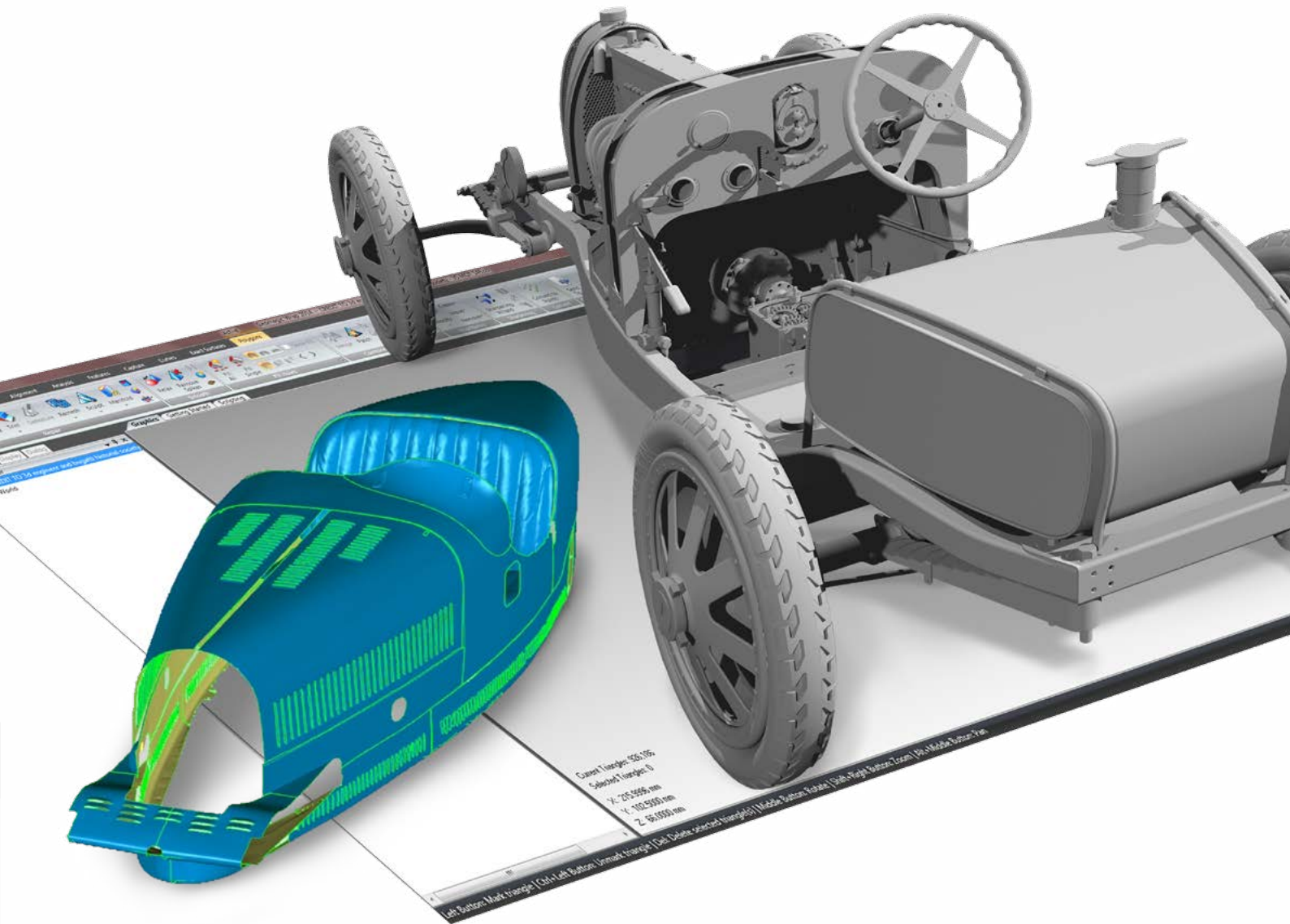


# Geomagic Wrap<sup>®</sup>

Scan It, Mesh It, Surface It.  
In minutes.





# Geomagic Wrap<sup>®</sup>

**Geomagic Wrap<sup>®</sup>** delivers the industry's most powerful toolbox to transform 3D scan data and imported files into 3D models for immediate use downstream. From engineering to entertainment, art to archaeology and manufacturing to museums, people from every walk of life are effortlessly reverse engineering perfect 3D models from scan data and 3D files using Geomagic Wrap.

