Homework Zero Tutorial

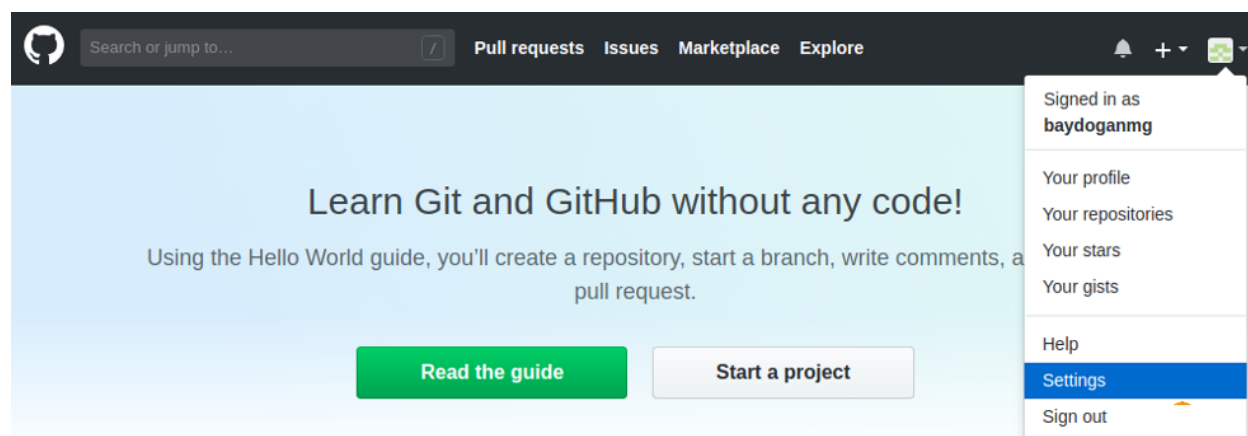*IE 360 - Spring 2021*

Contents

1 Contributors

This document is originally prepared by Berk Orbay (berkorbay@gmail.com) and customized by Mustafa Gokce Baydogan (mustafa.baydogan@boun.edu.tr) for education purposes. The screenshots to illustrate the steps can be outdated as they were prepared for Spring 20 semester. Some of the menu items shown on the screenshots may have been changed by Github. However the tasks are still doable, use the the related forum topic on Moodle in case you have questions/problems. This homework assumes that you have R and RStudio installed.
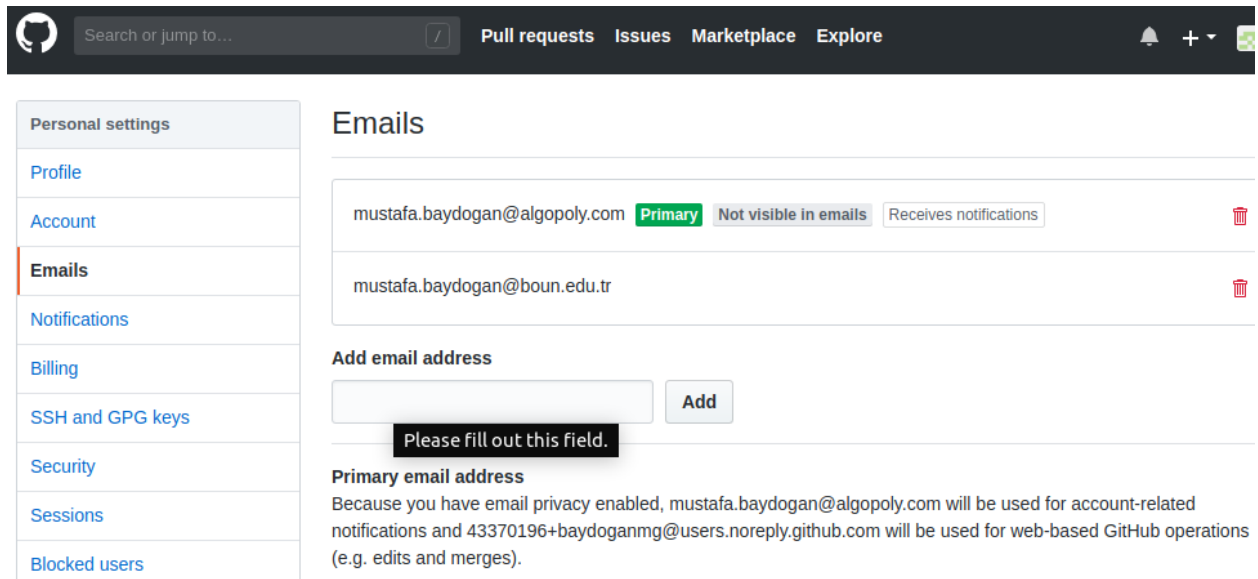
2 Step 0: Create a GitHub Account and Accept Homework Link

