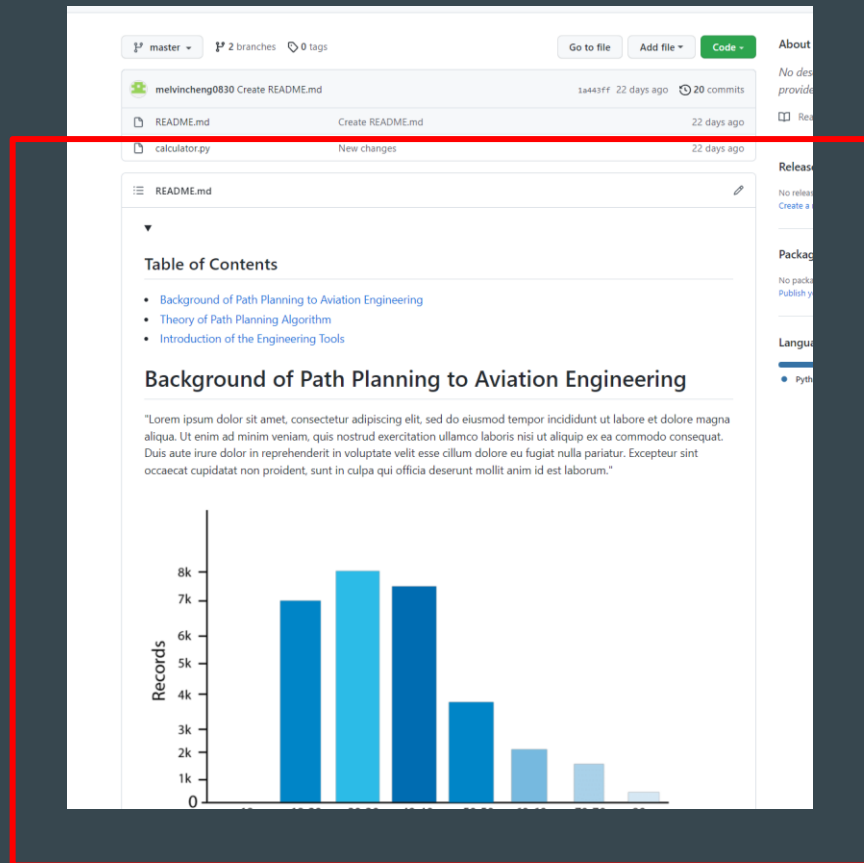# Creating a README in GitHub

•••

AAE2004 Introduction to Aviation Systems

What is a README.md?

- A file for your repository front page
- Contains:
  - Information about your repository
  - Directory
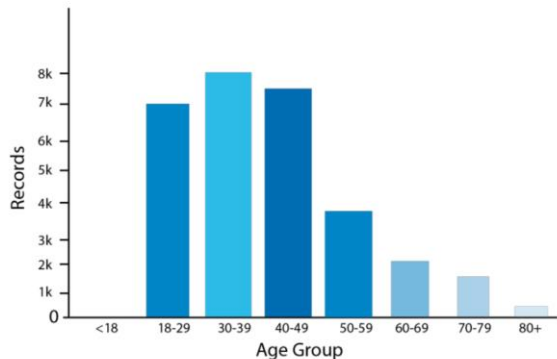 - Contribution
  - And more...

Preview vs Source code of the README.md file

Table of Contents

- Background of Path Planning to Aviation Engineering
- Theory of Path Planning Algorithm
- Introduction of the Engineering Tools

Background of Path Planning to Aviation Engineering

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum."
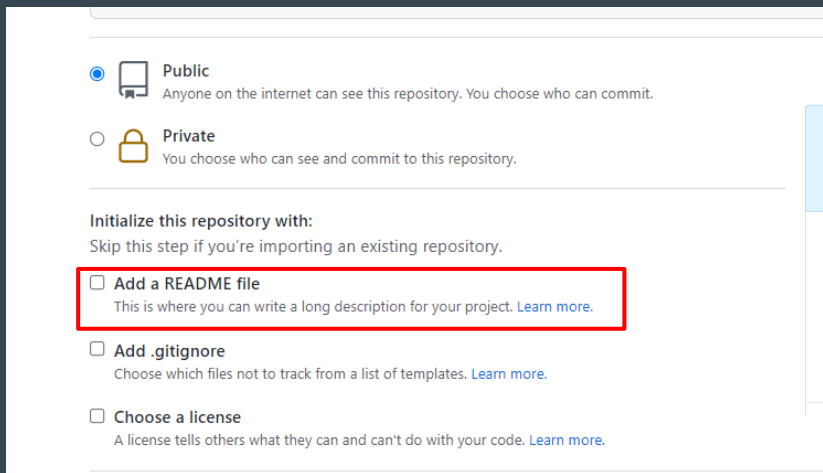
"At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat."

