Open Source

Space Exploration

Ahmed Saieed

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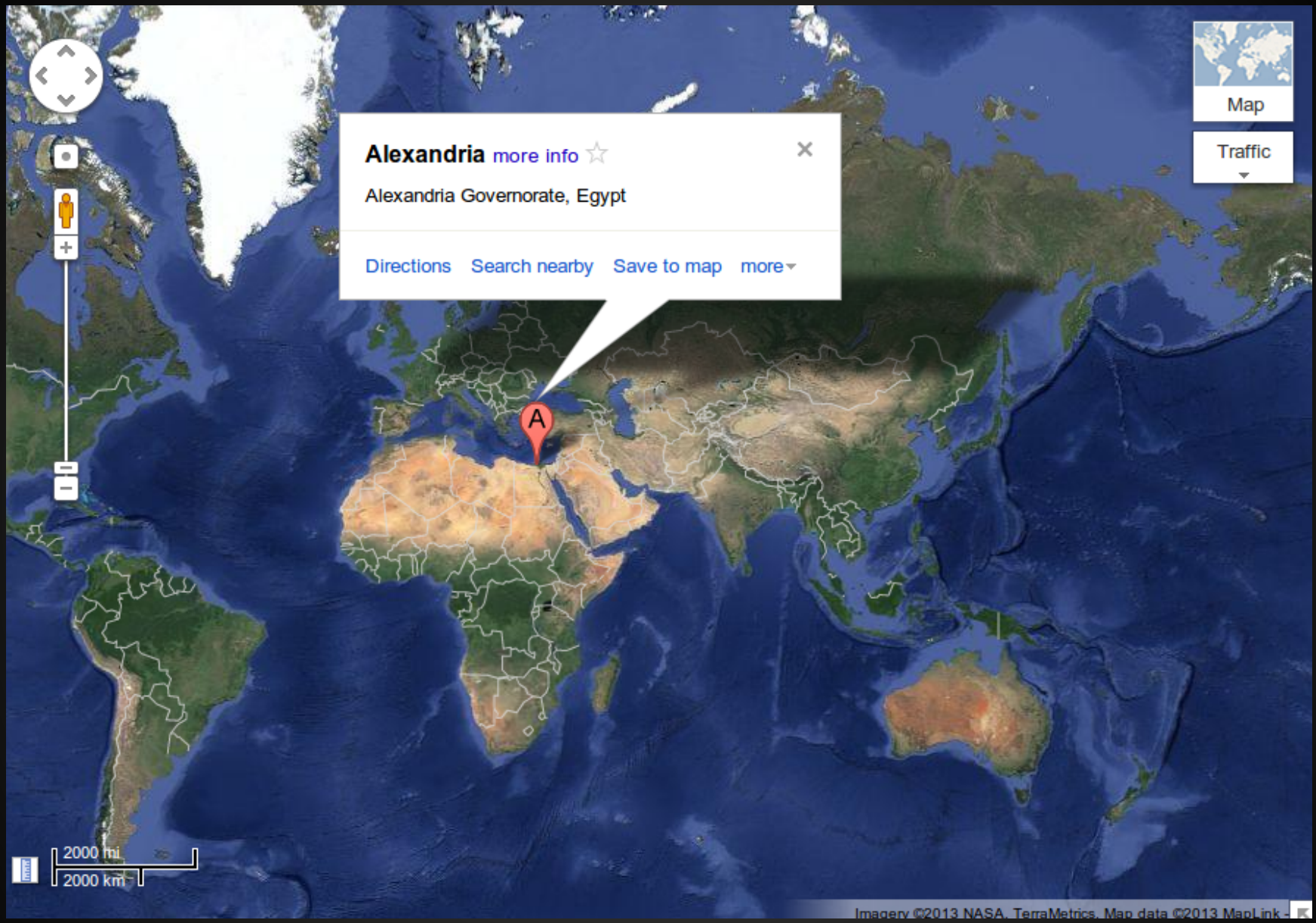
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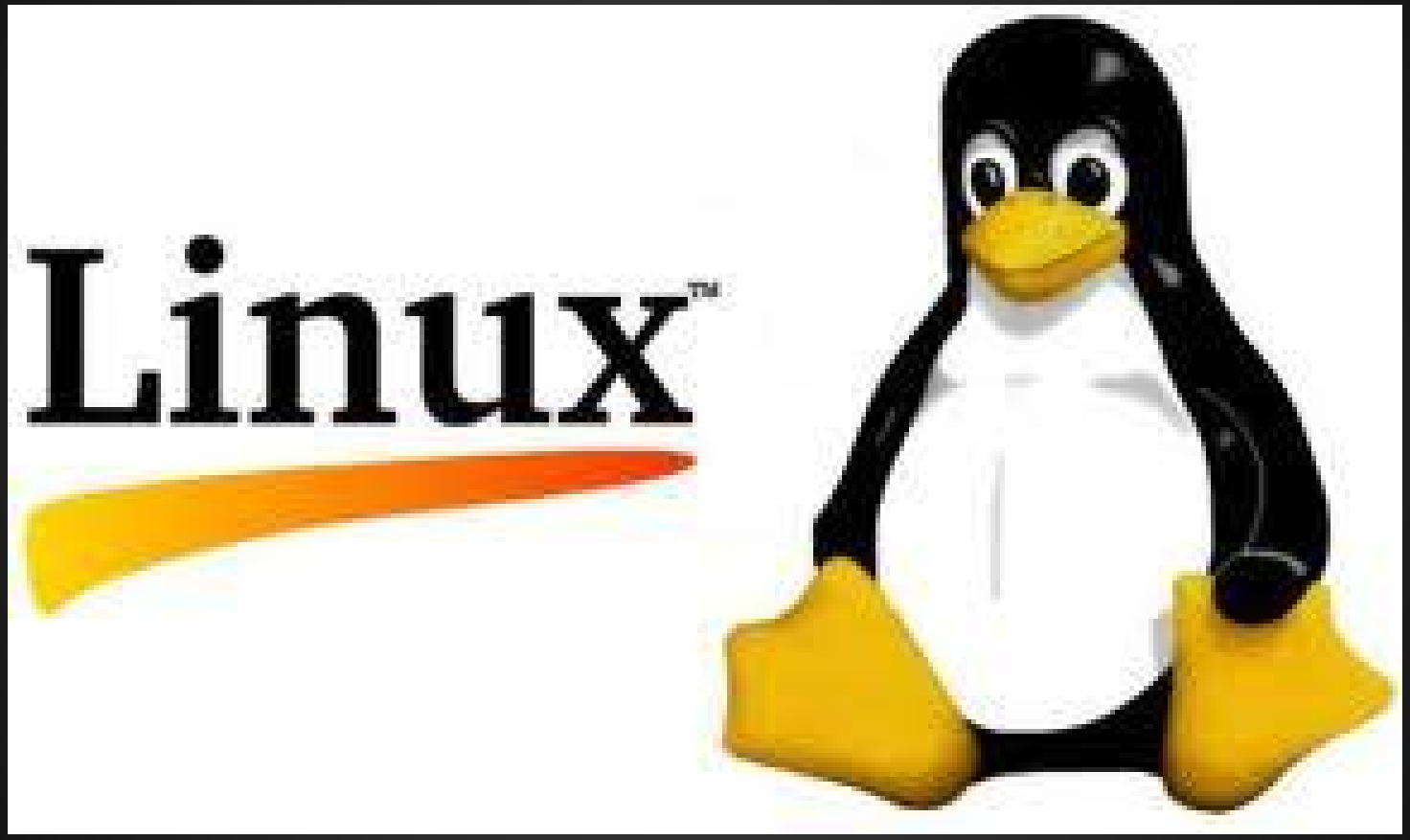

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android

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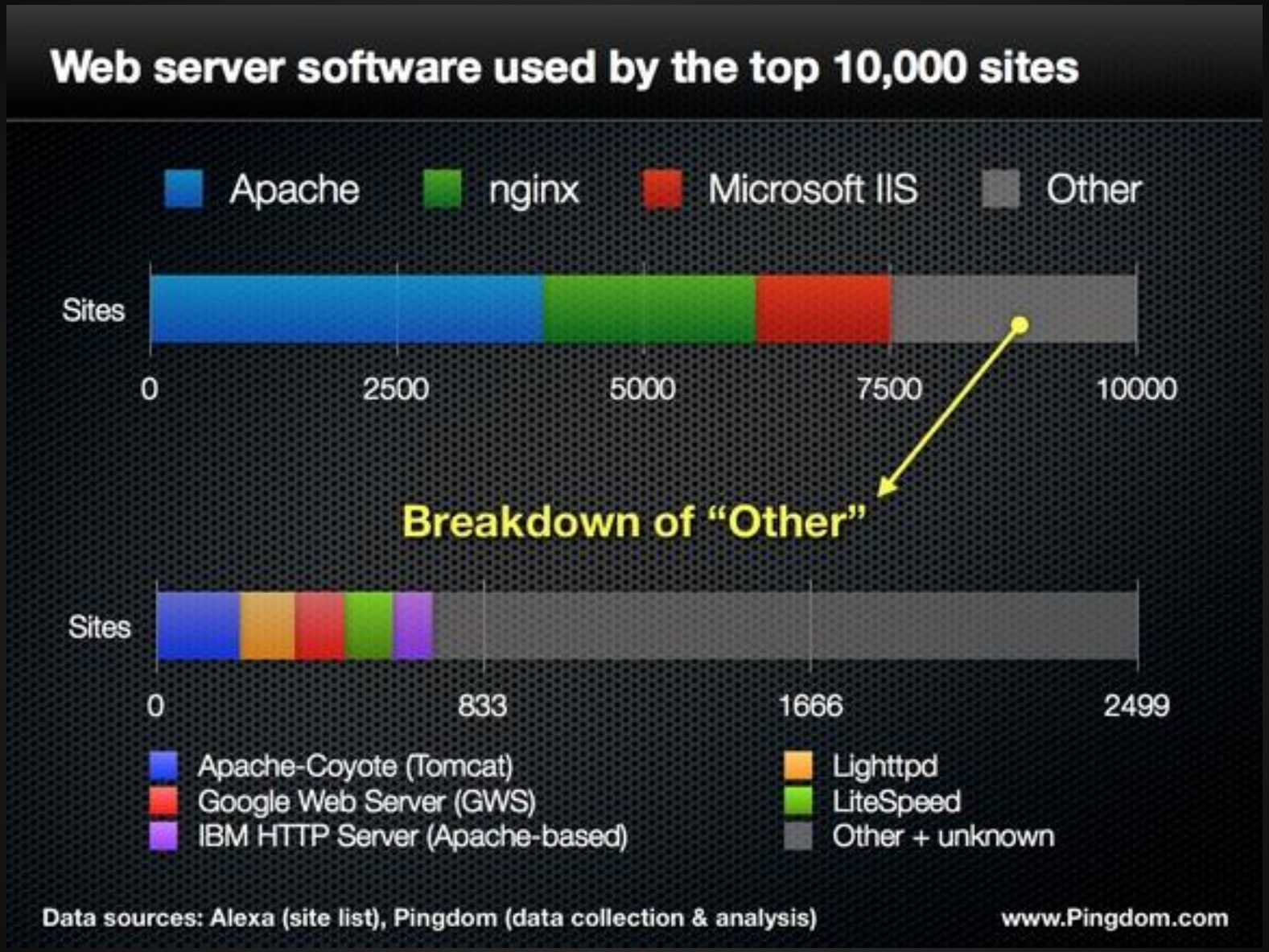
Web server software used by the top 10,000 sites
Apache
nginx
Microsoft IIS
Other
Sites
0
2500
5000
7500
10000
Breakdown of "Other"
Sites
0
833
1666
2499
Apache-Coyote (Tomcat)
Google Web Server (GWS)
IBM HTTP Server (Apache-based)
Lighttpd
LiteSpeed
Other + unknown
Data sources: Alexa (site list), Pingdom (data collection & analysis)
www.Pingdom.com

