music 174a - winter2021

recording 1 - tracking, editing, home recording, collaborations

week one b

music 174a - week one - organization

- groups: on campus, off campus, time zones

- equipment checkout for san diego people

- 8 audio interfaces

- 1 microphone per person

- assignment one

- <u>survey on canvas</u>: what music you make, what instruments you play, etc.

music 174a - week one - recording process

- planning

- tracking

- editing

- mixing

- mastering

- release

music 174a - week one - assignment 1

- Create a ProTools, Logic or Live Session at 44.1k, 24 bits, WAV files
- Create 2 tracks
- Name the tracks
- Record spoken audio into each mono track (a dialog between the 2 tracks)
- Use close miking for one track, distant for the other.
- Try to make both sound good.
- Mix and export/render/bounce the audio from the 2 tracks
- Save the session with a name in this format: Last Name-Assignment1
- Upload the session and the bounced mix to UCSD google drive
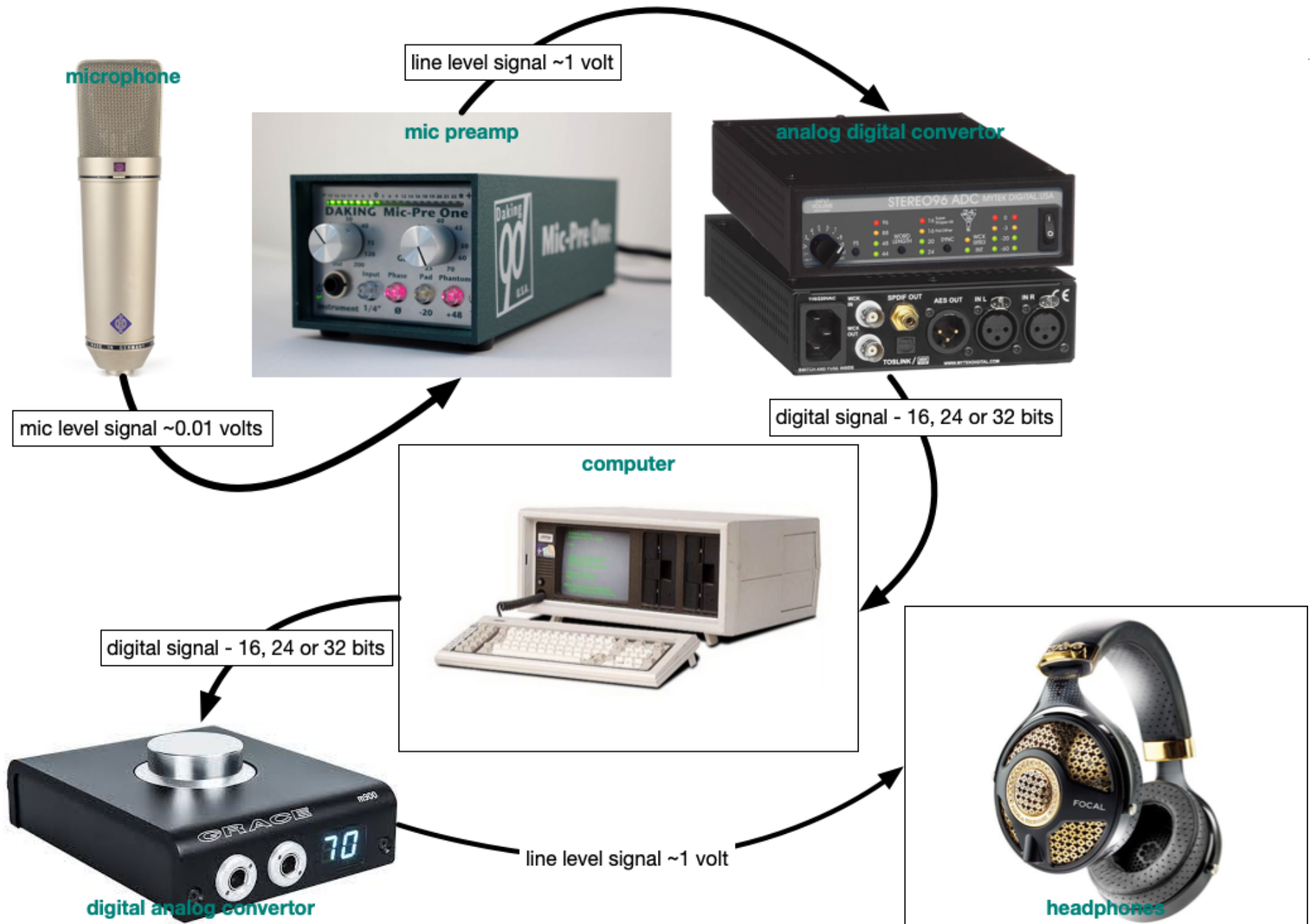- Document your microphone type and location.

