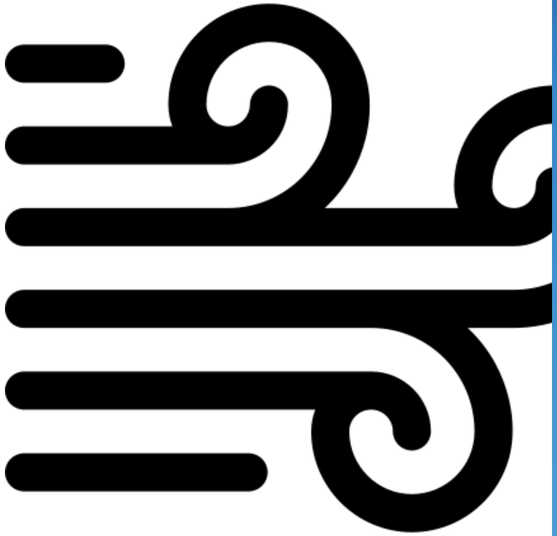
바람

바람



BARAM

넥스트폼 사업개발팀

김동규

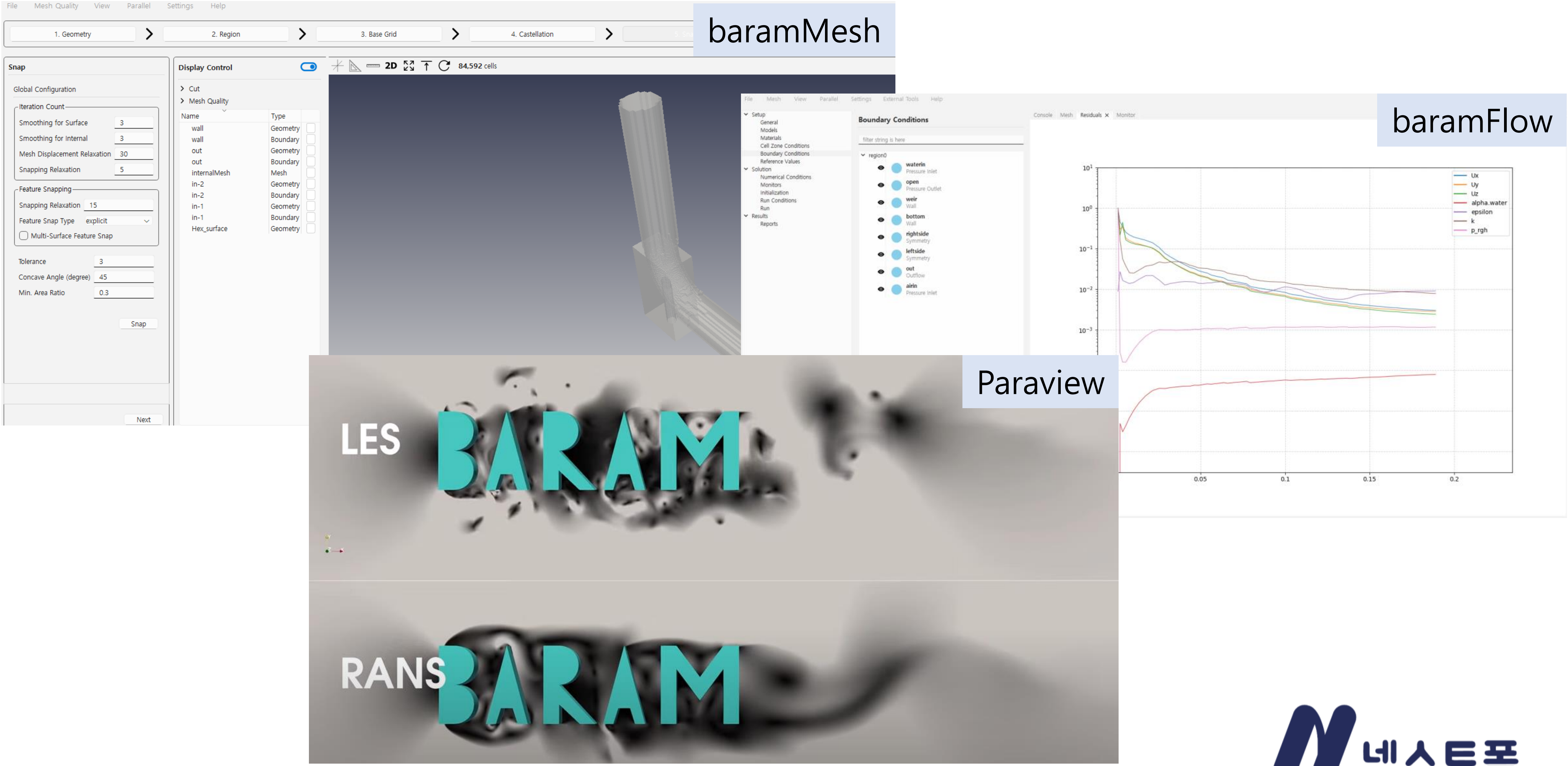
BARAM 과거, 현재

1. BARAM 소개
2. 캐치프라이즈 혹은 슬로건
3. BARAM 돌풍에 대하여... (실적)

BARAM 미래

1. 앞으로 방향은?

