

X3D Model Exchange

Welcome Navy and Marine Makers!

https://modelexchange.nps.edu





Who We Are

X3D Model Exchange shares open-source models in formats compatible with 3D printers.

Partner commands offer unique capabilities to share, view 3D-printable models by Navy and Marine Makers.

About the X3D Model Exchange

Goal

Additive Manufacturing (AM) will have major impacts on future operations. The goal of the Model Exchange is to help Navy and Marine Makers learn how to find, produce, share and print 3D models.

Contact

(testing in progress) You can Contact us by form, or send feedback email to makers@nps.edu.

Partners



Sponsors



Naval Research Program (NRP) with Topic Sponsor OPNAV N415 Additive Manufacturing (AM)

Developers

Partner developers are working together to build capability. Additional user-facing model exchanges might someday adapt these growing open-source assets.



- Developer mailing list ModelExchange@MovesInstitute.org (plus list page and mail archive)
- Dataflow architectural design emphasizes interoperable model sharing.
- Gitlab version control: ModelExchange Staging Area for 3D content, plus ModelExchange Software repository
- Portal Document Library



Discover

Discover 3D models, view curated collections or find 3D models from community members.

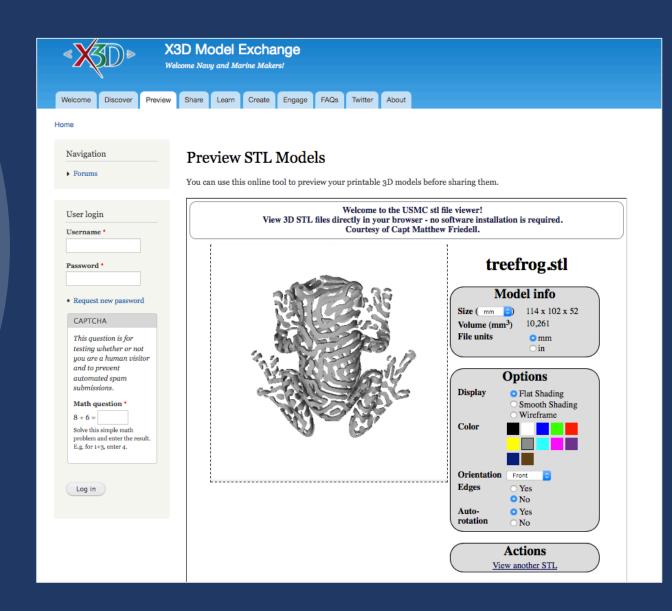
Metadata is the key to archival storage, reuse and effective search.

	BD Model Exchange come Navy and Marine Makers!
Welcome Discover Preview	Share Learn Create Engage Twitter About
Home	
Navigation Forums 	Discover 3D Models Find printable 3D models by using search filters for Category, Community and Metadata Tags.
User login Username • Password • CAPTCHA This meeting is for	Wrench 81mm Mortar Author: brutzman admin Category: Test Cases Wrench 81mm Author: brutzman admin Category: Tools Community:
This question is for testing whether or not you are a human visitor and to prevent automated spam submissions. Math question • 2 + 2 = Solve this simple math problem and enter the result. E.g. for 1+3, enter 4.	Community: Marine Makers Marine Makers Description: Description: When Marines at SPMAGTF-Central Command- Crisis Response in Kuwait did not have the original wrench that came with the gun to remove the breach plug that sits at the breach end of the gun, they turned to 3D printers. Tag(s): Tag(s): pipeline Wrench Tools Read more Read more

Preview

Use online preview tool to preview printable STL models before sharing.

STL is simply geometry. X3D includes material, metadata and interaction. We're adding viewing support for both.



Share

Community members share open-source models online. Maker uploads first need CAC ID to thwart hackers.

New models undergo pipeline processing and Quality Assurance prior to publishing publicly.

