

## 5-ый этап индивидуального проекта

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## Информация

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## Вводная часть

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На этом этапе я сделаю записи для персональных проектов, сделаю пост по прошедшей неделе и по “Языки научного программирования”.

## Пост по предыдущей неделе

- “My Crazy, Amazing, Rollercoaster Week”

⋮ ⋮ {column width=“30%”}

```
1  ---
2  title: "My Crazy, Amazing, Rollercoaster Week"
3  summary: This past week was a mixed bag of experiences. It started with a joyful birthday celebration, followed by the stress of a challengi
4  date: "2025-05-10"
5
6  authors:
7  - admin
8  - Genifer
9
10 tags:
11 - Academic
12 - Hugo Blox
13 - Markdown
14 ---
15 Welcome
16 11< toc mobile_only=true is_open=true >3}
17
18 ✓ ## My last week
19
20 Okay, seriously, this last week was a whirlwind. It started with my birthday! I turned 19 and had a blast. My friends took me out for suahi
21
22 Then came the looming shadow of the calculus test. I spent pretty much every spare moment cramming, reviewing integrals, and trying to wrap
23 |
24 But the universe must have known I needed a pick-me-up because the best thing happened: we got a dog! We adopted him from the local shelter.
```

# Записи 1 для персональных проектов

- NumPy

```
::: :: {column width="30%"}
```

```
1  ---
2  title: NumPy
3  date: 2025-10-26
4  external_link: https://github.com/NumPy/NumPy
5  tags:
6    - Hugo
7    - Wowchemy
8    - Markdown
9  ---
10
11  The fundamental package for numerical computation in Python. Used extensively for creating and manipulating arrays, which are then c
12
13  <!--more-->
```

```
::: .....
::: .....
```

## Записи 2 для персональных проектов

- TorchVision

::: :: {column width="30%"}

```
1  ---
2  title: TorchVision
3  date: 2025-10-26
4  external_link: https://github.com/TorchVision/TorchVision
5  tags:
6    - Hugo
7    - Wowchemy
8    - Markdown
9  ---
10
11  Part of the PyTorch ecosystem, specifically designed for computer vision tasks. Provides datasets (e.g., ImageNet, CIFAR-10)
12
13  <!--more-->
```

::: :::::



# Пост по “Языки научного программирования”

- Языки научного программирования

::: :: {column width="30%"}

```
1 ---
2 title: "Scientific programming languages."
3 summary: Scientific programming languages are specialized tools designed to facilitate numerical computation, data analysis, and visualization in scientific and enginee
4
5 date: "2025-05-10"
6
7 authors:
8 - admin
9 - Genifer
10
11 tags:
12 - Academic
13 - Hugo Blox
14 - Markdown
15 ---
16 Welcome
17 11< toc mobile_only=true is_open=true >3}
18
19 ∨ ## What are Scientific Programming Languages?
20
21 • Definition: Scientific programming languages are specialized programming languages (or general-purpose languages used in a specific way) designed to facilitate scier
22
23 • Key Characteristics:
24 • Numerical Computing Focus: Strong support for numerical operations, linear algebra, matrix manipulation, statistical analysis, and other mathematical functions.
25 • Performance Optimization: Designed or optimized for speed and efficiency, especially when dealing with large datasets or complex simulations.
26 • Data Analysis Capabilities: Tools for data cleaning, transformation, statistical modeling, and visualization.
27 • Scientific Libraries: Extensive libraries and toolkits providing pre-built functions for common scientific tasks (e.g., signal processing, image analysis, optimiz
28 • Visualization Tools: Capabilities for creating plots, graphs, and other visual representations of data.
29 • Community Support: Large and active communities of scientists and engineers who contribute to the development of libraries, tools, and documentation.
```