BARAM은 무엇인가?



baramMesh

Snap

Global Configuration

Iteration Count

Smoothing for Surface 3

Smoothing for Internal 3

Mesh Displacement Relaxation 30

Snapping Relaxation 5

Feature Snapping

Snapping Relaxation 15

Feature Snap Type explicit

☐ Multi-Surface Feature Snap

Tolerance 3

Concave Angle (degree) 45

Min. Area Ratio 0.3

Display Control

Name	Type
wall	Geometry
wall	Boundary
out	Geometry
out	Boundary
internalMesh	Mesh
in-2	Geometry
in-2	Boundary
in-1	Geometry
in-1	Boundary
Hex_surface	Geometry

84,592 cells

baramFlow

Boundary Conditions

region0

waterin Pressure Inlet

open Pressure Outlet

weir Wall

bottom Wall

rightside Symmetry

leftside Symmetry

out Outflow

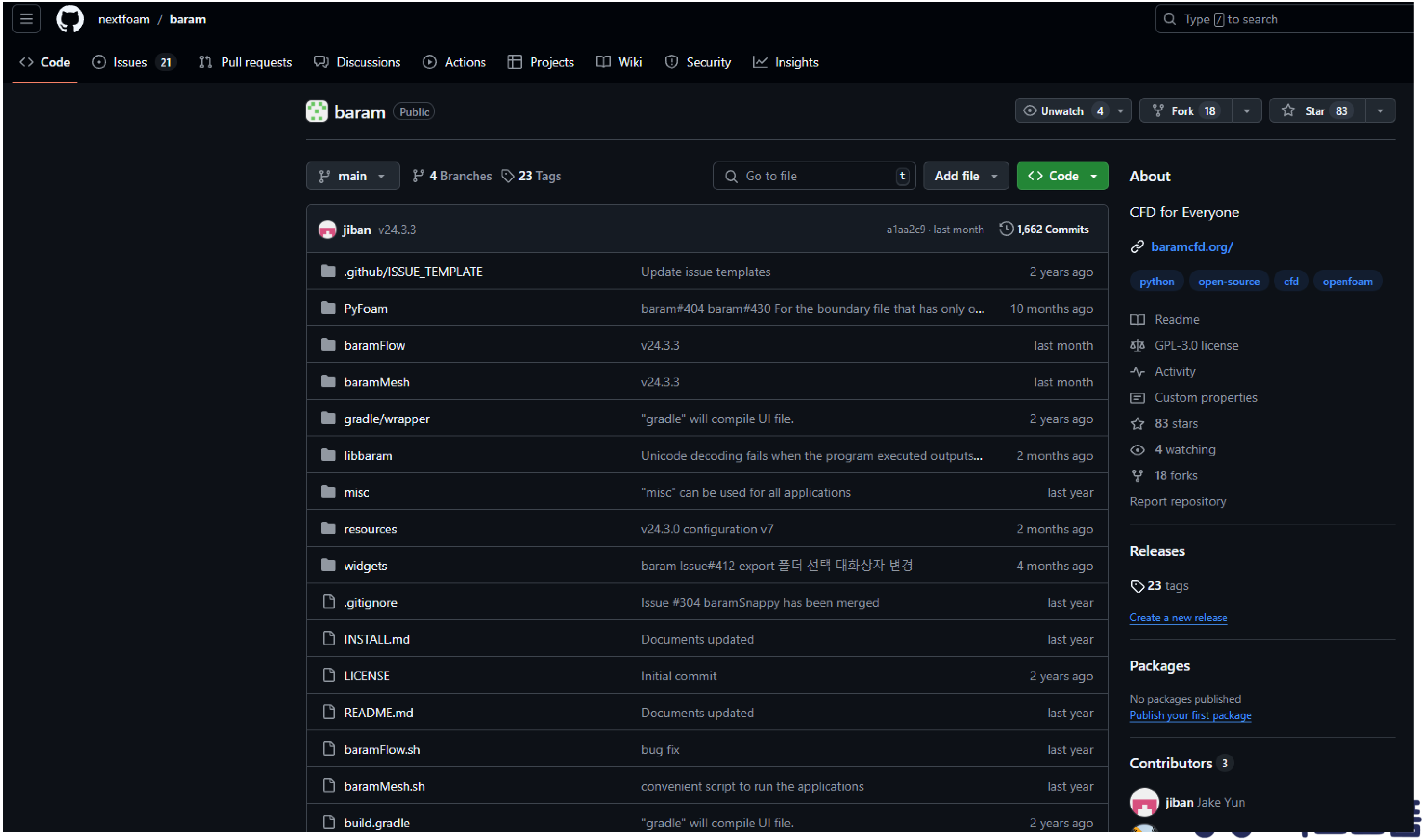
airin Pressure Inlet

Paraview

File
Mesh Quality
View
Parallel
Settings
Help
1. Geometry
2. Region
3. Base Grid
4. Castellation
Snap
Next
Cut
Mesh Quality
2D
Mesh
External Tools
Setup
General
Models
Materials
Cell Zone Conditions
Boundary Conditions
Reference Values
Solution
Numerical Conditions
Monitors
Initialization
Run Conditions
Run
Results
Reports
filter string is here
Console
Mesh
Residuals
Monitor
10^1
10^0
10^{-1}
10^{-2}
10^{-3}
0.05
0.1
0.15
0.2
Ux
Uy
Uz
alpha.water
epsilon
k
p_rgh
LES
BARAM
RANS
BARAM

넥스트폼

https://github.com/nextfoam/baram



nextfoam / baram
Type / to search
Code
Issues 21
Pull requests
Discussions
Actions
Projects
Wiki
Security
Insights
Unwatch 4
Fork 18
Star 83
main
4 Branches
23 Tags
Go to file
Add file
Code

baram Public

jiban v24.3.3 a1aa2c9 · last month 1,662 Commits

.github/ISSUE_TEMPLATE	Update issue templates	2 years ago
PyFoam	baram#404 baram#430 For the boundary file that has only o...	10 months ago
baramFlow	v24.3.3	last month
baramMesh	v24.3.3	last month
gradle/wrapper	"gradle" will compile UI file.	2 years ago
libbaram	Unicode decoding fails when the program executed outputs...	2 months ago
misc	"misc" can be used for all applications	last year
resources	v24.3.0 configuration v7	2 months ago
widgets	baram Issue#412 export 폴더 선택 대화상자 변경	4 months ago
.gitignore	Issue #304 baramSnappy has been merged	last year
INSTALL.md	Documents updated	last year
LICENSE	Initial commit	2 years ago
README.md	Documents updated	last year
baramFlow.sh	bug fix	last year
baramMesh.sh	convenient script to run the applications	last year
build.gradle	"gradle" will compile UI file.	2 years ago

About

CFD for Everyone

baramcfd.org/

python open-source cfd openfoam

Readme
GPL-3.0 license
Activity
Custom properties
83 stars
4 watching
18 forks
Report repository

Releases

23 tags

Create a new release

Packages

No packages published
Publish your first package

Contributors 3

jiban Jake Yun

About

CFD for Everyone

baramcfd.org/

CFD

CFD for Everyone and Everywhere!!

For Everyone!!