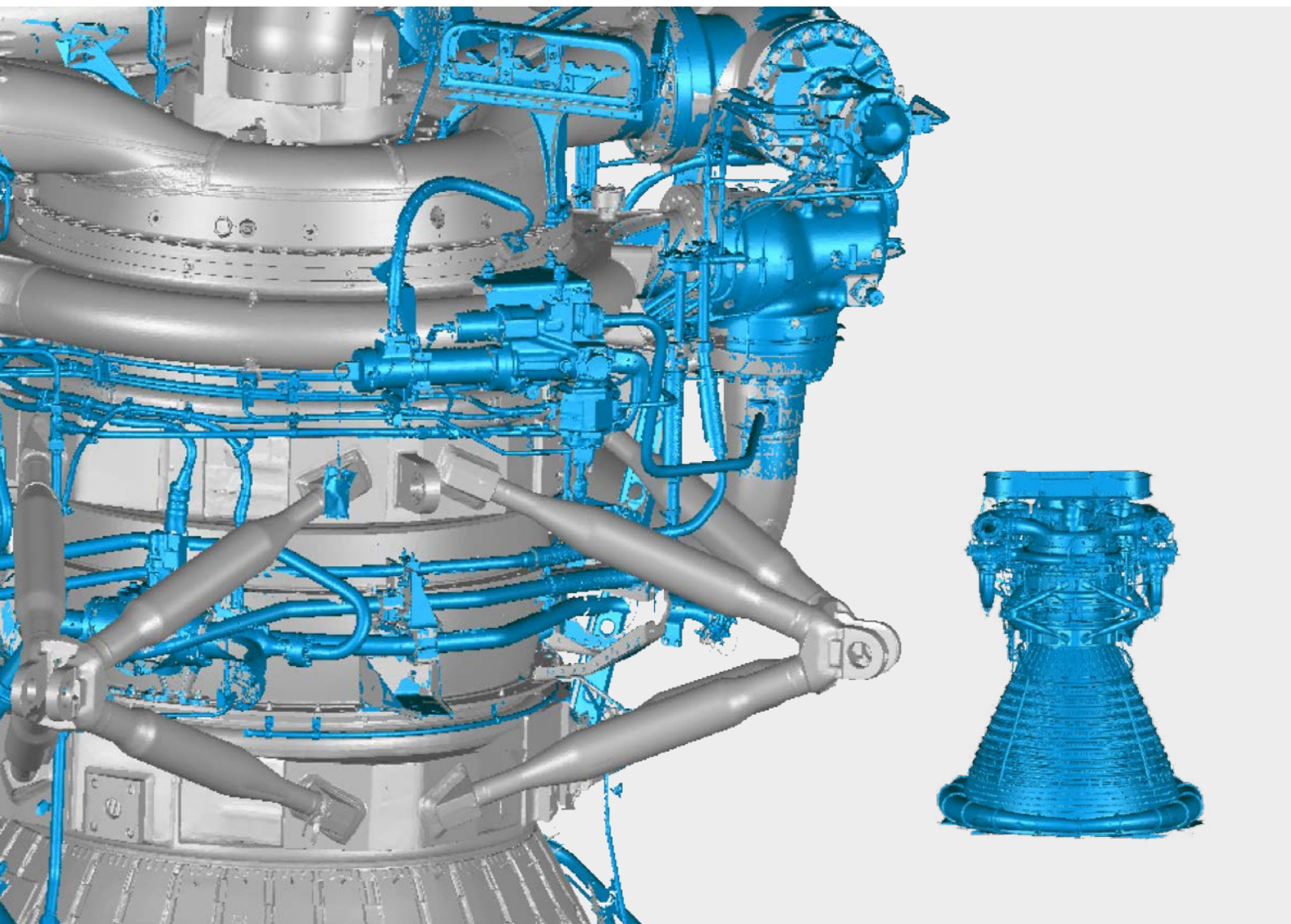
## Revolutionize Your 3D Workflows

Geomagic Wrap delivers the most easy-to-use, affordable, fast, accurate path from point clouds to 3D polygonal and surface models that can be used instantly in downstream engineering, manufacturing, engineering, art, industrial design and more. As part of your 3D digital thread, Geomagic Wrap provides the digital bridge to allow you to create perfect data to use directly in 3D printing, milling, archiving and multiple other 3D uses.

