

```

> # Grab all USASpending.gov federal spending archive data since 2000.
> # efg, 16 March 2014.
>
> # Start here: http://www.usaspending.gov/data
> # Select Archives tab.
> # Look for latest "Date As Of" and change DIRDATE below. ##### 1 of 4
>
> # To get current release date for data: (roughly mid-month)
> # 1. http://www.usaspending.gov/data
> # 2. Archives
>
> setwd("E:/FOIA/Federal-Spending/Archives/") ##### 2 of 4
> sink("O-graball.txt", split=TRUE)
>
> time.1 <- Sys.time()
>
> library(tools) # md5sum
>
> BASE <- "http://www.usaspending.gov/datafeeds/"
> DIRDATE <- "2013-07-15" # yyyy-mm-dd format ##### 3 of 4
> FILEDATE <- gsub("-", "", DIRDATE) # yyyymmdd format
>
> # Grab all complete fiscal years and most recent incomplete year
> FISCAL.YEAR <- 2013:2000 # Get more recent years first ##### 4 of 4
> TYPE <- c("Contracts", "Grants", "Loans",
+ "DirectPayments", "Insurance", "Others")
> SUFFIX <- ".csv.zip"
>
> ZIP.DIR <- paste0(DIRDATE, "/ZIP/")
> if (!file.exists(ZIP.DIR))
+ {
+ dir.create(ZIP.DIR, recursive=TRUE)
+ }
>
> #####
> ### Download ZIP files
>
> for (type in TYPE)
+ {
+ for (year in FISCAL.YEAR)
+ {
+ filename <- paste0(year, "_All_", type, "_Full_", FILEDATE, SUFFIX)
+ cat(filename, "\n")
+ try(
+ download.file(paste0(BASE, filename),
+ destfile=paste0("./", ZIP.DIR, filename)),
+ FALSE)
+ }
+ }
2013_All_Contracts_Full_20130715.csv.zip
trying URL 'http://www.usaspending.gov/datafeeds/2013_All_Contracts_Full_20130715.csv.zip'
Content type 'application/zip' length 427112181 bytes (407.3 Mb)
opened URL

```

downloaded 407.3 Mb

2012_All_Contracts_Full_20130715.csv.zip

trying URL 'http://www.usaspending.gov/datafeeds/2012_All_Contracts_Full_20130715.csv.zip'

Content type 'application/zip' length 813048100 bytes (775.4 Mb)

opened URL

downloaded 775.4 Mb

2011_All_Contracts_Full_20130715.csv.zip

trying URL 'http://www.usaspending.gov/datafeeds/2011_All_Contracts_Full_20130715.csv.zip'

Content type 'application/zip' length 827195159 bytes (788.9 Mb)

opened URL

downloaded 788.9 Mb

2010_All_Contracts_Full_20130715.csv.zip

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opened URL

downloaded 807.3 Mb

2009_All_Contracts_Full_20130715.csv.zip

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Content type 'application/zip' length 762063585 bytes (726.8 Mb)

opened URL

downloaded 726.8 Mb

2008_All_Contracts_Full_20130715.csv.zip

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Content type 'application/zip' length 917643183 bytes (875.1 Mb)

opened URL

downloaded 875.1 Mb

2007_All_Contracts_Full_20130715.csv.zip

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Content type 'application/zip' length 812652881 bytes (775.0 Mb)

opened URL

downloaded 775.0 Mb

2006_All_Contracts_Full_20130715.csv.zip

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opened URL

downloaded 672.2 Mb

2005_All_Contracts_Full_20130715.csv.zip

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opened URL

downloaded 517.0 Mb

2004_All_Contracts_Full_20130715.csv.zip

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opened URL
downloaded 366.1 Mb

2003_All_Contracts_Full_20130715.csv.zip
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downloaded 216.4 Mb

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downloaded 151.1 Mb

2001_All_Contracts_Full_20130715.csv.zip
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Content type 'application/zip' length 123288568 bytes (117.6 Mb)
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downloaded 117.6 Mb

2000_All_Contracts_Full_20130715.csv.zip
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downloaded 101.7 Mb

2013_All_Grants_Full_20130715.csv.zip
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downloaded 47.1 Mb

2012_All_Grants_Full_20130715.csv.zip
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downloaded 80.6 Mb

2011_All_Grants_Full_20130715.csv.zip
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downloaded 92.0 Mb

