The UC San Diego Library’s Digital Media Lab is a service-oriented center for multi-media production, located in the Geisel East Learning Commons (2nd Floor). Our mission is to provide in-demand and cutting-edge media equipment to UCSD students, staff, and faculty, regardless of academic department affiliation. We foster digital scholarship through our own services and facilities, and through partnerships with other existing campus resources.
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SERVICES
CONSULTATIONS

DML staff is happy to provide in-depth, one-on-one assistance within our lab, or on ACMS workstations in the adjacent East Learning Commons. We have the experience and resources to offer support for all media software installed on DML machines, and on a variety of general topics including:

- Media Project Planning (identifying and locating needed resources, creating outlines, scripts, storyboards)
- Presentation Design
- Infographics and Data Visualization
- Video and Sound Production/Editing
- Tech Lending Equipment Use
- 3D Printing
- 3D Modeling/Design/Animation
- Photography/Image Manipulation

Please stop by the lab or visit libraries.ucsd.edu/dml to meet our staff and schedule a personal consultation.

WORKSHOPS

DML staff offer several multi-media workshops throughout the year. Current workshop topics and schedules are listed at libraries.ucsd.edu/dml.

Send suggestions or requests for new workshop topics to DMLtech@ucsd.edu.

LYNDA.COM

The DML provides one-week license lending for lynda.com to UC San Diego faculty, staff, and students. lynda.com is an online library of over 100,000 video tutorials on software, technology, business, and creative skills, and may be accessed by licensees from any device. Ask DML staff for more information or to borrow a license.
3D PRINTING

As resources are currently very limited, we ask that users reserve time on the 3D printers through libraries.ucsd.edu/dml. A staff member will be available to help you plan, start, and monitor your print.

Prints can take hours to complete, so use MakerBot Desktop software or Cura Ultimaker software to estimate completion times and allow ample time in your reservation for set-up and troubleshooting. Please consult staff upon arrival to ensure that your print file is optimized for time and quality. All prints must be completed by the next reservation or by the DML’s closing time on the reservation day, or will be terminated mid-print (DML hours are posted on libraries.ucsd.edu/dml).

RESERVING WORKSTATIONS

To ensure that users needing DML resources are able to access them, we require that computer pods be reserved as though they were study rooms. The lab’s computers are organized into 8 pods with varied equipment builds. Reservations can be made up to 3 days in advance, and each pod can be reserved for a maximum of 4 hours per day (with possible exceptions).

If you walk in and find a workstation open, you can check the pod’s reservation status through libraries.ucsd.edu/dml.

PODS 1, 2, 3: 27” 5K IMACS

- OSX Yosemite
- 3.5 ghz i5 Processor
- 16 GB RAM
- AMD Radeon R9 M295X 4GB GDDR5
- Epson V600 Photo Scanner

POD 4: 27” 5K IMAC WITH DRAWING TABLET

- 22” Wacom Cintiq HD touch drawing tablet (pens available through LC desk)
- OSX Yosemite
- 27” 5k iMac
- 3.5 ghz i5 Processor
- 16 GB RAM
- AMD Radeon R9 M295X 4GB GDDR5
PODS 5 & 6: DELL 9020

- Windows 7
- Dual 24" monitors
- i7 Processor
- 16GB RAM
- nVIDIA GeForce GTX 745, 4GB DDR3

POD 7: 3D PRINTER WITH DELL 9200

- Makerbot 2 Replicator
- Windows 7
- i7 Processor
- 16 GB RAM
- nVIDIA GeForce GTX 745, 4GB DDR3

POD 8: 3D PRINTER WITH DELL 9200

- Ultimaker 2
- Windows 7
- i7 Processor
- 16GB RAM
- nVIDIA GeForce GTX 745, 4GB DDR3
HARDWARE
DELL DIMENSION 9200 WORKSTATIONS

This machine offers the greatest benefits to users while offering gaming, media functionality, and photo editing capabilities.

Specifications:
Intel Core 2 Duo Processor ZE6700
16GB DDR2 RAM
1TB Hard Drive
NVIDIA GeForce 7900GS Graphics Processor

The DML has two dual-screen and two single screen workstations with this hardware.

27” IMAC WITH 5K RETINA DISPLAY

The 5K Retina display offers four times more pixels than the standard 27-inch iMac, showing more amazing detail and making images look crisper and cleaner.

Specifications:
Intel Core i5 Processor
16 GB DDR3 RAM
1TB Fusion Drive
4GB AMD Radeon R9 M295X Graphics Processor
CINTIQ 22HD TOUCH

This creative pen display allows users to employ both Wacom’s pressure-sensitive pen and gestures in creating on this large-format, high-definition display.