1. Open github.com
2. Create an account.
3. If you already have one, add your @boun.edu.tr email to the email addresses.
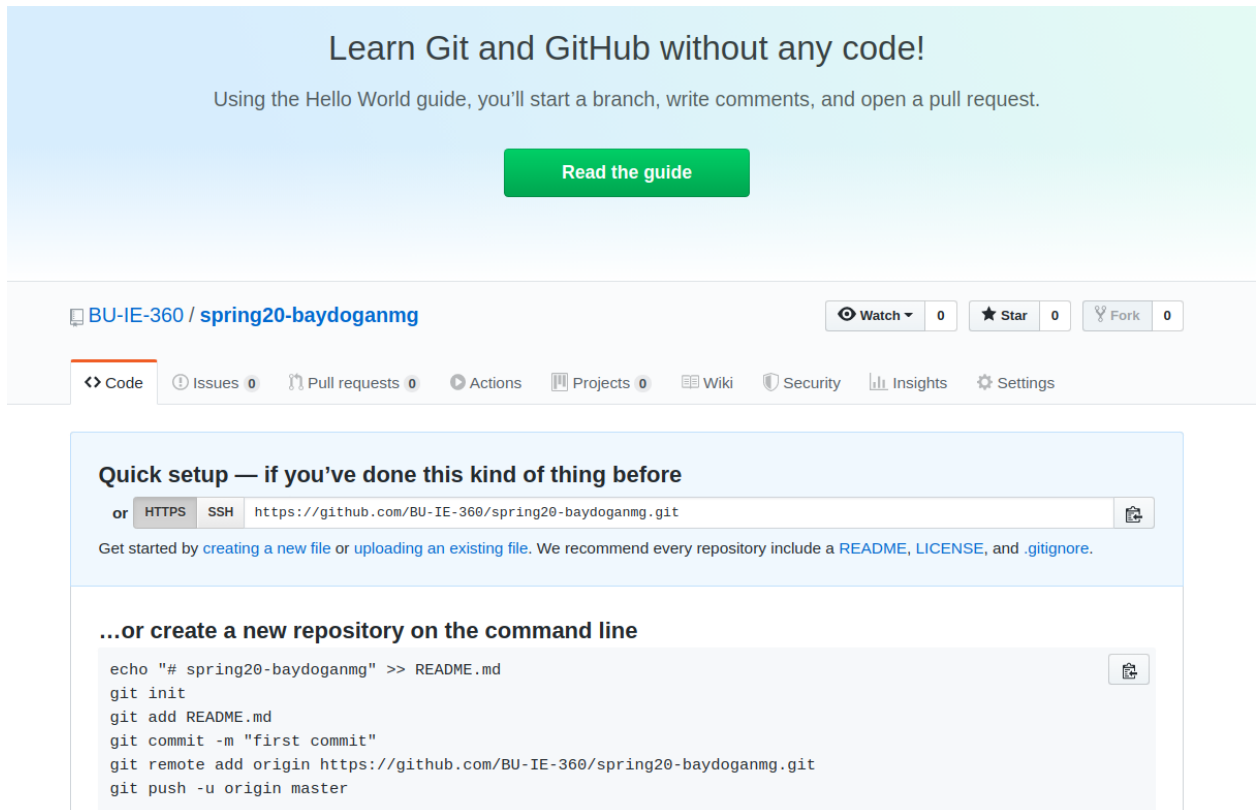
Example screenshot.

Example screenshot.

4. Enter the link to the browser and create your repository from there.

The link: https://classroom.github.com/a/d1zjYGx8

Your repository will be BU-IE-360/spring21-<YOUR_GITHUB_USERNAME>

3 Step 1: Download GitHub Desktop or GitKraken and Clone Your Repository

1. Visit GitHub Desktop website, download (Mac/Windows) and install. GitHub Desktop is not available for Linux distributions. I would recommend GitKraken which is multi-platform.

