

Project 3: The Crucible

EVERYTHING
HURTS
AND I'M
DYING

"I'll never be nice again" - Chaja on Discord

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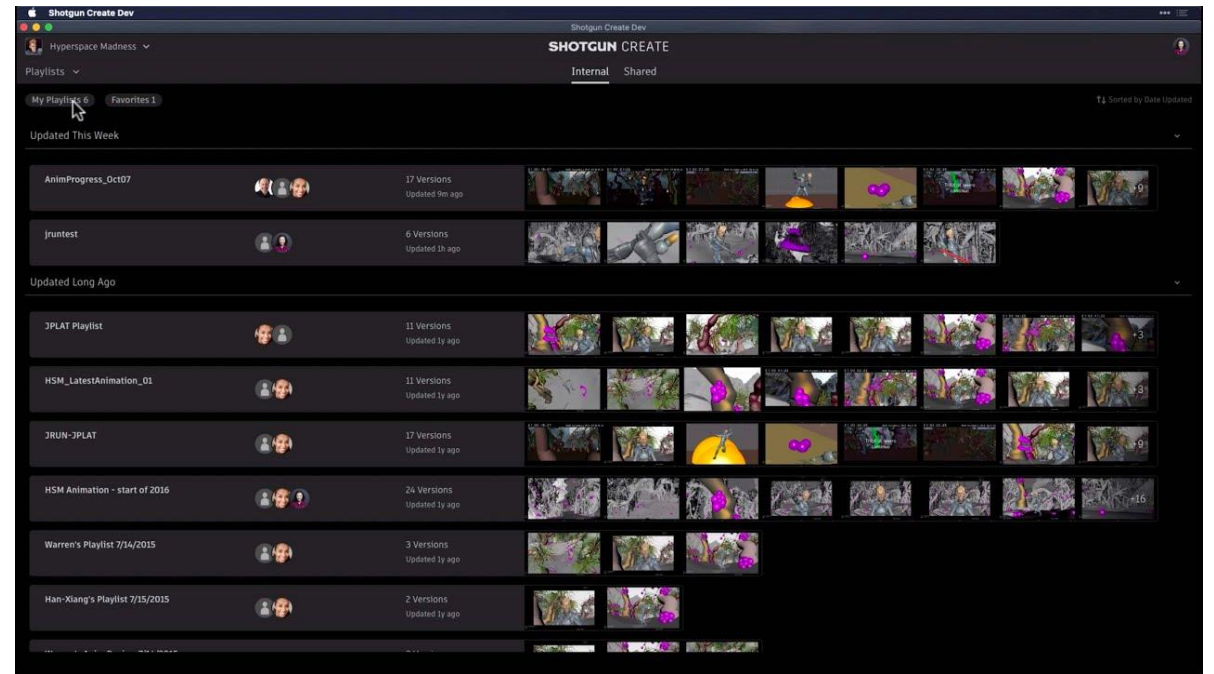
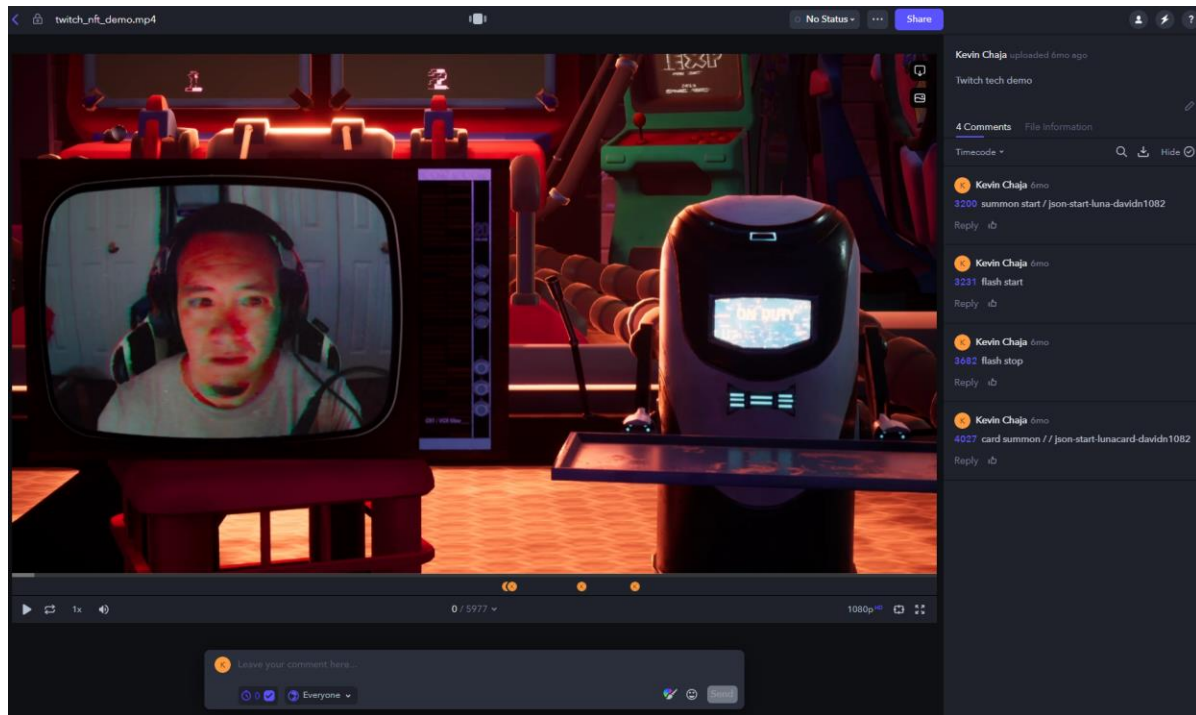
The Problem: Proj1 now needs to be upgraded to account the actual marked shots in a CMS system. This is needed for editorial/reviews/etc.