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OSDD is a community of **students, scientists, researchers,. academicians, institutions, corporations** and anyone who is committed to discovery of drugs in an open source mode.

http://www.osdd.net/who-we-are

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OPEN SOURCE DRUG DISCOVERY

OSDD Portfolio

Updated as of January 2012

DISCOVERY

in silico Discovery		Screening		Hit to Lead
Target Based	**Ligand Based**	**Whole Cell Based**	**Target based**	
• Rv0129c (Ag85C) • Rv2753c (dapA) • Rv2773c (dapB) • Rv1018c (glmU) • Rv0548c (menB) • Rv055c (menC) • Rv0014c (pknB) • Rv1258c • FAAD's • MbtA	Large scale data mining to identify phytomolecules with anti-tubercular properties Generation and optimisation of Anti-TB models from Pubchem bioassay datasets Virtual screening of compound libraries Systems level pharmacophore modeling Prediction of : • Anti-bacterials based on docking energy scores • CP450 for drug metabolism • Binding affinity of ketoxazole derivatives against FAAH • Mtb inhibitors using QSAR and docking strategies • Compilation and creation of datasets from PDB	Screening of 20,000 drug like compounds from Chembridge Database (CSIR-IIIM) Screening of large number of in-house molecules and compounds submitted to OSDDChem (CSIR-CDRI) Substituted Aryl/Biaryl Triazoles and Quinoxalines as potential anti-tubercular agents *	• Rv1018c (glmU) • Rv2753c (dapA) • Rv2773c (dapB) • Rv0548c (menB) • Rv055c (menC) • Rv3014c (NAD Dependent DNA Ligase) • Rv3290c (Lysine ε Aminotransferase) • Rv0410c (Serine Threonine Kinase) • Rv1837c (Malate Synthase) • Rv1258c • FAAD's • MbtA	Thiophene containing trisubstituted methanes CDRI-SOO6-830 (CSIR-CDRI) LAMS (CSIR-IGIB and Jubilant Chemsys)

* Planned activity

OSDD PROJECTS : Drug Delivery /Diagnostics/ Immunotherapy

- Small molecule mediated immunotherapy
- Improved chemical entities as anti-tubercular agents targeting the respiratory pathway of organism through co-crystal engineering
- Integrated optics approach to non-invasive medical diagnostics
- Transcript profiling of macrophages exposed to TB drugs and drug microparticles
- Regression of the growth of *M.tuberculosis* by lipidated promiscuous peptide
- Nanoparticle based drug delivery system for Izoniazid
- Validating potential protein-protein interactions of *M.tuberculosis* H37Rv utilizing M-PFC

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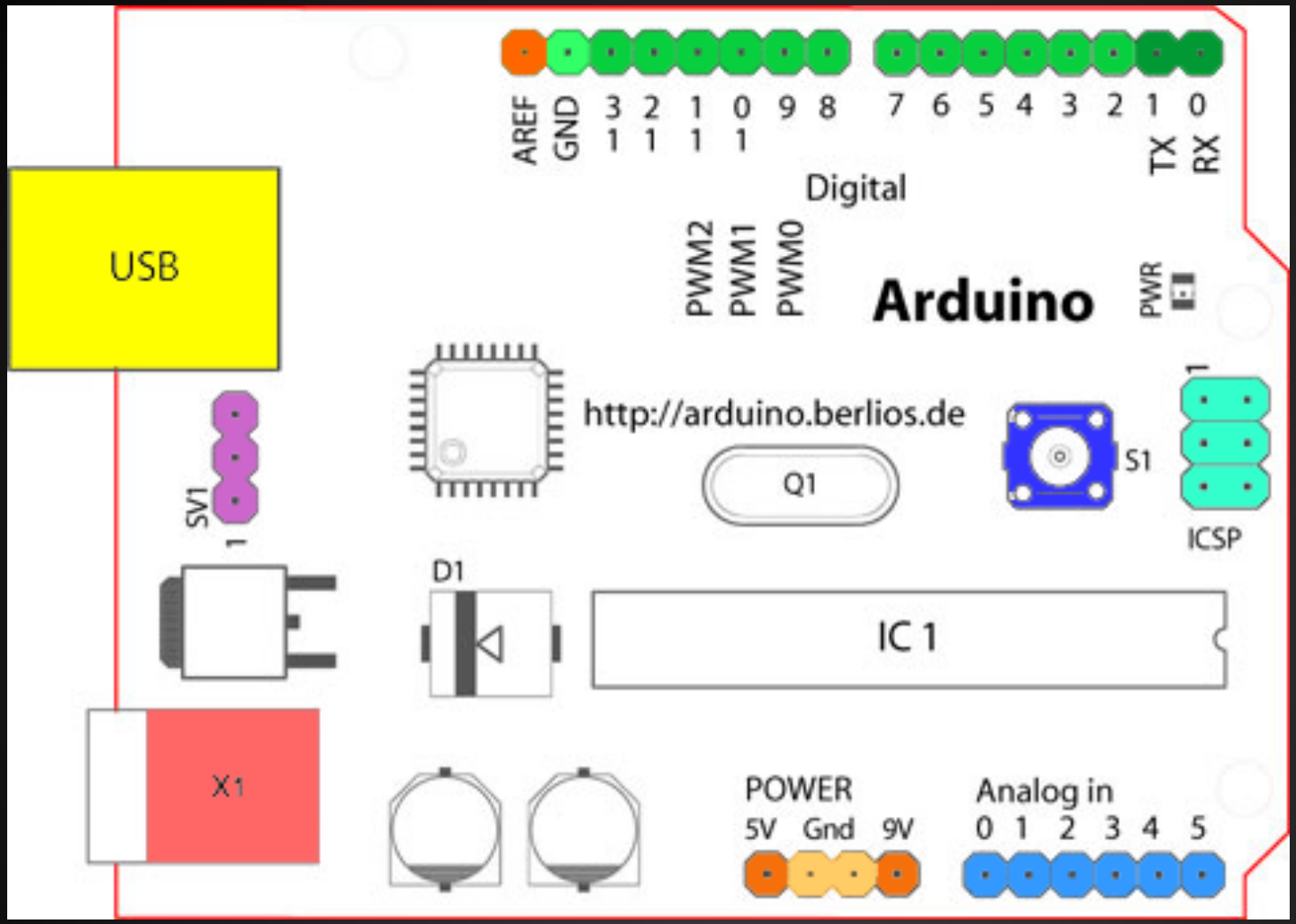
ARDUINO



