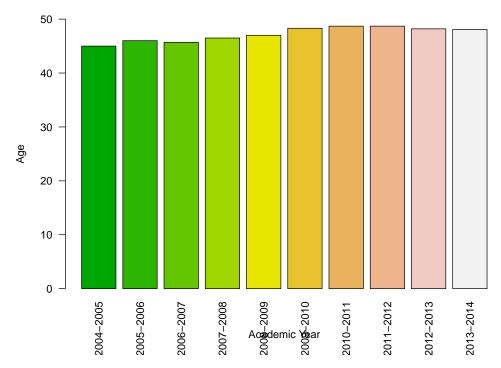
Estimating the Average Age of the Williams College Faculty

By Matt Morris '18

My estimated average age for the Williams College Faculty for the last 10 years are as follows:

2004-2005 = 45 2005-2006 = 46 2006-2007 = 45.7 2007-2008 = 46.5 2008-2009 = 47 2009-2010 = 48.3 2010-2011 = 48.7 2011-2012 = 48.7 2012-2013 = 48.22013-2014 = 48.1

Average Age of Williams Faculty over Past 10 Years



Over the last 10 years, the average age of the Williams College Faculty has, on average, increased significantly. Over the last five academic years, while

the average age has stagnated around 48, compared to the average age of 45 in the 2004-2005 academic year, a three year increase in average age is important to note.

The youngest and oldest faculty member's age and name for the last 10 years are as follows:

Youngest 2004-2005 = 24, Zafrir Levy, Assistant Professor of Physical Education and Head Coach of Men's and Women's Squash

Oldest 2004-2005 = 83, Henry J. Bruton, Visiting Professor of Economics

Youngest 2005-2006 = 25, Heather N. Harrington, Assistant Project Cataloger

Oldest 2005-2006 = 84, Henry J. Bruton, Visting Professor of Economics

Youngest 2006-2007 = 25, Robert Michelin, Visting Lecturer in Music and Director of Zambezi

Oldest 2006-2007 = 85, Henry J. Bruton Visting Professor of Economics

Youngest 2007-2008 = 27, Heather Harrington, Collections Archivist and Marshall K. Creighton, Lecturer in Physical Education

Oldest 2007-2008 = 86, Henry J. Bruton, Visting Professor of Economics

Youngest 2008-2009=23, Binyavanga Wainaina, Sterling Brown '22 Visiting Professor of Africana Studies, First Semester

Oldest 2008-2009 = 87, Henry J. Bruton, Visting Professor of Economics

Youngest 2009-2010 = 26, David A. Chalifoux, Library Shelving Facility Supervisor

Oldest 2009-2010 = 88, Henry J. Bruton, Visting Professor of Economics

Youngest 2010-2011 = 24, Daniel Greenberg, Lecturer of Physical Education and Head Men's Tennis Coach

Oldest 2010-2011 = 89, Henry J. Bruton, Visting Professor of Economics

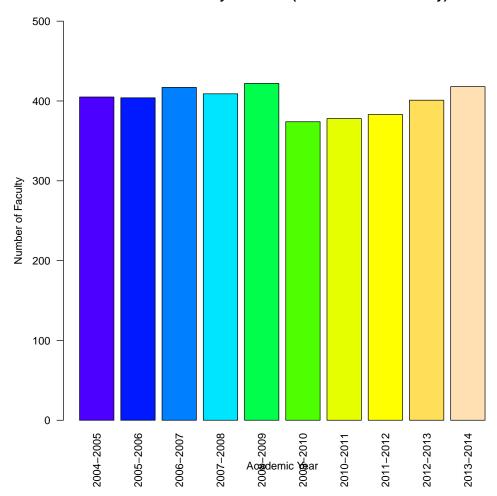
Youngest 2011-2012 = 25, Daniel Greenberg, Assistant Professor of Physical Education and Head Men's Tennis Coach

Oldest 2011-2012 = 90, Henry J. Bruton, Visting Professor of Economics Youngest 2012-2013 = 24, Qing(Wendy) Wang, Assistant Professor of Statistics

Oldest 2012-2013 = 91, Henry J. Bruton, Visting Professor of Economics Youngest 2013-2014 = 24, Sarah A. Mirseyedi, Visiting Lecturer in Art Oldest 2013-2014 = 77, Charles B. Dew, Ephraim Williams Professor of American History

How the Number of Faculty have changed over time? Talk about disclaimer about library

Number of Faculty Over Time(Disclaimer about Library)



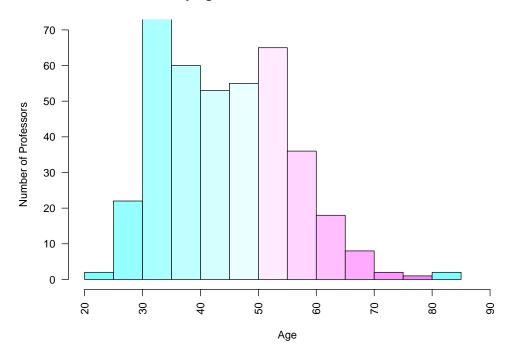
```
Number of Faculty by Academic Year(LIB Disclaimer)
```

2004-2005 = 405 2005-2006 = 404 2006-2007 = 417 2007-2008 = 409 2008-2009 = 422 2009-2010 = 374 2010-2011 = 378 2011-2012 = 383 2012-2013 = 401 2013-2014 = 418

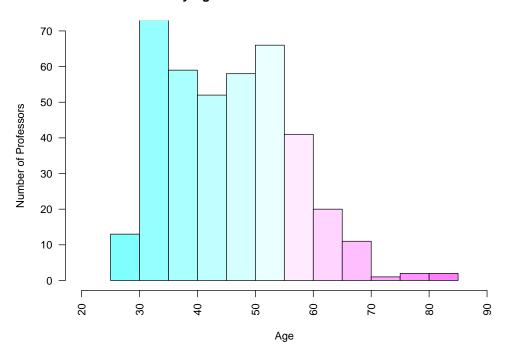
While examining the number of faculty by academic year in the last 10 years it appears as though the number of faculty increased somewhat steadily from the 2004-2005 academic year through the 2008-2009 academic year and then dropped off significantly after the 2008-2009 academic year from 422 to 378. This data is somewhat misleading as the Library faculty were only included in the course catalog archives through the 2010-2011 academic year. This suggests that the number of faculty in the last three academic years is most likely about 25 faculty members lower than it actually was.

A key question in our analysis of the Williams College faculty for the past 10 years is how the age distribution has changed over time. By examining histograms over the last 10 years it is easy to observe the trends in the faculty member ages.

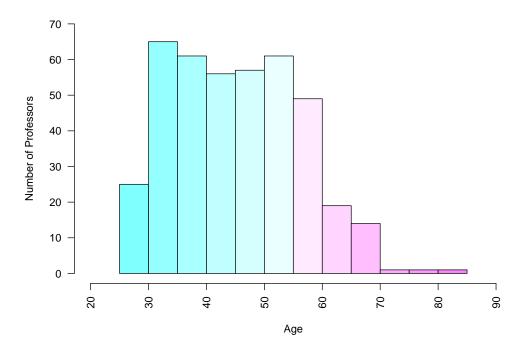
Faculty Age of Williams Professors 2004–2005



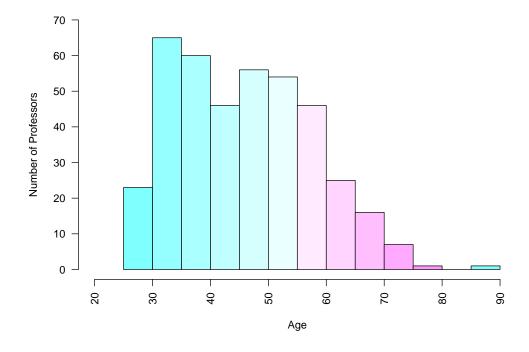
Faculty Age of Williams Professors 2005–2006



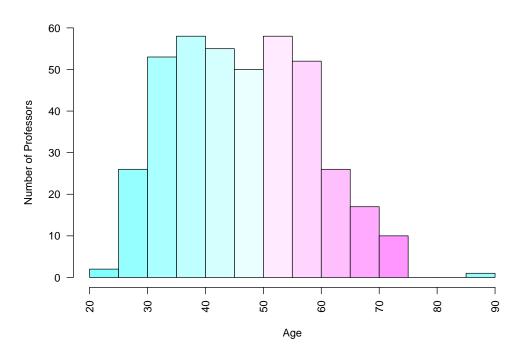
Faculty Age of Williams Professors 2006–2007



