



Canadian Research
Knowledge Network

Réseau canadien
de documentation
pour la recherche

2020

CRKN Virtual Conference



NAC@50+

Accessing a National
Historic Site during
COVID-19

2020 CRKN Virtual Conference





Overview

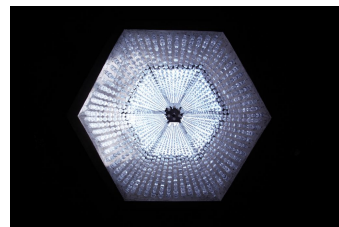
Intro to NAC@50+

Archival Research & Storylines

Documentation - Accessing a Site during COVID-19

Visual Development & Production





Using the *National Arts Centre* as a case study, how can we redefine the meaning of a *National Historic Site* in the digital age of 2020?

Final product

1. Web platform
2. Interactive database
3. Immersive storytelling experience

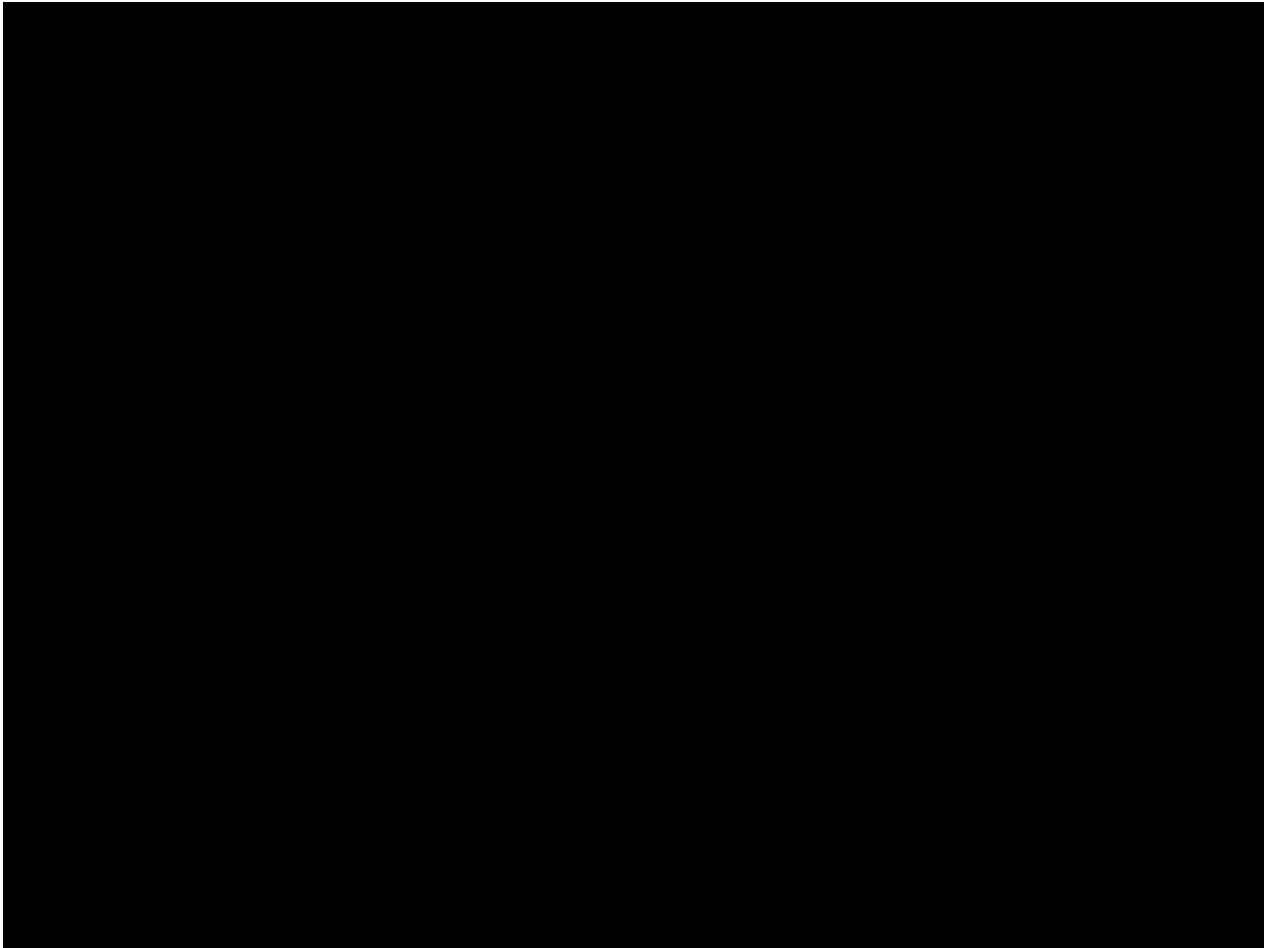
Research component

1. NAC archival research
2. Oral histories
3. National Historic Site designation

Project Timeline



Archival Research





Fourth Annual Report
National Arts Centre Corporation
1970-1971

"The objectives of the Corporation are to operate and maintain the Centre, to develop the performing arts in the National Capital Region and to assist the Canada Council in the development of the performing arts elsewhere in Canada."
National Arts Centre Act

30 June 1971

Honourable Gérard Pelletier, P.C., M.P.
Secretary of State for Canada

Sir:

I have the honour to transmit herewith, for submission to Parliament, the fourth Annual Report of the National Arts

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Programming
General 2
Music, Opera and Dance 3
English Theatre 4



scène

STUDIO

JULY/JUILLET, 1969

National
Arts
Centre

Centre
national
des Arts

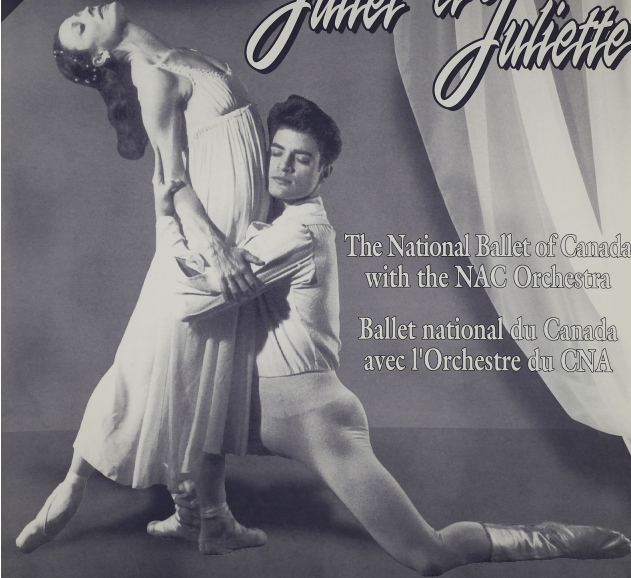


New
Nouvelle
Production

Romeo & Juliet Roméo et Juliette

The National Ballet of Canada
with the NAC Orchestra

Ballet national du Canada
avec l'Orchestre du CNA



October 20-22 octobre
NAC Opera/Opéra du CNA
20:00



NATIONAL ARTS CENTRE
CENTRE NATIONAL DES ARTS



Television
Ottawa

755-1111



NAC@50_CURE-Protocol-Form July31 update

Home Insert Design Layout References Mailings Review View Table Design Layout

Spelling & Grammar Thesaurus Word Count Check Accessibility Translate Language New Comment Delete Resolve Previous Next Track Changes Markup Options Reviewing Accept Reject Previous Change Next Change Compare Block Authors Protect Document Always Open Read-Only Hide Ink Resume Assistant

Form Version: April 2019 7/14

6C Third Parties in Recruitment If using third parties to recruit, indicate who is doing the recruitment and how it will be accomplished. Does the third party have the prospective participant contact information? Are community leaders involved in identifying potential participants? (Detailed instructions, Example)

☐ Not applicable

Some recruitment may involve working through SATSE Local 671. The email document attached to this application will be the third party contact information distributed to organizations and unions.

6D Recruitment risks to Participants Describe any risks to participants during the recruitment phase, including risks to privacy. (Detailed instructions, Example)

☐ No risks

Participants may feel less inclined to participate if contacted out of the blue. The research team will ensure to inform the participant of the entire breadth of the project, and that the decision to participate is entirely theirs.