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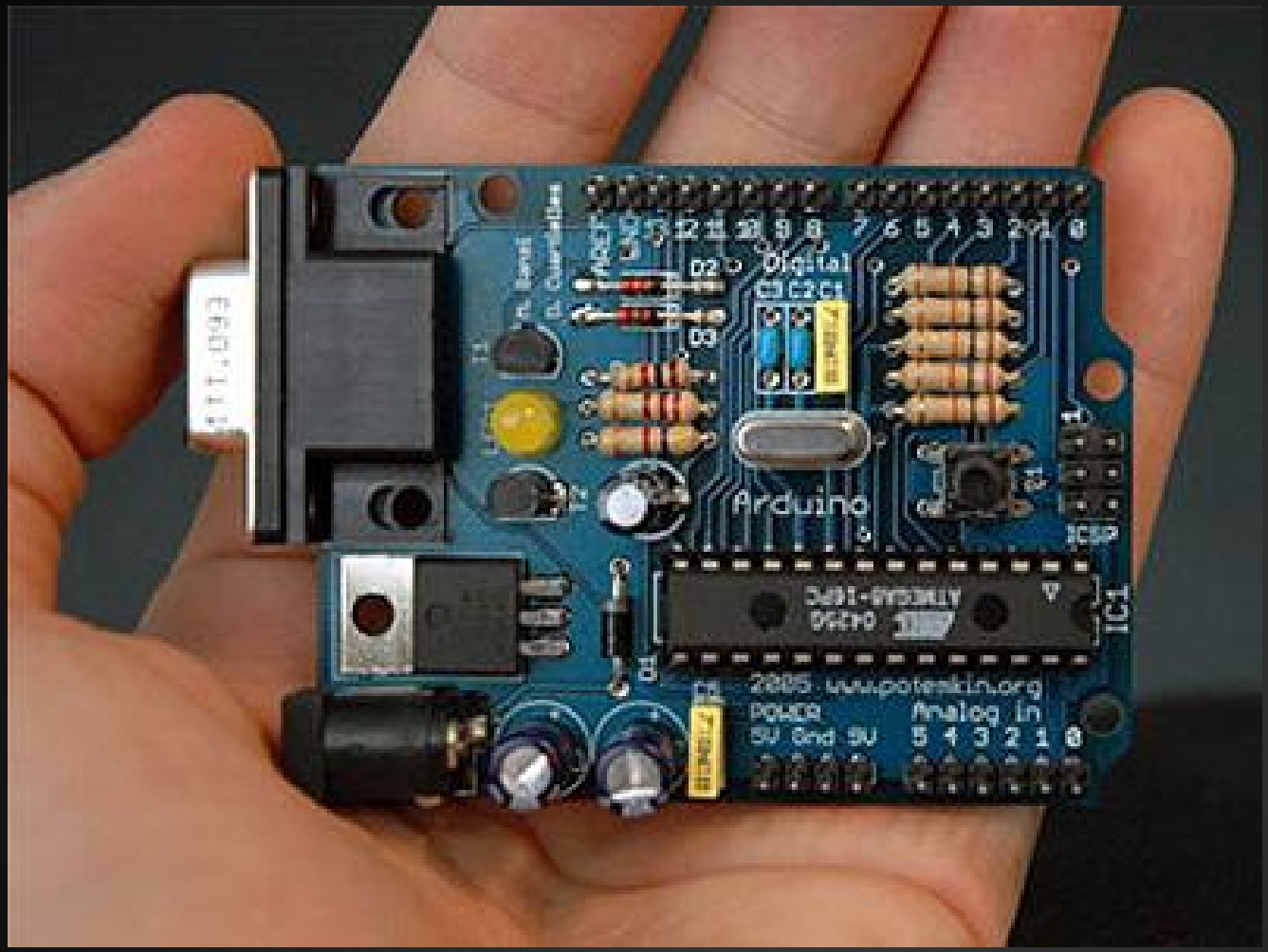

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$25 Computer

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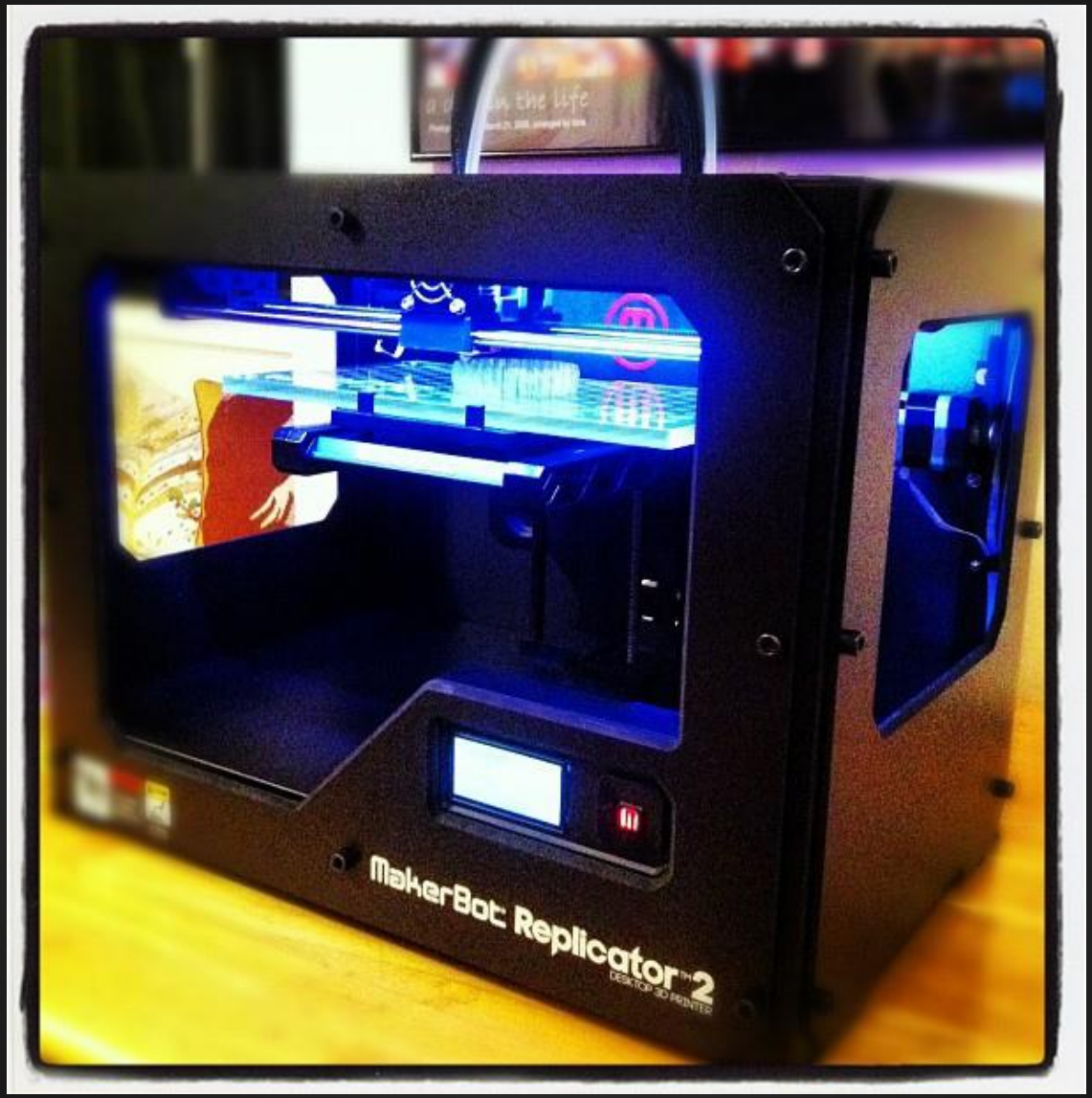

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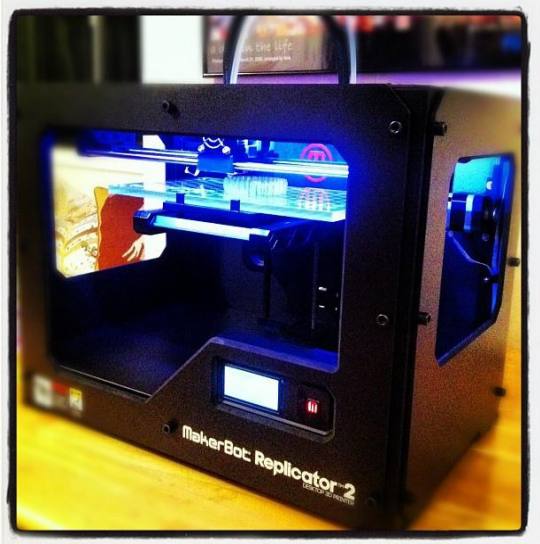