CPU, 유저 수 ,
사용 시간
제한 없이

소스코드 공개

기능 제한 없이

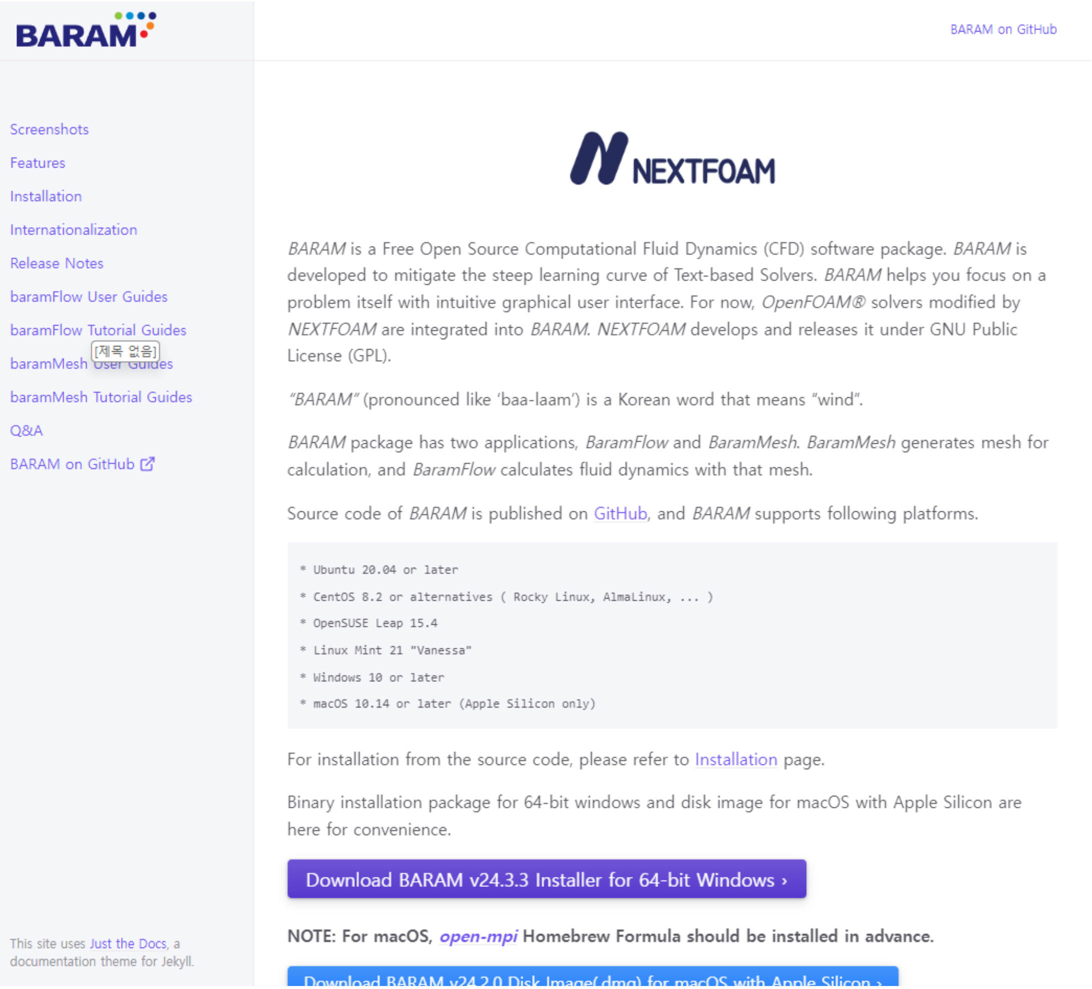
For Everywhere!!

Cloud로
어디서든 사용

SNS, Youtube,
Github를 통해
어디서나 정보
획득 가능

어디서든
BARAM Page
접속

넥스트폼


BARAM
BARAM on GitHub
Screenshots
Features
Installation
Internationalization
Release Notes
baramFlow User Guides
baramFlow Tutorial Guides
baramMesh User Guides
[제목 없음]
baramMesh Tutorial Guides
Q&A
BARAM on GitHub
NEXTFOAM
This site uses Just the Docs, a documentation theme for Jekyll.

BARAM is a Free Open Source Computational Fluid Dynamics (CFD) software package. *BARAM* is developed to mitigate the steep learning curve of Text-based Solvers. *BARAM* helps you focus on a problem itself with intuitive graphical user interface. For now, *OpenFOAM®* solvers modified by *NEXTFOAM* are integrated into *BARAM*. *NEXTFOAM* develops and releases it under GNU Public License (GPL).

"BARAM" (pronounced like 'baa-laam') is a Korean word that means "wind".

BARAM package has two applications, *BaramFlow* and *BaramMesh*. *BaramMesh* generates mesh for calculation, and *BaramFlow* calculates fluid dynamics with that mesh.

Source code of *BARAM* is published on GitHub, and *BARAM* supports following platforms.

```
* Ubuntu 20.04 or later
* CentOS 8.2 or alternatives ( Rocky Linux, AlmaLinux, ... )
* OpenSUSE Leap 15.4
* Linux Mint 21 "Vanessa"
* Windows 10 or later
* macOS 10.14 or later (Apple Silicon only)
```