2010_All_Grants_Full_20130715.csv.zip
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opened URL
downloaded 111.9 Mb

2009_All_Grants_Full_20130715.csv.zip
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downloaded 97.0 Mb

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Content type 'application/zip' length 65158615 bytes (62.1 Mb)
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downloaded 62.1 Mb

2007_All_Grants_Full_20130715.csv.zip
trying URL 'http://www.usaspending.gov/datafeeds/2007_All_Grants_Full_20130715.csv.zip'
Content type 'application/zip' length 57850872 bytes (55.2 Mb)
opened URL
downloaded 55.2 Mb

2006_All_Grants_Full_20130715.csv.zip
trying URL 'http://www.usaspending.gov/datafeeds/2006_All_Grants_Full_20130715.csv.zip'
Content type 'application/zip' length 59633511 bytes (56.9 Mb)
opened URL
downloaded 56.9 Mb

2005_All_Grants_Full_20130715.csv.zip
trying URL 'http://www.usaspending.gov/datafeeds/2005_All_Grants_Full_20130715.csv.zip'
Content type 'application/zip' length 84075822 bytes (80.2 Mb)
opened URL
downloaded 80.2 Mb

2004_All_Grants_Full_20130715.csv.zip
trying URL 'http://www.usaspending.gov/datafeeds/2004_All_Grants_Full_20130715.csv.zip'
Content type 'application/zip' length 89051142 bytes (84.9 Mb)
opened URL
downloaded 84.9 Mb

2003_All_Grants_Full_20130715.csv.zip
trying URL 'http://www.usaspending.gov/datafeeds/2003_All_Grants_Full_20130715.csv.zip'
Content type 'application/zip' length 86389195 bytes (82.4 Mb)
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downloaded 82.4 Mb

2002_All_Grants_Full_20130715.csv.zip
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Content type 'application/zip' length 69983348 bytes (66.7 Mb)
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downloaded 66.7 Mb

2001_All_Grants_Full_20130715.csv.zip
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downloaded 61.2 Mb

2000_All_Grants_Full_20130715.csv.zip

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2013_All_Loans_Full_20130715.csv.zip
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opened URL
downloaded 19.9 Mb

2012_All_Loans_Full_20130715.csv.zip
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downloaded 35.9 Mb

2011_All_Loans_Full_20130715.csv.zip
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2010_All_Loans_Full_20130715.csv.zip
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downloaded 45.8 Mb

2008_All_Loans_Full_20130715.csv.zip
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downloaded 25.7 Mb

2007_All_Loans_Full_20130715.csv.zip
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2006_All_Loans_Full_20130715.csv.zip
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2005_All_Loans_Full_20130715.csv.zip

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Content type 'application/zip' length 200 bytes

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downloaded 200 bytes

2004_All_Loans_Full_20130715.csv.zip

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Content type 'application/zip' length 200 bytes

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2003_All_Loans_Full_20130715.csv.zip

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2013_All_DirectPayments_Full_20130715.csv.zip

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downloaded 172.8 Mb

2012_All_DirectPayments_Full_20130715.csv.zip

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downloaded 225.1 Mb

2011_All_DirectPayments_Full_20130715.csv.zip

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downloaded 278.5 Mb

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downloaded 170.7 Mb

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downloaded 111.9 Mb

2007_All_DirectPayments_Full_20130715.csv.zip
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downloaded 27.7 Mb

2006_All_DirectPayments_Full_20130715.csv.zip
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downloaded 61.1 Mb

2005_All_DirectPayments_Full_20130715.csv.zip
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2004_All_DirectPayments_Full_20130715.csv.zip
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downloaded 52.6 Mb

2003_All_DirectPayments_Full_20130715.csv.zip
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Content type 'application/zip' length 54925316 bytes (52.4 Mb)
opened URL
downloaded 52.4 Mb

2002_All_DirectPayments_Full_20130715.csv.zip
trying URL 'http://www.usaspending.gov/datafeeds/2002_All_DirectPayments_Full_20130715.csv.zip'
Content type 'application/zip' length 49912035 bytes (47.6 Mb)
opened URL

downloaded 47.6 Mb

2001_All_DirectPayments_Full_20130715.csv.zip

trying URL 'http://www.usaspending.gov/datafeeds/2001_All_DirectPayments_Full_20130715.csv.zip'

