

Restore Version Control Workflow

Note some manual editing was used to keep whitespace in the top namespace tag.

Read in the old and new xml files and revert back to the older version. First commit.

```
old <- xml2::read_xml("https://raw.githubusercontent.com/
NCEAS/eml/82dd0dd4178e27097f15813bb2c4d15f526e814b/
eml-unitDictionary.xml",
options = NULL)
xml2::write_xml(old, "eml-unitDictionary.xml")

new <- xml2::read_xml("https://raw.githubusercontent.com/
NCEAS/eml/0ef141f327369d73f487fa269441209d946c2dc0/
eml-unitDictionary.xml")
```

Update deprecatedInFavorOf fields. Second commit

```
##### Get xml children #####
new_children <- xml2::xml_children(new)
old_children <- xml2::xml_children(old)

##### Get the unit ids #####
new_ids <- lapply(seq_along(new_children), function(i) {
  list <- xml2::as_list(new_children[i])
  id <- attr(list[[1]], "id")
  deprecatedInFavorOf <- attr(list[[1]], "deprecatedInFavorOf")
  deprecatedInFavorOf <- ifelse(is.null(deprecatedInFavorOf), NA, deprecatedInFavorOf)
  data.frame(i, id, deprecatedInFavorOf, stringsAsFactors = F)
})
new_ids <- do.call(rbind, new_ids)

old_ids <- lapply(seq_along(old_children), function(i) {
  list <- xml2::as_list(old_children[i])
  id <- attr(list[[1]], "id")
  data.frame(i, id, stringsAsFactors = F)
})
old_ids <- do.call(rbind, old_ids)

##### Find which units were deprecated and/or new #####
deprecated_units <- new_ids[!is.na(new_ids$deprecatedInFavorOf),]
deprecated_units <- deprecated_units[, c("id", "deprecatedInFavorOf")]
deprecated_units <- dplyr::left_join(deprecated_units, old_ids, "id")

new_units <- new_ids[!(new_ids$id %in% old_ids$id),]

##### Update deprecated units #####
for (i in deprecated_units$i) {
  xml2::xml_set_attr(old_children[i], "deprecatedInFavorOf",
    deprecated_units[deprecated_units$i == i, "deprecatedInFavorOf"])
}

##### write eml-unitDictionary #####
xml2::write_xml(old, "eml-unitDictionary.xml")
```

Add new units. Third commit.

```
##### add new units #####
old_lines <- readLines(file("eml-unitDictionary.xml"))

for (i in new_units$i) {

x <- paste0(new_children[i])
x <- gsub("<stmm1:", "<", x)
x <- gsub("</stmm1:", "</", x)
x <- gsub("/>", ">\n <description></description>\n</unit>", x)

x <- strsplit(x, "\n")
x <- lapply(x, function(y) {paste0(" ", y)})
x[[1]][length(x[[1]])+1] = ""

old_lines <- c(old_lines, x[[1]])
}

writeLines(old_lines, file("eml-unitDictionary.xml"))
```