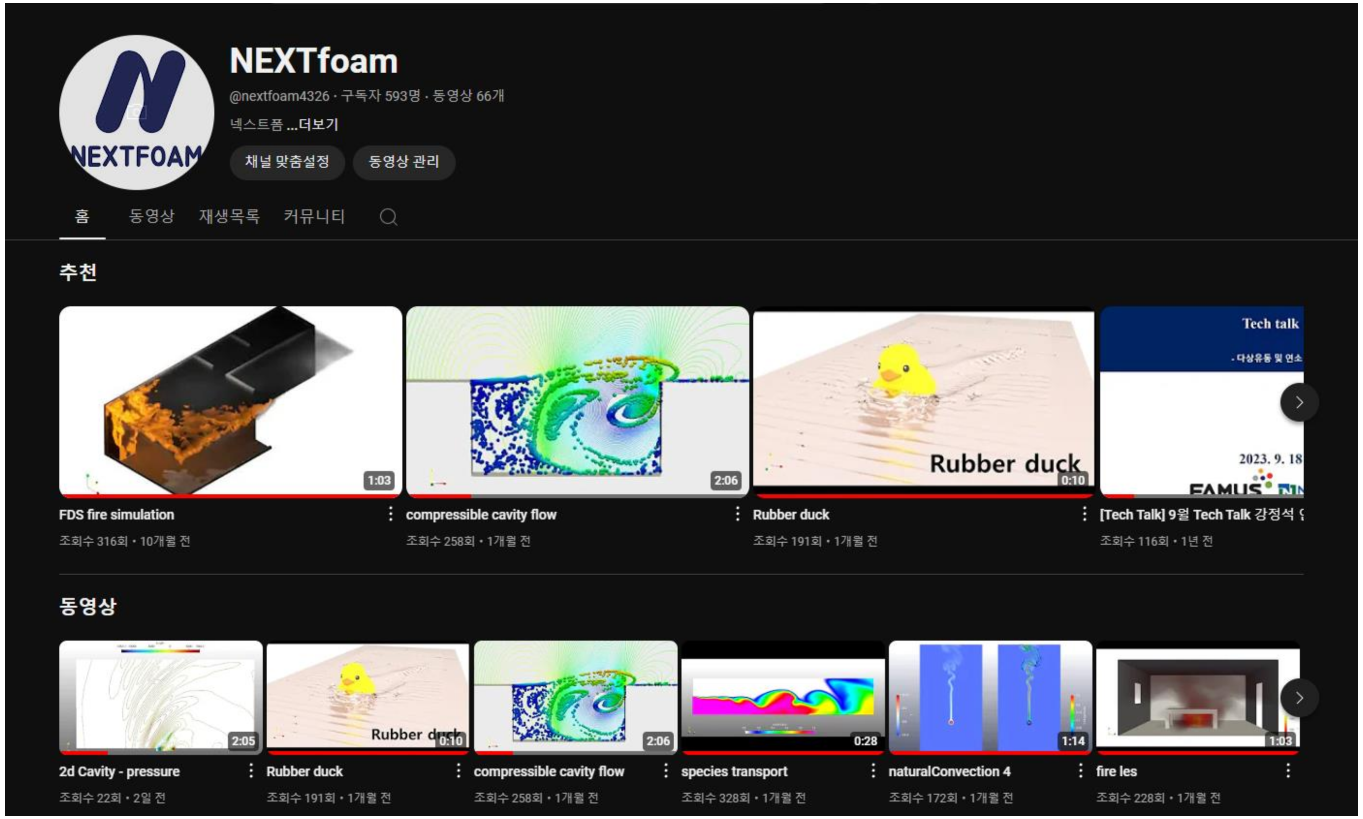
For installation from the source code, please refer to Installation page.