Specific Problem: Reviews need to now visualize and see those marks and be able to comment on them

Student KPI (Key performance Indicator): if you can do this project, you can do any intern/junior level job in M&E as this project has all three elements (VP, Gaming, VFX) workflows embedded

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CMS companies: Frame.io and Shotgrid



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Solve:

1. Reuse Proj 1
2. Add argparse to input baselight file (--baselight), xytech (--xytech) from proj1
3. Populate new database with 2 collections: One for Baselight (Folder/Frames) and Xytech (Workorder/Location)
4. Download my amazing VP video, <https://mycsun.box.com/s/v55rwqlu5ufuc8l51or8nniodzq5qki7>
5. Run script with new argparse command --process <video file>
6. From (5) Call the populated database from (3), find all ranges only that fall in the length of video from (4)

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7. Using ffmpeg or 3rd party tool of your choice, to extract timecode from video and write your own timecode method to convert marks to timecode
8. New argparse --output parameter for XLS with flag from (5) should export same CSV export as proj 1 (matching xytech/baselight locations), but in XLS with new column from files found from (6) and export their timecode ranges as well
9. Create Thumbnail (96x74) from each entry in (6), but middle most frame or closest to. Add to XLS file to it's corresponding range in new column
10. Render out each shot from (6) using (7) and upload them using API to frame.io (<https://developer.frame.io/api/reference/>)

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Deliverables

1. Copy/Paste code
2. Excel file with new columns noted on Solve (8) and (9)
3. Screenshot of Frame.io account (10)

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Grading

10 argparse and all new commands

5 Read DB from proj1

5 Reuse proj1

20 Timecode work from video and marks

30 XLS output / Correct XLS info location/frame ranges/TC ranges/thumbnail

30 Frame.io Upload

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FFMPEG

"Free software for handling and manipulating media files"
(will use more next week on VFX lesson)

Installation:

<https://ottverse.com/what-is-ffmpeg-installation-use-cases/>

Pulling Timecode: <https://ffmpeg.org/ffprobe.html>

Helpful Use Cases:

<https://ostechnix.com/20-ffmpeg-commands-beginners/>

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TimeCode

1000 frames at 24fps

00:00:41:16