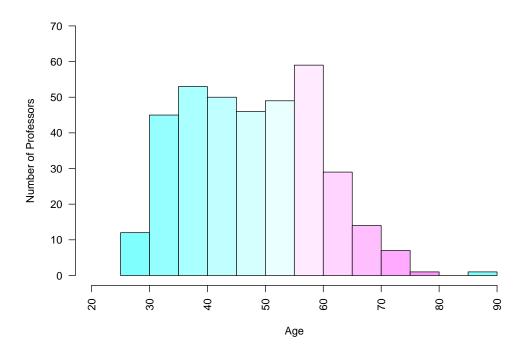
Faculty Age of Williams Professors 2007–2008



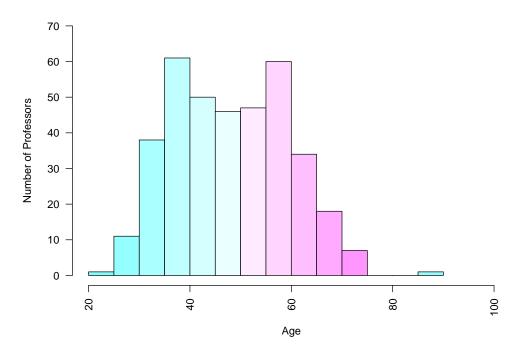
Faculty Age of Williams Professors 2008–2009



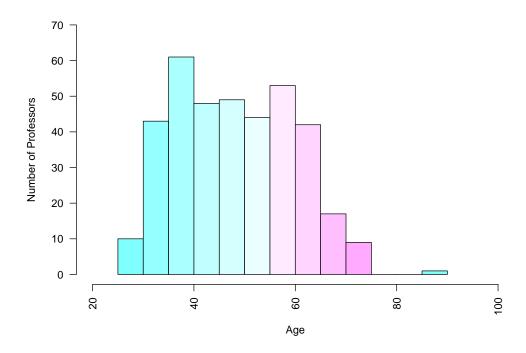
Faculty Age of Williams Professors 2009–2010



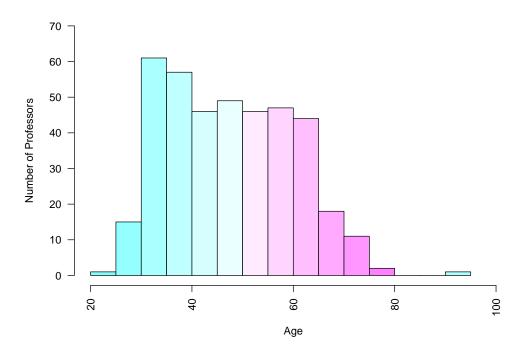
Faculty Age of Williams Professors 2010–2011



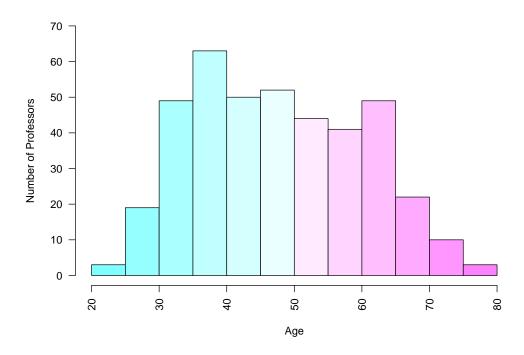
Faculty Age of Williams Professors 2011–2012



Faculty Age of Williams Professors 2012–2013



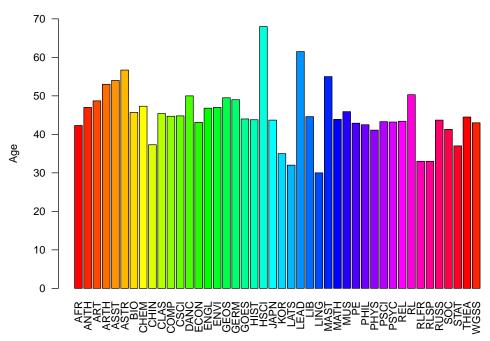
Faculty Age of Williams Professors 2013–2014



We see between the 2004-2005 and 2007-2008 academic years the age distribution is right-skewed, with the ages being primarily concentrated between 30 and 60. Between the 2008-2009 and 2012-2013 academic year display implies a fairly normal and symmetric age distribution of the faculty, with one outlier in the 85-90 age range. The ages continued to be primarily concentrated between 30 and 60, or 30 and 65. The 2012-2013 distribution is more right skewed than the other graphs and the outlier (Henry J. Bruton) is not apparent in the 2013-2014 display.

A key question in our analysis of the Williams College faculty for the past 10 years is the average age distribution by department and how it has changed over time. By examining barplot over the last 10 years it is interesting to observe the trends in the faculty member ages and how they are connected to departments.

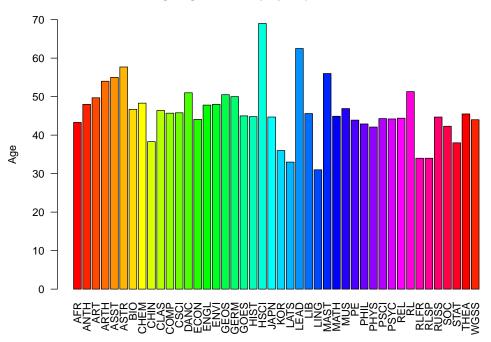




```
"Average Age by Department 2004-2005:"
               ARTH ASST ASTR
                                BIO
                                          CHIN CLAS
     47.0 48.7
               53.0
                    54.0
                          56.7 45.7
                                    47.3
                                          37.3
                                               45.4
                                                          44.8
                    GEOS GERM GOES HIST
                                         HSCI
    ECON ENGL ENVI
                                               JAPN
                                                     KOR LATS
                                         68.0
     43.1
          46.8
               47.0
                    49.5 49.0
                               44.0
                                    43.8
                                               43.7
                                                    35.0
                                                          32.0
LEAD
      LIB LING MAST MATH MUS
                               PE PHIL PHYS PSCI PSYC
                                                           REL
```

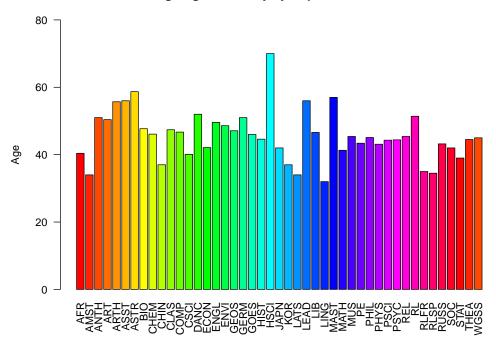
```
## 61.5 44.6 30.0 55.0 43.9 45.9 42.9 42.5 41.1 43.3 43.2 43.4 ## RL RLFR RLSP RUSS SOC STAT THEA WGSS ## 50.3 33.0 33.0 43.7 41.3 37.0 44.5 43.0
```

Average Age of Faculty by Department 2005–2006



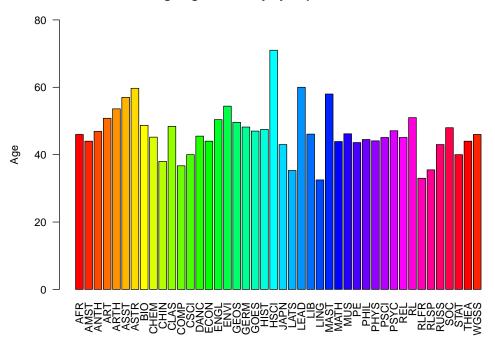
```
[1] "Average Age by Department 2005-2006:"
AFR ANTH
           ART ARTH ASST ASTR
                                BIO CHEM CHIN CLAS
                                                    COMP
43.3 48.0 49.7 54.0 55.0 57.7 46.7
                                    48.3
                                         38.3 46.4
                                                   45.7
                                                         45.8
DANC ECON ENGL ENVI GEOS GERM GOES HIST
                                         HSCI
                                               JAPN
                                                     KOR LATS
                               45.0
          47.8
               48.0
                     50.5
                          50.0
                                    44.8
                                         69.0
                                 PE PHIL PHYS PSCI PSYC
      LIB LING MAST MATH
                           MUS
                                                          REL
62.5 45.6
          31.0
               56.0
                    44.9
                         46.9 43.9
                                    42.9
                      SOC STAT THEA WGSS
  RL RLFR RLSP RUSS
51.3 34.0 34.0 44.7 42.3 38.0 45.5 44.0
```