2. GitHub Desktop instructions: Open GH Desktop and login. Clone your repository to your computer. Locate your repository. It will include starter files if there is any.

3. GitKraken instructions: Open GitKraken. Sign-in with GitHub in welcome screen. Authorize using your browser. You can follow the instruction in the link and clone your repository to your computer. It will include starter files if there is any.

If you have trouble in performing these tasks, you can have a look at the following YouTube Tutorials: GH and GitKraken

4 Step 2: Set Up Your GitHub Pages Website

1. You are going to this only once. Go to your repository. Click on Settings.
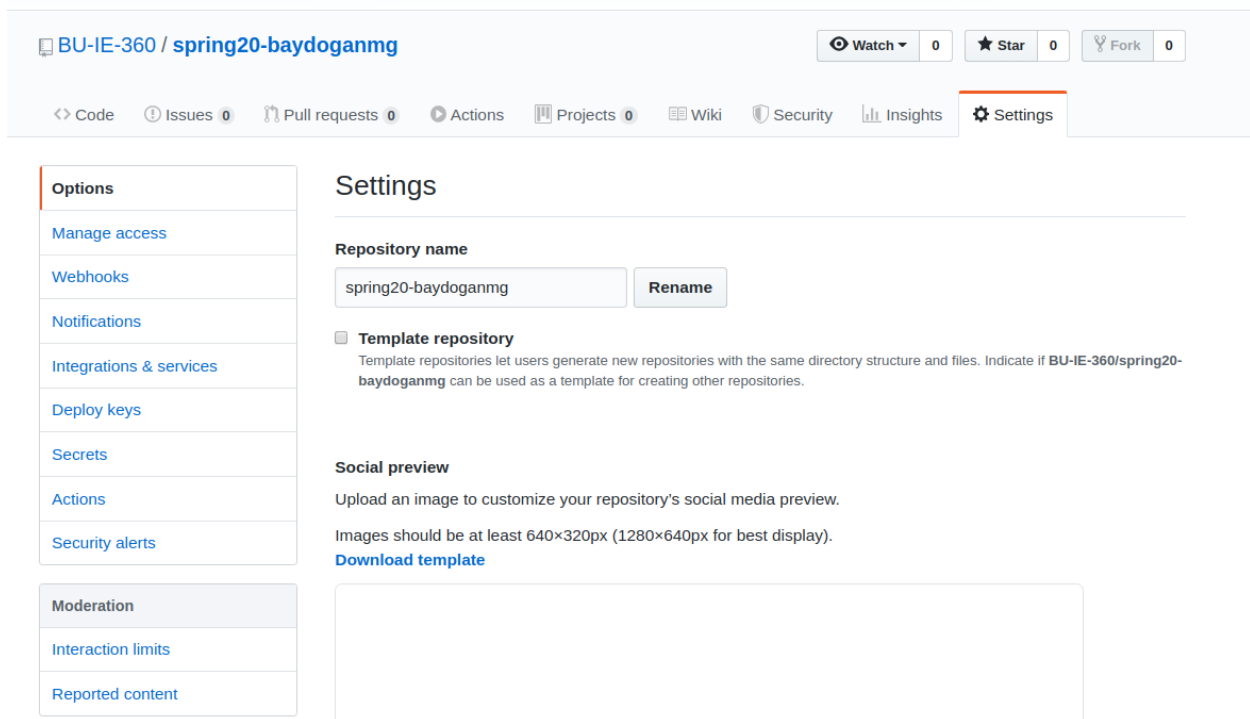
3. Scroll down to GitHub Pages. Click on "Choose a theme button"" and choose the theme you want to use for your webpage.

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Source
GitHub Pages is currently disabled. You must first add content to your repository before you can publish a GitHub Pages site. Learn more.

None ▾

Theme Chooser
Select a theme to publish your site with a Jekyll theme using the `master branch`. Learn more.

Choose a theme

| Cayman | Slate | MERLOT | Time Machine | MINIMAL | Leap Day |

Hide thumbnails   Select theme

Cayman theme

Cayman is a clean, responsive theme for GitHub Pages.