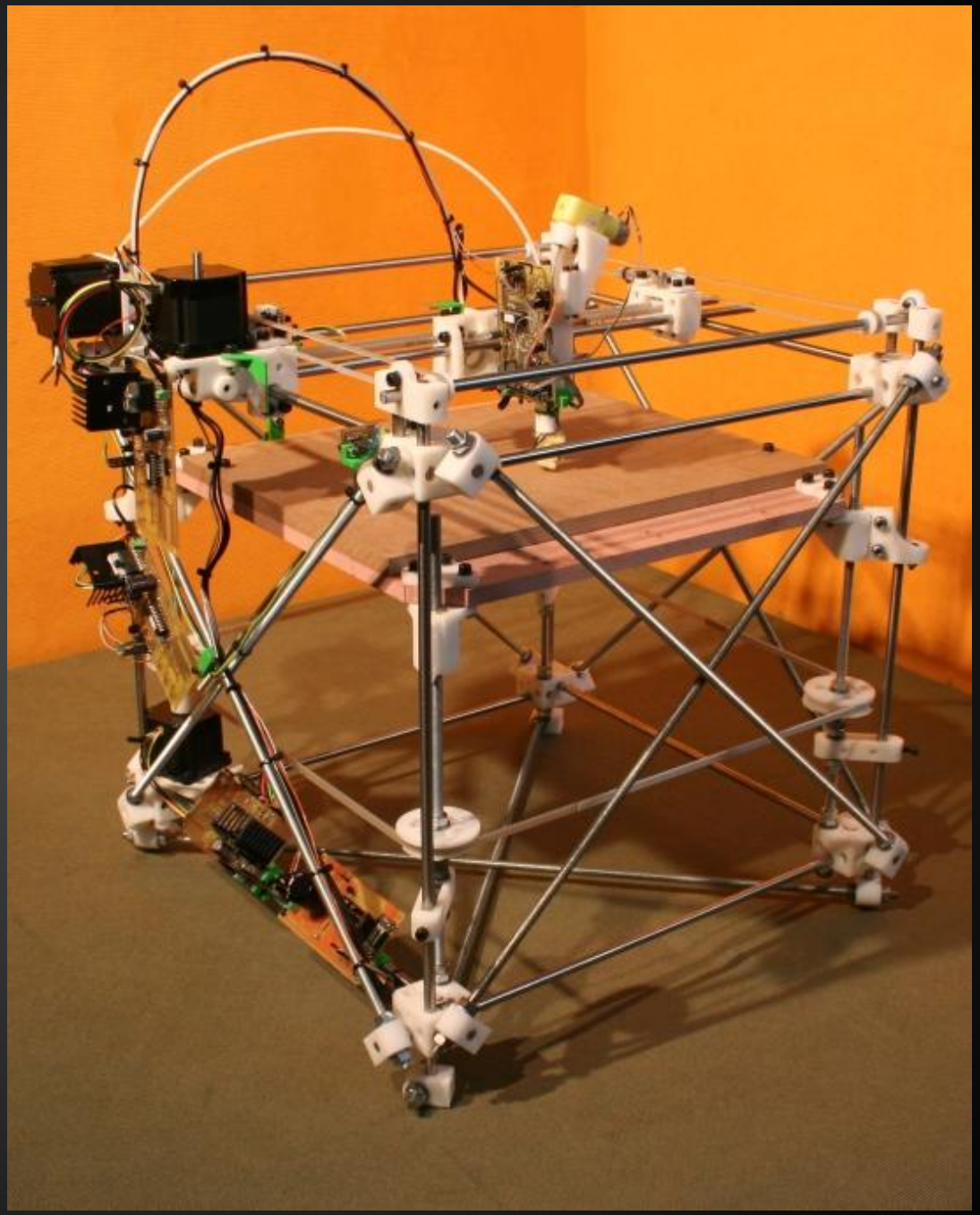

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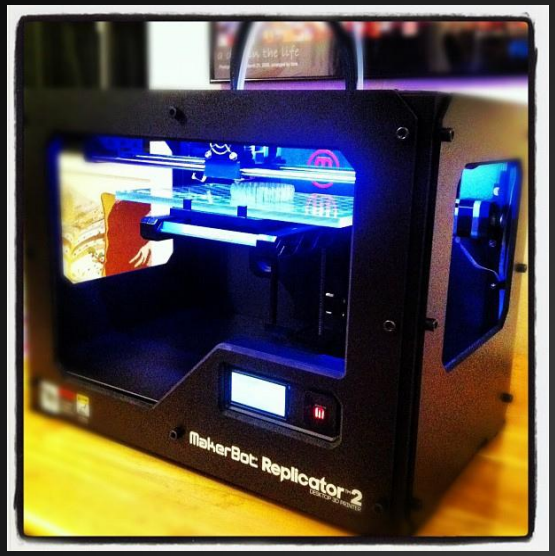

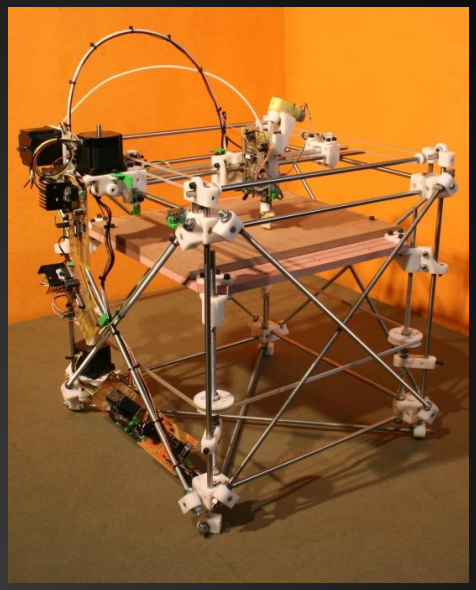

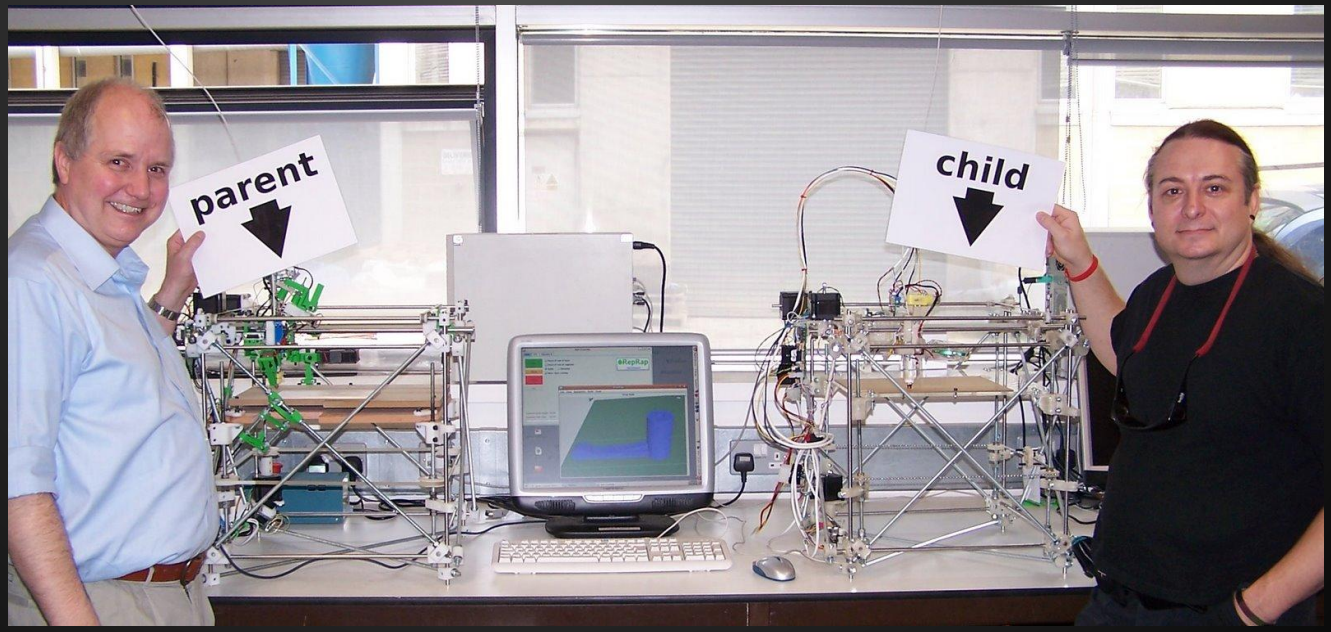

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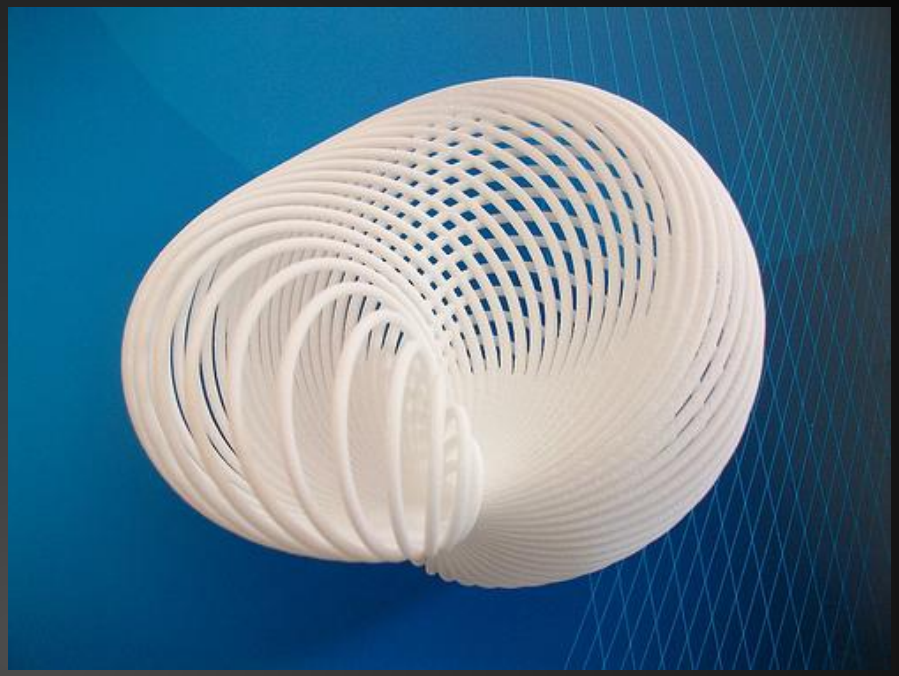

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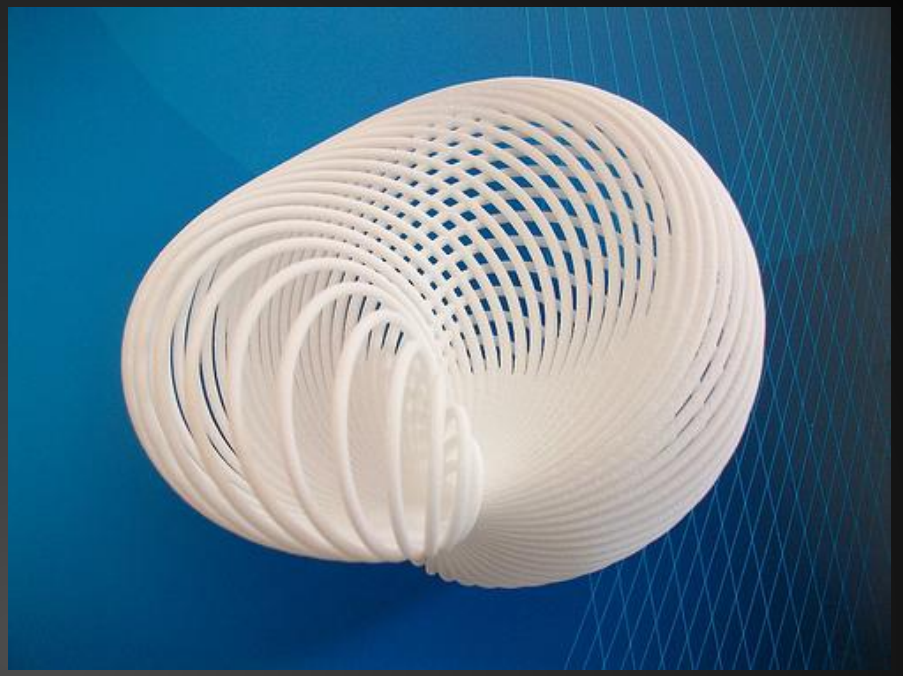