**Specifications:**
- 21.5” Display
- 1920 x 1080 Full HD Display
- 2048 Levels Pressure Pen
- Compatible with PC and Mac

EPSON PERFECTION V600 PHOTO SCANNER

The Epson Perfection V600 Photo Scanner can be used to scan anything from photo and film to slides and documents, and everything in between. Scans are sharp and vivid reproductions.

**Specifications:**
- 6400 x 9600 dpi for enlargements up to 17” x 22”
- Built-in Transparency Unit
- Digital Ice Software for prints and film
The Ultimaker 2 is one of the first 3D printers to have a 20 micron layer resolution and a near silent operation. It features a heated print bed for more reliable prints and easy removal.

**Specifications:**
- Up to 20 microns layer resolution
- 30mm/s - 300mm/s print speed
- PLA, ABS and CPE Filament compatible
- Heated print bed up to 100°C

**CURA 3D PRINTING SOFTWARE**

Cura is an open source, advanced 3D printing software used by the Ultimaker. It is a flexible software suitable for both beginners and experts.
This Desktop 3D Printer started the 3D printing revolution. It creates professional quality, high resolution prototypes and complex models.

**Specifications:**
- Fused deposition modeling technology
- 100 microns layer resolution
- 11 (XY) and 2.5 (Z) microns positioning precision
- Wear-resistant, oil-infused bronze bearings
- Powder-coated steel chassis

**MAKERBOT MAKERWARE**

Makerware is the software that drives the Makerbot Replicator 2. It is a complete 3D printing solution that allows one to discover and manage 3D prints.
ADOBE AFTER EFFECTS CC

Adobe After Effects CC is used for cinematic visual effects and motion graphics. While it functions as a basic nonlinear editor, it focuses on features such as keying, tracking, rotoscoping, and animation.

ADOBE AUDITION CC

Adobe Audition CC is a sound editing program used for audio recording, mixing, and restoration. It includes various functions used for sound manipulation.
ADORABLE DREAMWEAVER CC

Dreamweaver is a web and mobile design software that allows one to design the user interfaces of websites and applications.

ADORABLE ILLUSTRATOR CC

Illustrator is a drawing and composition program built for the creation of vector images and illustrations. Its primary use has been for designing graphics.
ADOBE INDESIGN CC

InDesign is a program used for page designing and layouting for print and digital publishing.

ADOBE LIGHTROOM CC

Lightroom is a digital photography software created for photography enhancement through changing colors, removing distractions, straightening shots, and more.
Adobe Photoshop CC
Photoshop is a general imaging and design program used in various fields such as print and digital graphic design, illustrations, web and app design, and photography.

Adobe Premiere Pro CC
Premiere Pro is a video production and editing software that works with nonlinear video editing that allow you to incorporate transitions, manipulations, and sounds.
AUTODESK 123D CATCH

123D Catch allows users to generate 3D models of objects from photographs.

AUTODESK AUTOCAD

CAD stands for Computer-Aided Design. AutoCAD is used for 2D and 3D designing and drafting.
AUTODESK INVENTOR

Inventor is a 3D CAD software that provides digital prototyping capabilities such as 3D mechanical design, documentation, and product simulation.

AUTODESK MAYA

Maya is a software for 3D animation, modeling, simulation, rendering, and compositing.
**AUTODESK MESHMIXER**

Meshmixer is a tool for 3D mashups and remixes that allows one to design by combining two or more 3D models. It can also be used to create custom supports for models.

**BLENDER**

Blender is a 3D computer graphics software used for the creation of 3D models, interactive 3D applications, video games, animated films, and visual effects.
Camtasia Studio

Camtasia is primarily used as a screen recorder. It allows users to screencast and edit the captured video in one software.

Final Cut Pro X

Final Cut Pro is a video editing application created for Apple computers that features a magnetic timeline, various automatic fixes for video and audio defects, and a database engine.
GOOGLE SKETCHUP PRO

Sketchup’s main function is managing 3D images by allowing users to view, edit, and create models.

VLC MEDIA PLAYER

VLC Media Player is a cross-platform streaming software that supports many audio and video file compressions and file formats.
VMware View Client is a software that provides access to a virtual desktop from any location. It is used to access ACMS' Virtual Computing Labs that allow UCSD students to access University-licensed software remotely.