Average Age of Faculty by Department 2006-2007



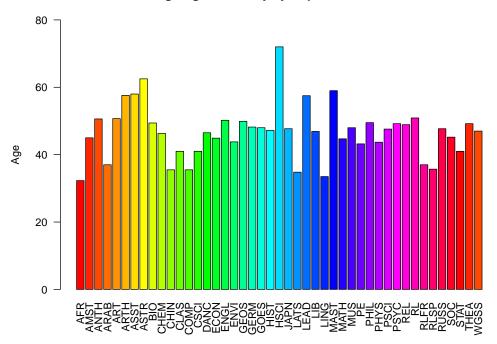
```
[1] "Average Age by Department 2006-2007:"
 AFR AMST ANTH
                ART ARTH ASST
                              ASTR
                                     BIO CHEM
                                               CHIN CLAS COMP
40.4 34.0 51.0 50.4 55.7
                          56.0 58.7 47.7
                                         46.1
CSCI DANC ECON ENGL ENVI GEOS GERM GOES HIST HSCI JAPN
                                                          KOR
     52.0 42.1
               49.6
                    48.6
                          47.1 51.0
                                    46.0
                                         44.6
                                               70.0
                                                    42.0
                                      PE PHIL PHYS PSCI
LATS LEAD
               LING MAST
                         MATH
                                MUS
34.0 56.0 46.6
               32.0
                    57.0
                          41.3 45.4 43.4 45.1
                                               43.1 44.3 44.4
 REL
       RL RLFR RLSP RUSS
                           SOC STAT THEA WGSS
45.4 51.4 35.0 34.5 43.2 42.0 39.0 44.5 45.0
```

Average Age of Faculty by Department 2007-2008



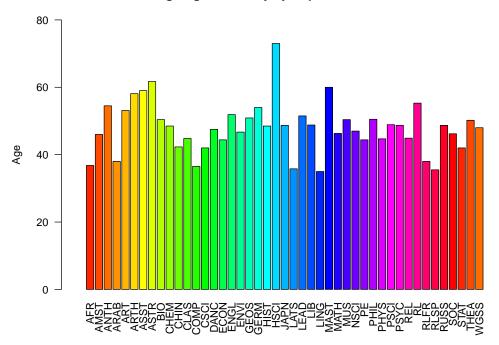
```
[1] "Average Age by Department 2007-2008:"
 AFR AMST ANTH
                 ART ARTH ASST
                               ASTR
                                      BIO CHEM
                                               CHIN CLAS
46.0 44.0 46.9 50.8
                    53.6
                          57.0 59.7
                                    48.7
                                         45.2
                                               38.0
CSCI DANC ECON ENGL ENVI GEOS GERM GOES HIST HSCI
                                                    JAPN
40.0 45.5 44.0
                50.4
                     54.4
                          49.6 48.2
                                          47.5
                                               71.0
                                                    43.0
                                    47.0
                                    PHIL
                                              PSCI
      LIB LING MAST MATH
                           MUS
                                 PΕ
                                          PHYS
                                                    PSYC
                                                          REL
60.0 46.1
          32.5
                58.0
                     43.9
                          46.2 43.6 44.5
                                          44.1 45.1 47.1 45.1
  RL RLFR RLSP RUSS
                      SOC STAT THEA WGSS
51.0 33.0 35.5 43.0 48.0 40.0 44.0 46.0
```

Average Age of Faculty by Department 2008-2009



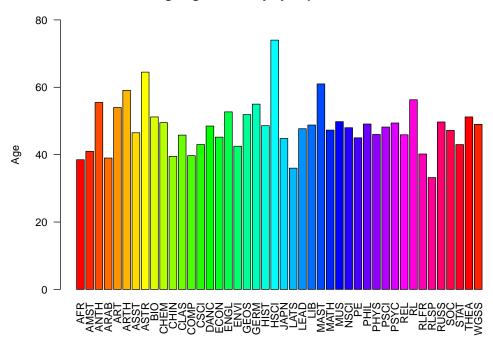
```
[1] "Average Age by Department 2008-2009:"
 AFR AMST ANTH ARAB
                      ART ARTH ASST
                                    ASTR
                                           BIO
                                               CHEM
                                                    CHIN CLAS
32.3 45.0 50.6 37.0 50.7
                          57.6 58.0 62.5 49.4
                                              46.3
COMP CSCI DANC ECON ENGL ENVI GEOS GERM GOES HIST
                                                   HSCI
                                                         JAPN
35.5 41.0 46.5
               44.9
                     50.2
                          43.8
                               49.9
                                    48.2
                                         48.0
                                               47.2
                                                    72.0
                                              PHYS PSCI PSYC
LATS LEAD
                    MAST MATH
                                MUS
                                      PΕ
                                         PHIL
34.8 57.5 46.9
                33.5
                     59.0
                          44.7
                               48.0 43.2
                                         49.5
                                              43.7 47.6 49.2
                           SOC STAT THEA WGSS
 REL
       RL RLFR RLSP RUSS
48.9 50.9 37.0 35.7 47.7 45.2 41.0 49.2 47.0
```

Average Age of Faculty by Department 2009-2010



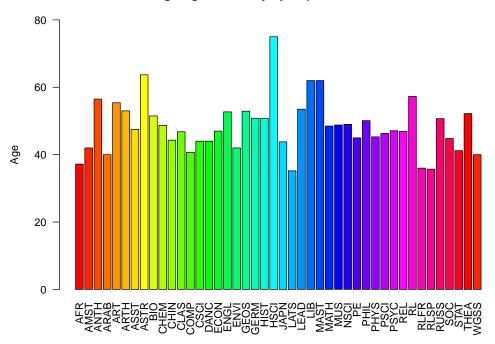
```
[1] "Average Age by Department 2009-2010:"
      AFR AMST ANTH ARAB
                           ART ARTH ASST ASTR
                                                BIO
                                                   CHEM CHIN
  NA 36.8 46.0 54.5 38.0 53.1 58.1 59.0 61.7 50.4
CLAS COMP CSCI DANC ECON ENGL ENVI GEOS GERM HIST
                                                    HSCI JAPN
                47.5
44.8 36.5 42.0
                    44.4
                          51.9
                               46.7
                                    50.9
                                         54.0
                                               48.5
                                                    73.0
LATS LEAD
           LIB
                LING MAST
                          MATH
                                MUS
                                    NSCI
                                            PE PHIL
35.8 51.5 48.8
                35.0
                     60.0
                          46.3
                               50.4
                                    47.0
                                         44.4 50.5 44.7 48.9
                                SOC STAT THEA WGSS
      REL
            RL RLFR RLSP RUSS
48.7 44.9 55.3 38.0 35.5 48.7 46.2 42.0 50.2 48.0
```

Average Age of Faculty by Department 2010-2011



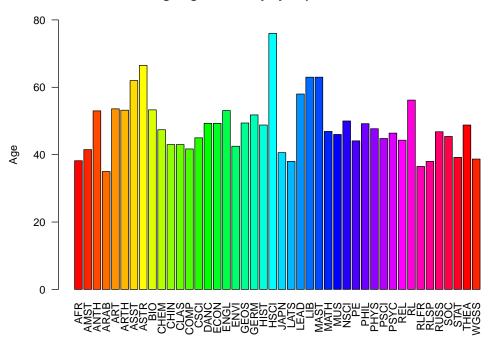
```
[1] "Average Age by Department 2010-2011:"
 AFR AMST ANTH ARAB
                      ART
                          ARTH ASST
                                     ASTR
                                           BIO
                                               CHEM
38.5 41.0 55.5 39.0 54.0
                          59.1 46.5
                                     64.5 51.2
                                               49.5
COMP CSCI DANC ECON ENGL ENVI GEOS GERM HIST
                                               HSCI
                                                    JAPN
                                                          LATS
                          42.5
39.7 43.0
          48.5
                45.2
                     52.7
                               51.9
                                     55.0
                                          48.6
                                               74.0
                                                    44.8
                                                          36.0
                                         PHYS PSCI
      LIB MAST
                      MUS NSCI
                                  PΕ
                                    PHIL
                                                           REL
47.7 48.8
          61.0
                47.3
                     49.8
                          48.0
                               45.0 49.1
                                          46.0 48.2 49.4
                                                         45.9
                      SOC STAT THEA WGSS
  RL RLFR RLSP RUSS
56.3 40.2 33.2 49.7 47.2 43.0 51.2 49.0
```

Average Age of Faculty by Department 2011-2012



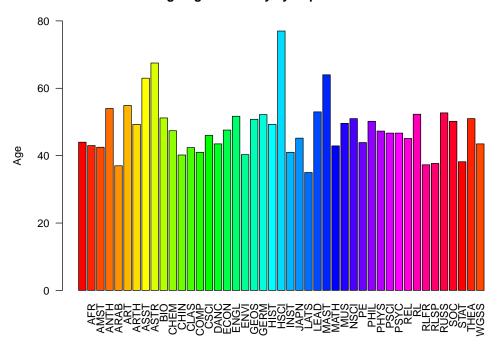
```
[1] "Average Age by Department 2011-2012:"
 AFR AMST ANTH ARAB
                      ART
                          ARTH ASST
                                    ASTR
                                           BIO
                                               CHEM
                                                    CHIN CLAS
37.2 42.0 56.5 40.0 55.4
                          53.0 47.5 63.7 51.5
                                               48.7
COMP CSCI DANC ECON ENGL ENVI GEOS GERM HIST HSCI
                                                    JAPN LATS
                               52.9
                                                         35.2
40.7 44.0 44.0
                47.0
                     52.7
                          42.0
                                    50.8
                                          50.8
                                               75.0
                                                    43.8
                                         PHYS PSCI PSYC
      LIB MAST
               MATH
                      MUS NSCI
                                 PE PHIL
                                                          REL
53.5 62.0 62.0
                48.5 48.8
                          49.0
                               45.0 50.1
                                          45.3 46.3 47.1 46.9
                      SOC STAT THEA WGSS
  RL RLFR RLSP RUSS
57.3 36.0 35.7 50.7 44.8 41.2 52.2 40.0
```

