

3D Printing Painting Memo

Homo naledi painted print:

Dan Reboussin (University of Florida) painted *Homo naledi* using a sponging technique (non-primed skull worked better than primed skull)



Information from Dan Reboussin:

Hi Molly,

I found some more details...I used these two colors (1 oz. each was enough for several projects):

DecoArt Media Fluid Acrylic Paint 1oz Series 1 Raw Umber Item #14507867 \$2.99:
<http://www.joann.com/decoart-media-fluid-acrylic-paint-1oz-series-1---raw-umber/14507867.html>

DecoArt Media Fluid Acrylic Transparent Yellow Iron Oxide Item #14507784 \$3.99:
http://www.joann.com/decoart-media-fluid-acrylic/zprd_13982772a.html

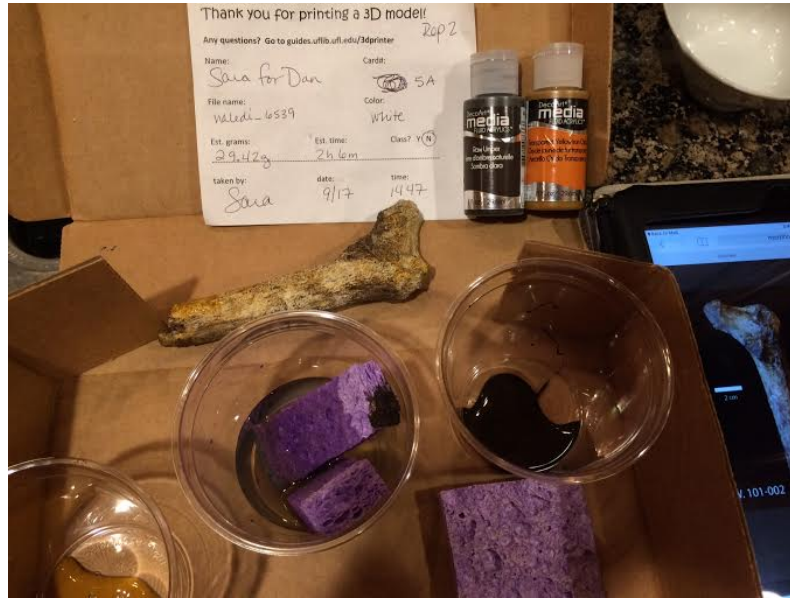
As mentioned I used the first color raw umber (I call it black) in the deeper contours, wiped off the raised surrounding area with rubbing alcohol, and let it dry. Then in the next step I used diluted yellow/Iron Oxide (looks like ochre to me) as a wash and then using the Morpho Source image as a guide just added some more intense, undiluted color to mottle the surface a bit. Good thing is you can always wipe with a rag while wet or even with isopropyl once dry if you're unhappy. My first attempts didn't get that elaborate and came out well. I just cut up an old kitchen sponge.

The very nasty to work with (dangerous and difficult to sand) epoxy is XTC-3D from Smooth-On if you're interested there are good how-to videos online:
http://www.smooth-on.com/Epoxy-Coatings-XTc/c1397_1429/index.html

You can see from the attached pic I just worked at my kitchen sink for the most part, except when applying the epoxy and sanding which I did outside.

Dan





Painting inspiration:



A reconstruction of Homo naledi presented during the announcement made in Magaliesburg, South Africa, Thursday, Sept. 10, 2015. Scientists say they've discovered a new member of the human family tree, revealed by a huge trove of bones in a barely accessible, pitch-dark chamber of a cave in South Africa, showing a surprising mix of human-like and more primitive characteristics. (AP Photo/Themba Hadebe)
<http://www.forbes.com/sites/kristinakillgrove/2015/09/19/how-to-print-your-own-3d-replicas-of-homo-naledi-and-other-hominin-fossils/#5820242b63b2>

First Attempt at Painting:



Painted with acrylic paint ONLY—no primer or epoxy.