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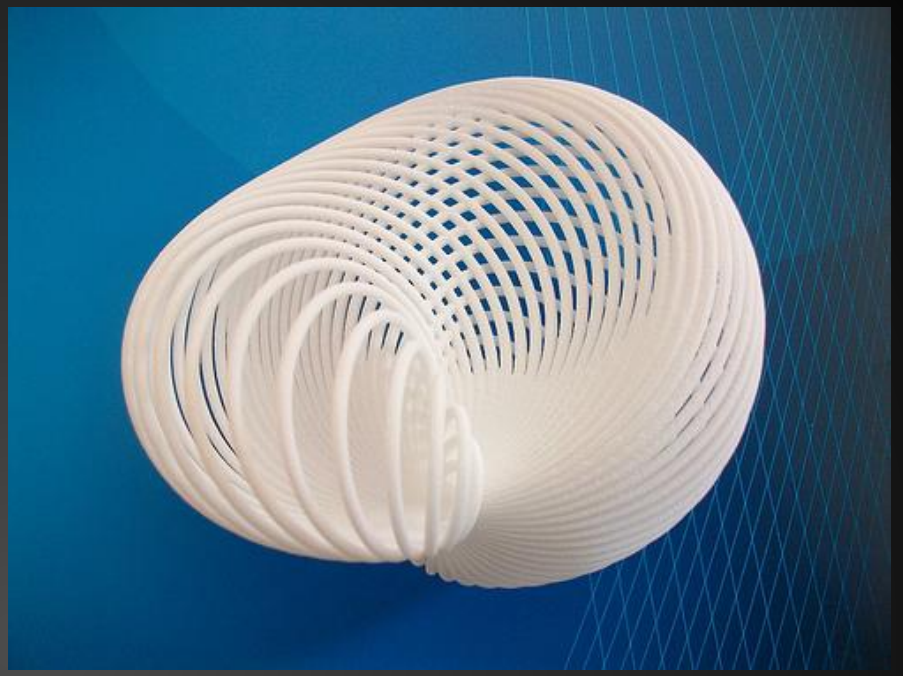

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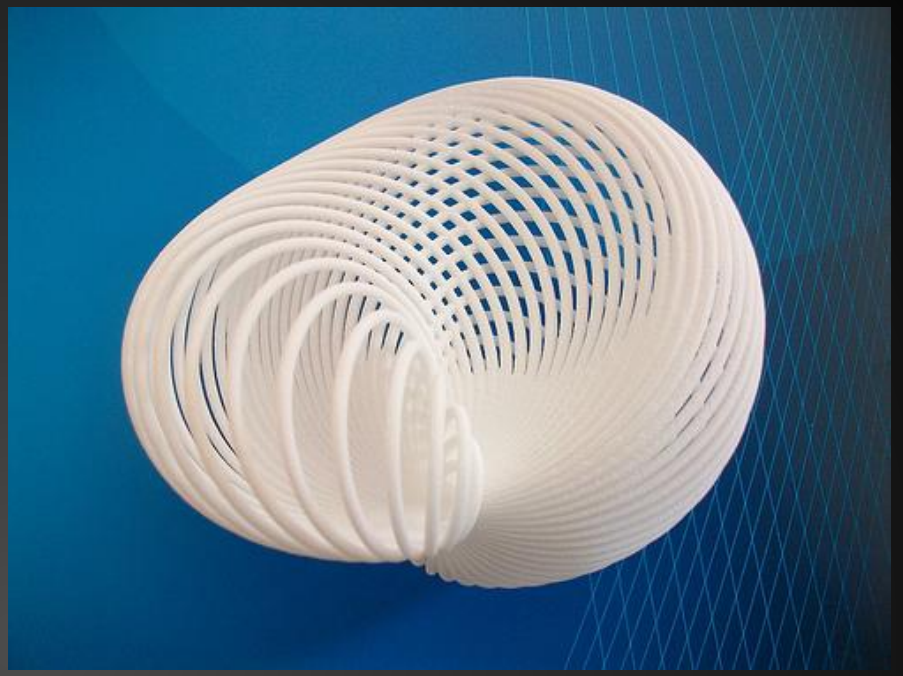

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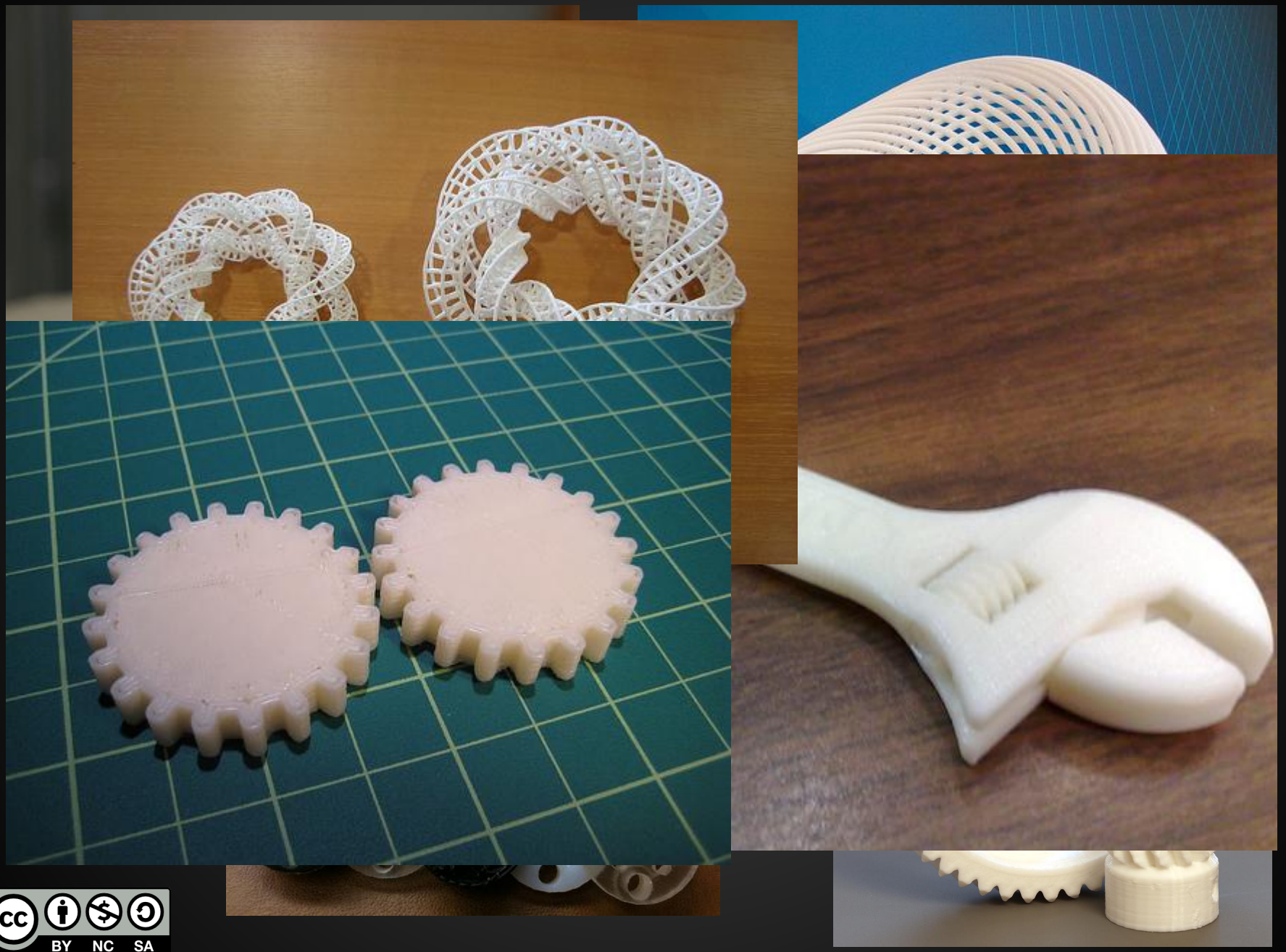

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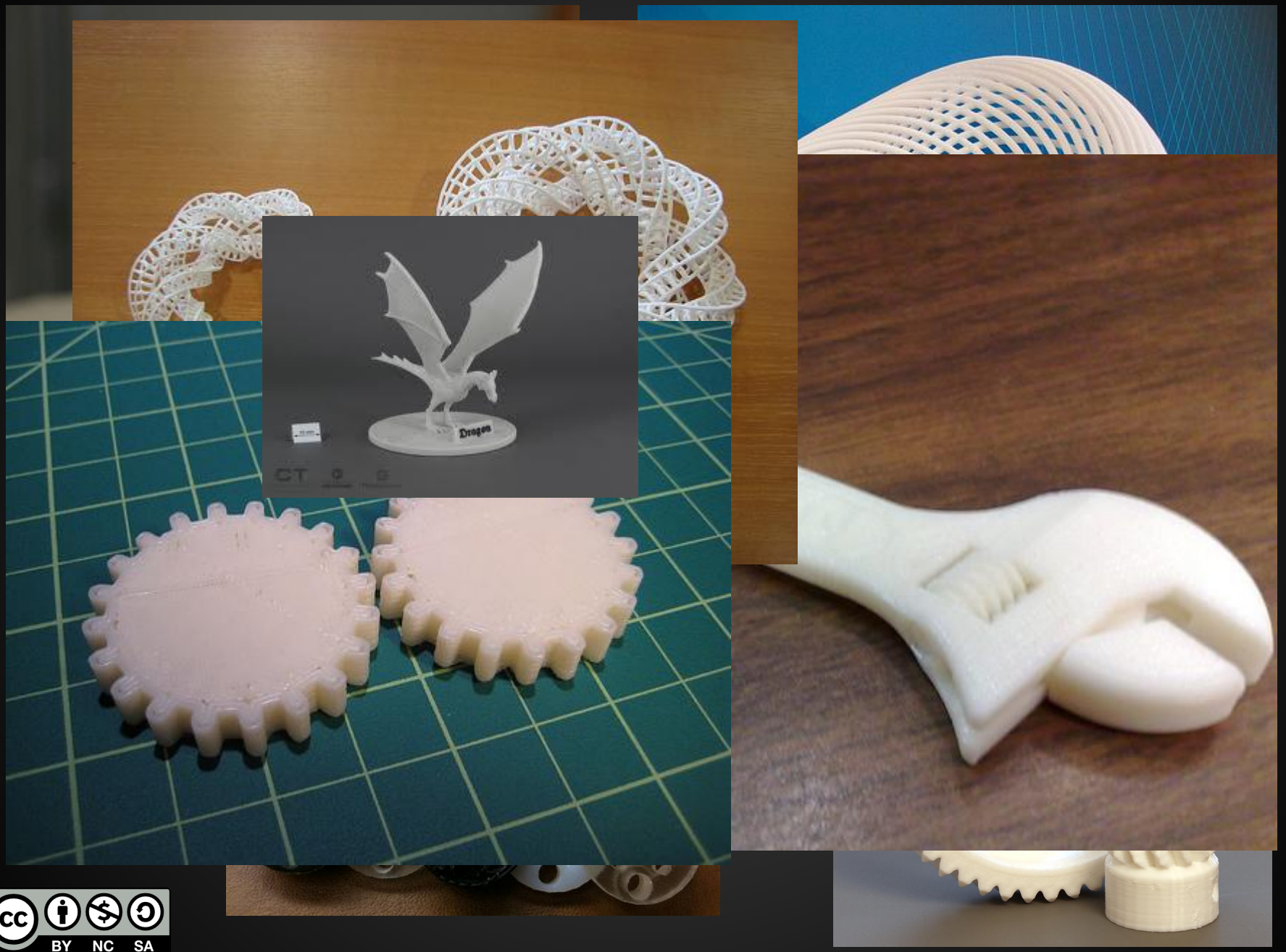