Average Age of Faculty by Department 2012-2013



```
[1] "Average Age by Department 2012-2013:"
 AFR AMST ANTH ARAB
                      ART
                          ARTH ASST
                                    ASTR
                                           BIO
                                               CHEM
                                                    CHIN CLAS
38.2 41.5 53.0 35.0 53.6 53.2 62.0
                                    66.5 53.3
COMP CSCI DANC ECON ENGL ENVI GEOS GERM HIST HSCI
                                                    JAPN
                               49.4
41.7 45.0
          49.3
                49.3
                     53.1
                          42.5
                                    51.8
                                         48.8
                                               76.0
                                                    40.6
      LIB MAST
               MATH
                      MUS NSCI
                                 PΕ
                                    PHIL
                                         PHYS PSCI
                                                          REL
58.0 63.0
          63.0
                46.9
                     46.0
                          50.0
                               44.1 49.2
                                         47.7 44.8 46.4 44.3
                      SOC STAT THEA WGSS
  RL RLFR RLSP RUSS
56.2 36.5 38.0 46.8 45.4 39.2 48.8
```

Average Age of Faculty by Department 2013-2014



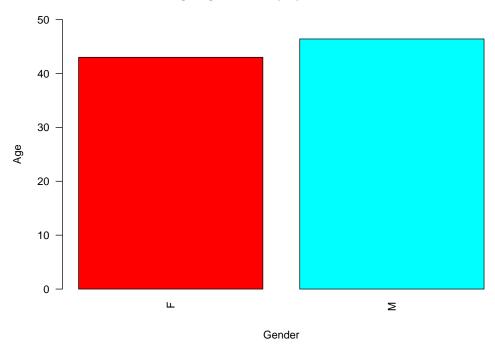
```
"Average Age by Department 2013-2014:"
      AFR AMST
               ANTH ARAB
                            ART
                                ARTH
                                     ASST
                                           ASTR
                                                 BIO
                                                     CHEM
44.0 43.0 42.5
                54.0
                     37.0
                          54.9
                               49.3
                                     63.0
                                          67.5
                                                51.2
CLAS COMP CSCI DANC
                     ECON ENGL ENVI GEOS
                                          GERM HIST
                                                     HSCI
                                                           INST
                                40.3
          46.0
                43.5
                           51.7
                                     50.8
                                           52.2
                                                49.3
                                                      77.0
     41.0
                     47.6
                                                           41.0
               MAST
JAPN LATS
                     MATH
                            MUS
                                NSCI
                                        PΕ
                                           PHIL PHYS PSCI
                                                           PSYC
45.2
     35.0
          53.0
                64.0
                     42.9
                           49.6
                                51.0
                                     43.9
                                           50.2
                                                47.3 46.7
       RL RLFR RLSP
                     RUSS
                            SOC STAT
                                     THEA WGSS
45.1 52.3 37.3 37.7 52.7 50.2 38.2 51.0 43.5
```

It appears as though most of the department ages tend to be concentrated around 45 to 50, with a small number of departments being at the low and high ends. The Martime Studies, History of Science, Astronomy, Anthropology departments tended to be consistently on the high end, while the language departments like Arabic, Japanese, French, Spanish, Linguistics, Chinese, as well as Latino and Africana Studies tended to be at the low end.

Next, we analyze how the average age of the Williams College faculty for the past 10 years is different by gender. By examining barplots over the last 10

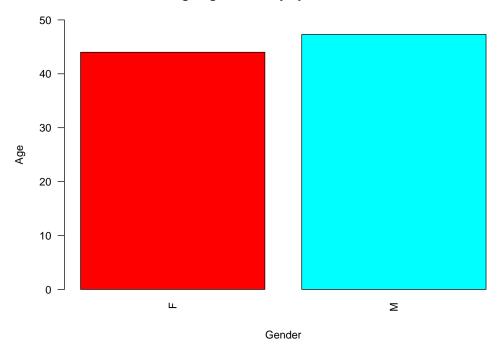
years it is easy to observe the difference between the average age of the male and female faculty.

Average Age of Faculty by Gender 2004–2005



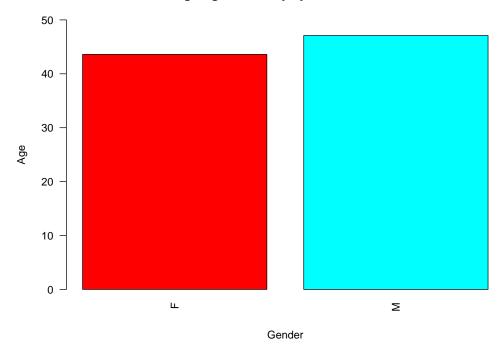
```
## [1] "Average Age by Gender 2004-2005:"
## F M
## 43.0 46.4
```

Average Age of Faculty by Gender 2005–2006



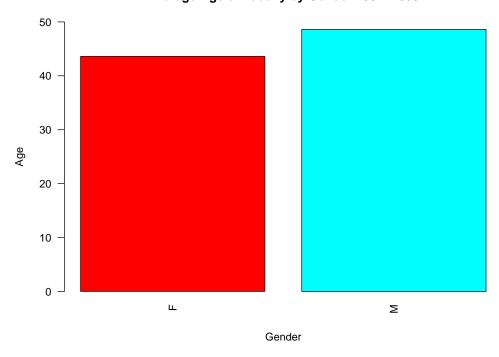
```
## [1] "Average Age by Gender 2005-2006:"
## F M
## 44.0 47.3
```

Average Age of Faculty by Gender 2006–2007



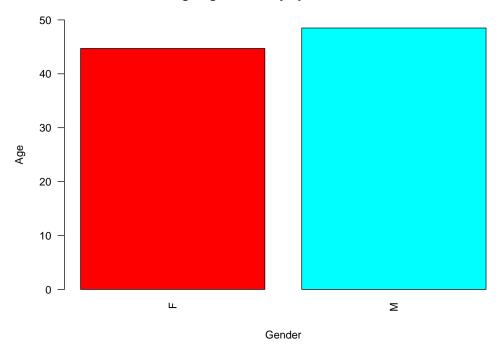
```
## [1] "Average Age by Gender 2006-2007:"
## F M
## 43.6 47.1
```

Average Age of Faculty by Gender 2007–2008



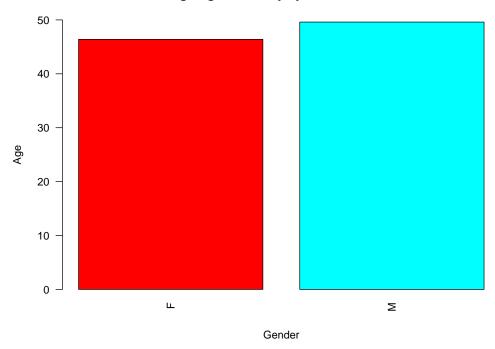
```
## [1] "Average Age by Gender 2007-2008:"
## F M
## 43.6 48.6
```

Average Age of Faculty by Gender 2008–2009



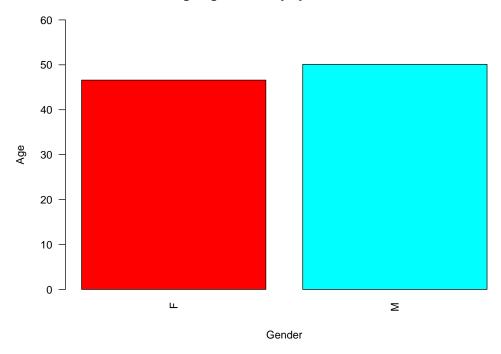
```
## [1] "Average Age by Gender 2008-2009:"
## F M
## 44.7 48.5
```