Form Version: April 2019 8/14

7C Debriefing Describe if, when, and how participants will be debriefed. (Include a copy of any documents that will be provided to participants). Describe any risks during debriefing and how they will be mitigated. (Detailed instructions, Example)

☐ Full Disclosure (i.e. no deception)

☐ Partial Disclosure

☐ Mild Deception

☐ More than Mild Deception

what information is withheld). Describe the magnitude and likelihood of harm due to deception. Describe any planned secondary consent and include forms or text. (Detailed instructions, Example)

The interview will be conducted under full disclosure of the project and the use of the interview as oral history.

7D Withdrawal Procedures Describe the procedures for a participant to withdraw. What will happen to data from participants who withdraw? Describe any deadlines and limitations on withdrawal, during the study or after

☐ Not applicable

☐ Participants can withdraw

Form Version: April 2019 8/14

B. Methods: Data Collection

8A Data Collection Methods Describe in detail the method of data collection being used and provide details of any instruments used. Breakdown by phases, participant groups, or types if required. Complete the section on "online data collection" if relevant. (Fully describe or include a copy of any questionnaires, surveys, interview guides, or other data collection instruments). (Detailed instructions, Example)

☐ Questionnaires / Surveys

☒ Interviews

☐ Focus Groups

☐ Oral and/or Visual Stimuli

☐ Equipment and/or software testing

☐ Other

research participation is complete. Explain if compensation amount is affected by withdrawal. (Detailed instructions, Example)

Participants may withdraw, anytime during the interview or up to 6 months after the day of completion (to ensure there is enough time to adjust the final product). Digital data will be destroyed and any physical copies will be properly disposed of. At any point the participant may ask to witness their portrayal in the final product.

If given consent, the participant will be interviewed online via Zoom with both the audio and video recorded. Researchers will be taking notes as the interview progresses to capture ideas and thoughts tangential to what's being said.

8B Location of Participant Interactions Where will the research procedures involving participants take place? (Detailed instructions, Example)

☐ Carleton

☐ Workplace

☐ Public venue

☒ Online

☐ Outside Canada

☐ Other

If given consent to an interview, the research procedures will take place online. Any individuals who are seen on film that are not part of the interview will be properly blurred and disclosed. As it is online, it is likely that the participant will be recorded in their home or office.

8C Frequency and Duration of Participant Interactions How many times will you interact with participants? How long will each interaction take? (Detailed instructions, Example)

For the initial interview they will have the choice of doing a 30 minute or one hour session. Additional follow-up interactions will be scheduled as requested by the participant to showcase how the data is being interpreted.

Form Version: April 2019 8/14

8E Translation or Transcription If you require the services of a translator or transcriber, describe what services you will use and how you will interact with the translator and/or transcriber. If a confidentiality agreement will be used, include a copy. (Detailed instructions, Example)

☐ Not applicable

☐ Translation

☒ Transcription

☐ Researcher will translate or transcribe

If the participant is comfortable speaking in English or French, the appropriate researcher will transcribe the recorded audio into written format and interview the participant in their language of choice. If the participant speaks in another language, we will consult with Carleton's School of Linguistics and Language Studies for the best approach on translation and who we should contact for the specific language.

8F Online data collection Describe the software platform used for online data collection, and the security of data storage. Where will data be stored? Will participant IP addresses be recorded? Are there any special limitations on privacy? (Detailed instructions, Example)

☐ Not applicable

☒ Carleton-based server

☐ Commercial server (based in Canada)

☐ Commercial server (outside Canada)

☐ Other

All data will be stored on the server at Carleton Immersive Media Studio. The final product will be hosted on the National Arts Centre server.

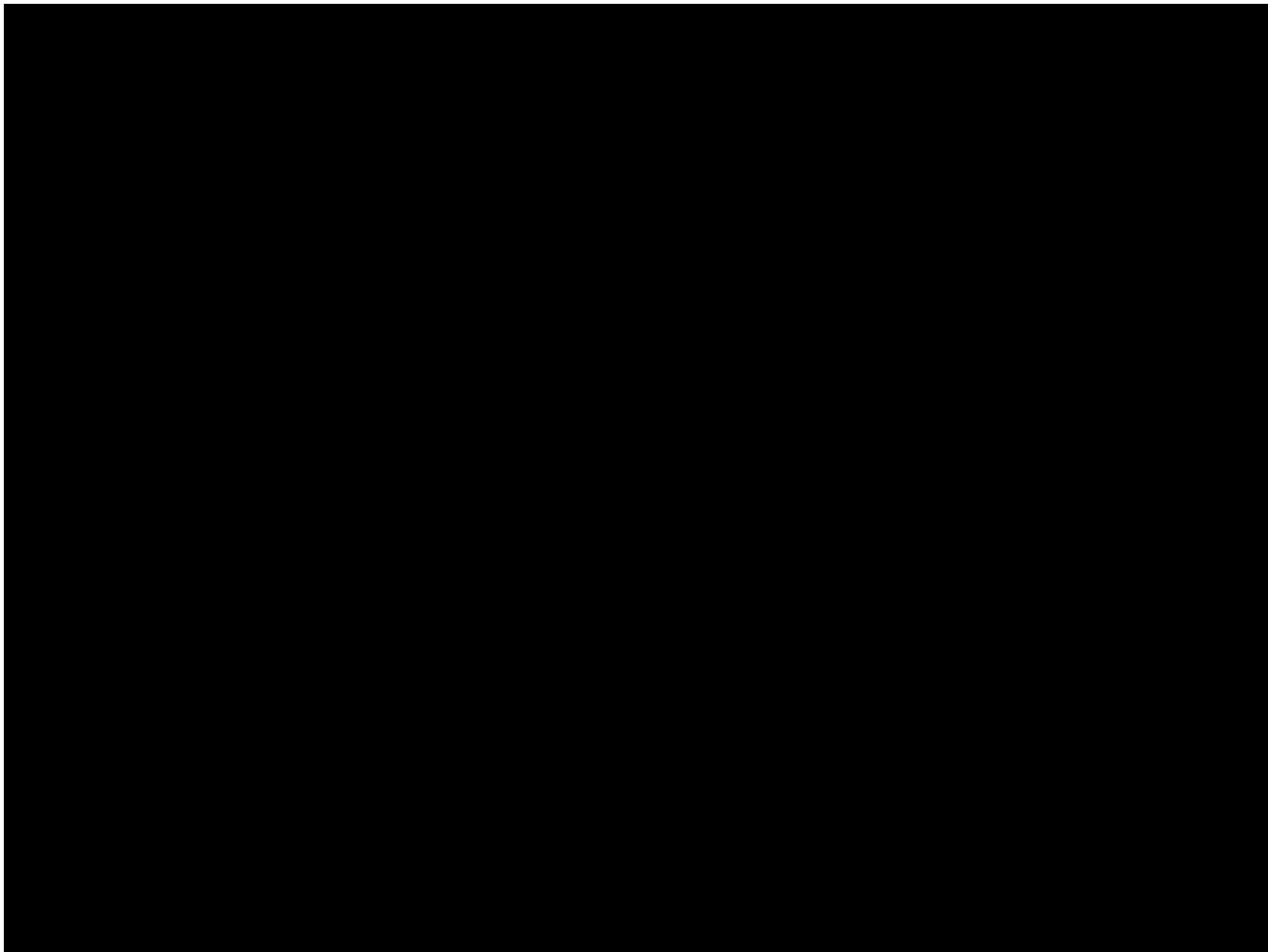
8G Biological specimens or fluids Describe the apparatus and methods to collect biological specimens or fluids (e.g., blood, saliva, tissue samples). How will specimens be stored? If any will be retained or transferred to another institution/research group, explain the research purpose, and plans for eventual destruction, if any. (Detailed instructions, Example)

☒ Not applicable

8H Biological or physical Describe any drugs, devices or diagnostic apparatus being studied

