
##	8	598.1	587.4	589.3	543.0	569.2	
##	9	574.3	562.6	594.9	596.0	663.4	
##	10	664.4	707.2	726.0	715.0	674.4	
##	11	641.7	648.9	643.9	640.4	650.0	
##	12	596.0	617.6	621.1	613.7	603.1	
##	13	687.6	698.1	710.9	715.4	714.4	
	4 1	607.0	C10 F	640.0	005 0	C7F 0	
##	14	637.3	640.5	649.8	665.6	675.0	
## ##	14		measure.2012				
##	1	measure.2011	measure.2012	measure.2013	measure.2014	measure.2015	
## ##	1 2	measure.2011 643.2	measure.2012 654.3	measure.2013 659.6	measure.2014 662.1	measure.2015 643.4	
## ## ##	1 2 3	measure.2011 643.2 614.5	measure.2012 654.3 608.5	measure.2013 659.6 621.2	measure.2014 662.1 625.5	measure.2015 643.4 618.9	
## ## ## ##	1 2 3 4	measure.2011 643.2 614.5 617.6	measure.2012 654.3 608.5 602.7	measure.2013 659.6 621.2 619.9	measure.2014 662.1 625.5 616.1	measure.2015 643.4 618.9 617.9	
## ## ## ##	1 2 3 4 5	measure.2011 643.2 614.5 617.6 620.3	measure.2012 654.3 608.5 602.7 617.3	measure.2013 659.6 621.2 619.9 626.7	measure.2014 662.1 625.5 616.1 630.4	measure.2015 643.4 618.9 617.9 628.9	
## ## ## ## ##	1 2 3 4 5	measure.2011 643.2 614.5 617.6 620.3 606.2	measure.2012 654.3 608.5 602.7 617.3 606.8	measure.2013 659.6 621.2 619.9 626.7 607.1	measure.2014 662.1 625.5 616.1 630.4 610.3	measure.2015 643.4 618.9 617.9 628.9 617.1	
## ## ## ## ## ##	1 2 3 4 5 6 7	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4	
## ## ## ## ## ##	1 2 3 4 5 6 7 8	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9	
## ## ## ## ## ## ##	1 2 3 4 5 6 7 8	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0	
## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4	
## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6	
## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3	
## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3 606.9	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4 616.1	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5 622.6	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3 627.8	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3 632.1	
## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3 606.9 712.3 677.5	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4 616.1 713.3	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5 622.6 718.2 666.5	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3 627.8 712.0 654.8	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3 632.1 711.5 649.1	
## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13 14	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3 606.9 712.3 677.5	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4 616.1 713.3 672.7	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5 622.6 718.2 666.5	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3 627.8 712.0 654.8	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3 632.1 711.5 649.1	
## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13 14	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3 606.9 712.3 677.5 measure.2016	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4 616.1 713.3 672.7 measure.2017	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5 622.6 718.2 666.5 measure.2018	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3 627.8 712.0 654.8 measure.2019	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3 632.1 711.5 649.1 measure.2020	
## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13 14 12	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3 606.9 712.3 677.5 measure.2016	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4 616.1 713.3 672.7 measure.2017 627.2	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5 622.6 718.2 666.5 measure.2018	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3 627.8 712.0 654.8 measure.2019	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3 632.1 711.5 649.1 measure.2020 625.5	
######################################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 1 2 3	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3 606.9 712.3 677.5 measure.2016 633.9 628.1	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4 616.1 713.3 672.7 measure.2017 627.2 638.1	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5 622.6 718.2 666.5 measure.2018 632.8 629.3	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3 627.8 712.0 654.8 measure.2019 616.0 575.6	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3 632.1 711.5 649.1 measure.2020 625.5 560.1	
## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13 14 1 2 3 4	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3 606.9 712.3 677.5 measure.2016 633.9 628.1 580.9	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4 616.1 713.3 672.7 measure.2017 627.2 638.1 588.7	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5 622.6 718.2 666.5 measure.2018 632.8 629.3 618.5	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3 627.8 712.0 654.8 measure.2019 616.0 575.6 611.7	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3 632.1 711.5 649.1 measure.2020 625.5 560.1 621.7	