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opened URL

downloaded 51.9 Mb

2000_All_DirectPayments_Full_20130715.csv.zip

trying URL 'http://www.usaspending.gov/datafeeds/2000_All_DirectPayments_Full_20130715.csv.zip'

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downloaded 41.0 Mb

2013_All_Insurance_Full_20130715.csv.zip

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downloaded 5.2 Mb

2012_All_Insurance_Full_20130715.csv.zip

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opened URL

downloaded 6.9 Mb

2011_All_Insurance_Full_20130715.csv.zip

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downloaded 6.5 Mb

2010_All_Insurance_Full_20130715.csv.zip

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downloaded 2.5 Mb

2009_All_Insurance_Full_20130715.csv.zip

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Content type 'application/zip' length 2099456 bytes (2.0 Mb)

opened URL

downloaded 2.0 Mb

2008_All_Insurance_Full_20130715.csv.zip

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Content type 'application/zip' length 1600819 bytes (1.5 Mb)

opened URL

downloaded 1.5 Mb

2007_All_Insurance_Full_20130715.csv.zip

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opened URL
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2006_All_Insurance_Full_20130715.csv.zip
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opened URL
downloaded 860 Kb

2005_All_Insurance_Full_20130715.csv.zip
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downloaded 868 Kb

2004_All_Insurance_Full_20130715.csv.zip
trying URL 'http://www.usaspending.gov/datafeeds/2004_All_Insurance_Full_20130715.csv.zip'
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downloaded 898 Kb

2003_All_Insurance_Full_20130715.csv.zip
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Content type 'application/zip' length 908403 bytes (887 Kb)
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downloaded 887 Kb

2002_All_Insurance_Full_20130715.csv.zip
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opened URL
downloaded 923 Kb

2001_All_Insurance_Full_20130715.csv.zip
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downloaded 1010 Kb

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downloaded 1.2 Mb

2013_All_Others_Full_20130715.csv.zip
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opened URL
downloaded 2.0 Mb

2012_All_Others_Full_20130715.csv.zip
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downloaded 5.3 Mb

2011_All_Others_Full_20130715.csv.zip
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downloaded 3.4 Mb

2010_All_Others_Full_20130715.csv.zip
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opened URL
downloaded 1.6 Mb

2009_All_Others_Full_20130715.csv.zip
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downloaded 516 Kb

2008_All_Others_Full_20130715.csv.zip
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Content type 'application/zip' length 692131 bytes (675 Kb)
opened URL
downloaded 675 Kb

2007_All_Others_Full_20130715.csv.zip
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Content type 'application/zip' length 421345 bytes (411 Kb)
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downloaded 411 Kb

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downloaded 20 Kb

2005_All_Others_Full_20130715.csv.zip
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opened URL
downloaded 110 Kb

2004_All_Others_Full_20130715.csv.zip
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downloaded 57 Kb

2003_All_Others_Full_20130715.csv.zip

trying URL 'http://www.usaspending.gov/datafeeds/2003_All_Others_Full_20130715.csv.zip'
Content type 'application/zip' length 99699 bytes (97 Kb)
opened URL
downloaded 97 Kb

2002_All_Others_Full_20130715.csv.zip
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Content type 'application/zip' length 183724 bytes (179 Kb)
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downloaded 179 Kb

2001_All_Others_Full_20130715.csv.zip
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opened URL
downloaded 33 Kb

2000_All_Others_Full_20130715.csv.zip
trying URL 'http://www.usaspending.gov/datafeeds/2000_All_Others_Full_20130715.csv.zip'
Content type 'application/zip' length 66690 bytes (65 Kb)
opened URL
downloaded 65 Kb

```
>
> PATTERN <- paste(".*\\.csv\\.zip$", sep="")
> zip.files <- paste0(ZIP.DIR, list.files(path=ZIP.DIR, pattern=PATTERN))
>
> md5sums <- data.frame(md5sum=md5sum(zip.files))
> write.csv(md5sums, "md5sums-zip.csv") # Record md5sums
>
> info <- file.info(zip.files)
> write.csv(info[,c("size", "mtime", "ctime", "atime")], "info-zip.csv")
>
> #####
> ### Expand ZIPs
>
> CSV.DIR <- paste0(DIRDATE, "/datafeeds/") # ZIPs include files in this dir
>
> spending.files <- NULL
> for (i in 1:length(zip.files))
+ {
+   info <- file.info(zip.files[i])
+   # 0-length file in ZIP is 200 bytes, if ZIP exists
+   if ( (!is.na(info$size)) & (info$size > 200) ) # skip 0-length zips
+   {
+     spending.files <- c(spending.files,
+       unzip(zip.files[i], exdir=DIRDATE))
+     cat(spending.files, "\n")
+   }
+ }
2013-07-15/datafeeds/2000_All_Contracts_Full_20130715.csv
```

...