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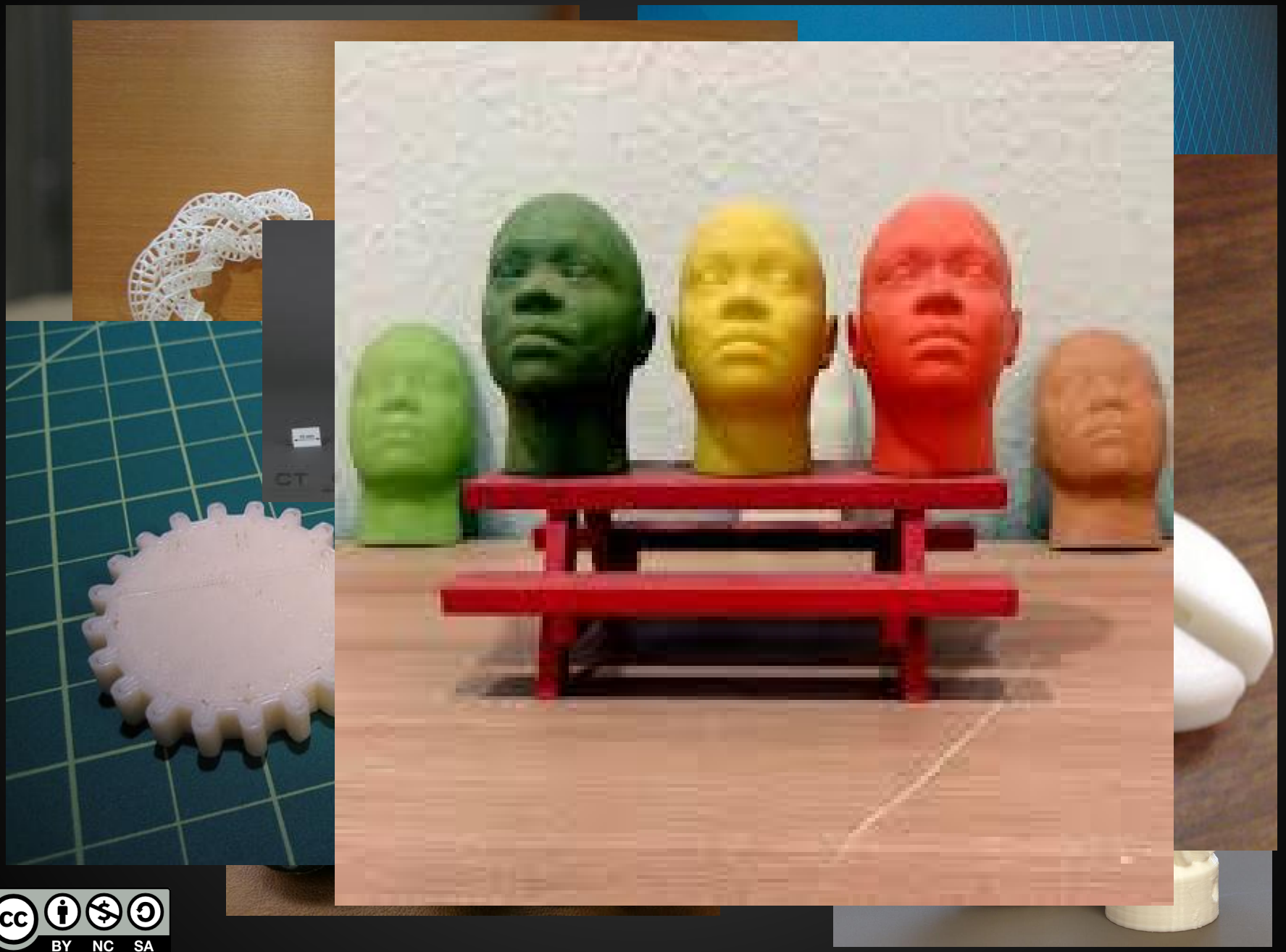

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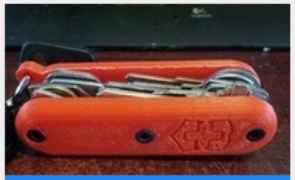
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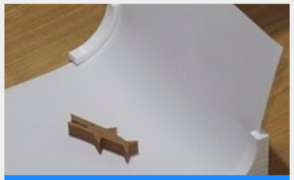
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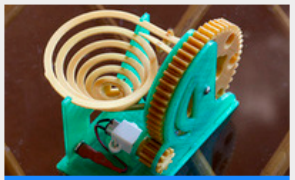
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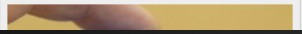

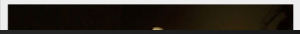

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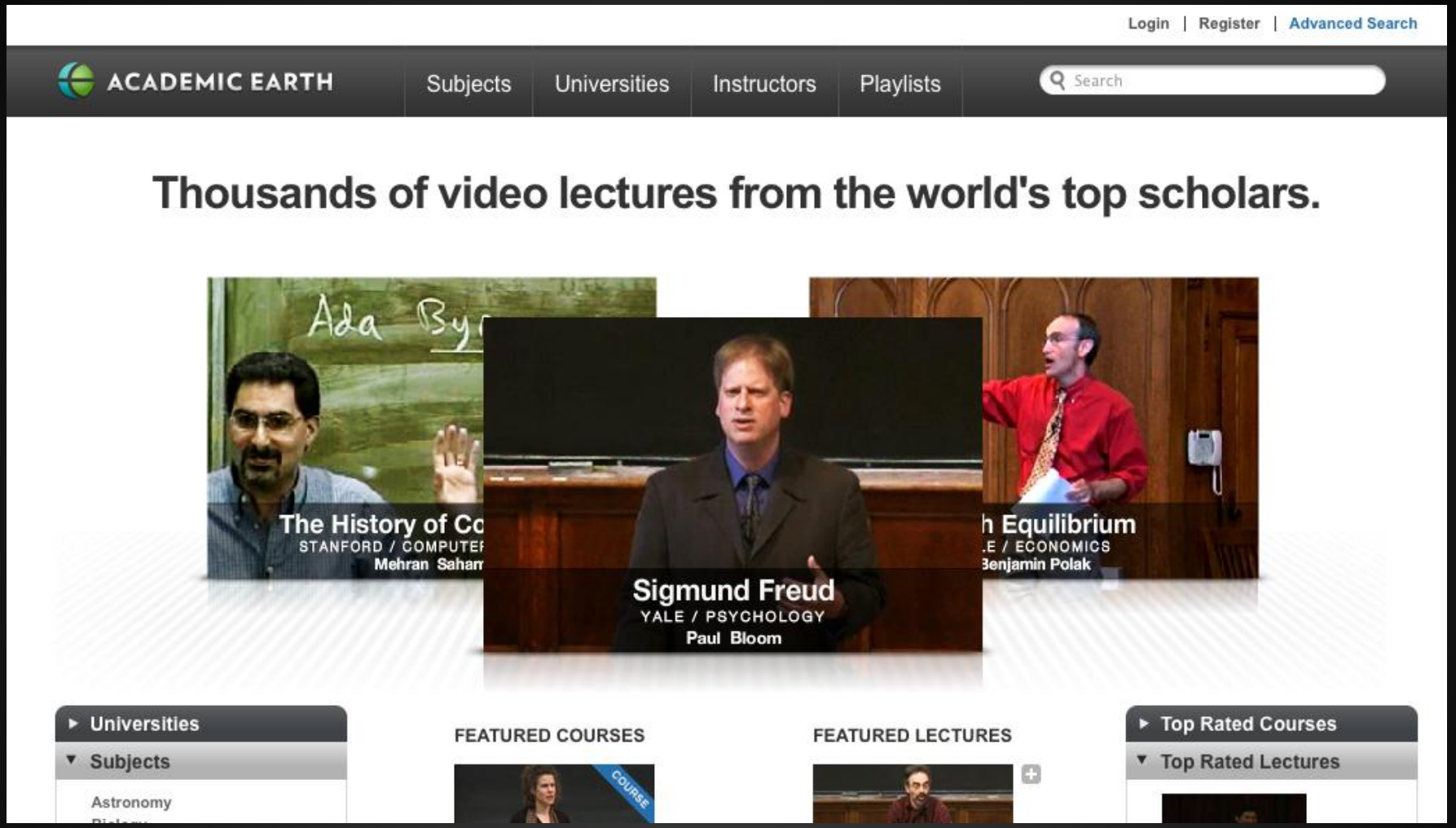
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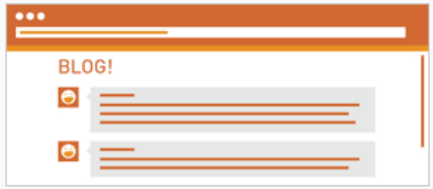