######################################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 12 3 4 5	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3 606.9 712.3 677.5 measure.2016 633.9 628.1 580.9 638.2	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4 616.1 713.3 672.7 measure.2017 627.2 638.1 588.7 657.4	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5 622.6 718.2 666.5 measure.2018 632.8 629.3 618.5 664.7	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3 627.8 712.0 654.8 measure.2019 616.0 575.6 611.7 643.7	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3 632.1 711.5 649.1 measure.2020 625.5 560.1 621.7 642.4	
######################################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 12 3 4 5 6	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3 606.9 712.3 677.5 measure.2016 633.9 628.1 580.9 638.2 614.8	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4 616.1 713.3 672.7 measure.2017 627.2 638.1 588.7 657.4	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5 622.6 718.2 666.5 measure.2018 632.8 629.3 618.5 664.7 651.1	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3 627.8 712.0 654.8 measure.2019 616.0 575.6 611.7 643.7 623.3	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3 632.1 711.5 649.1 measure.2020 625.5 560.1 621.7 642.4 614.9	
#######################################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 1 2 3 4 5 6 7	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3 606.9 712.3 677.5 measure.2016 633.9 628.1 580.9 638.2 614.8 597.5	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4 616.1 713.3 672.7 measure.2017 627.2 638.1 588.7 657.4 637.4 598.8	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5 622.6 718.2 666.5 measure.2018 632.8 629.3 618.5 664.7 651.1 613.4	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3 627.8 712.0 654.8 measure.2019 616.0 575.6 611.7 643.7 623.3 600.8	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3 632.1 711.5 649.1 measure.2020 625.5 560.1 621.7 642.4 614.9 604.9	
#######################################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 1 2 3 4 5 6 7 8	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3 606.9 712.3 677.5 measure.2016 633.9 628.1 580.9 638.2 614.8 597.5 641.4	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4 616.1 713.3 672.7 measure.2017 627.2 638.1 588.7 657.4 637.4 598.8 632.7	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5 622.6 718.2 666.5 measure.2018 632.8 629.3 618.5 664.7 651.1 613.4 635.3	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3 627.8 712.0 654.8 measure.2019 616.0 575.6 611.7 643.7 623.3 600.8 617.5	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3 632.1 711.5 649.1 measure.2020 625.5 560.1 621.7 642.4 614.9 604.9 628.9	
###########################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 1 2 3 4 5 6 7 8	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3 606.9 712.3 677.5 measure.2016 633.9 628.1 580.9 638.2 614.8 597.5 641.4 521.7	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4 616.1 713.3 672.7 measure.2017 627.2 638.1 588.7 657.4 637.4 598.8 632.7 516.3	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5 622.6 718.2 666.5 measure.2018 632.8 629.3 618.5 664.7 651.1 613.4 635.3 550.7	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3 627.8 712.0 654.8 measure.2019 616.0 575.6 611.7 643.7 623.3 600.8 617.5 575.9	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3 632.1 711.5 649.1 measure.2020 625.5 560.1 621.7 642.4 614.9 604.9 628.9 586.6	
###############################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 1 2 3 4 5 6 7 8 9	measure.2011 643.2 614.5 617.6 620.3 606.2 616.8 684.3 531.3 685.6 646.0 651.3 606.9 712.3 677.5 measure.2016 633.9 628.1 580.9 638.2 614.8 597.5 641.4 521.7	measure.2012 654.3 608.5 602.7 617.3 606.8 614.3 691.6 549.1 731.7 651.6 659.4 616.1 713.3 672.7 measure.2017 627.2 638.1 588.7 657.4 637.4 598.8 632.7 516.3 696.2	measure.2013 659.6 621.2 619.9 626.7 607.1 604.8 686.7 496.1 689.3 626.6 654.5 622.6 718.2 666.5 measure.2018 632.8 629.3 618.5 664.7 651.1 613.4 635.3 550.7 610.8	measure.2014 662.1 625.5 616.1 630.4 610.3 612.2 684.5 529.1 683.1 641.8 638.3 627.8 712.0 654.8 measure.2019 616.0 575.6 611.7 643.7 623.3 600.8 617.5 575.9 548.4	measure.2015 643.4 618.9 617.9 628.9 617.1 602.4 659.9 508.0 693.4 614.6 628.3 632.1 711.5 649.1 measure.2020 625.5 560.1 621.7 642.4 614.9 604.9 628.9 586.6 551.9	

##	12	631.2	632.1	623.9	592.0	590.5
##	13	699.3	700.2	702.0	674.8	673.5
##	14	650.3	659.8	661.0	635.4	624.1
##		measure.2021	Average			
##	1	NA	640.49			
##	2	NA	619.17			
##	3	NA	617.45			
##	4	NA	638.17			
##	5	NA	611.08			
##	6	NA	610.09			
##	7	NA	662.76			
##	8	NA	556.13			
##	9	NA	633.53			
##	10	NA	644.05			
##	11	NA	635.47			
##	12	NA	613.66			
##	13	NA	701.65			
##	14	NA	651.63			