Average Age of Faculty by Gender 2009–2010



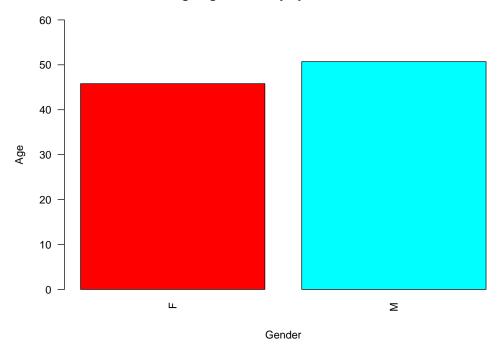
```
## [1] "Average Age by Gender 2009-2010:"
## F M
## 46.4 49.6
```

Average Age of Faculty by Gender 2010–2011



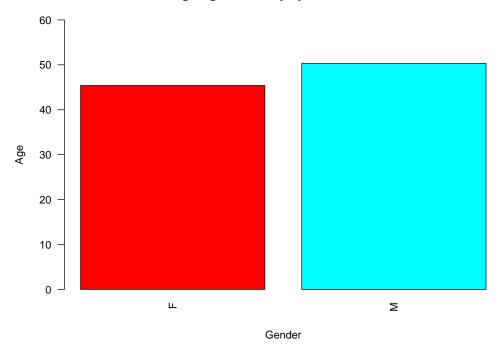
```
## [1] "Average Age by Gender 2010-2011:"
## F M
## 46.6 50.1
```

Average Age of Faculty by Gender 2011–2012



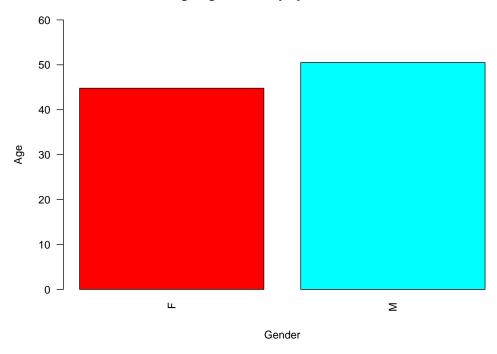
```
## [1] "Average Age by Gender 2011-2012:"
## F M
## 45.8 50.7
```

Average Age of Faculty by Gender 2012–2013



```
## [1] "Average Age by Gender 2012-2013:"
## F M
## 45.4 50.3
```

Average Age of Faculty by Gender 2013-2014

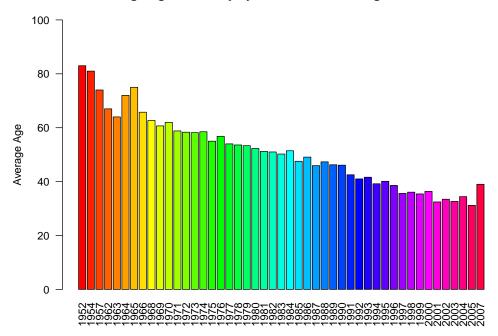


```
## [1] "Average Age by Gender 2013-2014:"
## F M
## 44.8 50.5
```

An interesting aspect of this analysis of the course catalogs is that the male faculty has been significantly older than the female faculty for the past 10 years. In addition, both the male and female faculty average age has increased over the past 10 years, with the female faculty aging by 2 years and the male faculty aging by 3 years. It is also interesting to note that the gap in average age between the female and male faculty has increased, with the gap in 2004-2005 being 3.4 years and in 2013-204 the gap was 5.3 years.

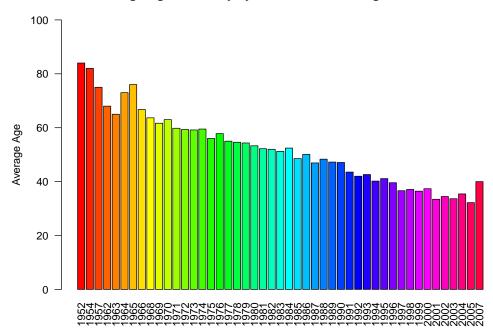
How High is the Correlation between Age and Year of Terminal Degree.

Average Age of Faculty by Year of Terminal Degree 2004–2005



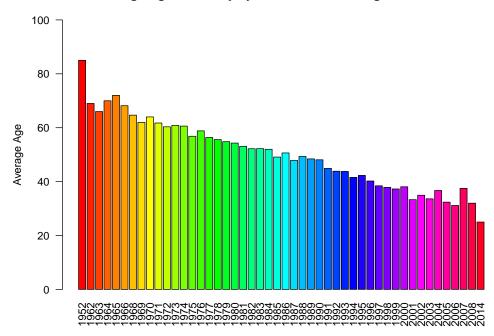
[1] "Correlation Between Age and Year of Terminal Degree 2004-2005 ## [1] -0.93

Average Age of Faculty by Year of Terminal Degree 2005-2006



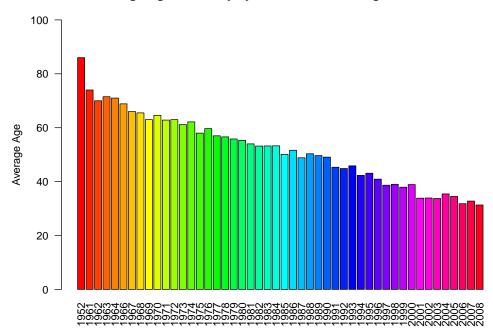
[1] "Correlation Between Age and Year of Terminal Degree 2005-2006 ## [1] -0.93

Average Age of Faculty by Year of Terminal Degree 2006-2007



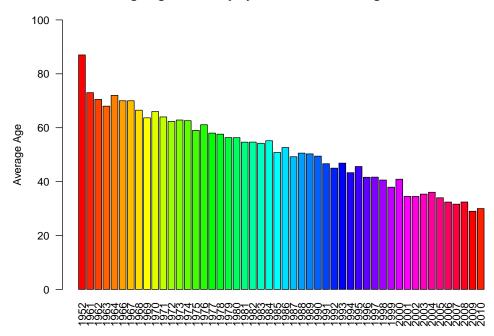
[1] "Correlation Between Age and Year of Terminal Degree 2006-2007 ## [1] -0.93

Average Age of Faculty by Year of Terminal Degree 2007–2008



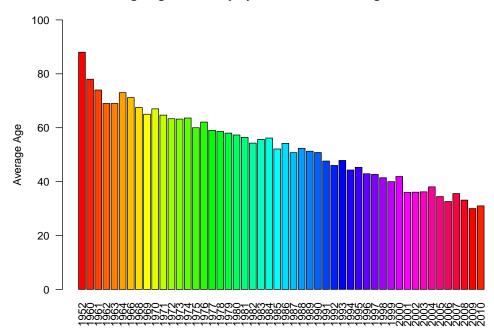
[1] "Correlation Between Age and Year of Terminal Degree 2007-2008 ## [1] -0.94

Average Age of Faculty by Year of Terminal Degree 2008–2009



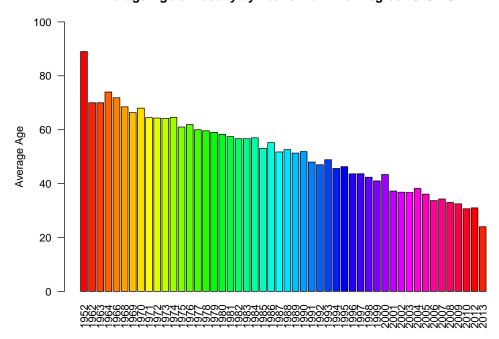
[1] "Correlation Between Age and Year of Terminal Degree 2008-2009 ## [1] -0.93

Average Age of Faculty by Year of Terminal Degree 2009–2010



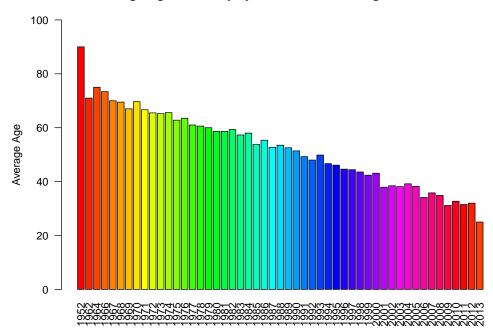
[1] "Correlation Between Age and Year of Terminal Degree 2009-2010 ## [1] -0.94

Average Age of Faculty by Year of Terminal Degree 2010–2011



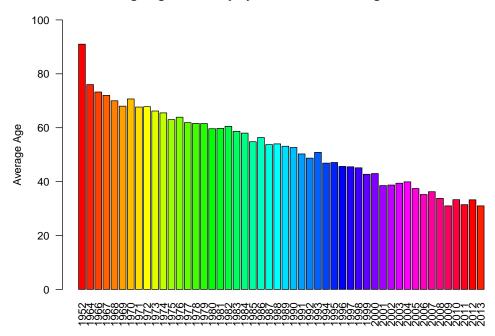
[1] "Correlation Between Age and Year of Terminal Degree 2010-2011 ## [1] -0.95

