

# Interaktivna 3D grafika u PDF-u

Davor Stojanović



# Sadržaj

- Uvod
- 3D opcije
- CAD → 3D PDF
- Asymptote
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# Uvod

- interakcija s 3D objektima
- Adobe Reader (9+)
- 2 načina:
  - CAD → 3D PDF
  - programski jezik Asymptote

# 3D opcije

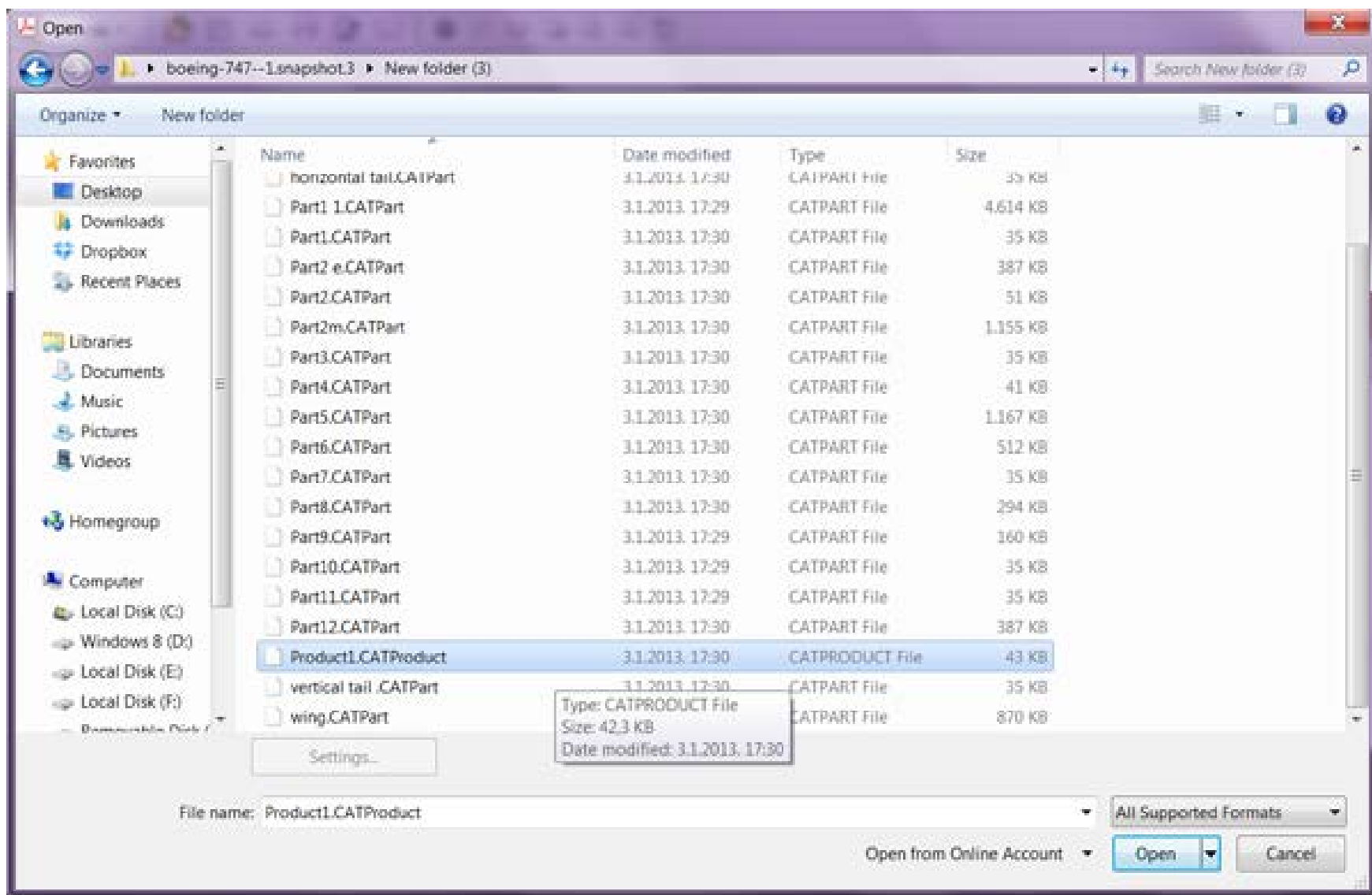


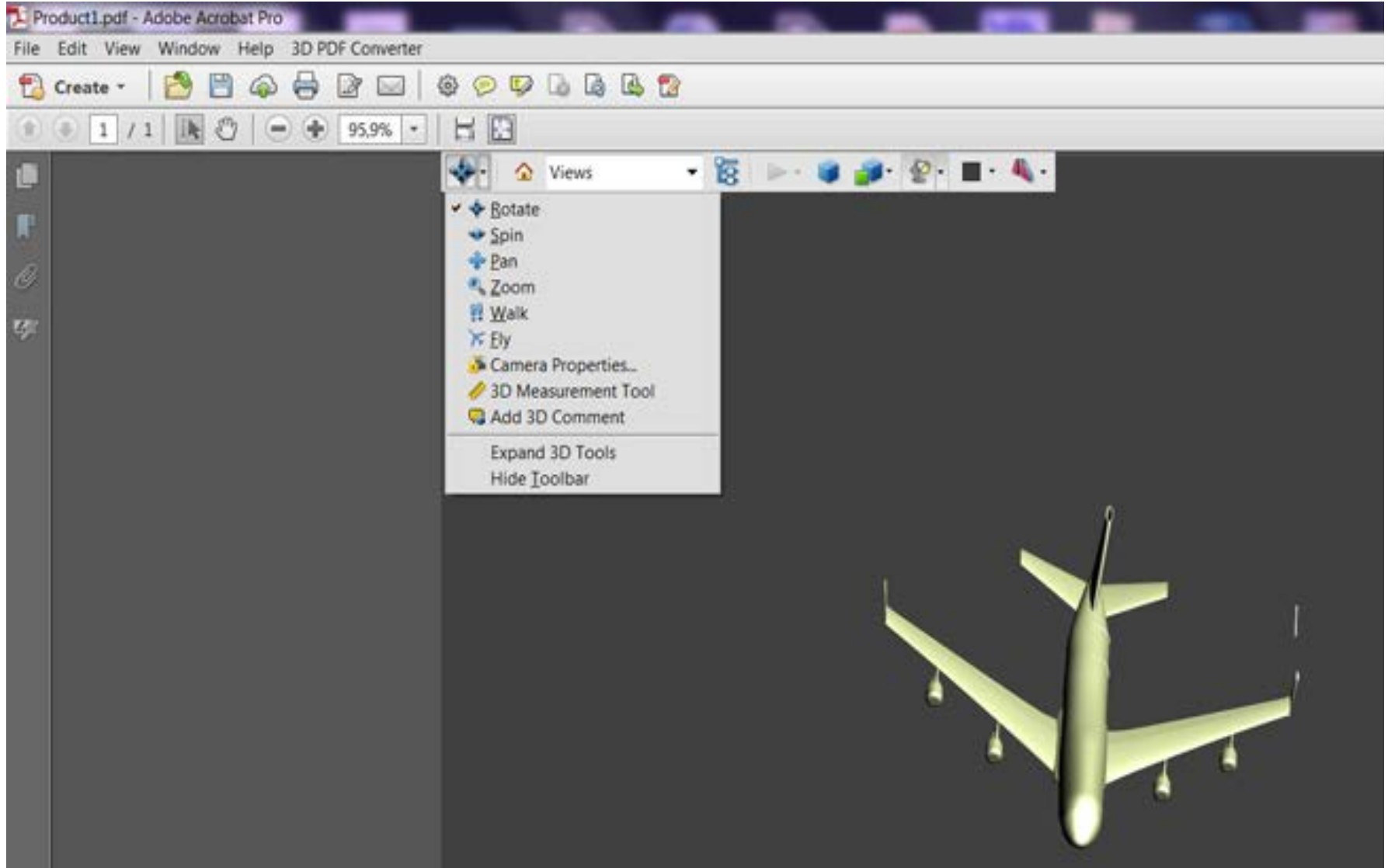
- Rotiraj, Okreni, Panorama, Zumiraj, Let, Svojstva kamere, Zadani prikaz
- Pogled, Stablo modela, Reproduciraj, Projekcija, Vizualizacija modela, Osvjetljenje, Boja pozadine

# CAD → 3D PDF

- brojni alati
  - Anark Core
  - PDFcreator
  - Tech Soft 3D
  - **Tetra4D**
- Adobe Acrobat 11 plugin







# Asymptote 1/2

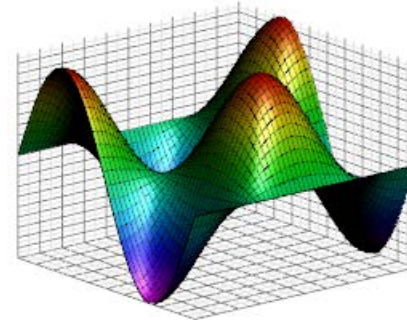
- vektorski grafički jezik
- temelji se na MetaPostu
- sintaksa slična C++ sintaksi
  
- kompatibilan s Latexom → znanstvene svrhe
- generiranje 3D objekata u PDF obliku





# Asymptote 2/2

- formule
- jednostavni oblici (kugla, valjak, kocka)
- 3D grafovi
- složeniji oblici
- animacije



# Literatura

- **Asymptote (službene stranice):**  
<http://asymptote.sourceforge.net/>
- **Konfiguracija Asymptote-a za 3D PDF:**  
[http://www.artofproblemsolving.com/Wiki/index.php/Asymptote:\\_Advanced\\_Configuration](http://www.artofproblemsolving.com/Wiki/index.php/Asymptote:_Advanced_Configuration)
- **Asymptote – članak:**  
<http://www.math.ualberta.ca/~bowman/publications/asymTUG3.pdf>
- **3D opcije:**  
[http://help.adobe.com/hr\\_HR/acrobat/pro/using/WS58a04a822e3e50102bd615109794195ff-7bfc.w.html](http://help.adobe.com/hr_HR/acrobat/pro/using/WS58a04a822e3e50102bd615109794195ff-7bfc.w.html)
- **3D opcije – video:**  
<http://www.youtube.com/watch?v=K0FMszwnXc4>