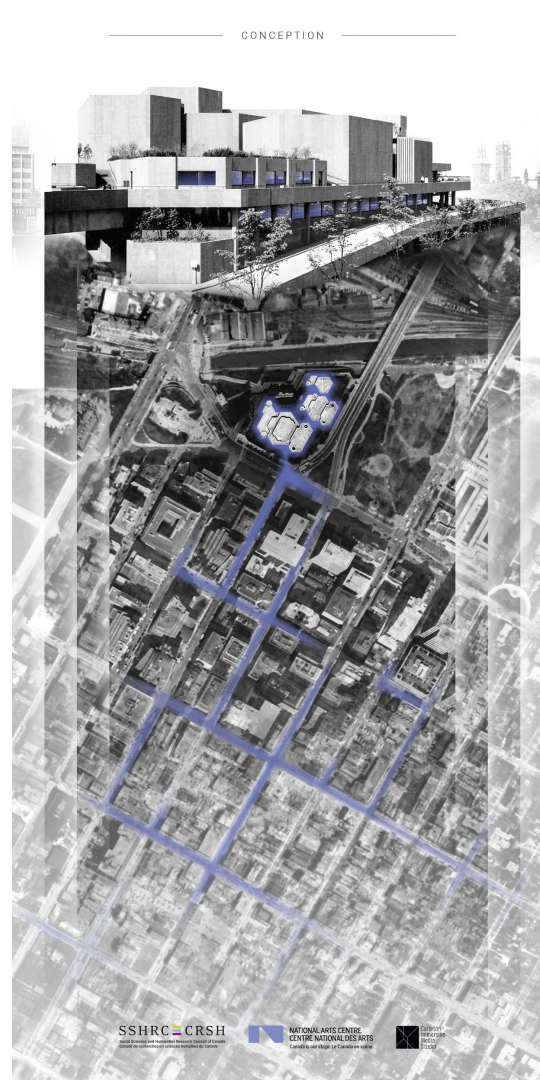
Page 5 of 14 5141 words English (Canada)

Narrative Outlines (WIP)



Narrative 1

Conceptualization



Conceptualization

Conceptualization

Visualizing Canada's Cultural Identity

Conceptualization

Visualizing Canada's Cultural Identity

- a. Conception – Emergence of the Massey Report (1949)

Conceptualization

Visualizing Canada's Cultural Identity

- a. Conception – Emergence of the Massey Report (1949)
- b. Creating a National Centre for the Arts (1963)

Conceptualization

Visualizing Canada's Cultural Identity

- a. Conception – Emergence of the Massey Report (1949)
- b. Creating a National Centre for the Arts (1963)

Establishing a 'Cultured' Capital

Conceptualization

Visualizing Canada's Cultural Identity

- a. Conception – Emergence of the Massey Report (1949)
- b. Creating a National Centre for the Arts (1963)

Establishing a 'Cultured' Capital

- a. Re-imagining Canada's Capital

Conceptualization

Visualizing Canada's Cultural Identity

- a. Conception – Emergence of the Massey Report (1949)
- b. Creating a National Centre for the Arts (1963)

Establishing a 'Cultured' Capital

- a. Re-imagining Canada's Capital
- b. Construction & Criticism

Conceptualization

Visualizing Canada's Cultural Identity

- a. Conception – Emergence of the Massey Report (1949)
- b. Creating a National Centre for the Arts (1963)

Establishing a 'Cultured' Capital

- a. Re-imagining Canada's Capital
- b. Construction & Criticism
- c. Modernizing Ottawa's National Landscape

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- a. Conception – Emergence of the Massey Report (1949)
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Establishing a 'Cultured' Capital

- a. Re-imagining Canada's Capital
- b. Construction & Criticism
- c. Modernizing Ottawa's National Landscape

Setting the National Stage

Conceptualization

Visualizing Canada's Cultural Identity

- a. Conception – Emergence of the Massey Report (1949)
- b. Creating a National Centre for the Arts (1963)

Establishing a 'Cultured' Capital

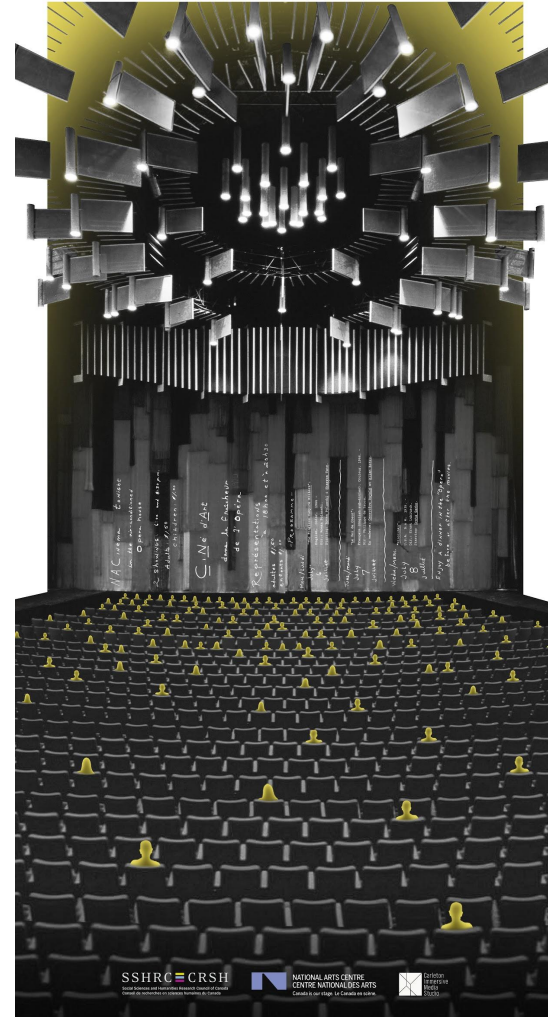
- a. Re-imagining Canada's Capital
- b. Construction & Criticism
- c. Modernizing Ottawa's National Landscape

Setting the National Stage

- a. Grand Opening

Narrative 2

Embodiment / Disembodiment



Embodiment / Disembodiment

Embodiment / Disembodiment

1970's - Initial Reception

Embodiment / Disembodiment

1970's - Initial Reception

- a. NAC's Rocky Start

Embodiment / Disembodiment

1970's - Initial Reception

- a. NAC's Rocky Start
- b. Fulfilling the 'National' role

Embodiment / Disembodiment

1970's - Initial Reception

- a. NAC's Rocky Start
- b. Fulfilling the 'National' role
- c. Engaging Canada's Arts Scene

Embodiment / Disembodiment

1970's - Initial Reception

- a. NAC's Rocky Start
- b. Fulfilling the 'National' role
- c. Engaging Canada's Arts Scene

1980's - National Shift & National Scrutiny

Embodiment / Disembodiment

1970's - Initial Reception

- a. NAC's Rocky Start
- b. Fulfilling the 'National' role
- c. Engaging Canada's Arts Scene

1980's - National Shift & National Scrutiny

- a. Applebaum-Hebert Report vs. the NAC

Embodiment / Disembodiment

1970's - Initial Reception

- a. NAC's Rocky Start
- b. Fulfilling the 'National' role
- c. Engaging Canada's Arts Scene

1980's - National Shift & National Scrutiny

- a. Applebaum-Hebert Report vs. the NAC
- b. The Double Standard of the Double Mandate

Embodiment / Disembodiment

1970's - Initial Reception

- a. NAC's Rocky Start
- b. Fulfilling the 'National' role
- c. Engaging Canada's Arts Scene

1980's - National Shift & National Scrutiny

- a. Applebaum-Hebert Report vs. the NAC
- b. The Double Standard of the Double Mandate
- c. Task Force on the NAC - a second assessment

Embodiment / Disembodiment

1970's - Initial Reception

- a. NAC's Rocky Start
- b. Fulfilling the 'National' role
- c. Engaging Canada's Arts Scene

1980's - National Shift & National Scrutiny

- a. Applebaum-Hebert Report vs. the NAC
- b. The Double Standard of the Double Mandate
- c. Task Force on the NAC - a second assessment

1990's - Final Turning Point

Embodiment / Disembodiment

1970's - Initial Reception

- a. NAC's Rocky Start
- b. Fulfilling the 'National' role
- c. Engaging Canada's Arts Scene

