

ЛР - 7 Sphinx

1/ Устанавливаем Sphinx

```
~/workspace: python3 -m http.server 8000 --directory build/html/

~/workspace$ pip install sphinx
Collecting sphinx
  Downloading sphinx-8.2.3-py3-none-any.whl.metadata (7.0 kB)
Collecting sphinxcontrib-applehelp>=1.0.7 (from sphinx)
  Downloading sphinxcontrib_applehelp-2.0.0-py3-none-any.whl.metadata (2.3 kB)
Collecting sphinxcontrib-devhelp>=1.0.6 (from sphinx)
  Downloading sphinxcontrib_devhelp-2.0.0-py3-none-any.whl.metadata (2.3 kB)
Collecting sphinxcontrib-htmlhelp>=2.0.6 (from sphinx)
  Downloading sphinxcontrib_htmlhelp-2.1.0-py3-none-any.whl.metadata (2.3 kB)
Collecting sphinxcontrib-jsmath>=1.0.1 (from sphinx)
  Downloading sphinxcontrib_jsmath-1.0.1-py2.py3-none-any.whl.metadata (1.4 kB)
Collecting sphinxcontrib-qthelp>=1.0.6 (from sphinx)
  Downloading sphinxcontrib_qthelp-2.0.0-py3-none-any.whl.metadata (2.3 kB)
Collecting sphinxcontrib-serializinghtml>=1.1.9 (from sphinx)
  Downloading sphinxcontrib_serializinghtml-2.0.0-py3-none-any.whl.metadata (2.4 kB)
Requirement already satisfied: Jinja2>=3.1 in ~/.pythonlibs/lib/python3.11/site-packages (from sphinx) (3.1.6)
Collecting Pygments>=2.17 (from sphinx)
  Downloading pygments-2.19.1-py3-none-any.whl.metadata (2.5 kB)
Collecting docutils<0.22,>=0.20 (from sphinx)
  Downloading docutils-0.21.2-py3-none-any.whl.metadata (2.8 kB)
Collecting snowballstemmer>=2.2 (from sphinx)
  Downloading snowballstemmer-3.0.1-py3-none-any.whl.metadata (7.9 kB)
Collecting babel>=2.13 (from sphinx)
  Downloading babel-2.17.0-py3-none-any.whl.metadata (2.0 kB)
Collecting alabaster>=0.7.14 (from sphinx)
  Downloading alabaster-1.0.0-py3-none-any.whl.metadata (2.8 kB)
Collecting imagesize>=1.3 (from sphinx)
  Downloading imagesize-1.4.1-py2.py3-none-any.whl.metadata (1.5 kB)
Requirement already satisfied: requests>=2.30.0 in ~/.pythonlibs/lib/python3.11/site-packages (from sphinx) (2.32.3)
Collecting roman-numerals-py>=1.0.0 (from sphinx)
  Downloading roman_numerals_py-3.1.0-py3-none-any.whl.metadata (3.6 kB)
Collecting packaging>=23.0 (from sphinx)
  Downloading packaging-25.0-py3-none-any.whl.metadata (3.3 kB)
Requirement already satisfied: MarkupSafe>=2.0 in ~/.pythonlibs/lib/python3.11/site-packages (from Jinja2>=3.1->sphinx) (3.0.2)
Requirement already satisfied: charset-normalizer<4,>=2 in ~/.pythonlibs/lib/python3.11/site-packages (from requests>=2.30.0->sphinx) (3.4.2)
Requirement already satisfied: idna<4,>=2.5 in ~/.pythonlibs/lib/python3.11/site-packages (from requests>=2.30.0->sphinx) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in ~/.pythonlibs/lib/python3.11/site-packages (from requests>=2.30.0->sphinx) (2.4.0)
Requirement already satisfied: certifi>=2017.4.17 in ~/.pythonlibs/lib/python3.11/site-packages (from requests>=2.30.0->sphinx) (2025.4.26)
Downloading sphinx-8.2.3-py3-none-any.whl (3.6 MB)
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Downloading alabaster-1.0.0-py3-none-any.whl (13 kB)
Downloading babel-2.17.0-py3-none-any.whl (10.2 MB)
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Downloading docutils-0.21.2-py3-none-any.whl (587 kB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 587.4/587.4 kB 37.8 MB/s eta 0:00:00
Downloading imagesize-1.4.1-py2.py3-none-any.whl (8.8 kB)
Downloading packaging-25.0-py3-none-any.whl (66 kB)