With Geomagic's advanced Exact Surfacing tools included Geomagic Wrap delivers power yet ease-of-use in cutting-edge modeling functions for that flawless 3D model. Scripting and macros available also automate functions for repetitive tasks during the reverse engineering process.

## Accurately and Effortlessly Build Usable 3D Data

Geomagic Wrap enables users to transform point cloud data, probe data and intermingle imported 3D formats (STL, OBJ, etc.) into 3D polygon meshes and surface models for immediate use. Unique automated tools for rapid point cloud cleanup and surfacing allow you to perform complex tasks quickly and with confidence. Color data from 3D scans can be edited and managed, edited and saved as texture maps for your color 3D prints.



# Introducing Geomagic Wrap<sup>®</sup> 2017

Scan It. Mesh It. Surface It. In minutes.

## Geomagic Wrap<sup>®</sup>

Geomagic Wrap 2017 delivers a seamless 3D scan-to-model workflow that continues to evolve, and lead the market as the originator of modern 3D scan processing. From expanded file format support to manipulating texture maps to bring your printed parts to life, the 3D scan data toolbox of Geomagic Wrap has never been more powerful!

### Improved Workflow Productivity

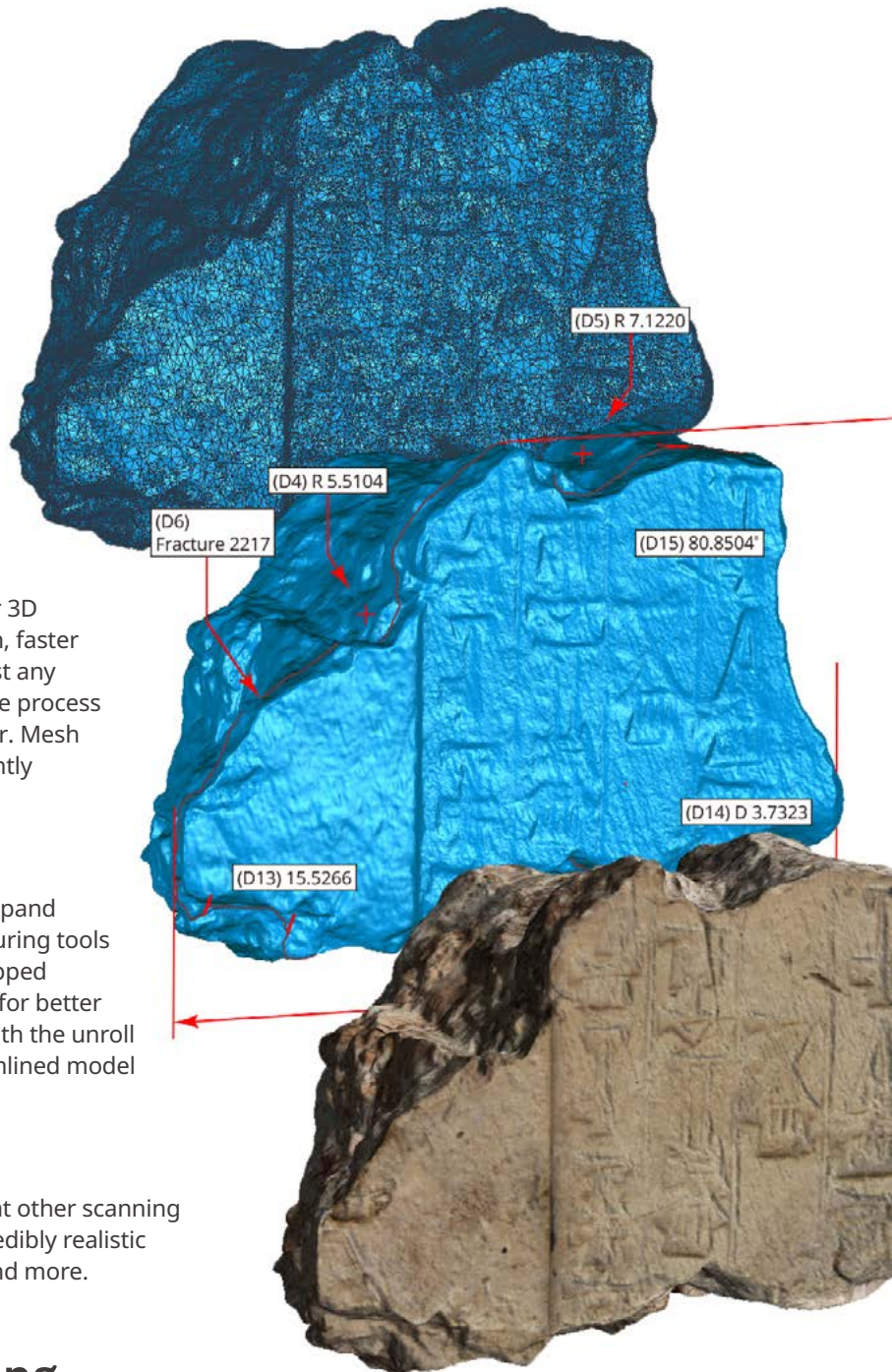
Upgraded file I/O introduces support for common color 3D printing formats, high quality texture layer preservation, faster downstream print workflows, and ease of use for almost any kind of 3D data. Major updates to Python scripting make process automation and customization more powerful than ever. Mesh editing and feature creation workflows can be significantly faster with new Smart Selection.