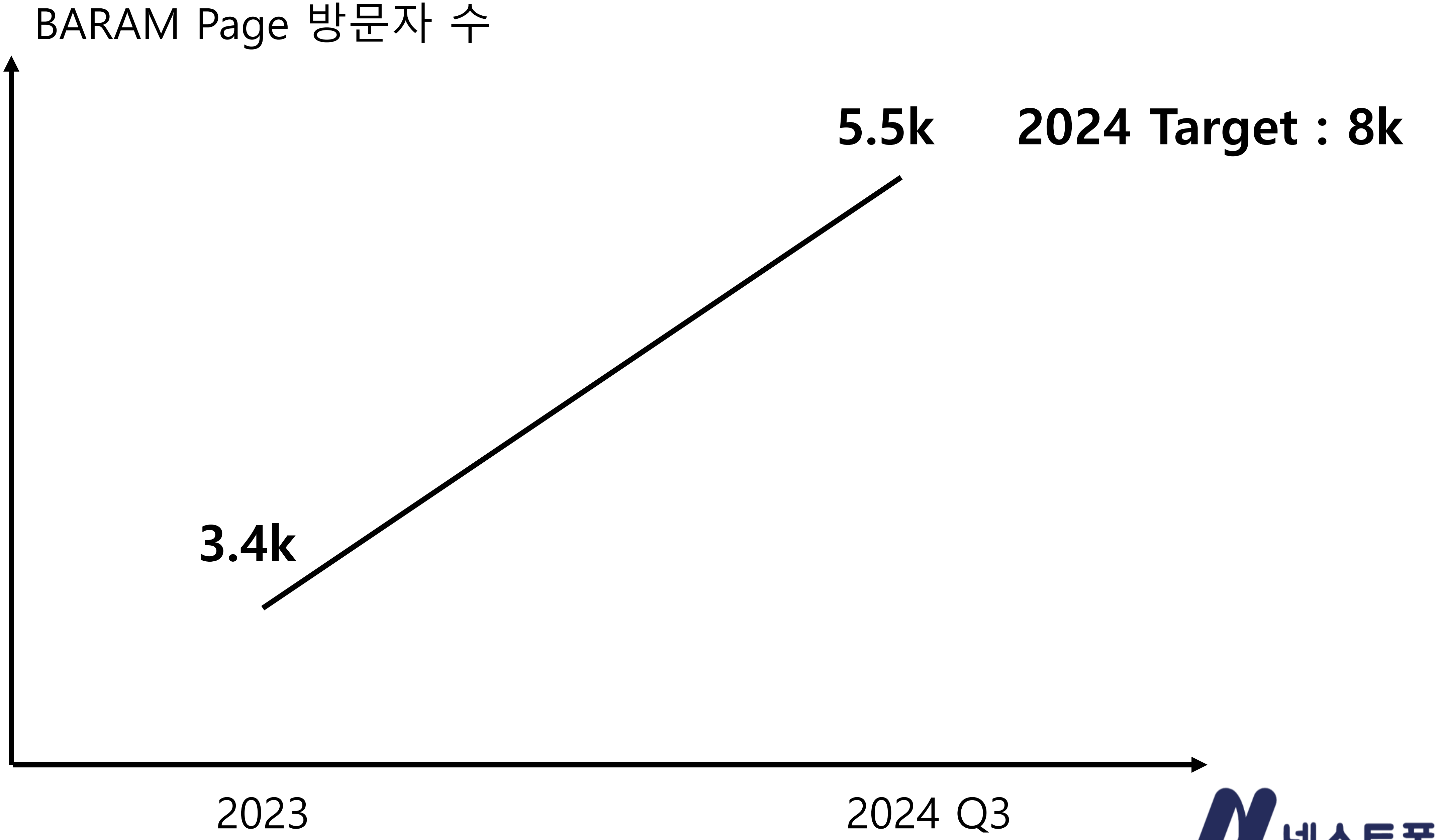
Binary installation package for 64-bit windows and disk image for macOS with Apple Silicon are here for convenience.