1980's - National Shift & National Scrutiny

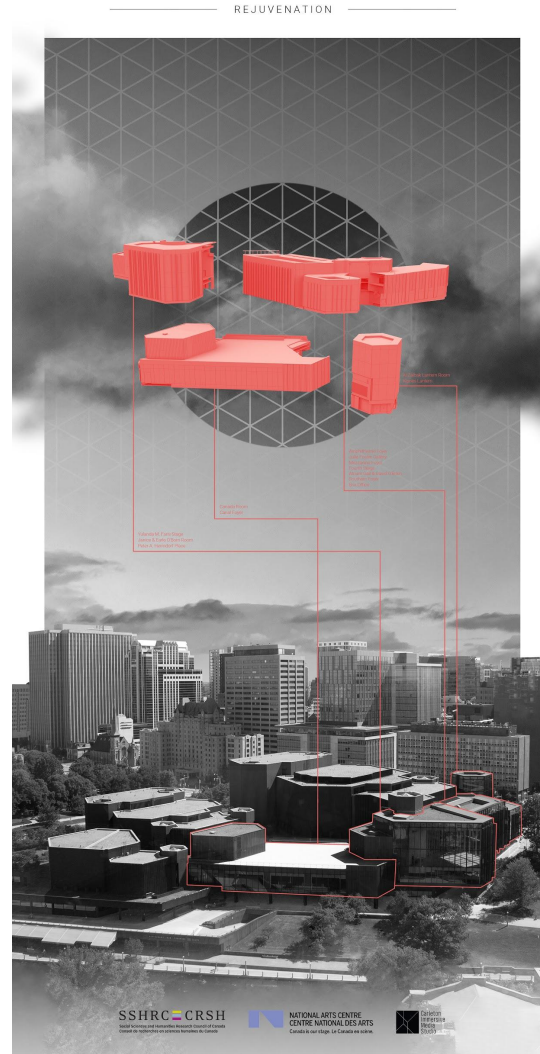
- a. Applebaum-Hebert Report vs. the NAC
- b. The Double Standard of the Double Mandate
- c. Task Force on the NAC - a second assessment

1990's - Final Turning Point

- a. NAC's journey towards self-sustainability

Narrative 3

Rejuvenation



Rejuvenation

Rejuvenation

2000's - Restoring the Vision

Rejuvenation

2000's - Restoring the Vision

- a. A Return to the 'National'

Rejuvenation

2000's - Restoring the Vision

- a. A Return to the 'National'
- b. Commitment to Youth

Rejuvenation

2000's - Restoring the Vision

- a. A Return to the 'National'
- b. Commitment to Youth

2010's - Canada is our stage

Rejuvenation

2000's - Restoring the Vision

- a. A Return to the 'National'
- b. Commitment to Youth

2010's - Canada is our stage

- a. Breaking Down the Brutalist Exterior

Rejuvenation

2000's - Restoring the Vision

- a. A Return to the 'National'
- b. Commitment to Youth

2010's - Canada is our stage

- a. Breaking Down the Brutalist Exterior
- b. Creating a Shared Public Space

Rejuvenation

2000's - Restoring the Vision

- a. A Return to the 'National'
- b. Commitment to Youth

2010's - Canada is our stage

- a. Breaking Down the Brutalist Exterior
- b. Creating a Shared Public Space

2020+ - Digital Future

Rejuvenation

2000's - Restoring the Vision

- a. A Return to the 'National'
- b. Commitment to Youth

2010's - Canada is our stage

- a. Breaking Down the Brutalist Exterior
- b. Creating a Shared Public Space

2020+ - Digital Future

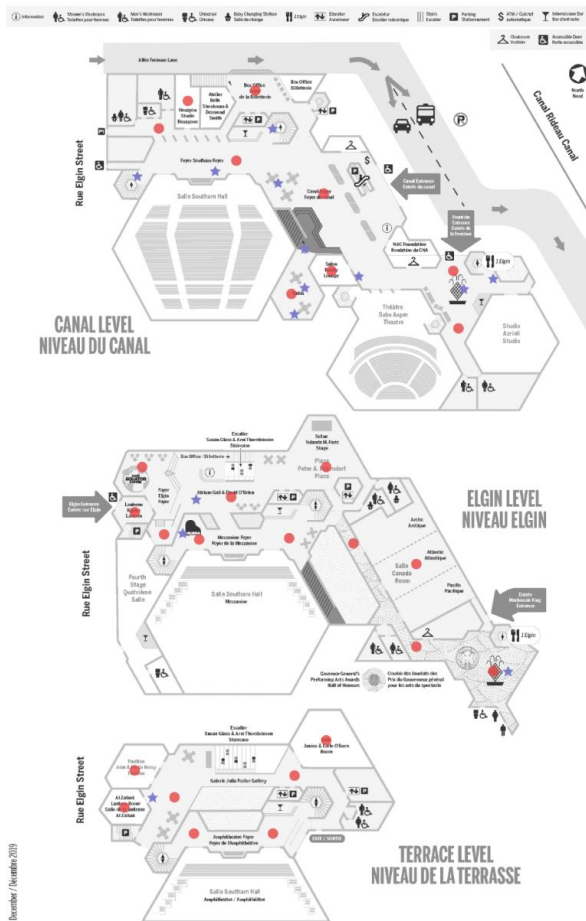
- a. Digital Technologies & New Ways of Accessing Heritage

