Operations Manual

# Introduction

This is a guide to setup software and databases for the IGT project.

The manual will cover a number of topics. First, using github and its tools for version control and project distribution. Second, Integrating the management took into R Studio (later we will take a look at Python environments like Jupyter notebooks). Third, Using R Markdown to document each script within a project.

# Version Control and Project Management

Version Control Using github and gitbash for code management

R and Git/Github – see <https://happygitwithr.com/hello-git.html>

The document does a great job walking you through setting up an environment – including accounts on github, installing local git functions, and linking RStudio to git and github.

## Organizing your files

### A template

In Github, I have setup a repository template by forking a repository that contained the file structure I needed (see details). I then designated the repository as a template – allowing me to replicate the file structure for new projects.

1. Setting up a repository template : <https://github.blog/2019-06-06-generate-new-repositories-with-repository-templates/>
   1. From the above link: Every template repository gets a new URL endpoint called /generate that allows you to distribute your template more efficiently. Writing a tutorial? Building an app boilerplate for your enterprise? Distributing a project framework? Just link your users directly to the /generate endpoint. All they’ll need to do is name their project and clone their new repository to get started.
   2. You will want to explore this if a team is put together to explore the topic.
2. Once the template is designated – go to the template page
   1. Click “Use this template”

Organizing your files

* Create directory/folder for your code, data, reports, and paper drafts

Making R Studio Projects

See happygitwithr.com – does a nice job describing R studio projects

## R Style Guide

<https://google.github.io/styleguide/Rguide.html>

Also found in “My R Bible”