X3D Model Exchange Welcome Navy and Marine Makers! Welcome Discover Preview Share Create Engage FAQs Twitter About Learn Home Navigation Upload and Share 3D Models Forums (Developers please login to Share. For everyone else: upload testing is in progress, please stand by ...) User login Select a community image to share your printable 3D model Username ' Password * · Request new password Fablabs Navy Makers Expeditionary History Heritage Marine Makers CAPTCHA All contributions are UNCLASSIFIED open source with CAC-controlled user access to block hackers. This question is for testing whether or not uou are a human visitor Future users: here is your pre-flight checklist! and to prevent automated spam submissions. Access: confirm that your 3D model can be shared publicly. · Identity: Navy-Marine Makers need a CAC (test) to upload new models. Math question ' · Got Model? Have a good 3D model ready to go, saved using any format. 3 + 7 =· Naming: Model title, author information, and hash tags. Solve this simple math · Ownership: must be legitimate open source and free for any use. problem and enter the result. E.g. for 1+3, enter 4. · Description: tell the story: what does the model do, who might use it. · Details: plenty of metadata information so that Discover Search works well. Anything else? drawings, plans, photos, videos, online links, etc. etc. etc. Log in What happens next. Uploaded user models are acknowledged, then further tested and prepared separately by partner developers in the NPS Gitlab Staging Area. When ready, new model assets are placed back in Model Exchange and published publicly. As we perfect model presentation and quality assurance (QA), each developer step gets automated.

Make preparations to get under way! We thank all contributors for your great efforts and feedback. Also thanks for your patience as we work together to build support for all Navy and Marine Makers. Get ready, get set...

Learn

We are collecting a variety of learning assets for 3D Printing and Additive Manufacturing.

Community forums will add further learning and teaming possibilities.



Welcome

Navigation

Forums

User login

Username *

Password '

Request new password
 CAPTCHA
 This question is for
 testing whether or not
 you are a human visitor

and to prevent automated spam submissions.

Math question * 4 + 2 =

Log in

problem and enter the result. E.g. for 1+3, enter 4.

Home

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Learn about 3D Printing

We are collecting a variety of learning assets for 3D Printing and Additive Manufacturing. The following video series provides an excellent introduction to 3D modeling.



Create

Open Source licenses (such as Creative Commons) are required to all submitted models. No proprietary models.

CAC card ID required for Maker uploads to ensure authenticity.

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Welcome	Discover	Preview	Share	Learn	Create	Engage	FAQs	Twitter	About		
Home											
Navigation			Create 3D Models Online								
▶ Forums			Future work. No really!								
User logi Usernam	The Model Exchange portal will integrate online Web-based tools that support the creation of 3D model files. Each workflow will create downloadable models that are viewable, annotated and optimized for 3D printing.										
Password	Generating and converting 3D models with locally installed tools remains the primary way for Makers to "get the job done" at this stage of development.										

Engage

Interested in creating your own customizable models? Share Fab Lab guidance on designing, adapting and printing quality models.

3D Model Exchange is a community-driven resource. Makers can learn together or independently.

< X3D

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Welcome	Discover	Preview	Share	Learn	Create	Engage	FAQs	Twitter	About				
Home						-							
Navigati	on		Community Engagement										
 Forums 				Building a community is super valuable. This X3D Model Exchange portal is a community-driven resource for Navy and Marine Makers. We're hoping that people will like using discussion forums to									
User logi	in		share tips and tricks on 3D printing.										
Usernam	e *		"Telling your story" and learning from others can really help. Additive manufacturing creates hands-on learning tools. There is lot for everyone to learn about 3D model printing. Are you ready to share your questions and ideas with the community? We are all looking for tips and tricks on 3D printing, ideas for new models, potential new projects, partnership opportunities, and suggestions to help us improve the Model Exchange portal.										
Password	1 •]											
CAPTCI		u	Here is a great example of how an online forum can work: NIH 3D Print Exchange Forums. Status: the Discussion Forums for this portal are now operational. Developer partners are thinking about how we might best proceed when ready, we will organize them further.										
testing	estion is for whether or no a human visi												
and to p automa submiss	ted spam		The more we do together, the more we can accomplish together. Stay tuned!										
2 + 0 = Solve this problem :	uestion • s simple math and enter the res +3, enter 4.	sult.											
Log in													