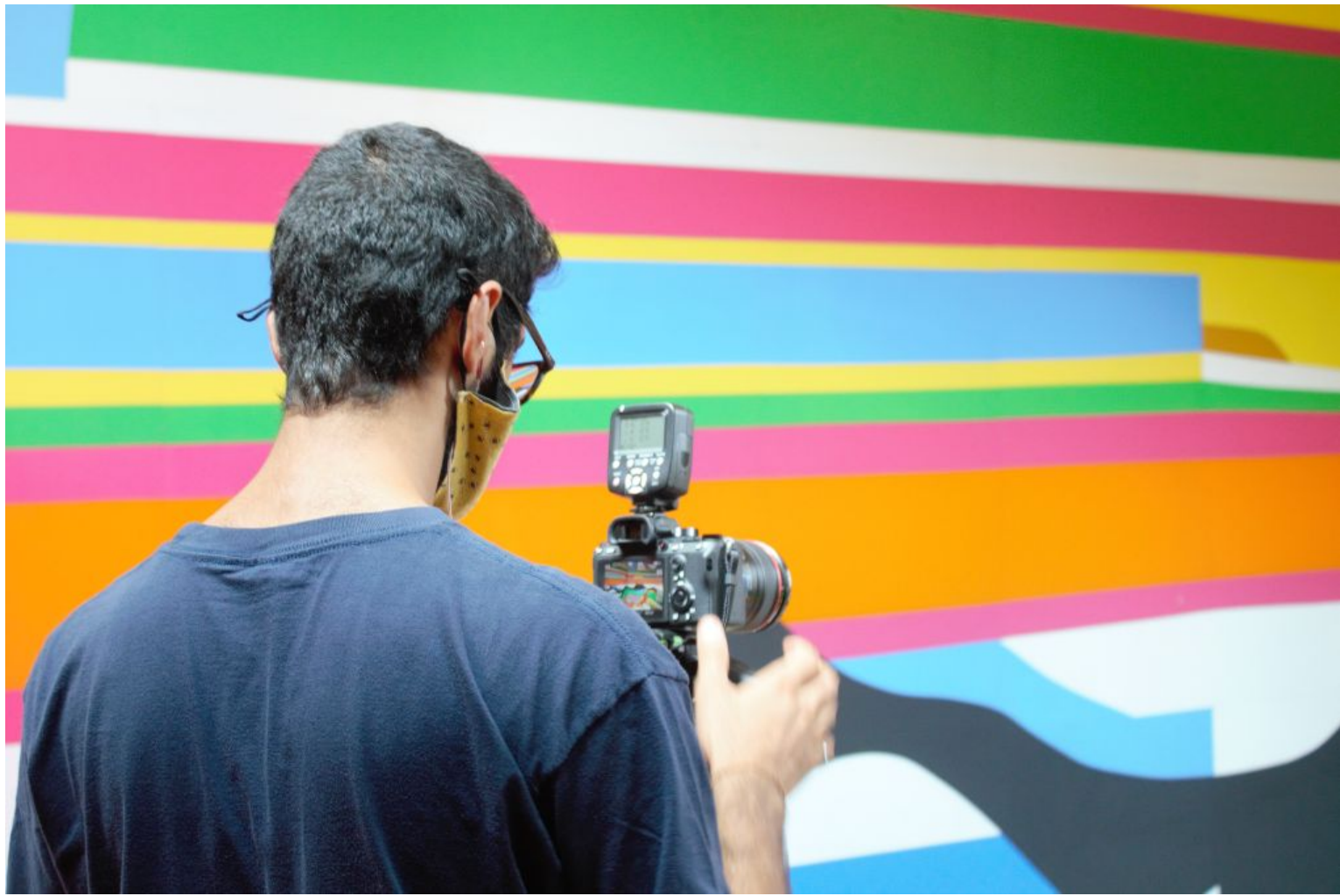
Documentation

Accessing a Site during COVID-19









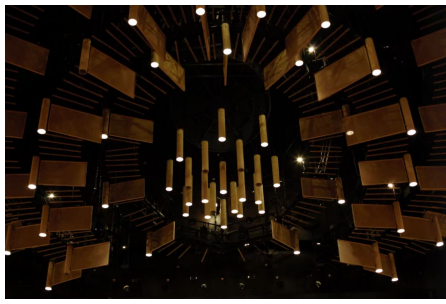
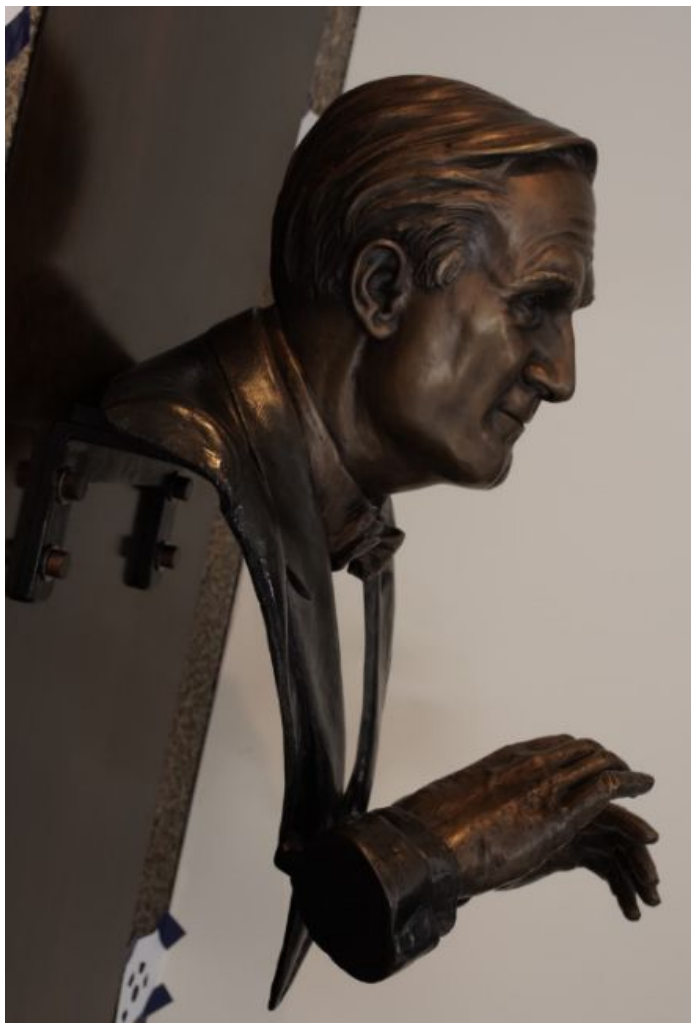


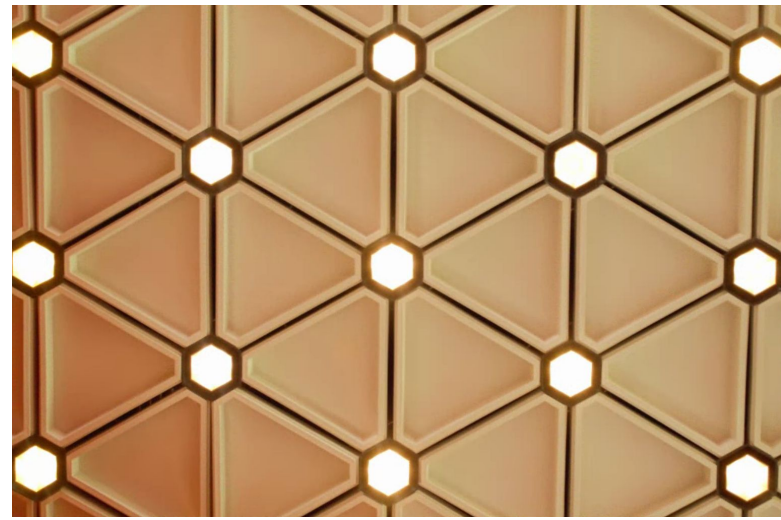




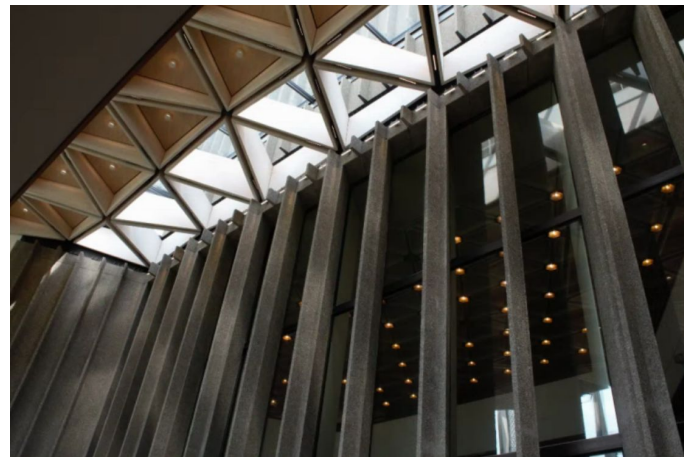
Summary

- 1000+ photos taken
- 250+ laser scans (interior & exterior)
- 20 materials scanned
- 15 objects captured with photogrammetry
- 3 mosaics photographed









Key Takeaways

- Try to stay as organized as possible (but expect plans to change)
- Always have a couple extra hands
- Structure the site-work to be completed in pairs
- Prioritize data by space (access can be limited)

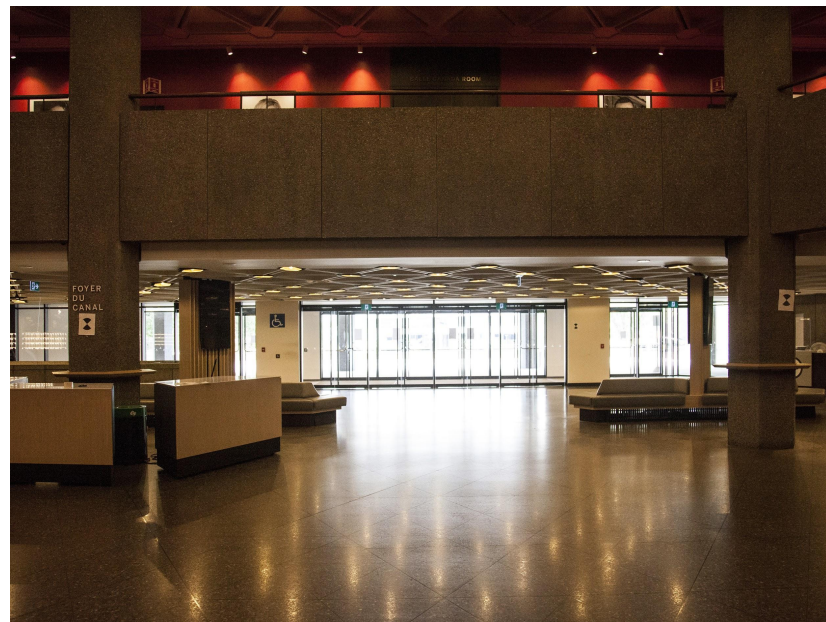
Visual Development & Production

Types of media

- Before/After photos
- Laser scans
- Building Information Models
- Photogrammetry
- Digital materials & textures