### Upgraded Geometry Tools

Brand new geometry creation and analysis functions expand the applications for Wrap<sup>®</sup> into totally new areas. Measuring tools accurately evaluate model dimensions and the new trapped engraving feature lets you engrave from the inside out for better clarity. Working with your model is made even easier with the unroll tool providing a more efficient work process and streamlined model analysis.

### Enhanced Realism of 3D Color Data

Robust new tools enhance color data from 3D scans that other scanning applications lack, giving you the freedom to create incredibly realistic texture images for AR/VR, 3D printing, special effects and more.



## From Surfacing to 3D Printing, Geomagic Wrap is the Most Affordable and Powerful Solution for Your Needs.

# New Features:

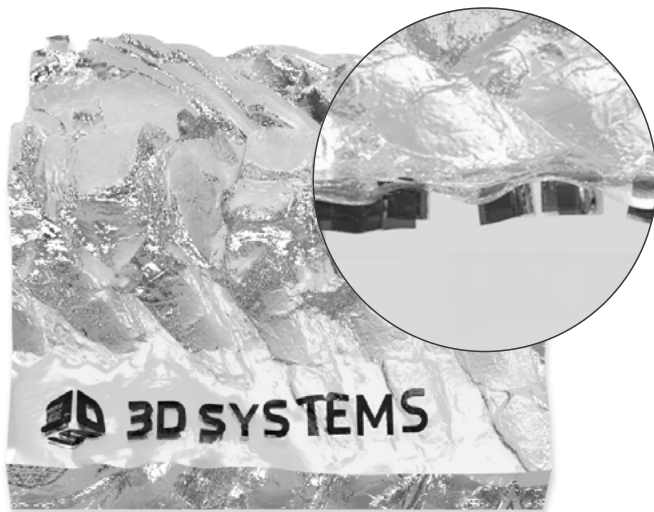
## Unroll Geometry

- Complex cylindrically-wrapped geometry can now be flattened for better analysis
- Unroll Points and Polygons for better visibility and easier work process in planar space
- Extract design intent from rotating equipment, unroll products of cylindrical cross section



## Trapped Volume Engraving

- The new "Entrapped" feature of engrave can add alphanumeric and DFX-based labels underneath the surface of a part.
- The Trapped engraving can be filled with support material or a secondary part material during printing providing high contrast for greater visibility



## UV Map Creation

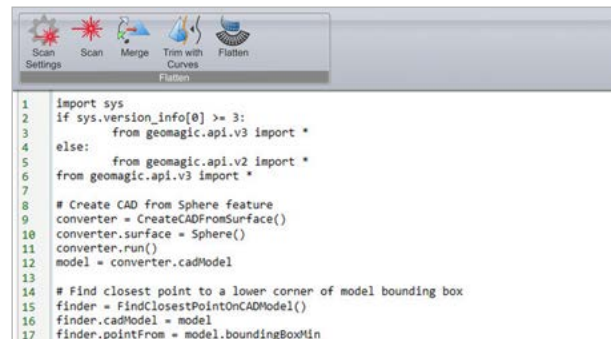
- Enhanced UV Texture Map creation gives users full control over how the UV layout is defined.
- Improvements have been made to patch count control, mapping, color control, and editing to enable photo realistic UV texture mapping