Average Age of Faculty by Year of Terminal Degree 2011–2012



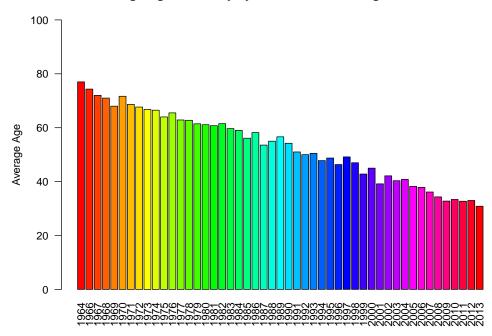
[1] "Correlation Between Age and Year of Terminal Degree 2011-2012 ## [1] -0.95

Average Age of Faculty by Year of Terminal Degree 2012–2013



[1] "Correlation Between Age and Year of Terminal Degree 2012-2013 ## [1] -0.95

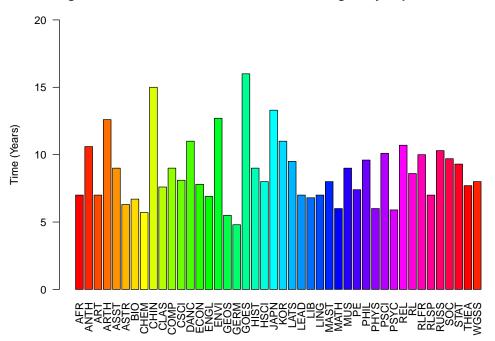
Average Age of Faculty by Year of Terminal Degree 2013-2014



[1] "Correlation Between Age and Year of Terminal Degree 2013-2014 ## [1] -0.94

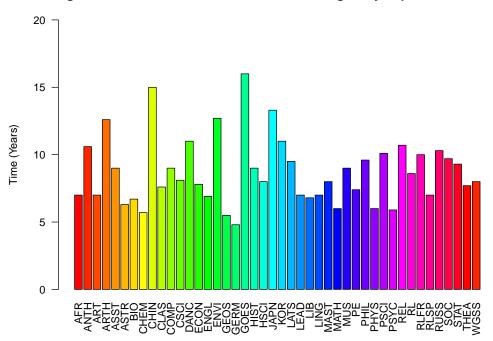
Do certain departments require more time to earn a PhD in than others?

Average Time Between Bachelor's and Terminal Degree by Department 2004–2005



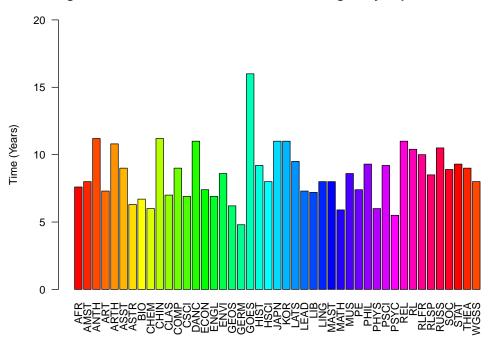
```
"Avg Time b/w Bachelor's and Terminal Degree by Dept 2004-2005
    AFR ANTH
               ART ARTH ASST
                              ASTR
                                     BIO
                                         CHEM CHIN CLAS COMP
                                                                CSCI
    7.0 10.6
               7.0 12.6
                          9.0
                                6.3
                                     6.7
                                           5.7
                                              15.0
                                                      7.6
                                                           9.0
                                                                 8.1
   DANC ECON ENGL ENVI GEOS GERM GOES
                                         HIST
                                               HSCI
                                                    JAPN
                                                           KOR LATS
   11.0
         7.8
               6.9
                   12.7
                          5.5
                                4.8
                                    16.0
                                           9.0
                                                8.0
                                                     13.3
                                                          11.0
                                                                 9.5
   LEAD
         LIB LING
                   MAST
                        MATH
                               MUS
                                         PHIL
                                                                 REL
##
    7.0
          6.8
               7.0
                          6.0
                                9.0
                                     7.4
                                                6.0 10.1
                                                           5.9 10.7
                     8.0
                                           9.6
##
     RL RLFR RLSP RUSS
                          SOC STAT THEA WGSS
    8.6 10.0 7.0 10.3
                          9.7
                                9.3
```

Average Time Between Bachelor's and Terminal Degree by Department 2005–2006



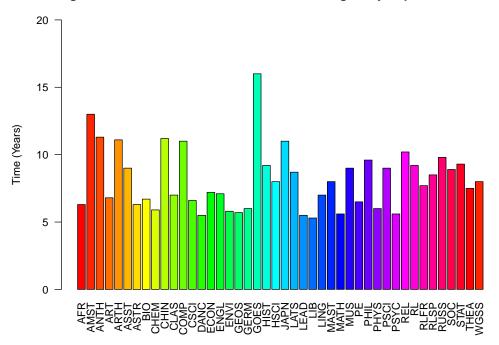
```
[1] "Avg Time b/w Bachelor's and Terminal Degree by Dept 2005-2006
    AFR ANTH
               ART ARTH ASST
                              ASTR
                                     BIO
                                         CHEM CHIN CLAS COMP
                                                                CSCI
    7.0 10.6
               7.0 12.6
                          9.0
                                6.3
                                     6.7
                                           5.7
                                              15.0
                                                      7.6
                                                            9.0
                                                                 8.1
   DANC ECON ENGL ENVI GEOS GERM GOES
                                         HIST
                                               HSCI
                                                    JAPN
                                                           KOR LATS
   11.0
         7.8
               6.9
                   12.7
                          5.5
                                4.8
                                    16.0
                                           9.0
                                                8.0
                                                     13.3
                                                          11.0
                                                                 9.5
   LEAD
         LIB LING
                   MAST
                        MATH
                               MUS
                                      PΕ
                                         PHIL
                                                                 REL
##
    7.0
          6.8
               7.0
                          6.0
                                9.0
                                     7.4
                                                6.0 10.1
                                                           5.9 10.7
                     8.0
                                           9.6
##
     RL RLFR RLSP RUSS
                          SOC STAT THEA WGSS
    8.6 10.0 7.0 10.3
                          9.7
                                9.3
                                    7.7
```

Average Time Between Bachelor's and Terminal Degree by Department 2006–2007



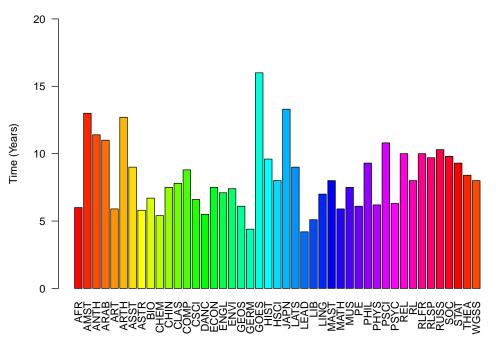
```
[1] "Avg Time b/w Bachelor's and Terminal Degree by Dept 2006-2007
    AFR AMST ANTH
                    ART ARTH ASST ASTR
                                          BIO CHEM CHIN CLAS
                                                              COMP
                                                                9.0
         8.0 11.2
                    7.3 10.8
                               9.0
                                     6.3
                                          6.7
                                               6.0
                                                   11.2
   CSCI DANC ECON ENGL ENVI GEOS GERM GOES
                                              HIST HSCI
                                                         JAPN
                                                                KOR
    6.9
       11.0
               7.4
                    6.9
                          8.6
                               6.2
                                     4.8
                                         16.0
                                                9.2
                                                     8.0
                                                         11.0
        LEAD
               LIB
                   LING MAST MATH
                                    MUS
                                           PΕ
                                              PHIL
                                                   PHYS PSCI
                                                              PSYC
##
    9.5
         7.3
               7.2
                          8.0
                               5.9
                                     8.6
                                          7.4
                                                9.3
                                                     6.0
                    8.0
    REL
          RL RLFR RLSP
                        RUSS
                               SOC STAT THEA WGSS
  11.0 10.4 10.0 8.5 10.5
                               8.9 9.3
```