BEFORE



AFTER



BEFORE



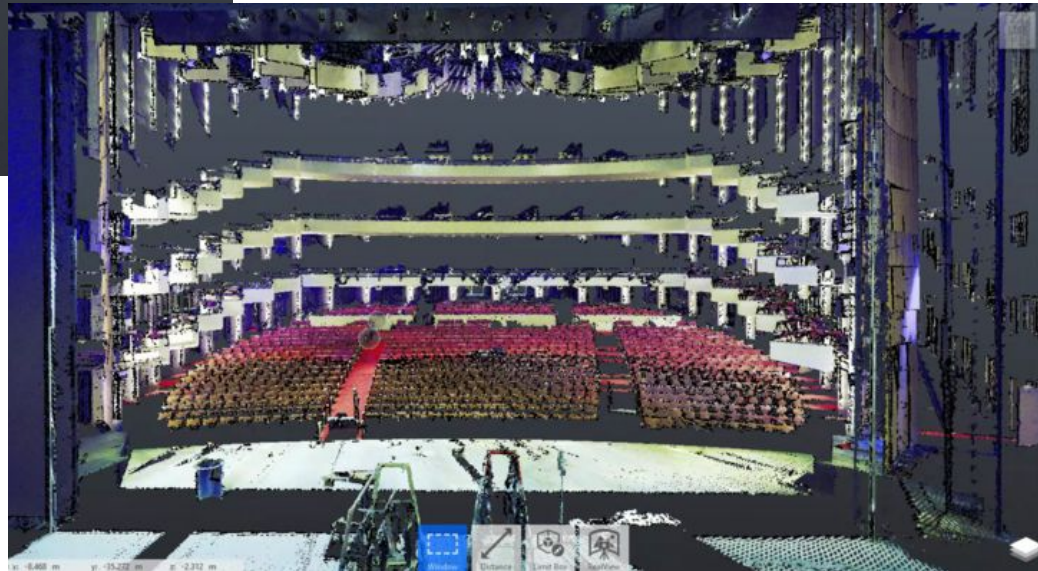
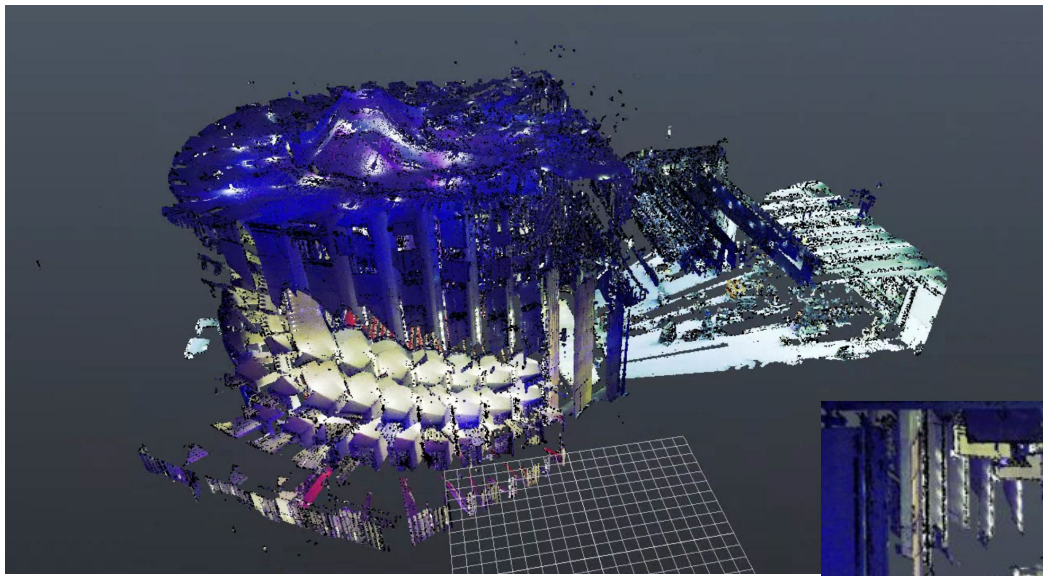
AFTER



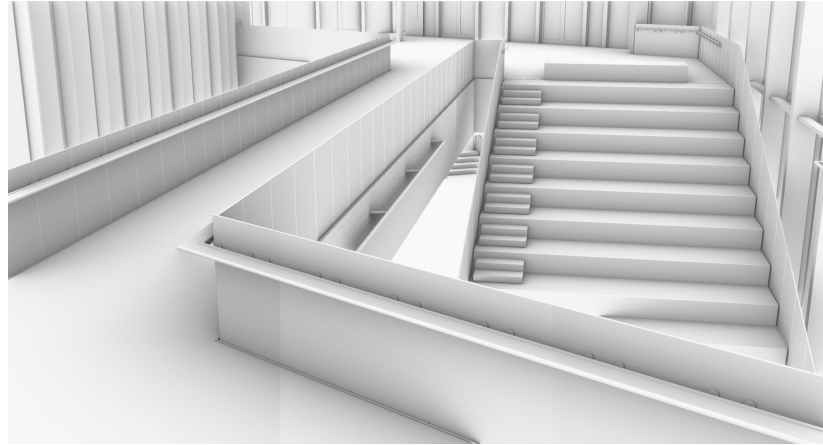
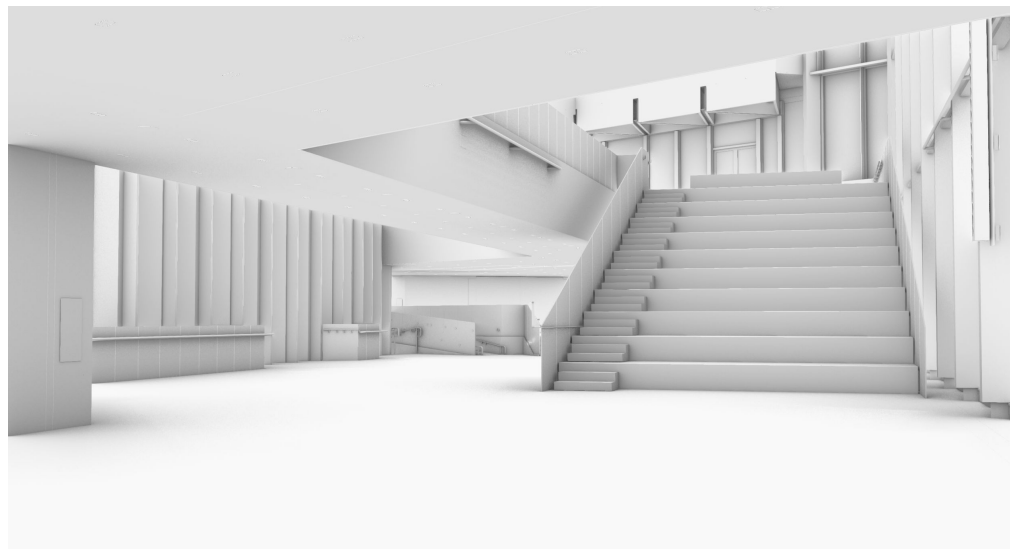
BEFORE

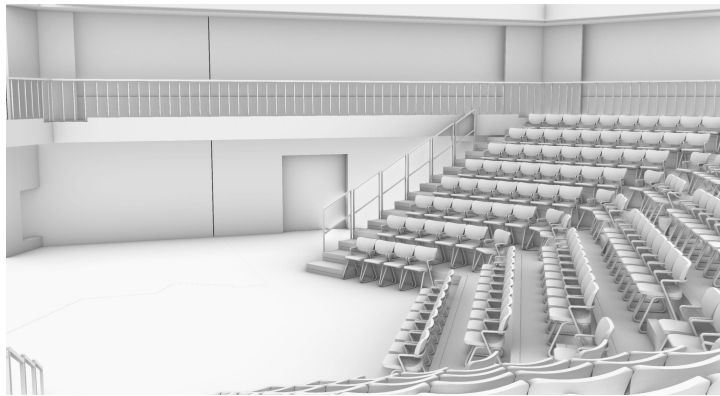
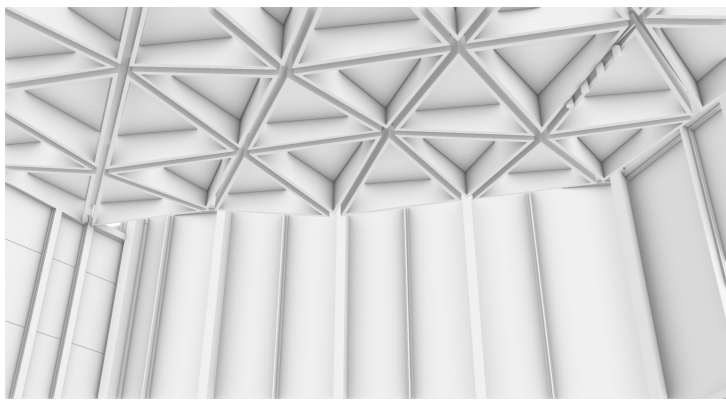