## Dimension Tools

- Inspired by our Geomagic Control X 3D inspection software we have added fundamental measuring tools to improve fast analysis of scanned parts
- Cut cross sections through your parts, extract and annotate angular, linear and radial dimensions

## Scripting 3.0

- Powerful new functions and methods have been exposed to the scripting environment
- Now you can extend the scripting environment by importing 3rd party libraries
- Create custom ribbon workflows using icons to launch scripts



## Productivity Enhancements

- New support for CJP printing file formats
- Unique optimization technique for scan meshes and CAD meshes
- Improvements for STL import optimization (ZPD, ZPR)
- Dynamic selection of polygons with a simple click and drag
- Extract curves with greater accuracy from selections

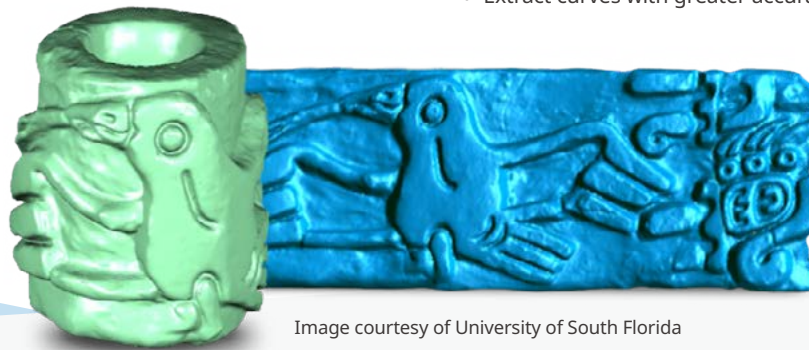


Image courtesy of University of South Florida

Find out more at: [www.3dsystems.com/software/geomagic-wrap](http://www.3dsystems.com/software/geomagic-wrap)

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## Geomagic Wrap supports all 3D digitizers, cameras, and scanners in XYZ/ASCII format, and it handles ordered and unordered surface and volume data.

- 3PI - ShapeGrabber
- 3DS - 3D Studio
- AC - Steinbichler
- ASC - generic ASCII
- BIN, SWL - Perceptron
- BRE - Breuckmann
- BTX - Surphaser
- CDK, CDM, RGV, RVM, VVD - Konica Minolta
- COP - Pulsetech
- CWK - Kreon
- DBT - Digibotics
- FLS - Faro LS
- G3D, SURF - GOM
- GPD - Geomagic
- GTI - Genex
- HYM - Hymarc
- ICV - Solutionix
- IV - OpenInventor
- IQMOD, iQWSP, iQSCAN - IQvolution
- MET, MTN - Metron
- MPC, TOC - MantisVision
- NAS - Nastran
- NET - InSpeck
- OPD - Optimet
- OPT - Open Technologies
- PCN - LDI
- PCT - Vialux
- PIX - Roland
- PTX - Leica
- SAB2 - Nikon
- SCN, MGP - Laser Design
- SCN - Next Engine
- SNX - Solutionix
- SWL - ScanWorks Light
- VDA - VDA
- VVD - Vivid
- XYZ - Opton
- XYZN - Cognitens
- ZFS - Zoller & Frohlich

### Import/Export:

- 3DS
- OBJ
- DXF
- PLY
- STL
- LWO
- VRML
- WRP
- VTX, ASC
- IGES
- STEP
- Parasolid
- Pro/ENGINEER
- SAT

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3D Systems provides comprehensive 3D products and services, including 3D printers, print materials, on-demand parts services and digital design tools. Its ecosystem supports advanced applications from the product design shop to the factory floor to the operating room. As the originator of 3D printing and a shaper of future 3D solutions, 3D Systems has spent its 30 year history enabling professionals and companies to optimize their designs, transform their workflows, bring innovative products to market and drive new business models. Specifications subject to change without notice. 3D Systems, Geomagic and the 3D Systems Logo are trademarks of 3D Systems, Inc. All other trademarks are the property of their respective owners.