Average Time Between Bachelor's and Terminal Degree by Department 2007–2008



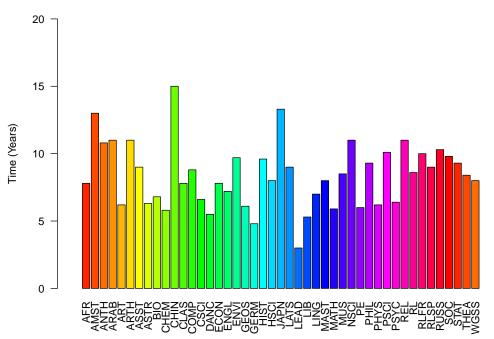
```
[1] "Avg Time b/w Bachelor's and Terminal Degree by Dept 2007-2008
    AFR AMST ANTH
                    ART ARTH ASST ASTR
                                          BIO CHEM CHIN CLAS COMP
    6.3 13.0 11.3
                    6.8
                        11.1
                               9.0
                                     6.3
                                          6.7
                                                5.9
                                                    11.2
   CSCI DANC ECON ENGL ENVI GEOS GERM GOES
                                              HIST
                                                   HSCI
                                                         JAPN LATS
               7.2
    6.6
         5.5
                    7.1
                          5.8
                               5.7
                                     6.0
                                                9.2
                                                     8.0
                                                         11.0
                                         16.0
   LEAD
         LIB LING
                   MAST MATH
                               MUS
                                              PHYS
                                                    PSCI
                                                                REL
##
    5.5
         5.3
               7.0
                          5.6
                               9.0
                                     6.5
                                                6.0
                                                     9.0
                                                           5.6 10.2
                    8.0
                                          9.6
                          SOC STAT THEA WGSS
     RL RLFR RLSP
                   RUSS
             8.5
                    9.8
                          8.9
                               9.3
                                   7.5
```

Average Time Between Bachelor's and Terminal Degree by Department 2008–2009



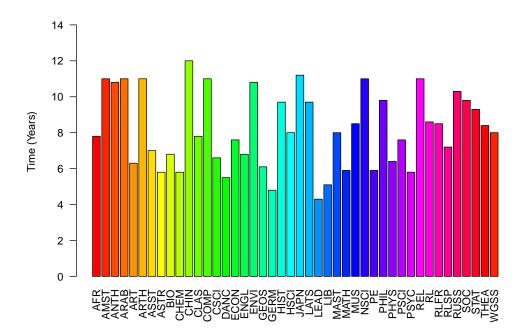
```
[1] "Avg Time b/w Bachelor's and Terminal Degree by Dept 2008-2009
    AFR AMST ANTH ARAB
                         ART ARTH ASST
                                         ASTR
                                                BIO CHEM CHIN
                                                               CLAS
    6.0 13.0 11.4 11.0
                          5.9 12.7
                                     9.0
                                          5.8
                                                6.7
                                                     5.4
                                                           7.5
                                                                7.8
   COMP CSCI DANC ECON ENGL ENVI GEOS GERM GOES
                                                   HIST HSCI
                                                               JAPN
                                                     9.6
    8.8
         6.6
               5.5
                    7.5
                          7.1
                               7.4
                                     6.1
                                          4.4
                                              16.0
                                                           8.0
   LATS
        LEAD
               LIB
                   LING
                        MAST MATH
                                     MUS
                                           PΕ
                                              PHIL PHYS PSCI PSYC
##
    9.0
         4.2
               5.1
                          8.0
                               5.9
                                     7.5
                                          6.1
                                                9.3
                                                     6.2 10.8
                    7.0
    REL
          RL RLFR RLSP
                        RUSS
                               SOC STAT THEA WGSS
        8.0 10.0
                   9.7 10.3
                               9.8
                                     9.3
                                          8.4
```

Average Time Between Bachelor's and Terminal Degree by Department 2009–2010



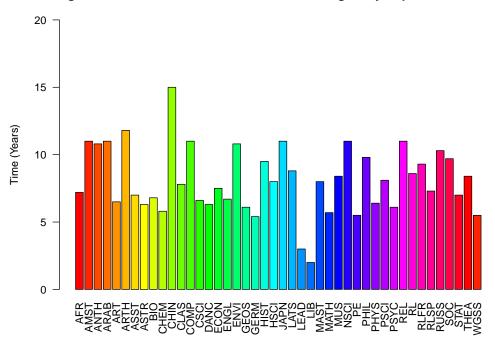
```
[1] "Avg Time b/w Bachelor's and Terminal Degree by Dept 2009-2010
         AFR AMST ANTH ARAB
                              ART ARTH ASST ASTR
                                                    BIO CHEM CHIN
##
         7.8 13.0 10.8 11.0
                               6.2 11.0
                                          9.0
                                               6.3
                                                    6.8
                                                          5.8
                                                             15.0
     NA
   CLAS COMP CSCI DANC ECON ENGL ENVI GEOS GERM HIST HSCI JAPN
    7.8
                    5.5
                         7.8
         8.8
               6.6
                               7.2
                                    9.7
                                          6.1
                                               4.8
                                                    9.6
                                                          8.0
   LATS LEAD
              LIB
                  LING
                        MAST
                             MATH
                                    MUS NSCI
                                                PE PHIL
                                                        PHYS PSCI
    9.0
         3.0
               5.3
                    7.0
                         8.0
                               5.9
                                    8.5 11.0
                                               6.0
                                                    9.3
  PSYC
         REL
               RL RLFR RLSP RUSS
                                    SOC STAT THEA WGSS
  6.4 11.0 8.6 10.0 9.0 10.3
                                    9.8
                                        9.3
```

Average Time Between Bachelor's and Terminal Degree by Department 2010–2011



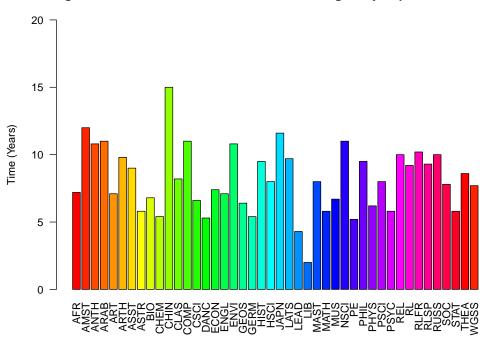
```
[1] "Avg Time b/w Bachelor's and Terminal Degree by Dept 2010-2011
    AFR AMST ANTH ARAB
                         ART ARTH ASST
                                        ASTR
                                               BIO CHEM CHIN CLAS
                                                        12.0
                                                               7.8
    7.8 11.0 10.8 11.0
                         6.3 11.0
                                    7.0
                                          5.8
                                               6.8
                                                    5.8
   COMP CSCI DANC ECON ENGL ENVI GEOS GERM HIST HSCI JAPN LATS
                         6.8 10.8
   11.0
         6.6
               5.5
                    7.6
                                    6.1
                                               9.7
                                                    8.0
                                                        11.2
                                                               9.7
                                          4.8
   LEAD
         LIB MAST
                  MATH
                         MUS NSCI
                                     PΕ
                                        PHIL
                                              PHYS
                                                  PSCI
                                                        PSYC
                                                               REL
##
    4.3
         5.1
               8.0
                    5.9
                         8.5 11.0
                                    5.9
                                               6.4
                                                    7.6
                                                          5.8 11.0
                                          9.8
##
     RL RLFR RLSP RUSS
                         SOC STAT THEA WGSS
        8.5 7.2 10.3
                         9.8 9.3
                                  8.4
                                        8.0
```

Average Time Between Bachelor's and Terminal Degree by Department 2011–2012



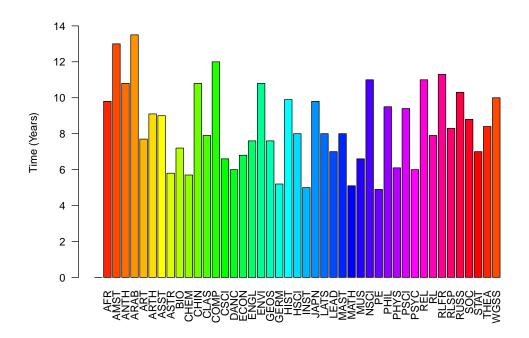
```
[1] "Avg Time b/w Bachelor's and Terminal Degree by Dept 2011-2012
    AFR AMST ANTH ARAB
                         ART ARTH ASST
                                        ASTR
                                               BIO CHEM CHIN CLAS
                                                               7.8
    7.2 11.0 10.8 11.0
                         6.5
                             11.8
                                    7.0
                                          6.3
                                               6.8
                                                     5.8
                                                        15.0
   COMP CSCI DANC ECON ENGL ENVI GEOS GERM HIST HSCI
                                                        JAPN LATS
                         6.7
   11.0
         6.6
               6.3
                    7.5
                              10.8
                                    6.1
                                          5.4
                                               9.5
                                                     8.0
                                                         11.0
   LEAD
         LIB MAST
                  MATH
                         MUS NSCI
                                     PΕ
                                        PHIL
                                              PHYS
                                                   PSCI
                                                               REL
##
    3.0
         2.0
               8.0
                    5.7
                         8.4 11.0
                                    5.5
                                          9.8
                                               6.4
                                                          6.1 11.0
                         SOC STAT THEA WGSS
##
    RL RLFR RLSP RUSS
        9.3 7.3 10.3
                         9.7 7.0 8.4
```