> spending.files

- [1] "2013-07-15/datafeeds/2000_All_Contracts_Full_20130715.csv"
- [2] "2013-07-15/datafeeds/2000_All_DirectPayments_Full_20130715.csv"
- [3] "2013-07-15/datafeeds/2000_All_Grants_Full_20130715.csv"
- [4] "2013-07-15/datafeeds/2000_All_Insurance_Full_20130715.csv"
- [5] "2013-07-15/datafeeds/2000_All_Others_Full_20130715.csv"
- [6] "2013-07-15/datafeeds/2001_All_Contracts_Full_20130715.csv"
- [7] "2013-07-15/datafeeds/2001_All_DirectPayments_Full_20130715.csv"
- [8] "2013-07-15/datafeeds/2001_All_Grants_Full_20130715.csv"
- [9] "2013-07-15/datafeeds/2001_All_Insurance_Full_20130715.csv"
- [10] "2013-07-15/datafeeds/2001_All_Loans_Full_20130715.csv"
- [11] "2013-07-15/datafeeds/2001_All_Others_Full_20130715.csv"
- [12] "2013-07-15/datafeeds/2002_All_Contracts_Full_20130715.csv"
- [13] "2013-07-15/datafeeds/2002_All_DirectPayments_Full_20130715.csv"
- [14] "2013-07-15/datafeeds/2002_All_Grants_Full_20130715.csv"
- [15] "2013-07-15/datafeeds/2002_All_Insurance_Full_20130715.csv"
- [16] "2013-07-15/datafeeds/2002_All_Others_Full_20130715.csv"
- [17] "2013-07-15/datafeeds/2003_All_Contracts_Full_20130715.csv"
- [18] "2013-07-15/datafeeds/2003_All_DirectPayments_Full_20130715.csv"
- [19] "2013-07-15/datafeeds/2003_All_Grants_Full_20130715.csv"
- [20] "2013-07-15/datafeeds/2003_All_Insurance_Full_20130715.csv"
- [21] "2013-07-15/datafeeds/2003_All_Others_Full_20130715.csv"
- [22] "2013-07-15/datafeeds/2004_All_Contracts_Full_20130715.csv"
- [23] "2013-07-15/datafeeds/2004_All_DirectPayments_Full_20130715.csv"
- [24] "2013-07-15/datafeeds/2004_All_Grants_Full_20130715.csv"
- [25] "2013-07-15/datafeeds/2004_All_Insurance_Full_20130715.csv"
- [26] "2013-07-15/datafeeds/2004_All_Others_Full_20130715.csv"
- [27] "2013-07-15/datafeeds/2005_All_Contracts_Full_20130715.csv"
- [28] "2013-07-15/datafeeds/2005_All_DirectPayments_Full_20130715.csv"
- [29] "2013-07-15/datafeeds/2005_All_Grants_Full_20130715.csv"
- [30] "2013-07-15/datafeeds/2005_All_Insurance_Full_20130715.csv"
- [31] "2013-07-15/datafeeds/2005_All_Others_Full_20130715.csv"
- [32] "2013-07-15/datafeeds/2006_All_Contracts_Full_20130715.csv"
- [33] "2013-07-15/datafeeds/2006_All_DirectPayments_Full_20130715.csv"
- [34] "2013-07-15/datafeeds/2006_All_Grants_Full_20130715.csv"
- [35] "2013-07-15/datafeeds/2006_All_Insurance_Full_20130715.csv"
- [36] "2013-07-15/datafeeds/2006_All_Others_Full_20130715.csv"
- [37] "2013-07-15/datafeeds/2007_All_Contracts_Full_20130715.csv"
- [38] "2013-07-15/datafeeds/2007_All_DirectPayments_Full_20130715.csv"
- [39] "2013-07-15/datafeeds/2007_All_Grants_Full_20130715.csv"
- [40] "2013-07-15/datafeeds/2007_All_Insurance_Full_20130715.csv"
- [41] "2013-07-15/datafeeds/2007_All_Loans_Full_20130715.csv"
- [42] "2013-07-15/datafeeds/2007_All_Others_Full_20130715.csv"
- [43] "2013-07-15/datafeeds/2008_All_Contracts_Full_20130715.csv"
- [44] "2013-07-15/datafeeds/2008_All_DirectPayments_Full_20130715.csv"
- [45] "2013-07-15/datafeeds/2008_All_Grants_Full_20130715.csv"
- [46] "2013-07-15/datafeeds/2008_All_Insurance_Full_20130715.csv"
- [47] "2013-07-15/datafeeds/2008_All_Loans_Full_20130715.csv"
- [48] "2013-07-15/datafeeds/2008_All_Others_Full_20130715.csv"
- [49] "2013-07-15/datafeeds/2009_All_Contracts_Full_20130715.csv"
- [50] "2013-07-15/datafeeds/2009_All_DirectPayments_Full_20130715.csv"
- [51] "2013-07-15/datafeeds/2009_All_Grants_Full_20130715.csv"
- [52] "2013-07-15/datafeeds/2009_All_Insurance_Full_20130715.csv"