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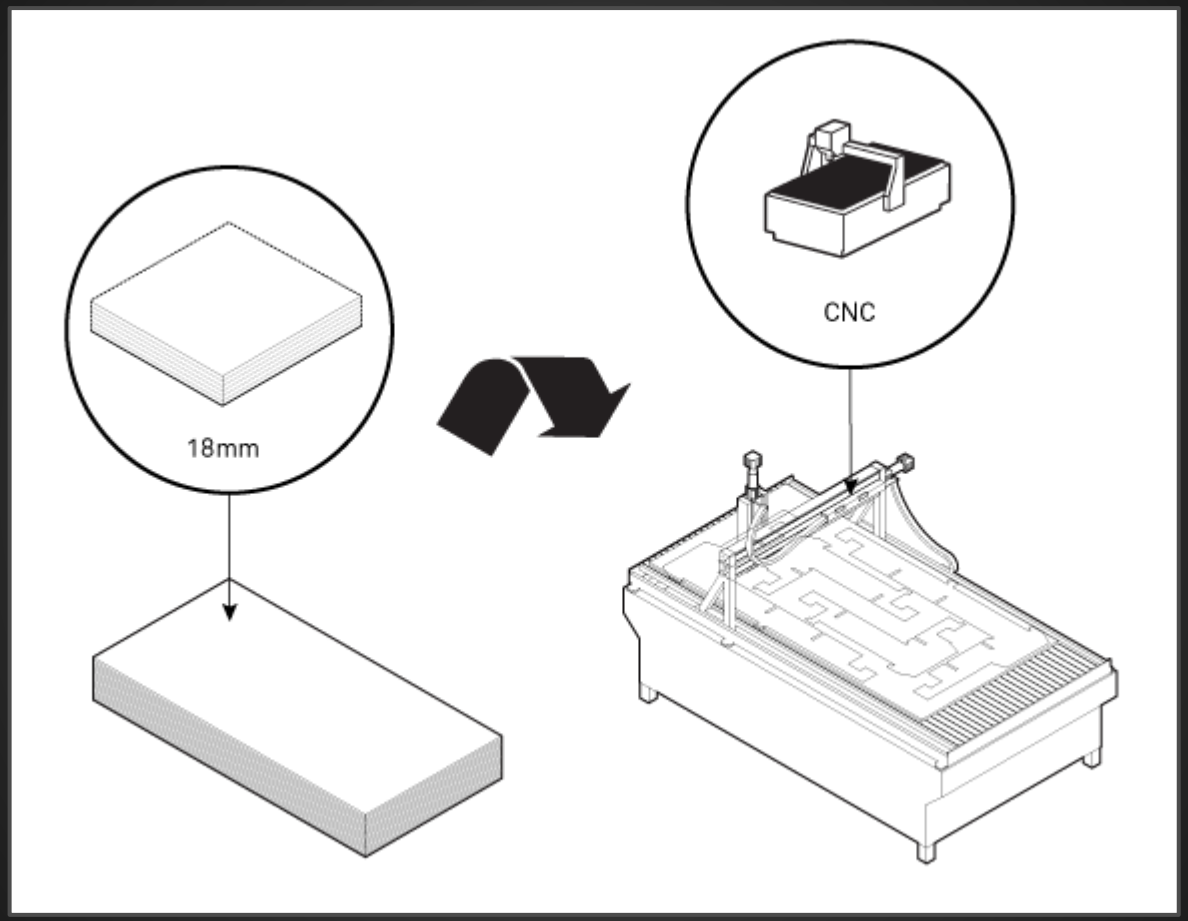

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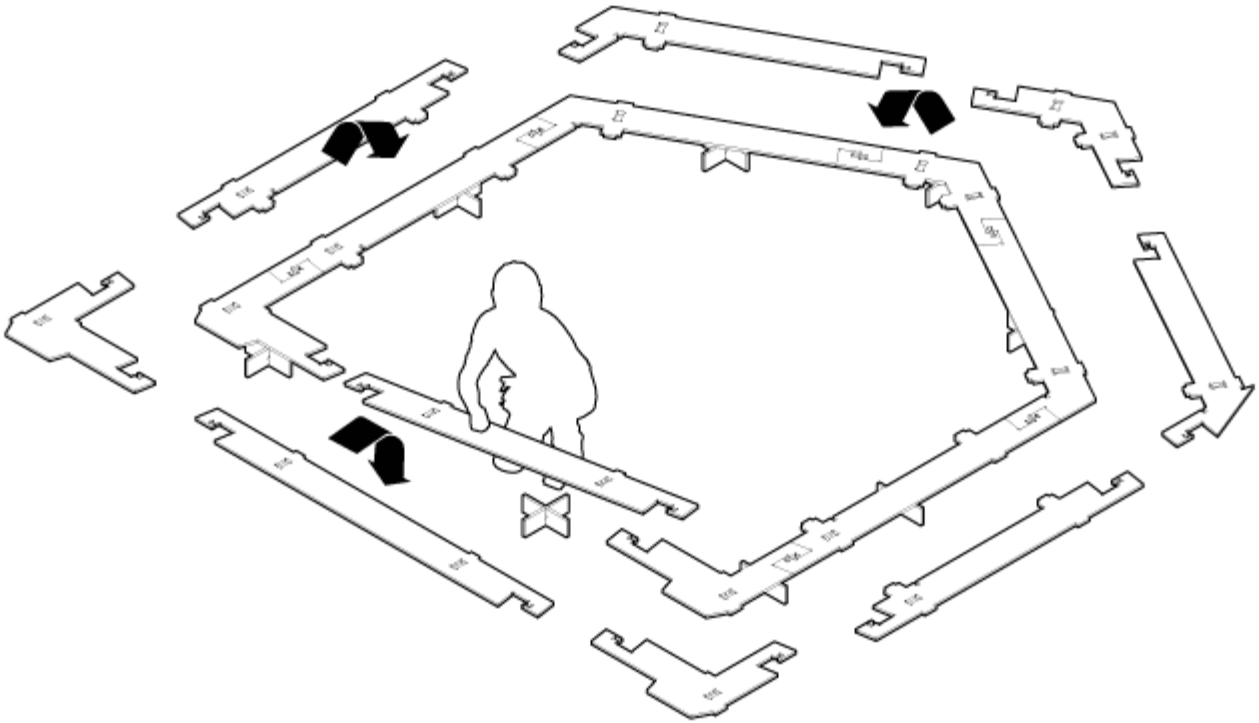

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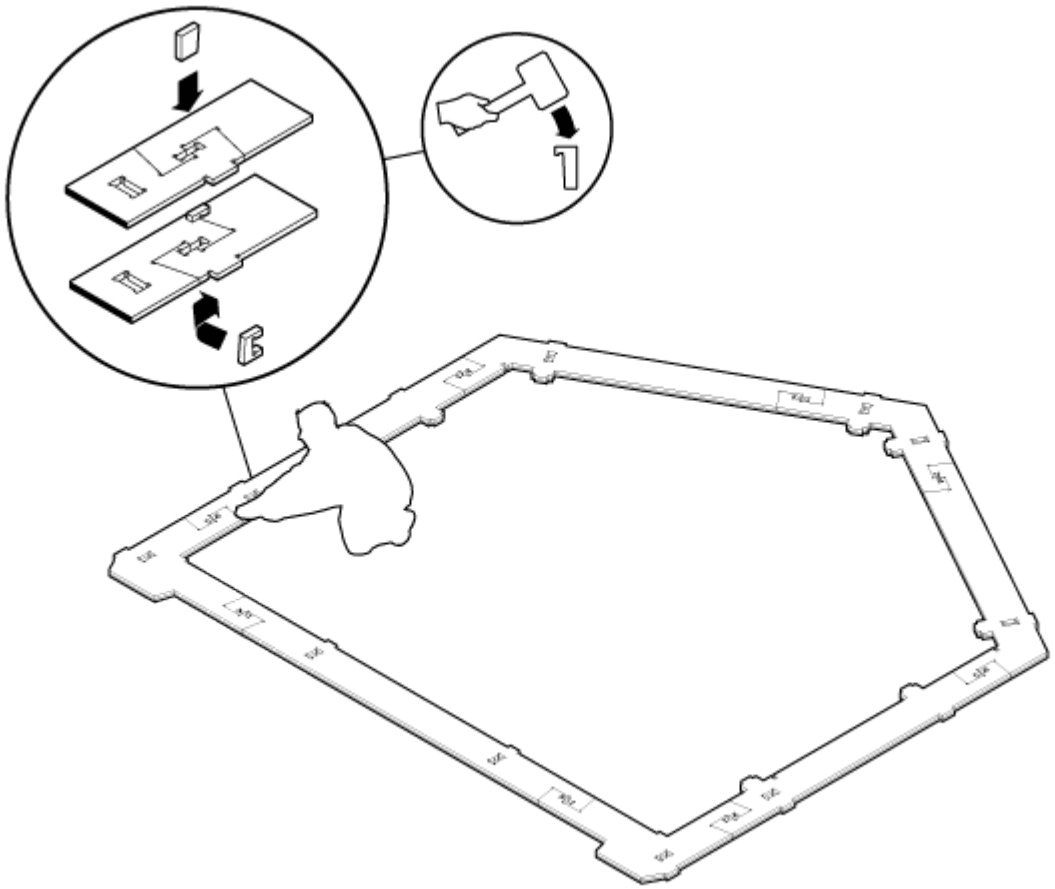