Download BARAM v24.3.3 Installer for 64-bit Windows ›

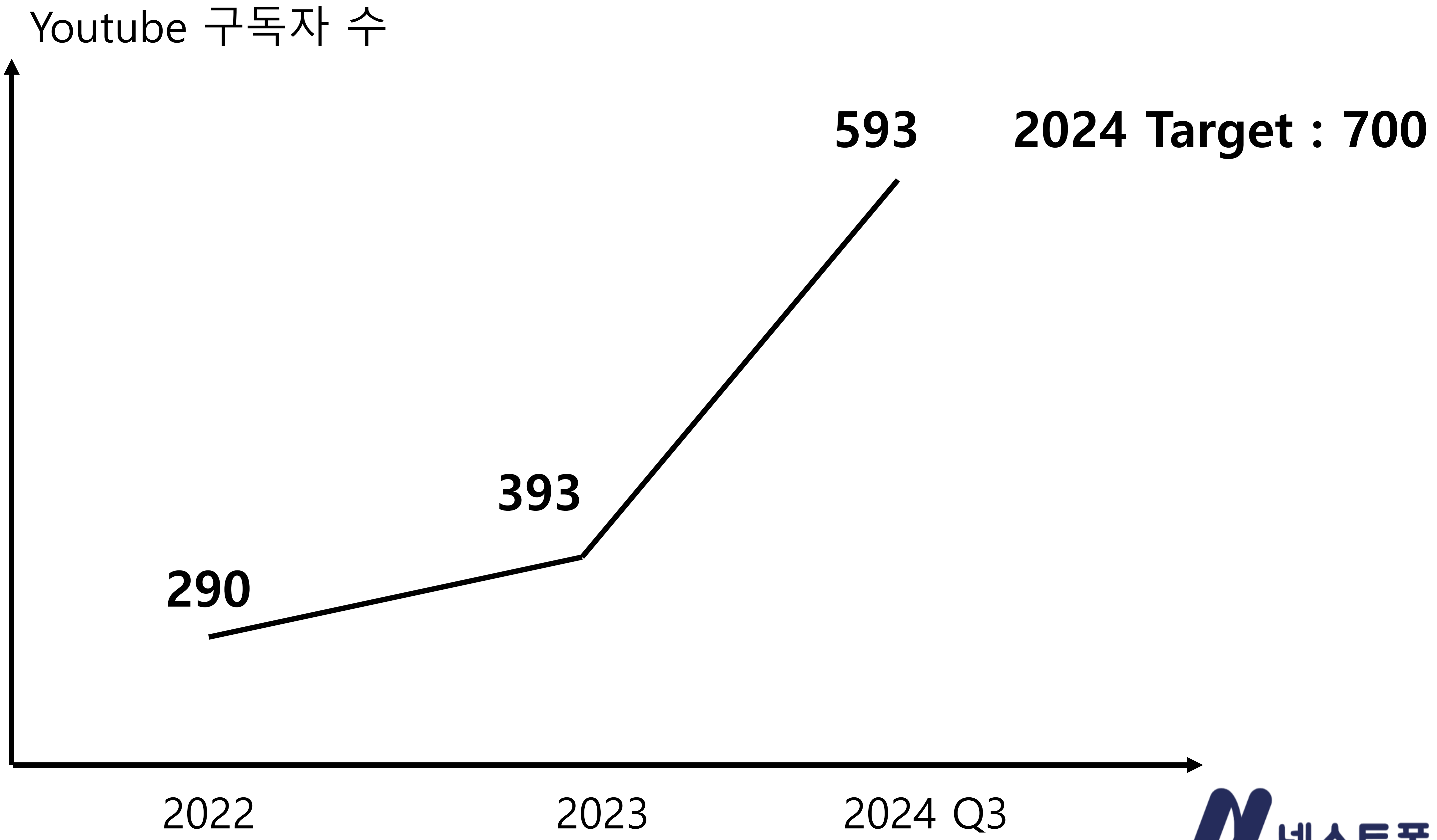
NOTE: For macOS, *open-mpi* Homebrew Formula should be installed in advance.