View on GitHub   Download .zip   Download .tar.gz

4. Make sure that "source" is selected as master branch.

5. Visit your webpage to check if your template page is there.
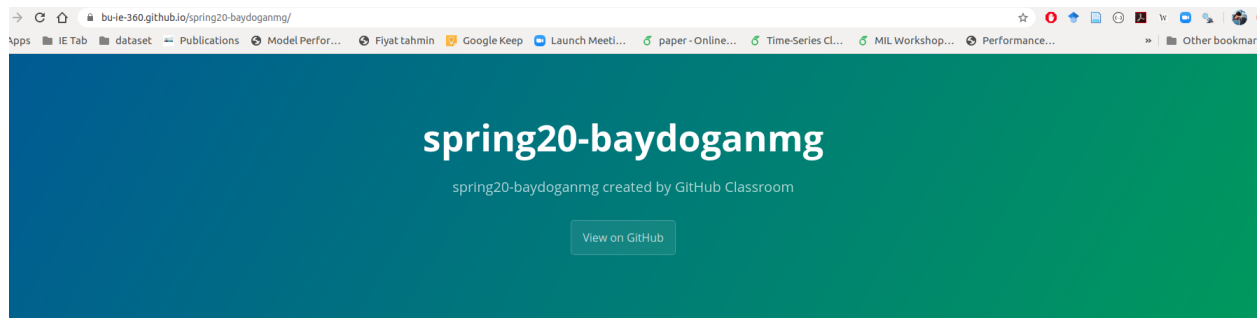
5 Step 3: Do the Homework

1. Download homework example from Moodle. This will be an Rmd file.

```
1  ---
2  title: "Interesting Forecasting Applications with R"
3  author: Name Surname - IE360 - Srping 2020
4  ---
5  ```{r,echo=FALSE,results="hide"}
6  library(knitr)
7  opts_chunk$set(tidy.opts=list(width.cutoff=60),tidy=TRUE)
8  ```
9
10 ```{r,echo=FALSE,eval=FALSE}
11 rmarkdown::render("/home/baydogan/Courses/IE360/Guidelines/example_homework_0.Rmd",output_format="pdf_document")
12 rmarkdown::render("/home/baydogan/Courses/IE360/Guidelines/example_homework_0.Rmd",output_format="html_document")
13 ```
14
15 1. [Time series forecasting using ARIMA models](https://blogs.oracle.com/datascience/introduction-to-forecasting-with-arima-in-r)
16
17    This example is important because it introduces the forecasting methodology using ARIMA models in R. The steps are ...
18
```

2. Open RStudio as in the screenshot above. Make sure you installed pandoc.

3. Open example homework file, change name surname and fill your five examples.

4. Knit to HTML. Find where you saved the file.

5. Add it under files (create a directory named as "files" under your local repository if you do not have it.). Suppose my homework html file name is interesting_examples.html. Note that you create a repository under your local file systems using Github Desktop or Gitkraken. Go to the directory using your file explorer and create a new directory named "files". Move to your html file under "files" directory. Github Desktop or Gitkraken will recognize the changes in your local repo. You need to stage the files, commit the changes and push to your Github repo which is online. If you have difficulty in any of these, please watch the videos on the youtube links provided before in the installation part of Github Desktop or Gitkraken.

6. Edit your index.md and _config.yml files. (You can use Atom editor or any other text editor including Notepad).
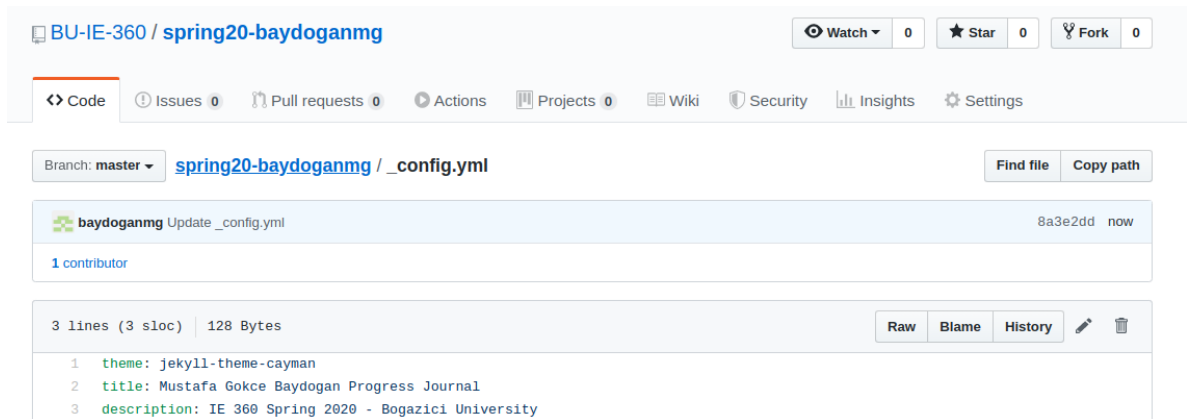
   index.md: make sure your path and file name is correct.

```
1  # Example Progress Journal
2
3  ## Week 0 (September 19)
4
5  [Here](files/interesting_examples.html) is my 5 interesting R examples
6
```