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Downloading pygments-2.19.1-py3-none-any.whl (1.2 MB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 1.2/1.2 MB 49.5 MB/s eta 0:00:00
Downloading roman_numerals_py-3.1.0-py3-none-any.whl (7.7 kB)
Downloading snowballstemmer-3.0.1-py3-none-any.whl (103 kB)
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Downloading sphinxcontrib_applehelp-2.0.0-py3-none-any.whl (119 kB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 119.3/119.3 kB 14.8 MB/s eta 0:00:00
Downloading sphinxcontrib_devhelp-2.0.0-py3-none-any.whl (82 kB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 82.5/82.5 kB 6.6 MB/s eta 0:00:00
Downloading sphinxcontrib_htmlhelp-2.1.0-py3-none-any.whl (98 kB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 98.7/98.7 kB 9.8 MB/s eta 0:00:00
Downloading sphinxcontrib_jsmath-1.0.1-py2.py3-none-any.whl (5.1 kB)
Downloading sphinxcontrib_qthelp-2.0.0-py3-none-any.whl (88 kB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 88.7/88.7 kB 7.7 MB/s eta 0:00:00
Downloading sphinxcontrib_serializinghtml-2.0.0-py3-none-any.whl (92 kB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 92.1/92.1 kB 8.1 MB/s eta 0:00:00
Installing collected packages: sphinxcontrib-serializinghtml, sphinxcontrib-qthelp, sphinxcontrib-jsmath, sphinxcontrib-htmlhelp, sphinxcontrib-devhelp, sphinxcontrib-applehelp, snowballstemmer, roman-numerals-py, Pygments, packaging, imagesize, docutils, babel, alabaster, sphinx
Successfully installed Pygments-2.19.1 alabaster-1.0.0 babel-2.17.0 docutils-0.21.2 imagesize-1.4.1 packaging-25.0 roman-numerals-py-3.1.0 snowballstemmer-3.0.1 sphinx-8.2.3 sphinxcontrib-applehelp-2.0.0 sphinxcontrib-devhelp-2.0.0 sphinxcontrib-htmlhelp-2.1.0 sphinxcontrib-jsmath-1.0.1 sphinxcontrib-qthelp-2.0.0 sphinxcontrib-serializinghtml-2.0.0
~/workspace$ sphinx-quickstart
Welcome to the Sphinx 8.2.3 quickstart utility.

Please enter values for the following settings (just press Enter to
accept a default value, if one is given in brackets).

Selected root path: .

You have two options for placing the build directory for Sphinx output.
Either, you use a directory "build" within the root path, or you separate
"source" and "build" directories within the root path.
> Separate source and build directories (y/n) [n]: y

The project name will occur in several places in the built documentation.
> Project name: sphinx-start
> Author name(s): tarassiky
> Project release []: 1

If the documents are to be written in a language other than English,
you can select a language here by its language code. Sphinx will then
translate text that it generates into that language.

For a list of supported codes, see
https://www.sphinx-doc.org/en/master/usage/configuration.html#confval-language.
> Project language [en]:

Creating file /home/runner/workspace/source/conf.py.
Creating file /home/runner/workspace/source/index.rst.
Creating file /home/runner/workspace/Makefile.
Creating file /home/runner/workspace/make.bat.

Finished: An initial directory structure has been created.

You should now populate your master file /home/runner/workspace/source/index.rst and create other documentation
source files. Use the Makefile to build the docs, like so:

    make builder

where "builder" is one of the supported builders, e.g. html, latex or linkcheck.
```