AFTER

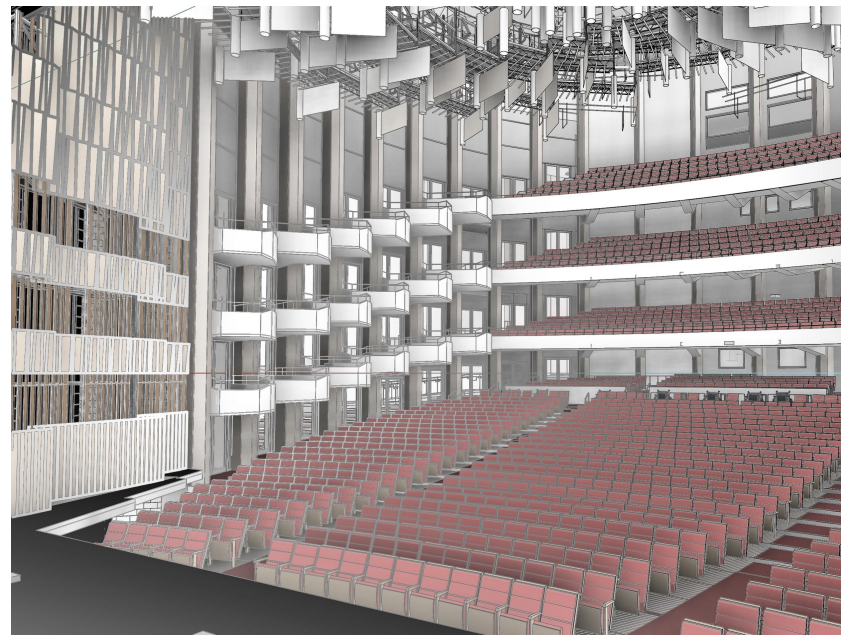
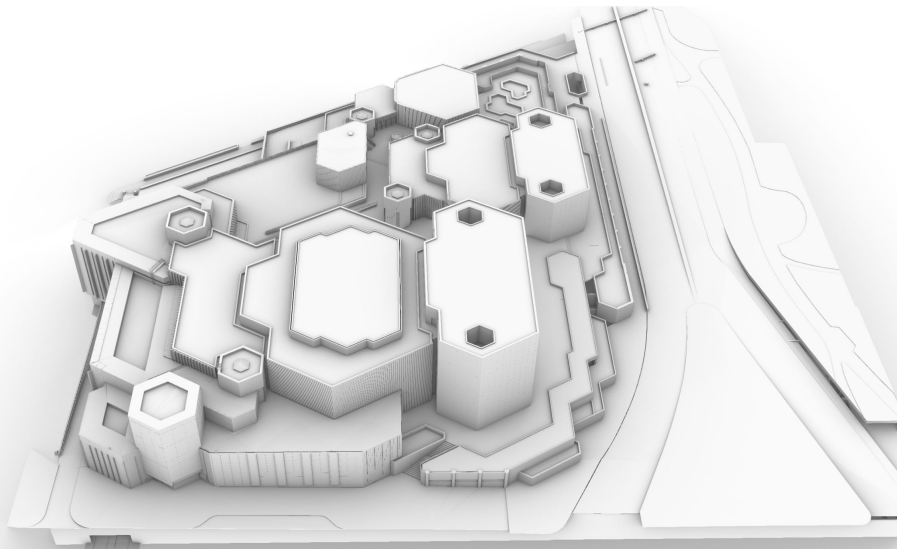


Registering laser scans

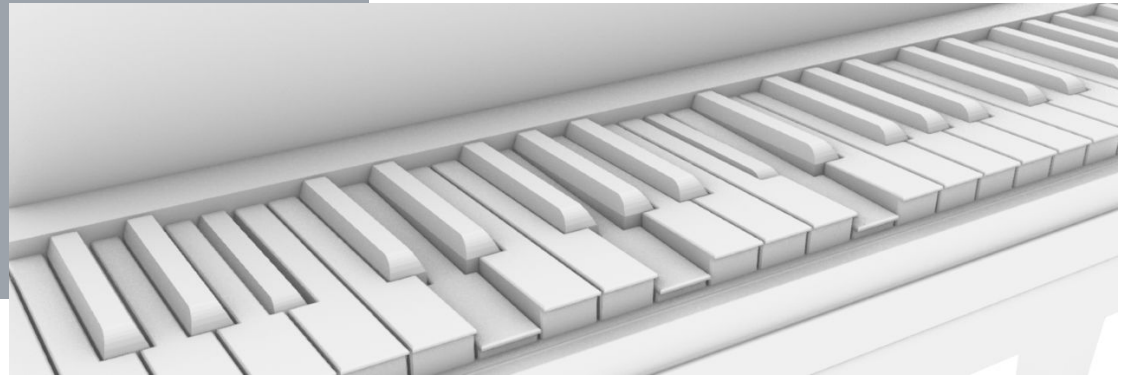
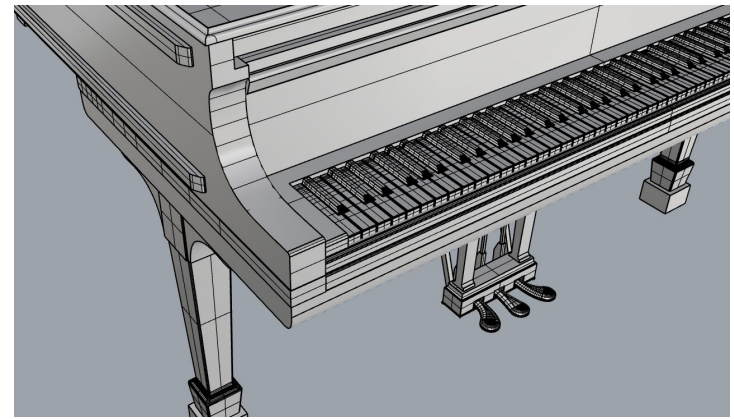
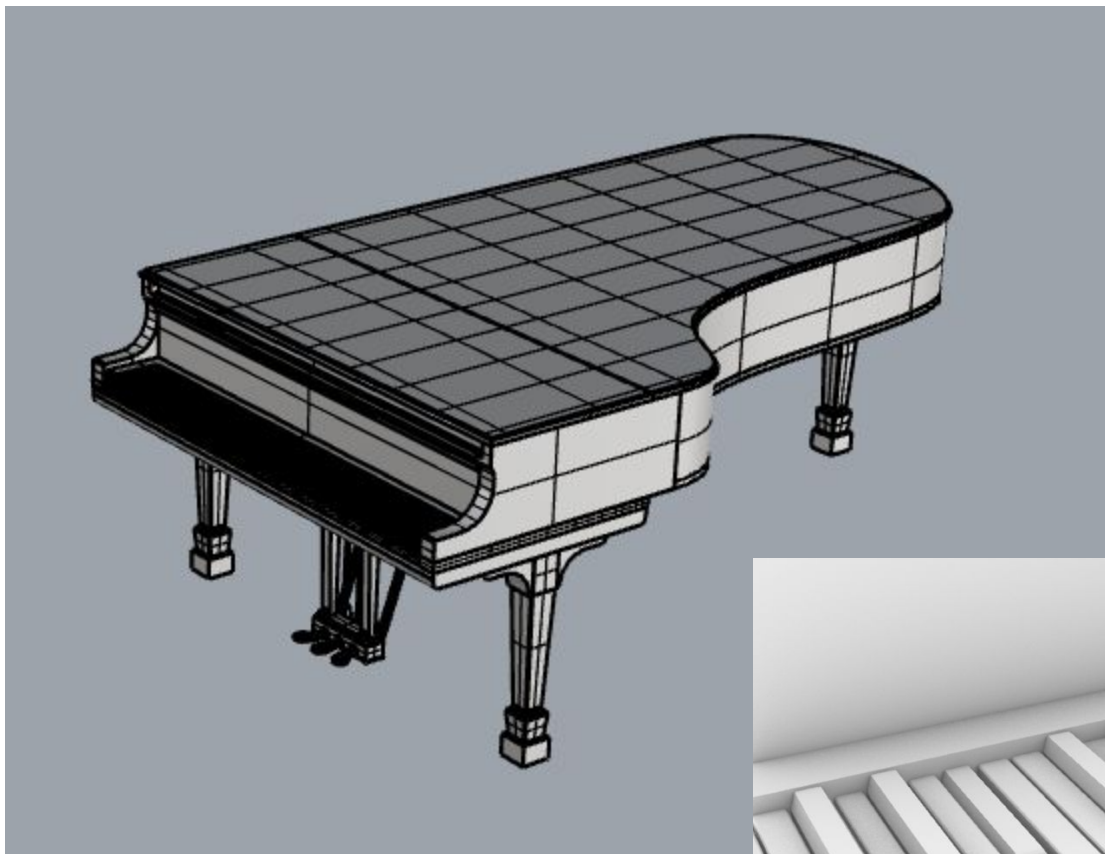