   config.yml: make sure you changed name and surname to yours.

| BU-IE-360 / **spring20-baydoganmg** | | | | Watch ▾ 0 | ★ Star 0 | Fork 0 |

‹› Code ⊙ Issues **0** Pull requests **0** ⊙ Actions Projects **0** Wiki Security Insights Settings

Branch: **master** ▾   **spring20-baydoganmg** / **_config.yml**   Find file   Copy path

baydoganmg Update _config.yml   8a3e2dd now

1 contributor

3 lines (3 sloc) | 128 Bytes   Raw   Blame   History   ✎   🗑

```
1   theme: jekyll-theme-cayman
2   title: Mustafa Gokce Baydogan Progress Journal
3   description: IE 360 Spring 2020 - Bogazici University
```
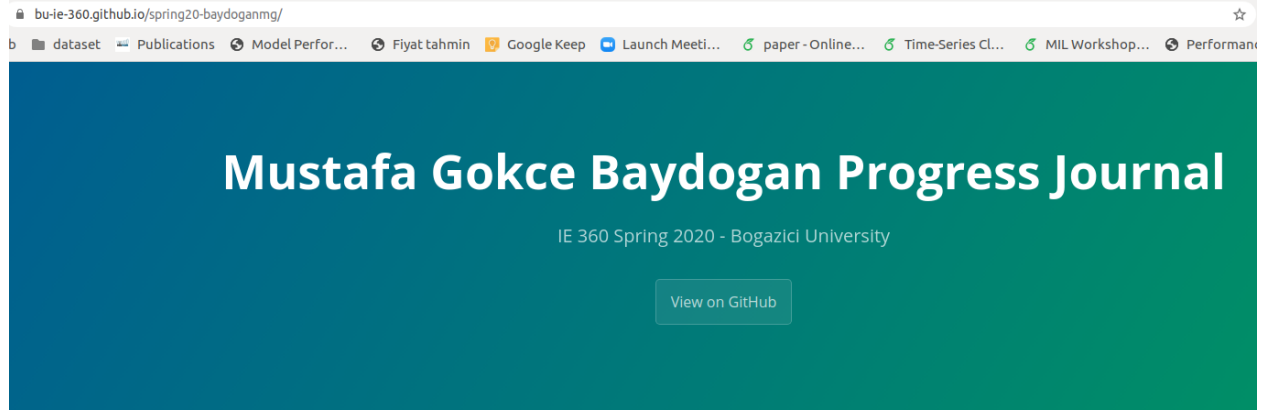
6 Step 4: Commit and Sync

1. No matter which tool you use (i.e. GH Desktop or GitKraken). Click on your repository, you should have some changes.

2. Write something to the commit title. Commit and then sync (make sure you committed all the changes first).

3. You are going to repeat this step every time you changed something in this repository.

7 Step 5: Celebrate!

Congratulations! You just managed to handle Git, GitHub, GitHub Classroom, GitHub Desktop or GitKraken, GitHub Pages and RMarkdown like a boss.

dataset   Publications   Model Perfor...   Fiyat tahmin   Google Keep   Launch Meeti...   paper - Online...   Time-Series Cl...   MIL Workshop...   Performan

Mustafa Gokce Baydogan Progress Journal

IE 360 Spring 2020 - Bogazici University

View on GitHub

Example Progress Journal

Week 0 (February 18th)

Here is my 5 interesting R examples.

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