



Setup: Google Earth Engine and RStudio

Introduction

This document will instruct the user in setting up their machine for using Google Earth Engine and R.

Objectives

- Establish a Google Earth Engine developer account
- Download and install RStudio, the integrated development environment (IDE) for the R scripting language

Prerequisites

- You have an internet connection
- You have the ability to install software on your machine





Table of Contents

Part 1: Set Google Earth Engine developer account.....	3
Part 2: Setting up RStudio	4



Part 1: Set Google Earth Engine developer account

A. Set necessary Google Settings

1. To sign up for Earth Engine, Google will want to add you to a Google Group. You'll need to make sure that your Google account settings allow that to happen. Navigate to <https://groups.google.com/>
2. In the **upper right corner** click the **My Settings** icon and click on **My Global Settings**.
3. In the page that opens **check the box** that says **Allow group managers to direct add me to their groups**. This makes it so that when you request access to Earth Engine, the managers at Google will be able to add you.
4. Click **Save** and close the window.

B. Request Access to Earth Engine

1. Open the link <https://earthengine.google.com/signup/> or click Sign up in the upper right corner of the Earth Engine Website (<https://earthengine.google.com/>).
2. Next enter your **Google Account** or create an account.

Note: If you do NOT have a Gmail account, you can sign up here: <https://accounts.google.com/SignUp>.

3. If you have more than one Google account, you will be asked to select which one you would like to use to register for Google Earth Engine. Select an account if prompted.
4. After entering your email, click **next**.
5. In the next screen, provide your **password**.
6. The Earth Engine program is still growing and being developed, and Google requests some information from you to let you begin working in Earth Engine as a "developer". In the page that opens all fields are required. Provide:
 - i. **Email address:** This will be auto-populated based on the previous steps.
 - ii. **Full name:** Enter your first and last name.
 - iii. **Affiliation/Institution:** If you're signing up for Earth Engine for a work project, enter the name of the company or organization that you work for.
 - iv. **Country/Region:** Enter the name of the country you work in.
 - v. Briefly describe what you'd like to accomplish with Earth Engine: Google is trying to keep track of what Earth Engine is being used for, so let them know what you hope to achieve with their software. If you're signing up specifically for this workshop, you may put something along the lines of "Becoming more acquainted with remote sensing data and learning how to create, share, and edit tools".
7. Finally, agree to the Terms and Services by **checking the box**.
8. Click **Submit**.

Note: You will now need to watch your Google account for an email from Google Earth Engine. It may take up to a week to arrive. Once you receive the email, you are ready to access and begin exploring Google Earth Engine.

Part 2: Setting up RStudio

A. Download and install R and R-Studio (IDE)

1. RStudio requires that you have R version 2.11.1 (or higher) installed as well. If you do not yet have this, follow the link to navigate to the RStudio CRAN mirror. (<http://cran.rstudio.com/>) and follow the instructions to download and install R.
2. Next, navigate to the R-Studio download page:
<https://www.rstudio.com/products/rstudio/download/>.
3. Scroll down and click on the link recommended for your operating system (e.g., RStudio 0.99.903 - Windows Vista/7/8/10). This should automatically start the RStudio download.
4. When the download is complete, navigate to your Downloads folder and run the executable (e.g., RStudio-0.99.903.exe) to install RStudio.
 - i. Double click to run the executable and start the install.

Note: *if your computer indicates that you need administrator access to install, try right clicking on the executable and select Run Elevated. If you are Forest Service, when prompted indicate the software installation Justification (e.g., installation of approved software) in the Powerbroker for Windows Authorization pop up window.*

- ii. Follow the subsequent prompts to complete this installation.

Congratulations! You are now prepared to participate in the one-day Landsat Classification Tools for Long-Term Monitoring and Management workshop.