**Available Software through VMware:**

- Adobe Acrobat Pro
- Adobe Dreamweaver
- Adobe Flash
- Adobe Illustrator
- Adobe InDesign
- Adobe Photoshop
- Ansys
- ArcGIS
- AspenJMP
- Autodesk Product Design Suite
- Cadence OrCAD
- ChemBioOffice
- Comsol
- Creo
- DST
- Femap
- LabVIEW
- Matlab
- MestreNovaLite
- Minitab
- Parametric
- PSpice
- Python
- R
- SAP2000
- SOLIDWORKS
- Stata SE
- Statistica
- Working Model
TECH LENDING
Items located at Media Desk (Geisel 1st Floor West)
CAMERAS

NIKON D7000 DSLR

- High Resolution 16.2 MP DX-format CMOS sensor
- High Speed 6 frames per second continuous shooting up to 100 shots
- Full 1080p HD Movies with full-time autofocus
- Dynamic ISO range from 100 to 6400
- 2,016-pixel RGB (3D Color Matrix) exposure sensor

LENS KITS

SIGMA 17-50MM F/2.8 FOR NIKON
- 4 stops of Anti-shake (OS) Compensation
- Aperture of f/2.8 throughout zoom range
- Hypersonic motor for quiet/fast AF
- Multi-layered lens coating

NIKON 85MM F/1.8D
- Lens not zoomable Telephoto lens
- Rear focusing system
- High-speed f/1.8 aperture
- Compact at 13.2 ounces

NIKON 135MM F/2.0D
- Lens not zoomable Telephoto lens
- AF DC-NIKKOR 135mm 1:2D
- With Defocus Image Control
SONY HANDYCAM

Sony HDR-CX220/B high definition Handycam Camcorder with 2.7-inch LCD

SONY STILL CAMERA

Sony DSC-WX300/B 18.2 MP digital camera with 20x optical image stabilized zoom and 3-inch LCD

OTHER MEDIA TOOLS

APPLE WATCH SPORT

- 38 mm silver aluminum case with white sport band
- Ion-X glass
- Retina display with Force Touch
- Composite back
- Digital Crown
- Heart rate sensor, accelerometer, and gyroscope
- Ambient light sensor
- Speaker and microphone
- Wi-Fi (802.11b/g/n 2.4GHz)
- Bluetooth 4.0
- Up to 18 hours of battery life
- Water resistant

Requires an iPhone 5, 5c, 5s, 6, or 6 Plus and iOS 8.2 or later.
PORTABLE PROJECTOR

NEC Portable Projector

- Maximum resolution: 1600 x 1200
- Contrast ratio: 3000:1
- Standard mode brightness: 3100 lm
- Eco modes
- Input/output terminals: HDMI, VGA, RCA, S-Video, 1/8 in. Stereo

ROKU 3

Roku streaming player 3 with YouTube and Netflix compatibility

32GB SD CARD

Sony 32GB SDHC Class 10 UHS-1 R40 memory card

PRESENTATION REMOTE

Logitech Wireless Presenter R400

PORTABLE BLU RAY DRIVE

Pioneer Slim External Blu-Ray Writer
CHARGERS, CABLES, AND VIDEO ADAPTERS

Legend:

- HDMI
- Mini HDMI
- VGA
- Thunderbolt (Mini DisplayPort)
- DisplayPort
- USB
- Mini USB
- Micro USB
- Apple Lightning (iPhone 5 onwards)
- Apple 30-Pin (iPhone 4s & earlier)

APPLE LIGHTNING CHARGER

APPLE 30 PIN CHARGER

MACBOOK MAGSAFE CHARGER

MACBOOK MAGSAFE 2 CHARGER
USB TO POWER OUTLET

MICRO-USB BATTERY PACK

USB TO MINI-USB

“SQUID” MULTICHARGER

PC LAPTOP MULTICHARGER

MICRO-USB CHARGER

* Apple 30-Pin, Micro USB, and Lightning to USB
SD CARD ADAPTER

DisplayPort to HDMi

THUNDERBOLT TO VGA

* Compatible with SD, Mini SD, and Micro SD

DISPLAYPORT TO THUNDERBOLT

THUNDERBOLT TO HDMI

HDMI TO MINI-HDMI

DISPLAYPORT TO HDMI
VGA TO HDMI

6FT HDMI CABLE

HDMI TO DISPLAYPORT

PRODUCTIVITY ITEMS

MICROPHONE HEADSETS

HEADPHONES
GRAPHING CALCULATOR

SCIENTIFIC CALCULATOR

SIMPLE CALCULATOR

GPS

16GB FLASH DRIVE

USB HUB

*Photos courtesy of Amazon