

Coat Hook YouImagine Documentation Assignment (inspired by Dr. Adrian Bowyer) by Frankie Flood (frankieflood@gmail.com)

Your assignment is to document the coat hook that you printed via the Rep Rap based additive manufacturing 3D printer on YouImagine. You have documented your printed coat hook during each step of the process and now your digital files of the coat hook should be uploaded to YouImagine complete with documentation, and explanation of your design, as well as instructions on printing it.

Project Rationale

The website YouImagine is a community based platform to share digital files, designed specifically to be fabricated using a 3D printer or other digital fabrication equipment. Users can upload any project, as long as they are responsible for the creation. The simple interface and principle has attracted a large group of active users. The website is created and supported Ultimaker, which is a popular manufacturer of 3D printers. Your design will be available to anyone who wishes to download and print your coat hook and it will also be available for anyone across the world to improve or modify as they see fit in the form of a derivative. Your design has the potential to affect peoples' daily lives and to be printed and used by virtually anyone who has access to a 3D printer. This is the future for artists, designers, engineers, and makers!

Objectives

- To document and share an original, functional form (coat hook) via YouImagine
- To learn how to screen capture via Mac and PC operating systems
- To learn how to capture Rhino viewport images
- To learn advanced viewport settings in Mac Rhino 5.0
- To prepare for rendering techniques to be used in conjunction with Rhino
- To create an online Maker/Designer presence with your unique design

YouImagine: <https://www.youimagine.com/>
user login:
password:

Deliverables

You are to document each step in the process and upload files and images to YouImagine: hand drawn designs (scanned or digital image) screen shots (.jpg format) from Rhino of your proposed hook a basic rendered .jpg image from Rhino an .stl file of the coat hook a digital image of the hook installed (no coat present) a digital image of the hook in use (with coat) YouImagine upload of your coat hook and documentation on DCRL (Digital Craft Research Lab YouImagine site.

Optional

Upload all of your design iterations and create derivatives if designs are derivative of earlier designs.

Create a new Thing Once you upload your .stl file, YouImagine will start processing it. In the meantime, you can start filling in the details about your thing.

Sharing is Caring

YouImagine is founded on the ideals of open source and sharing of designs. Please upload the source files for your 3D designs, not just the rendered output. Even if the source file is in a proprietary format from something like SolidWorks, it will still be useful to someone. Uploading the source files allows the potential for others to improve your design. YouImagine feels that is a Good Thing.