Data Exploration

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9/26/2017

Read in a few files.

```
require(tidyverse)
```

```
## Loading required package: tidyverse
```

```
## Loading tidyverse: ggplot2
## Loading tidyverse: tibble
## Loading tidyverse: tidyr
## Loading tidyverse: readr
## Loading tidyverse: purrr
## Loading tidyverse: dplyr
```

```
## Conflicts with tidy packages ----------------------------------------------
```

```
## filter(): dplyr, stats
## lag():    dplyr, stats
```

```
X4_112.0_000 <- read_csv("../data/Demo_measurements/4;112/4;112.0_000.csv")
```

```
## Parsed with column specification:
## cols(
##   .default = col_double(),
##   IdentityKey = col_integer(),
##   IdentityName = col_character(),
##   Isomorphism = col_character(),
##   ShapeCode = col_character(),
##   `_2008_2_Offset_1` = col_integer(),
##   `_2008_2_Offset_2` = col_integer(),
##   `_2008_2_Offset_3` = col_integer(),
##   `_2008_2_Offset_4` = col_integer(),
##   `_2008_2_Offset_5` = col_integer(),
##   `_2008_2_Offset_6` = col_integer(),
##   `_2008_2_Offset_7` = col_integer(),
##   `_2008_2_Offset_8` = col_integer(),
##   `_2008_2_Offset_9` = col_integer(),
##   `_2008_2_Offset_10` = col_integer(),
##   `_2008_2_Offset_11` = col_integer(),
##   `_2008_2_Offset_12` = col_integer(),
##   `_2008_32_Offset_1` = col_integer(),
##   `_2008_32_Offset_2` = col_integer(),
##   `_2008_32_Offset_3` = col_integer(),
##   `_2008_32_Offset_4` = col_integer()
##   # ... with 44 more columns
## )
```

```
## See spec(...) for full column specifications.
```

```
X10_112.4.3.1.129.0.0_0.4.0.0.0.0.0_302330223 <- read_csv("../data/Demo_measurements/10;112/10;112.4.3.
```

```
## Parsed with column specification:
```

```
## cols(
##   .default = col_double(),
##   IdentityKey = col_integer(),
##   IdentityName = col_character(),
##   Isomorphism = col_character(),
##   ShapeCode = col_integer(),
##   `_2001_16_25` = col_integer(),
##   `_2001_2_12` = col_integer(),
##   `_2001_2_16` = col_integer(),
##   `_2001_2_17` = col_integer(),
##   `_2001_2_18` = col_integer(),
##   `_2001_2_24` = col_integer(),
##   `_2001_2_35` = col_integer(),
##   `_2001_2_42` = col_integer(),
##   `_2001_32_4` = col_integer(),
##   `_2001_32_7` = col_integer(),
##   `_2001_32_11` = col_integer(),
##   `_2001_32_12` = col_integer(),
##   `_2001_32_25` = col_integer(),
##   `_2001_32_42` = col_integer(),
##   `_2001_8_7` = col_integer(),
##   `_2001_8_17` = col_integer()
##   # ... with 513 more columns
## )
## See spec(...) for full column specifications.
```

Writing a function to read in all files from a *_measurements folder.