Preview

```
1   <!-- TABLE OF CONTENTS -->
2   <details open="open">
3     <summary><h2 style="display: inline-block">Table of Contents</h2></summary>
4       <li><a href="#Background-of-Path-Planning-to-Aviation-Engineering">Background of Path Planning to Aviation Engineering</a></li>
5       <li><a href="#Theory-of-Path-Planning-Algorithm">Theory of Path Planning Algorithm</a></li>
6       <li><a href="#Introduction-of-the-Engineering-Tools ">Introduction of the Engineering Tools </a></li>
7     </ol>
8   </details>
9
10
11
12  <!-- ABOUT THE PROJECT -->
13  # Background of Path Planning to Aviation Engineering
14
15  "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation
    ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint
    occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum."
16
17  ![This is an image](https://www.researchgate.net/profile/Jan-Bieser/publication/333867743/figure/fig2/AS:771428257374208@1560934237674/Bar-chart-showing-the-number-of-
    observations-value-attribute-for-each-age-group-key.png)
18
19  "At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati
    cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio.
    Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor
    repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque
    earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat."
20
21  "On the other hand, we denounce with righteous indignation and dislike men who are so beguiled and demoralized by the charms of pleasure of the moment, so blinded by desire,
    that they cannot foresee the pain and trouble that are bound to ensue; and equal blame belongs to those who fail in their duty through weakness of will, which is the same as
    saying through shrinking from toil and pain. These cases are perfectly simple and easy to distinguish. In a free hour, when our power of choice is untrammelled and when nothing
    prevents our being able to do what we like best, every pleasure is to be welcomed and every pain avoided. But in certain circumstances and owing to the claims of duty or the
    obligations of business it will frequently occur that pleasures have to be repudiated and annoyances accepted. The wise man therefore always holds in these matters to this
    principle of selection: he rejects pleasures to secure other greater pleasures, or else he endures pains to avoid worse pains."
22
```
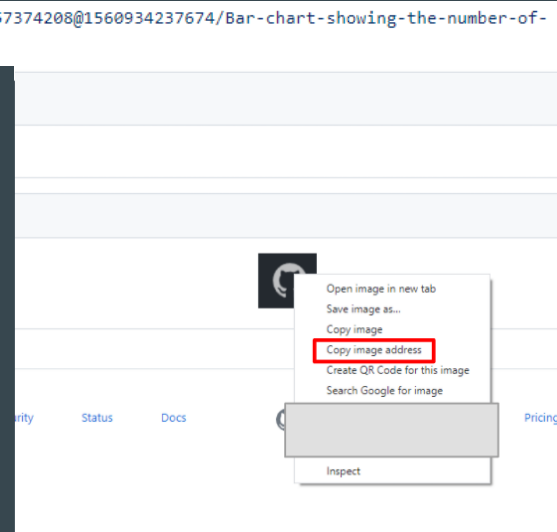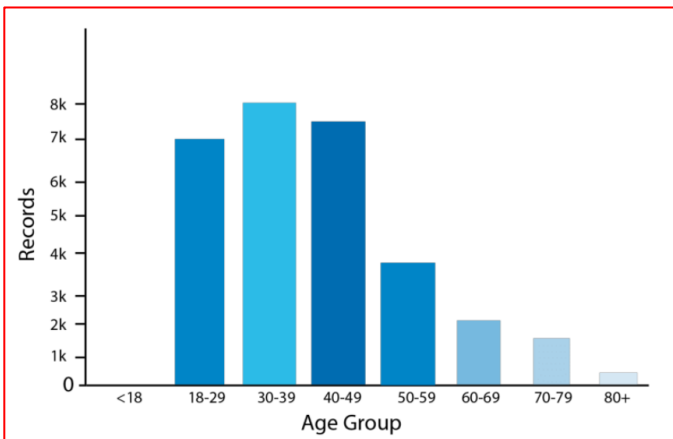
Source Code

How to create a README.md

- You can create a README before or after your create your repository

Basic Features

1. Basic text, titles and subtitles
2. Table of contents
3. Inserting figures / photos

Basic text, titles and subtitles

- To create <u>normal texts</u>, simply type them in to the source code
- To create a <u>main title</u>, add a '#' at the beginning
  - *# This is the Main Title*
  - *##### More # makes smaller titles*

Background of Path Planning to Aviation Engineering

Smaller Title

Even smaller title

```
# Background of Path Planning to Aviation Engineering
### Smaller Title
##### Even smaller title
```

Table of Contents

- You need to have titles before creating a table of Contents
- Format of a table of contents
- Everything like fonts, text sizes and more can be altered!

```
<!-- TABLE OF CONTENTS -->
<details open="open">
  <summary><h2 style="display: inline-block">Table of Contents</h2></summary>
    <li><a href="#Background-of-Path-Planning-to-Aviation-Engineering">Background of Path Planning to Aviation Engineering</a></li>
    <li><a href="#Theory-of-Path-Planning-Algorithm">Theory of Path Planning Algorithm</a></li>
    <li><a href="#Introduction-of-the-Engineering-Tools ">Introduction of the Engineering Tools </a></li>
  </ol>
</details>
```

Text to be shown

Titles to be directed to

Inserting Figures / photos

- You need to provide a link of the photo for this to work
- For screenshots you make, you can upload them to your repository and do the same thing by copying the image address!
- Example:

![This is an image](https://www.researchgate.net/profile/Jan-Bieser/publication/333867743/figure/fig2/AS:771428257374208@1560934237674/Bar-chart-showing-the-number-of-observations-value-attribute-for-each-age-group-key.png)

Message shown when picture cannot load

You can get the link for a photo by right clicking on it and select 'Copy link address'

Full Example

- Just like writing an HTML page
- Different formatting syntax creates corresponding visual formatting for the README page

Your README.md Report

- You are <u>required</u> to include the basic features mentioned in this PPT
  - Table of content, image, titling
- For bonus marks:
  - Search for more features on the web and include them appropriately to your README file!
  - What to add?
    - A gif showing your path planning plot
    - Other potential materials you find useful
- Useful links:
  - GitHub official tutorial