makeR: An R Package for Managing Document Versions

by Jason M. Bryer

Abstract **makeR** is an R package to help manage R Sweave projects where multiple versions are created based upon a single source repository. For example, a monthly report where each version is identical, with perhaps the exception of easily definable parameters (e.g. date ranges for data extraction, title, etc.). This package is not meant to assist with package development or more complex data analysis projects. For those types of projects, consider **devtools** (Wickham, 2011) or **ProjectTemplate** (White, 2011), respectively.

Section title in sentence case

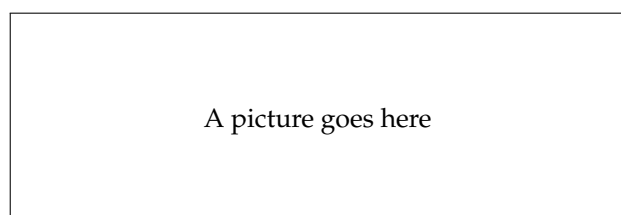This section may contain a figure such as Figure 1.

A picture goes here

Figure 1: A normal figure only occupies one column.

Example

The R-Bloggers site provides a wealth of information about R aggregated from many different R bloggers. Like many continuously changing data sources, we wish to periodically report on recent activity on the R-Bloggers site.

```
p <- newProject(name='MyProject')
```

The project file format

The 'PROJECT.xml' file defines the properties, versions, and builds of a particular project. The file created and edited using the **XML** (Lang, 2011) package. Although the **makeR** package provides functions to manage projects, using XML allows for other R programmers to interact with the **makeR** project framework. Figure 2 represents the contents of 'PROJECT.xml' after running `demo(makeR)`.

Summary

This file is only a basic article template. For full details of *The R Journal* style and information on how to prepare your article for submission, see the Instructions for Authors.

Package development

`ProjectVersion` is hosted on Github. The latest development version can be installed using the **devtools** (Wickham, 2011) package:

```
install_github('ProjectVersion', 'jbryer')
```

Bibliography

D. T. Lang. *XML: Tools for parsing and generating XML within R and S-Plus.*, 2011. URL http://CRAN.R-project.org/package=XML. R package version 3.4-3.

J. M. White. *ProjectTemplate: Automates the creation of new statistical analysis projects.*, 2011. URL http://CRAN.R-project.org/package=ProjectTemplate. R package version 0.3-5.

H. Wickham. *devtools: Tools to make developing R code easier*, 2011. URL http://CRAN.R-project.org/package=devtools. R package version 0.4.

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```
<?xml version="1.0"?>
<project name="RBloggers" buildDir="build" releaseDir="release" sourceDir="source">
  <property name="email" value="GOOGLE READER USERNAME" type="character"/>
  <property name="passwd" value="GOOGLE READER PASSWORD" type="character"/>
  <versions>
    <version name="2011-12" major="1" minor="1">
      <property name="startDate" value="2011-12-01" type="character"/>
      <property name="endDate" value="2011-12-31" type="character"/>
    </version>
  </versions>
  <builds>
    <build major="1" minor="0" build="1" name="2011-12" timestamp="Wed Jan 18 12:29:51 2012"
        R="R version 2.14.0 (2011-10-31)" platform="x86_64-apple-darwin9.8.0"
        nodename="Jason-Bryers-MacBook-Air-2.local"
        user="jbryer" file="rbloggers.pdf"/>
  </builds>
</project>
```

Figure 2: 'PROJECT.xml' for the R-Bloggers demo project.