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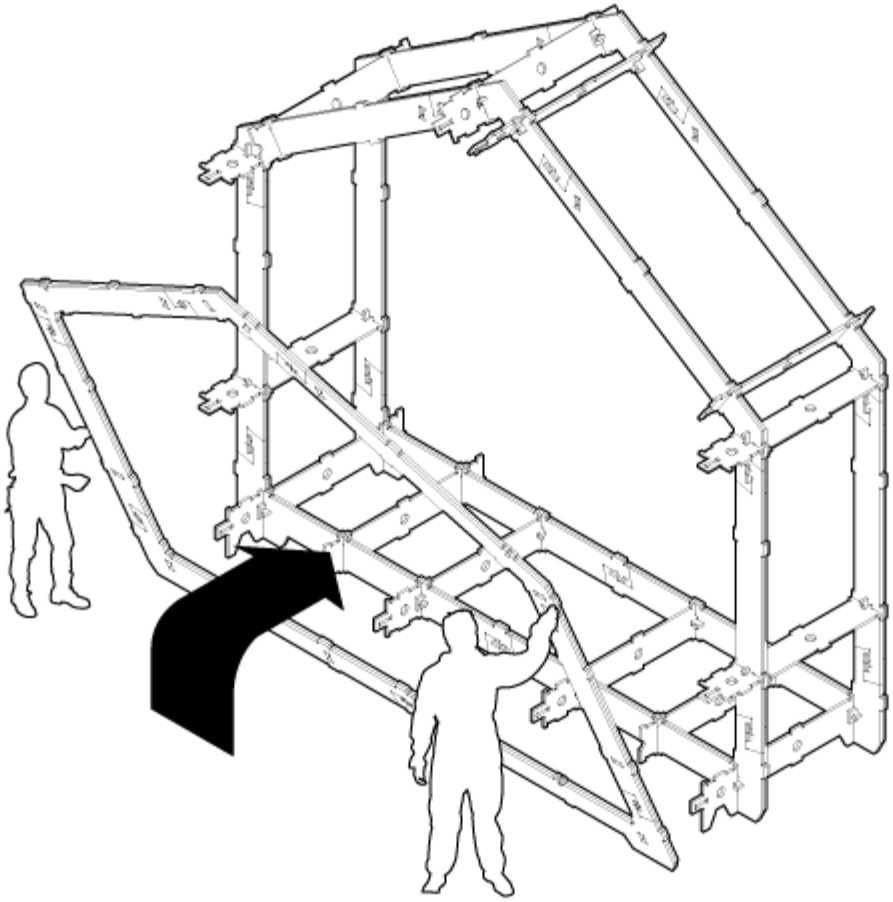

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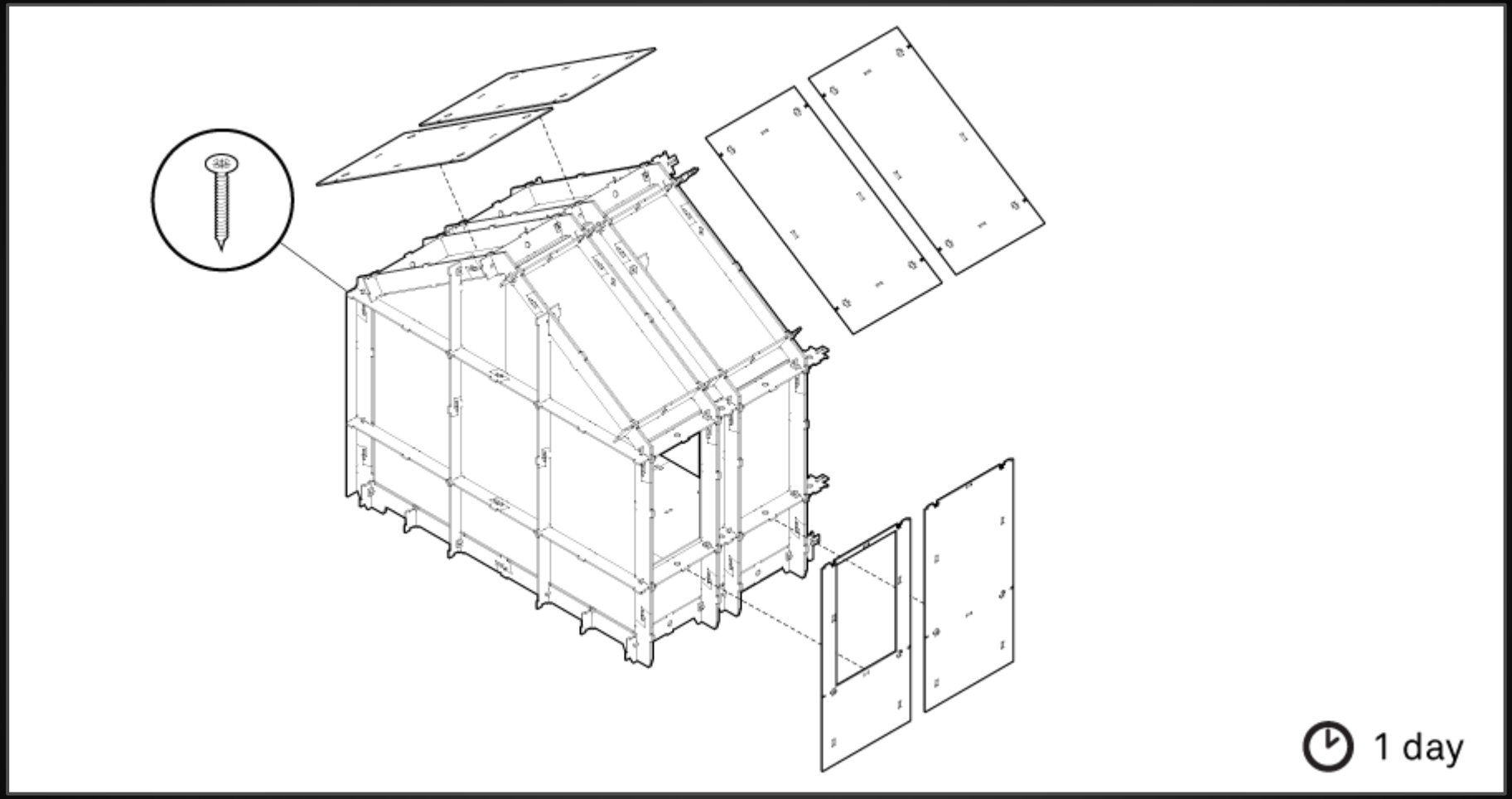

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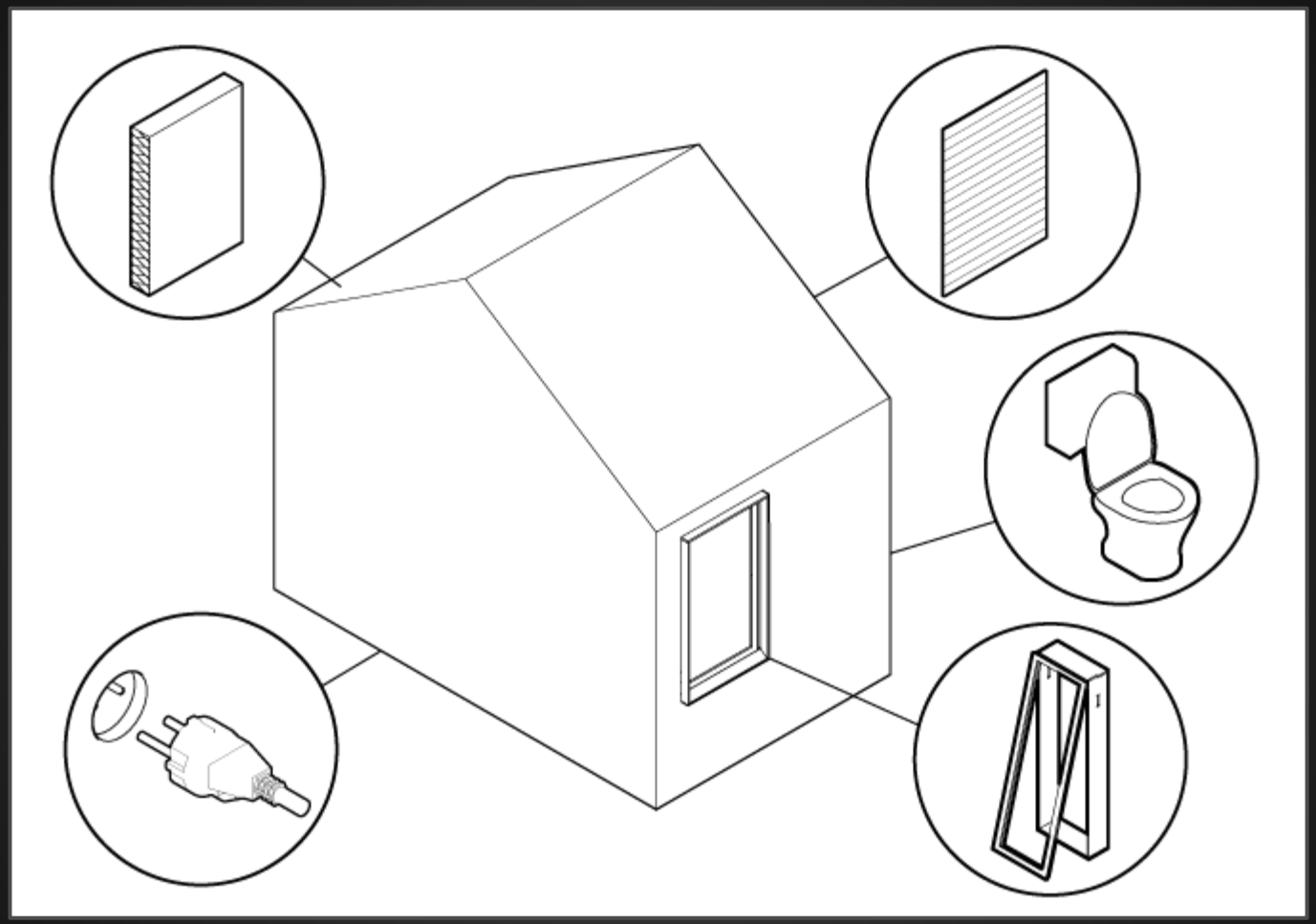

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Open-source-appropriate technology (**OSAT**) refers to "appropriate technology" (technology that is designed with **special consideration** to the **environmental**, **ethical**, **cultural**, **social, political**, and **economical aspects** of the community it is intended for) that are designed **in the same fashion as free and open-source software**; that is, developed in the open and licensed in such a way as to allow their designs to be used, modified and distributed freely.[1]

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1. Introduce yourself in **3 phrases.**

[2 mins]

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2. Share your story with Open-Source.

[10 min]

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3. How can we **share**, **collaborate** and **accelerate** low-cost space exploration in an open-source format?

[Open Brainstorming]

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Thank you! :)

a.saieed@gmail.com
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