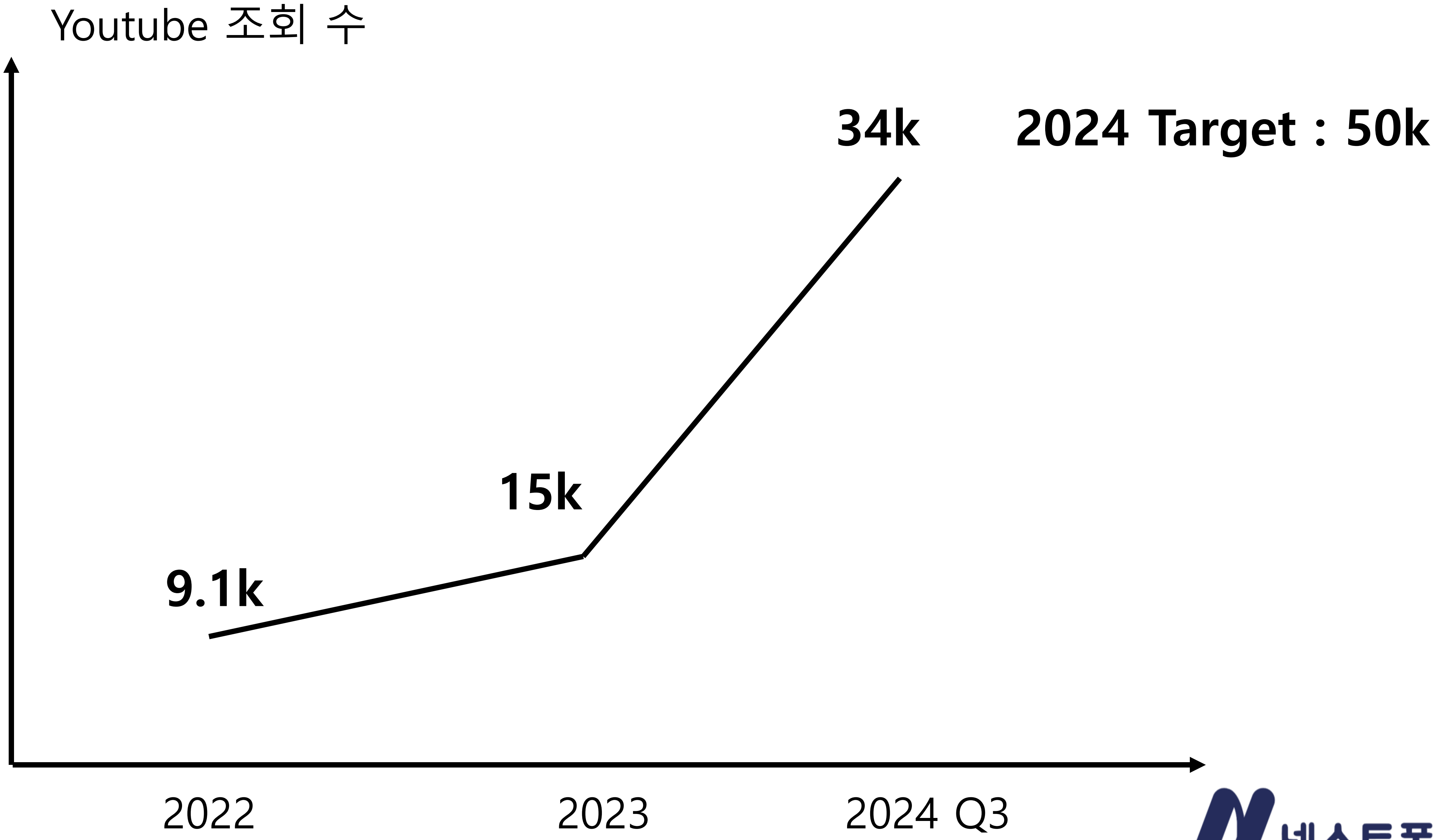
Download BARAM v24.2.0 Disk Image(.dmg) for macOS with Apple Silicon ›