Average Time Between Bachelor's and Terminal Degree by Department 2012–2013



```
[1] "Avg Time b/w Bachelor's and Terminal Degree by Dept 2012-2013
    AFR AMST ANTH ARAB
                         ART ARTH ASST
                                        ASTR
                                               BIO CHEM CHIN CLAS
    7.2 12.0 10.8 11.0
                         7.1
                               9.8
                                    9.0
                                          5.8
                                               6.8
                                                     5.4 15.0
   COMP CSCI DANC ECON ENGL ENVI GEOS GERM HIST HSCI
                                                        JAPN LATS
                         7.1 10.8
   11.0
         6.6
               5.3
                    7.4
                                    6.4
                                               9.5
                                                     8.0
                                                         11.6
                                                                9.7
                                          5.4
   LEAD
         LIB MAST
                  MATH
                         MUS NSCI
                                     PE PHIL
                                              PHYS PSCI
                                                               REL
##
    4.3
         2.0
               8.0
                    5.8
                          6.7 11.0
                                    5.2
                                          9.5
                                               6.2
                                                     8.0
                                                          5.8 10.0
##
    RL RLFR RLSP RUSS
                         SOC STAT THEA
                                        WGSS
    9.2 10.2 9.3 10.0
                         7.8 5.8
                                   8.6
```

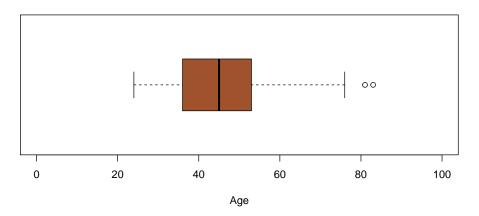
Average Time Between Bachelor's and Terminal Degree by Department 2013–2014



```
"Avg Time b/w Bachelor's and Terminal Degree by Dept 2013-2014
##
         AFR AMST ANTH ARAB
                                ART
                                    ARTH
                                         ASST
                                               ASTR
                                                      BIO CHEM
                                                                CHIN
                        13.5
##
    0.0
          9.8 13.0 10.8
                                7.7
                                      9.1
                                           9.0
                                                 5.8
                                                      7.2
                                                            5.7
                                                                10.8
   CLAS COMP
             CSCI
                   DANC
                        ECON ENGL ENVI GEOS
                                               GERM HIST
                                                          HSCI
                                                                INST
        12.0
##
                                           7.6
    7.9
               6.6
                          6.8
                                7.6
                                    10.8
                                                 5.2
                                                      9.9
                                                            8.0
                                                                 5.0
                     6.0
   JAPN
        LATS
              LEAD
                   MAST
                         MATH
                                MUS NSCI
                                            PΕ
                                               PHIL
                                                     PHYS
                                                          PSCI
                                                                PSYC
##
    9.8
          8.0
               7.0
                                                 9.5
                                                      6.1
                                                            9.4
                                                                 6.0
                     8.0
                          5.1
                                6.6
                                    11.0
                                           4.9
##
    REL
          RL RLFR RLSP
                        RUSS
                                SOC
                                    STAT
                                         THEA WGSS
   11.0
        7.9 11.3
                   8.3 10.3
                                8.8 7.0
                                         8.4 10.0
```

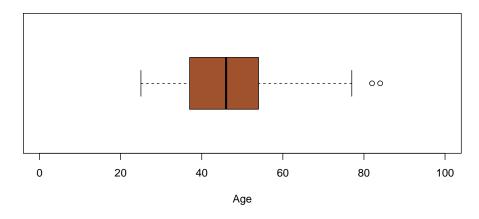
Has the actual, non bin Distribution of Ages changed significantly over the last 10 years with summary stats:

Williams Faculty Age Distribution 2004-2005



```
## [1] "Summary Statistics with Standard Deviation 2004-2005"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 24.00 36.00 45.00 45.05 53.00 83.00
## [1] "Standard Deviation:10.9"
```

Williams Faculty Age Distribution 2005-2006



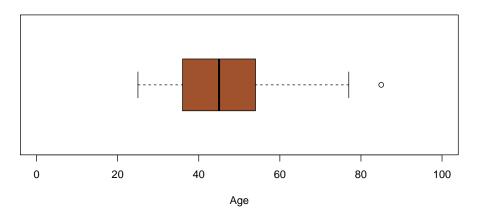
```
## [1] "Summary Statistics with Standard Deviation 2005-2006"

## Min. 1st Qu. Median Mean 3rd Qu. Max.

## 25.00 37.00 46.00 46.03 54.00 84.00

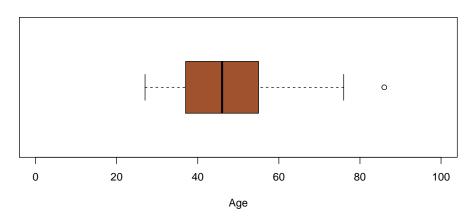
## [1] "Standard Deviation:10.89"
```

Williams Faculty Age Distribution 2006-2007



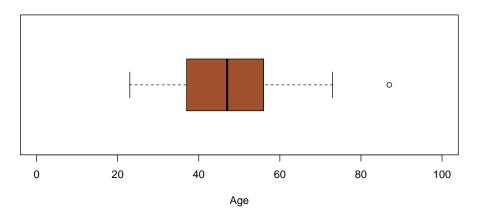
```
## [1] "Summary Statistics with Standard Deviation 2006-2007"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 25.00 36.00 45.00 45.75 54.00 85.00
## [1] "Standard Deviation:10.98"
```

Williams Faculty Age Distribution 2007-2008



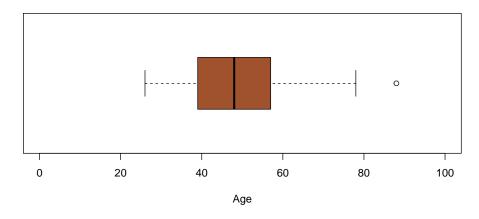
```
## [1] "Summary Statistics with Standard Deviation 2007-2008"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 27.00 37.00 46.00 46.53 55.00 86.00
## [1] "Standard Deviation:11.47"
```

Williams Faculty Age Distribution 2008-2009



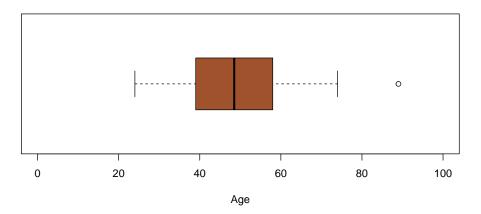
```
## [1] "Summary Statistics with Standard Deviation 2008-2009"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 23.00 37.00 47.00 46.99 56.00 87.00
## [1] "Standard Deviation:11.71"
```

Williams Faculty Age Distribution 2009-2010



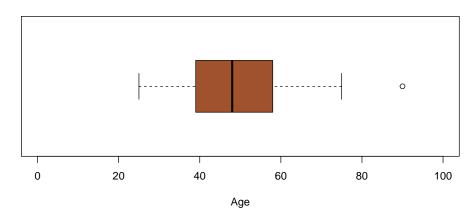
```
## [1] "Summary Statistics with Standard Deviation 2009-2010"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 26.00 39.00 48.00 48.32 57.00 88.00
## [1] "Standard Deviation:11.3"
```

Williams Faculty Age Distribution 2010-2011



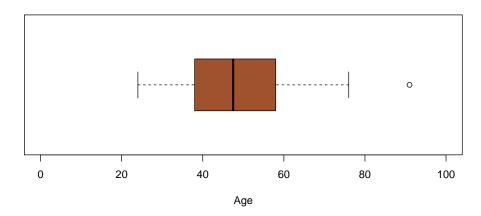
```
## [1] "Summary Statistics with Standard Deviation 2010-2011"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 24.00 39.00 48.50 48.67 58.00 89.00
## [1] "Standard Deviation:11.51"
```

Williams Faculty Age Distribution 2011–2012



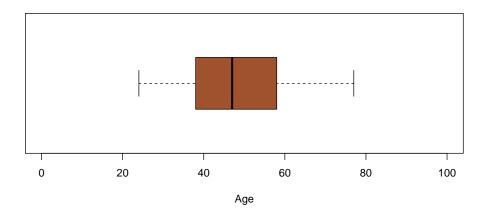
```
## [1] "Summary Statistics with Standard Deviation 2011-2012"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 25.00 39.00 48.00 48.72 58.00 90.00
## [1] "Standard Deviation:11.6"
```

Williams Faculty Age Distribution 2012-2013



```
## [1] "Summary Statistics with Standard Deviation 2012-2013"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 24.00 38.00 47.50 48.19 58.00 91.00
## [1] "Standard Deviation:12.13"
```

Williams Faculty Age Distribution 2013-2014



```
## [1] "Summary Statistics with Standard Deviation 2013-2014"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 24.00 38.00 47.00 48.08 58.00 77.00
## [1] "Standard Deviation:12.22"
```