При настройке проекта необходимо было указать название проекта, автора и язык

2/ Следующее действие заключалось в добавлении содержимого в файл `index.rst` и необходимых настроек в файл конфигурации.

```
main.py requirements.txt Console Preview pp.py index.rst x conf.py Preview +
source > index.rst
1 .. monkeys documentation master file
2
3 Monkeys: Marvels of the Primate World
4 =====
5
6 .. image:: _static/monkey-logo.png
7     :width: 300
8     :align: center
9     :alt: Monkey Logo
10
11 History and Evolution
12 -----
13
14 Monkeys are a diverse group of primates, encompassing a wide range of species across the globe.
15 Evolving over millions of years, they have adapted to various environments and lifestyles.
16 Monkeys belong to one of two groups: New World monkeys (found in the Americas) and Old World monkeys (found in Africa and Asia).
17
18 Key Evolutionary Traits:
19 -----
20
21 - **Prehensile Tails (New World Monkeys):** Many New World species boast prehensile tails, used as a fifth limb for gripping branches.
22 - **Opposable Thumbs:** Essential for tool use and manipulation of objects.
23 - **Complex Social Structures:** Many monkey species live in complex social groups with intricate hierarchies.
24 - **Advanced Cognitive Abilities:** Monkeys exhibit remarkable intelligence, problem-solving skills, and learning capabilities.
25 - **Arboreal Lifestyle** Most species live in forests and are specially adapted for climbing in trees.
26
27 Modern Monkey Diversity
28 -----
29
30 Today, monkeys occupy a wide variety of habitats, from tropical rainforests to savannas and even mountainous regions. They display diverse behaviors and
31 adaptations, reflecting their evolutionary success.
32
33 .. figure:: _static/snow-monkey.jpg
34     :width: 400
35     :align: center
36     :alt: Japanese Macaques (Snow Monkeys)
37
38     Japanese Macaques (Snow Monkeys) are well known for their ability to survive in cold environments.
39
40 The wide array of monkey species continues to fascinate and inform scientific research, providing valuable insights into primate evolution, behavior, and
41 cognition.
42
```

```
source > conf.py > ...
1 # Configuration file for the Sphinx documentation builder.
2
3 # -- Project information -----
4
5 project = 'sphinx-start'
6 copyright = '2025, tarassiky'
7 author = 'tarassiky'
8 release = '1'
9
10
11 templates_path = ['_templates']
12 html_static_path = ['_static']
13 exclude_patterns = []
14 |
15 # -- Options for HTML output -----
16 html_theme = 'alabaster'
17 html_show_sourcelink = False
18
```

В этом файле содержится информация о проекте, конфигурации путей и изменяемом стиле документации.

3/ Сборка проекта.

Сначала собираем html файл

```
~/workspace$ make html
Running Sphinx v8.2.3
loading translations [en]... done
loading pickled environment... done
building [mo]: targets for 0 po files that are out of date
writing output...
building [html]: targets for 0 source files that are out of date
updating environment: 0 added, 1 changed, 0 removed
reading sources... [100%] index
looking for now-outdated files... none found
pickling environment... done
checking consistency... done
preparing documents... done
copying assets...
copying static files...
Writing evaluated template result to /home/runner/workspace/build/html/_static/basic.css
Writing evaluated template result to /home/runner/workspace/build/html/_static/documentation_options.js
Writing evaluated template result to /home/runner/workspace/build/html/_static/language_data.js
Writing evaluated template result to /home/runner/workspace/build/html/_static/alabaster.css
copying static files: done
copying extra files...
copying extra files: done
copying assets: done
writing output... [100%] index
generating indices... genindex done
writing additional pages... search done
copying images... [100%] _static/snow-monkey.jpg
dumping search index in English (code: en)... done
dumping object inventory... done
build succeeded.

The HTML pages are in build/html.
```