music 174a - week one - recording types

- live recording (studio or concert hall)

- live recording with edits

- recording with acoustic separation

- overdub recording

music 174a - week one - recording setup

microphone

mic preamp

analog digital convertor

line level signal ~1 volt

mic level signal ~0.01 volts

digital signal - 16, 24 or 32 bits

computer

digital signal - 16, 24 or 32 bits

digital analog convertor

line level signal ~1 volt

headphones

music 174a - week one - recording setup

- microphone - microphones (stands, cables)

- ADC, DAC, mic preamplifier - all part of an audio interface

- instrument inputs - direct boxes - modelers

- computer - fast enough - enough drive space

- headphones - overear? closed? open?

- speakers

music 174a - week one - connectors

- XLR/Cannon for mic, balanced line and AES/EBU

- 1/4" TRS for balanced line and headphones

- 1/4" TS for unbalanced line and instrument

- RCA - Pin for unbalanced consumer and S/PDIF

- 1/8" for unbalanced stereo consumer

- TOS - for S/PDIF and ADAT

- Balanced vs. unbalanced

ADAT	Fire-Wire	USB	S/PDIF-RCA	XLR	BNC	TS	TRS	RCA	MIDI
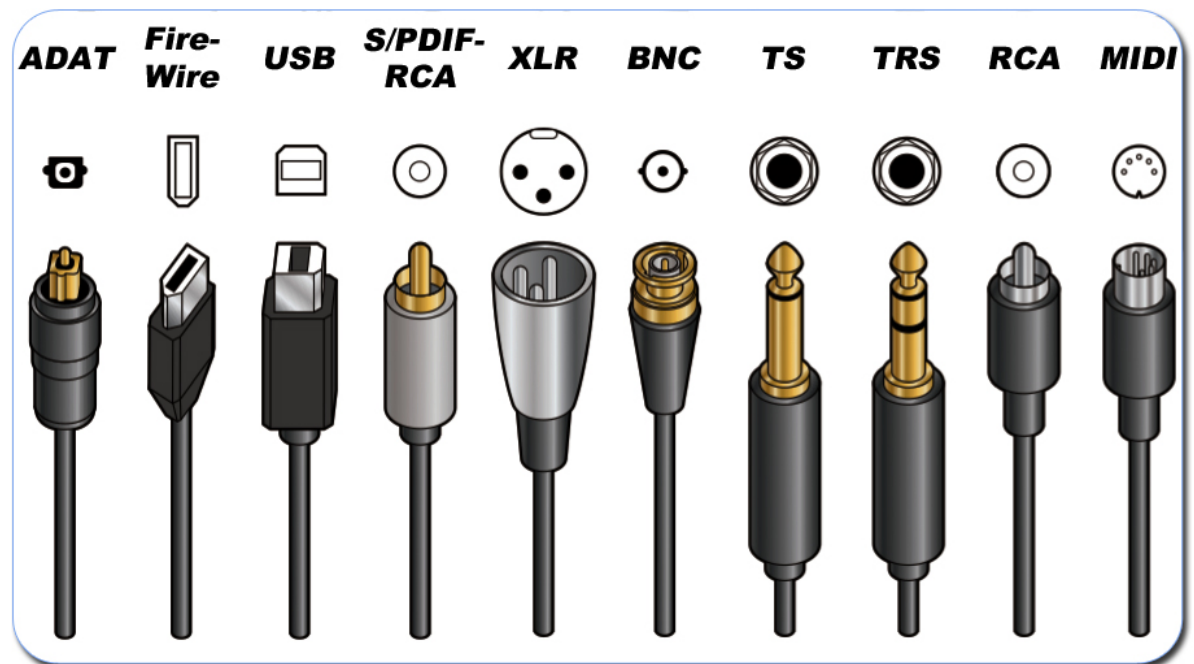
music 174a - week two - tues. studio demo