

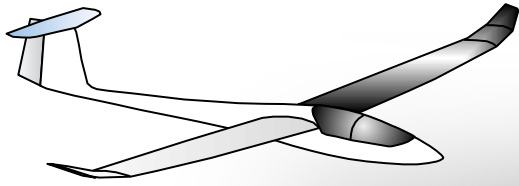


An introduction

Note: The video captions have been edited and are available for all of flow5's tutorial videos

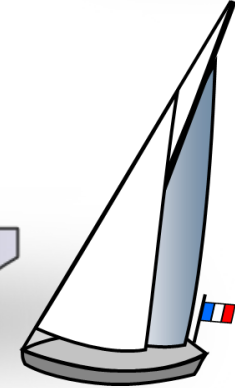
1. What is flow5

flow5



xflr5

sail7



Code refactoring





flow5



New features

2. Main new features

- New GUI
- Analysis of planes with fuselages
- 3d triangular panel Galerkin method of uniform and linear order
- Fast matrix solver with  + generalized multithreading
- Coupling with C.A.D. models using the  libraries
- Control polars, including a non-linear viscous loop for panel methods
- Scripting
- 2d Differential IBL solver – still experimental

3. Further development

- No further development of either xflr5 and sail7, except to ensure compatibility with flow5
 - Long list of things to implement
 - Analysis of plane and wing geometries imported from external CAD
 - Implementation of a simplified wake roll-up method
 - Improvement of the evaluation of 3d viscous drag; the long-term goal is a 3d IBL
 - Writing a help documentation and a theory manual
- ⇒ Check out the development plans on the web site

4. Support the development

Other reasons to subscribe to flow5

- To support the development which requires steadily increasing work and time
- To show your appreciation for the work done so far with xflr5 and sail7

Support

flow5

<https://flow5.tech>