



Development Diary

This diary will contain every major meeting, sprint or advancement related to the project Treeant.

03/12/2024 (12:30-14:00)

Today, being the first day allocated to the second-assignment, a.k.a. Treeant (we will refer to it in this fashion), we focused on understanding the requirements, setting the `<.gitignore>` file to ensure a clean and functional workplace, and adding in the repository, milestones, issues assigned to different milestones and labels to categorize them. We also created a logo that fitted the aim of the project and started (as you can read) the documentation.

10/12/2024 (12:00-14:00)

Today we tackled the tree implementation and the adaptation of the `<Core>` to this project, as we reused the Photoformer one, due to its similarities. Moreover, we implemented the process's timestamping, and statistical data gathering.

17/12/2024 (12:00-14:00)

Due to external influences, today we advanced few to none. We focused on gathering information found on the internet on different ways to tackle Treeant's issues.

Being both of us on "vacation" we decided to follow a more individual approach dealing with issues on our own and only sharing progress when struggling.

21/12/2024 (10:00-14:00, 16:00-20:00)

This day, we implemented the methods to insert the images in the binary search tree (a.k.a. T1), created the `<SumRGBList>` and `<SumRGBListNode>`, corrected the implementation of various functions in the `<StatisticalMeasures>` class

22/12/2024 (10:00-14:00, 16:00-20:00)

Today, we focused ourselves on multiple issues: the implementation of the binary balanced ordered tree (a.k.a. T2), an upgrade to the whole program GUI, changing the `<StatisticalMeasures>` to `<Operation>` and last but not least adding of the time measures.

23/12/2024 (8:00-14:00, 16:00-18:00)

Today we fixed the implementation of T2, there was an error in the copying of T1, the nodes pointed to the same lists as in T1, in order to fix it we implemented a method called copyList. Also, we started the slow process of commenting the code newly implemented, fixed some typos and correctly managed the cleaning of unused elements, reducing by a substantial amount the RAM memory used by Treeant.

26/12/2024

Today, we added comprehensive comments to the `<BinaryBalancedTree>`. This documentation step ensures that the logic and structure of the tree are more accessible to anyone reading or maintaining the code in the future. It was a productive day dedicated to enhancing readability and long-term maintainability.

27/12/2024

The day's progress revolved around enhancing code clarity and correcting minor errors. We refined several comments, fixed typos, and ensured the binary search tree class was more accessible by correcting errors in its structure and documentation. Additional detailed comments were added to the binary balanced tree section, offering a deeper understanding of its functionality.

28/12/2024

Today, we focused on improving the organization and accuracy of our output. We corrected a typo and updated the output image naming conventions to better represent their functionality. These changes will improve clarity and prevent confusion in future collaborations or updates to the project.

29/12/2024

This day was spent resolving minor but persistent issues in the project. A typo that had gone unnoticed was corrected, ensuring precision in our documentation and outputs. Following this, method names for output images were adjusted to reflect a more consistent and descriptive naming convention. Though these were subtle changes, they contribute significantly to the project's maintainability and professional standard.

01/01/2025

Today, we continued refining and documenting our work on the project. Guillermo focused on fixing redundancy during balancing, we deleted the whole `<order>` method as due to the correct implementation of the balance method the ordered nature of the `<BinarySearchTree>` was being maintained. And correcting improper naming conventions in the code, ensuring cleaner and more efficient execution. Meanwhile, Alejandro added further detail to comments, enhancing clarity and readability for future developers who interact with this repository. These steps were small but essential to maintain the project's quality as it grows.

02/01/2025

We changed the `<maxDepth>` method name into `<nodeHeight>` to remove confusion caused by its naming. Additionally, detailed explanations were added to clarify depth calculations.

04/01/2025

Today, we corrected issues in the documentation box diagrams and renamed project files for consistency (e.g., `Development Diary.pdf` → `DevDiary.pdf`). We also adjusted the maximum tree depth calculation to reflect the height of the root node.

05/01/2025

This day, we fixed issues in the `TreeantSlides` resolution and uploaded the final documentation files. Minor typos in `TreeantDoc` were addressed, and the structure of certain code sections was improved to enhance readability and maintainability.

06/01/2025

We finalized the project by preparing the workspace for delivery. Explanations in `TreeantDocs` were further detailed to ensure the documentation is clear and comprehensive for future users.

Total approximate hours spent on Treeant: 50+ hours