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ARTICLE

Creating an open community to support reusable and reproducible aviation science

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Abstract

Testing abstract Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Keywords: Aviation; reproducibility; transparency; data; software; re-science

Abbreviations: ATM: Air Traffic Managment, ADS-B: Automatic Dependent Surveillance-Broadcast

1. Introduction

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2. Method

Callsigns are nice in tt mode AFR88HH and $\rho = 1$ inline

Paragraph title Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

2.1 Method 1

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.



Figure 1. JOAS Logo

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in

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2.2 Method 2

2.2.1 Method 2-1

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

$$E = mc^2 (1)$$

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Parameter	Notation	Remarks
name	-	engine common identifier
manufacture	-	-
bpr	λ	bypass ratio
pr	-	pressure ratio
max_thrust	T_0	maximum static thrust, sea level (unit: N)
fuel_c3	C_{ff3}	fuel flow coefficient, 3rd order term (unit: kg/s)
fuel_c2	$C_{ m ff2}$	fuel flow coefficient, 2nd order term (unit: kg/s)
fuel_c1	$C_{ m ff1}$	fuel flow coefficient, 1st order term (unit: kg/s)
cruise_thrust	$T_{\rm cr}$	thrust at the top of climb (unit: N)
cruise_mach	$M_{\rm cr}$	cruise Mach number for the thrust condition
_cruise_alt	$h_{\rm cr}$	cruise Mach altitude for the thrust condition (unit: ft)

Table 1. Engine performance parameters

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

¹This is how a footnote works.

3. Conclusion

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

This is the second paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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Authors contributions

Junzi Sun: Conceptualization, Methodology, Software, Writing- Original draft

Xavier Olive: Data curation, Writing- Original draft Martin Strohmeier: Visualization, Investigation

Acknowledgement

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References

- [1] Xavier Olive. "Traffic, a toolbox for processing and analysing air traffic data". In: Journal of Open Source Software 4.39 (2019), pp. 1518–1. DOI: 10.21105/joss.01518.
- [2] Matthias Schäfer, Martin Strohmeier, Vincent Lenders, Ivan Martinovic, and Matthias Wilhelm. "Bringing up OpenSky: A large-scale ADS-B sensor network for research". In: *IPSN-14 Proceedings of the 13th International Symposium on Information Processing in Sensor Networks.* IEEE. 2014, pp. 83–94.
- [3] Junzi Sun, Jacco M Hoekstra, and Joost Ellerbroek. "OpenAP: An open-source aircraft performance model for air transportation studies and simulations". In: *Aerospace* 7.8 (2020), p. 104.

Appendix 1. Supplementary figures

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Appendix 2. Supplementary data tables

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Open data statement

DOI and short description to supplementary data.

Reproducibility statement

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171

172