NEXTFOAM
NEXTfoam
@nextfoam4326 · 구독자 593명 · 동영상 66개
넥스트폼 ...더보기
채널 맞춤설정
동영상 관리
홈
동영상
재생목록
커뮤니티
추천
1:03
FDS fire simulation
조회수 316회 • 10개월 전
2:06
compressible cavity flow
조회수 258회 • 1개월 전
Rubber duck
0:10
Rubber duck
조회수 191회 • 1개월 전
Tech talk
2023. 9. 18
[Tech Talk] 9월 Tech Talk 강정석
조회수 116회 • 1년 전
동영상
2:05
2d Cavity - pressure
조회수 22회 • 2일 전
0:10
Rubber duck
조회수 191회 • 1개월 전
2:06
compressible cavity flow
조회수 258회 • 1개월 전
0:28
species transport
조회수 328회 • 1개월 전
1:14
naturalConvection 4
조회수 172회 • 1개월 전
1:03
fire les
조회수 228회 • 1개월 전



넥스트폼


Youtube 구독자 수
593
2024 Target : 700
393
290
2022
2023
2024 Q3



넥스트폼

타 기관 Youtube 조회 수 및 구독자 수

	구독자 수	조회 수
A사	1.3k	1.4k (Avg.)
B사	1.8k	2.4k (Avg.)

넥스트폼

앞으로는 어떻게 할거냐?

앞으로는 어떻게 할거냐?

프로그램 개발

전략

접근성

프로그램 개발

Overset Mesh

DPM

Dynamic Mesh

Radiation Model

Built-in Post-Processing

Job Scheduler

Pressure-based Compressible solver

넥스트폼

전략

FACE

FACE

Fast

빠른 CFD

FACE

Fast

빠른 CFD

Accurate

정확한 CFD

FACE

Fast

빠른 CFD

Accurate

정확한 CFD

Chic

세련된 CFD

FACE

Fast

빠른 CFD

Accurate

정확한 CFD

Chic

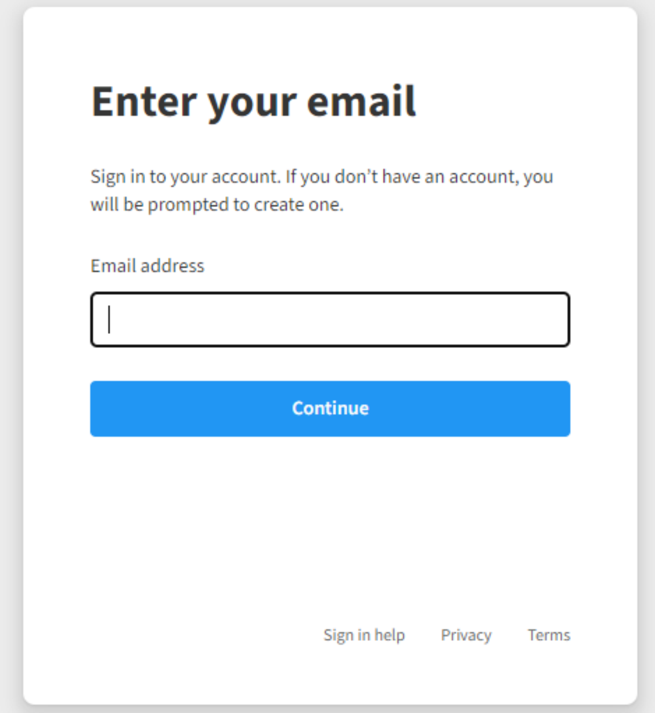
세련된 CFD

Easy

쉽고 간단한 CFD

넥스트폼

접근성



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접근성

CFD 샌드박스

CFD 샌드박스

구상 중...

CFD 샌드박스

쉽게 시작할 수 있는 CFD

사용자 요구에 맞는 CFD

다양한 CFD

넥스트폼

Q&A

넥스트폼