Сборка завершена и все успешно работает

Запуск:

```
~/workspace$ python3 -m http.server 8000 --directory build/html/
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
172.31.128.20 - - [26/May/2025 06:21:45] "GET / HTTP/1.1" 200 -
172.31.128.20 - - [26/May/2025 06:21:46] "GET / HTTP/1.1" 304 -
172.31.128.20 - - [26/May/2025 06:21:46] "GET /_static/basic.css?v=b08954a9 HTTP/1.1" 200 -
172.31.128.20 - - [26/May/2025 06:21:46] "GET /_static/pygments.css?v=5ecbeea2 HTTP/1.1" 200 -
172.31.128.20 - - [26/May/2025 06:21:46] "GET /_static/alabaster.css?v=27fed22d HTTP/1.1" 200 -
172.31.128.20 - - [26/May/2025 06:21:47] "GET /_static/pygments.css?v=5ecbeea2 HTTP/1.1" 304 -
172.31.128.20 - - [26/May/2025 06:21:47] "GET /_static/alabaster.css?v=27fed22d HTTP/1.1" 304 -
172.31.128.20 - - [26/May/2025 06:21:47] "GET /_static/custom.css HTTP/1.1" 200 -
172.31.128.20 - - [26/May/2025 06:21:47] "GET /_static/documentation_options.js?v=29a6c3e3 HTTP/1.1" 200 -
172.31.128.20 - - [26/May/2025 06:21:47] "GET /_static/basic.css?v=b08954a9 HTTP/1.1" 304 -
172.31.128.20 - - [26/May/2025 06:21:47] "GET /_static/doctools.js?v=9bcbadda HTTP/1.1" 200 -
172.31.128.20 - - [26/May/2025 06:21:47] "GET /_static/sphinx_highlight.js?v=dc90522c HTTP/1.1" 200 -
172.31.128.20 - - [26/May/2025 06:21:47] "GET /_static/custom.css HTTP/1.1" 304 -
172.31.128.20 - - [26/May/2025 06:21:47] "GET /_static/documentation_options.js?v=29a6c3e3 HTTP/1.1" 304 -
172.31.128.20 - - [26/May/2025 06:21:47] "GET /_static/doctools.js?v=9bcbadda HTTP/1.1" 304 -
172.31.128.20 - - [26/May/2025 06:21:47] "GET /_static/sphinx_highlight.js?v=dc90522c HTTP/1.1" 304 -
172.31.128.20 - - [26/May/2025 06:21:47] "GET /_images/monkey-logo.png HTTP/1.1" 200 -
172.31.128.20 - - [26/May/2025 06:21:47] "GET /_images/snow-monkey.jpg HTTP/1.1" 200 -
172.31.128.20 - - [26/May/2025 06:21:48] "GET /_images/monkey-logo.png HTTP/1.1" 304 -
172.31.128.20 - - [26/May/2025 06:21:48] "GET /_images/snow-monkey.jpg HTTP/1.1" 304 -
```

4/ Результат:

sv:8000/


world? [Deploy](#)

sphinx-start

Search [Go](#)

Navigation

Monkeys: Marvels of the Primate World



History and Evolution


Monkeys are a diverse group of primates, encompassing a wide range of species across the globe. Evolving over millions of years, they have adapted to various environments and lifestyles. Monkeys belong to one of two groups: New World monkeys (found in the Americas) and Old World monkeys (found in Africa and Asia).

Key Evolutionary Traits:

- **Prehensile Tails (New World Monkeys):** Many New World species boast prehensile tails, used as a fifth limb for gripping branches.
- **Opposable Thumbs:** Essential for tool use and manipulation of objects.
- **Complex Social Structures:** Many monkey species live in complex social groups with intricate hierarchies.
- **Advanced Cognitive Abilities:** Monkeys exhibit remarkable intelligence, problem-solving skills, and learning capabilities.
- **Arboreal Lifestyle:** Most species live in forests and are specially adapted for climbing in trees.

Modern Monkey Diversity

Today, monkeys occupy a wide variety of habitats, from tropical rainforests to savannahs and even mountainous regions. They display diverse behaviors and adaptations, reflecting their evolutionary success.



Ссылка на борд: <https://replit.com/@tarasovadasha5/PoshDisastrousPerformance>