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General Mission Analysis Tool (GMAT) is [open-source](#) space mission analysis software developed by [NASA](#) and private industry.^[2]


It has been used for several missions, including [LCROSS](#), the [Lunar Reconnaissance Orbiter](#), [OSIRIS-REx](#), the [Magnetospheric Multiscale Mission](#), and the [Transiting Exoplanet Survey Satellite](#) (TESS) mission.^{[2][3]}

GMAT is an open-source alternative to software like [Systems Tool Kit](#) and [FreeFlyer](#).


References

[[edit](#)]


1.




[^] Hughes, Steven P.; Conway, Darrel J.; Parker, Joel (2017). *Using the General Mission Analysis Tool (GMAT)*  (PDF). AAS Guidance and Control Conference.

2.

[^] ^{*a*} ^{*b*} Hughes, Steven P.; Qureshi, Rizwan H.; Cooley, Steven D.; Parker, Joel J. (2014). *Verification and Validation of the General Mission Analysis Tool (GMAT)*  (PDF). AIAA/AAS Astrodynamics Specialist Conference.



3.

[^] "GMAT Wiki - Overview" . 5 January 2022. Retrieved 5 January 2022.

General Mission Analysis Tool	
Initial release	2007 ^[1]
Stable release	R2022a / January 2023; 1 year ago
Repository	sourceforge.net/projects/gmat/files/GMAT/  
Written in	C++
Operating system	Microsoft Windows, Linux, macOS
Type	Technical computing
License	Apache License 2.0
Website	GMAT Wiki 

External links

[[edit](#)]

- [GMAT Wiki](#) 
- [GMAT Download](#)  (SourceForge)
- [GMAT channel on YouTube](#) 