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[53] "2013-07-15/datafeeds/2009_All_Loans_Full_20130715.csv"
[54] "2013-07-15/datafeeds/2009_All_Others_Full_20130715.csv"
[55] "2013-07-15/datafeeds/2010_All_Contracts_Full_20130715.csv"
[56] "2013-07-15/datafeeds/2010_All_DirectPayments_Full_20130715.csv"
[57] "2013-07-15/datafeeds/2010_All_Grants_Full_20130715.csv"
[58] "2013-07-15/datafeeds/2010_All_Insurance_Full_20130715.csv"
[59] "2013-07-15/datafeeds/2010_All_Loans_Full_20130715.csv"
[60] "2013-07-15/datafeeds/2010_All_Others_Full_20130715.csv"
[61] "2013-07-15/datafeeds/2011_All_Contracts_Full_20130715.csv"
[62] "2013-07-15/datafeeds/2011_All_DirectPayments_Full_20130715.csv"
[63] "2013-07-15/datafeeds/2011_All_Grants_Full_20130715.csv"
[64] "2013-07-15/datafeeds/2011_All_Insurance_Full_20130715.csv"
[65] "2013-07-15/datafeeds/2011_All_Loans_Full_20130715.csv"
[66] "2013-07-15/datafeeds/2011_All_Others_Full_20130715.csv"
[67] "2013-07-15/datafeeds/2012_All_Contracts_Full_20130715.csv"
[68] "2013-07-15/datafeeds/2012_All_DirectPayments_Full_20130715.csv"
[69] "2013-07-15/datafeeds/2012_All_Grants_Full_20130715.csv"
[70] "2013-07-15/datafeeds/2012_All_Insurance_Full_20130715.csv"
[71] "2013-07-15/datafeeds/2012_All_Loans_Full_20130715.csv"
[72] "2013-07-15/datafeeds/2012_All_Others_Full_20130715.csv"
[73] "2013-07-15/datafeeds/2013_All_Contracts_Full_20130715.csv"
[74] "2013-07-15/datafeeds/2013_All_DirectPayments_Full_20130715.csv"
[75] "2013-07-15/datafeeds/2013_All_Grants_Full_20130715.csv"
[76] "2013-07-15/datafeeds/2013_All_Insurance_Full_20130715.csv"
[77] "2013-07-15/datafeeds/2013_All_Loans_Full_20130715.csv"
[78] "2013-07-15/datafeeds/2013_All_Others_Full_20130715.csv"
>
> if (length(spending.files) > 0)
+ {
+
+ md5sums <- data.frame(md5sum=md5sum(spending.files))
+ write.csv(md5sums, "md5sums-csv.csv") # Record md5sums
+
+ info <- file.info(spending.files)
+ write.csv(info[,c("size", "mtime", "ctime", "atime")], "info-csv.csv")
+ }
>
> time.2 <- Sys.time()
> cat(sprintf(" %.1f", as.numeric(difftime(time.2, time.1, units="secs"))), " secs\n")
21077.8 secs
>
> sink()
>
>

```