BIM Revit Model produced by Diamond Schmitt

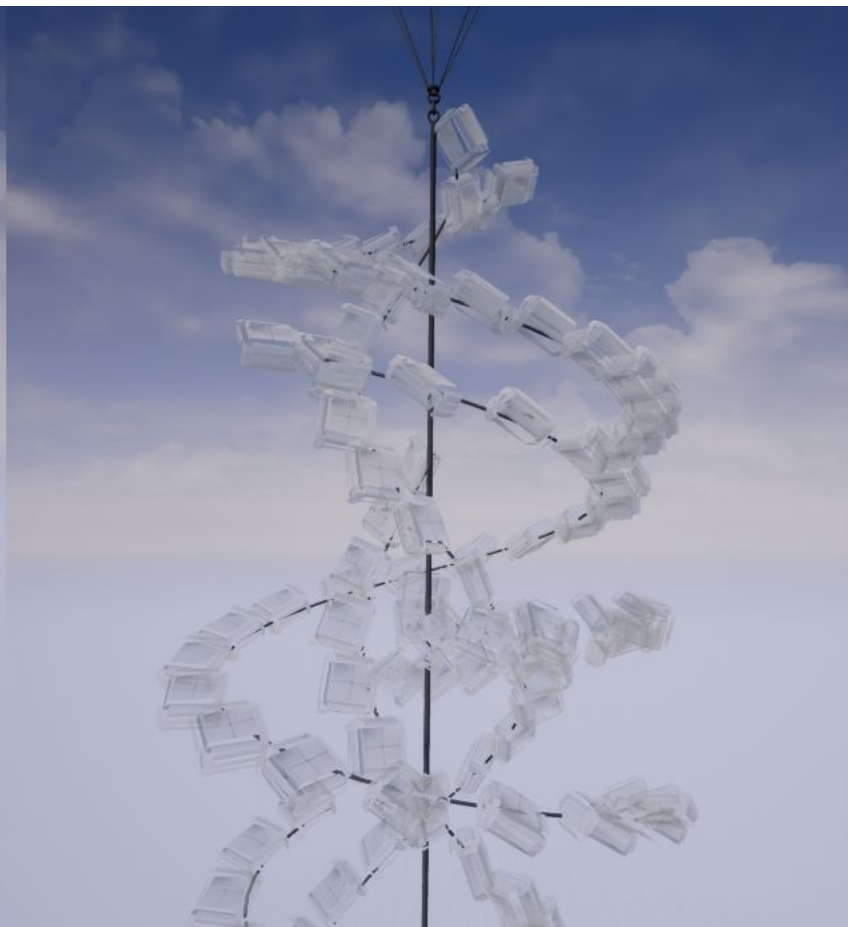
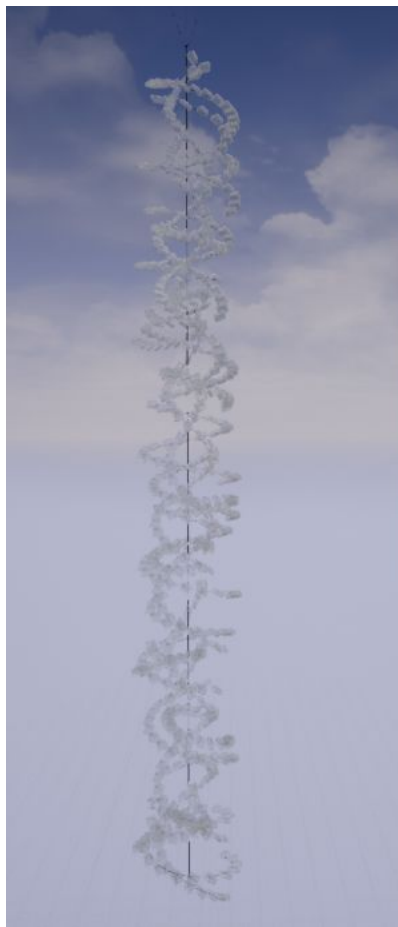


BIM Revit Model produced by Diamond Schmitt



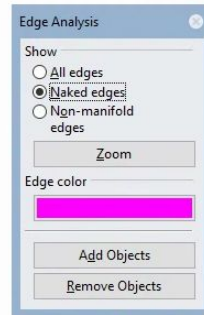
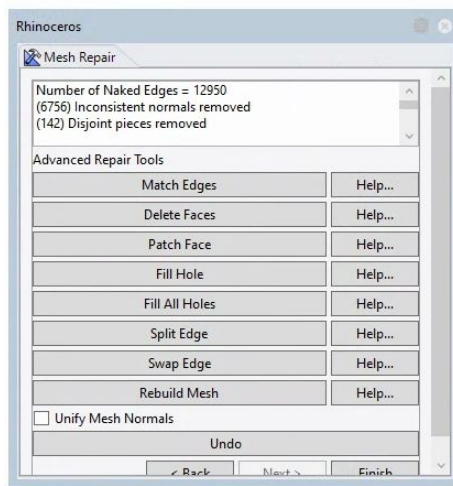


Glenn Gould CD318 Piano



Modelling from reference photography







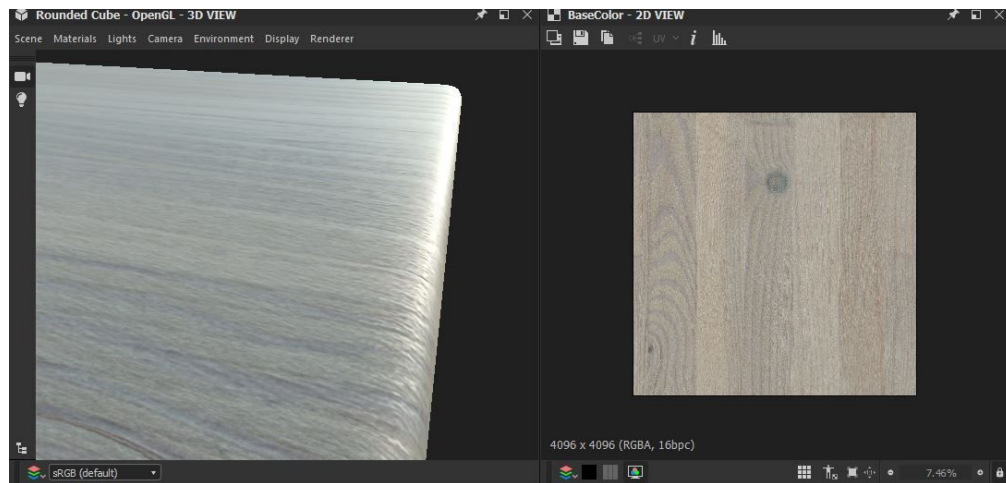
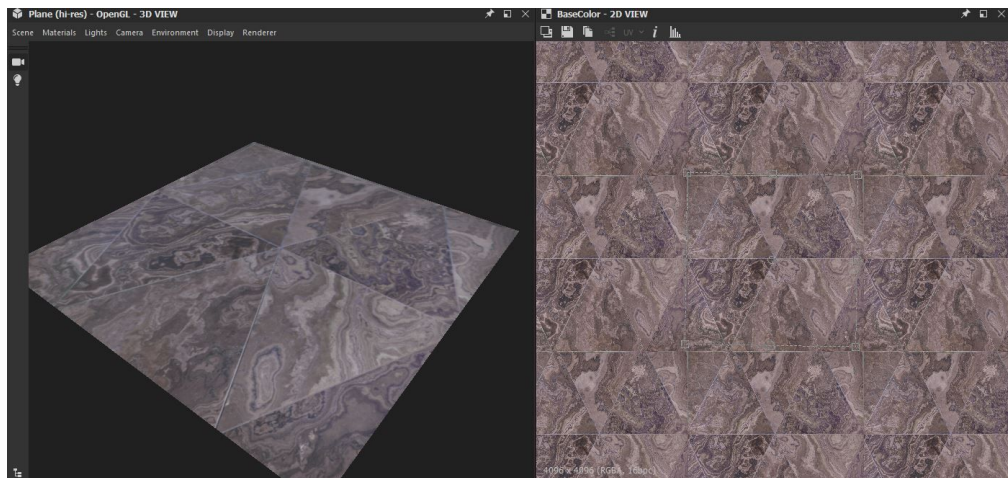
Processing photogrammetry



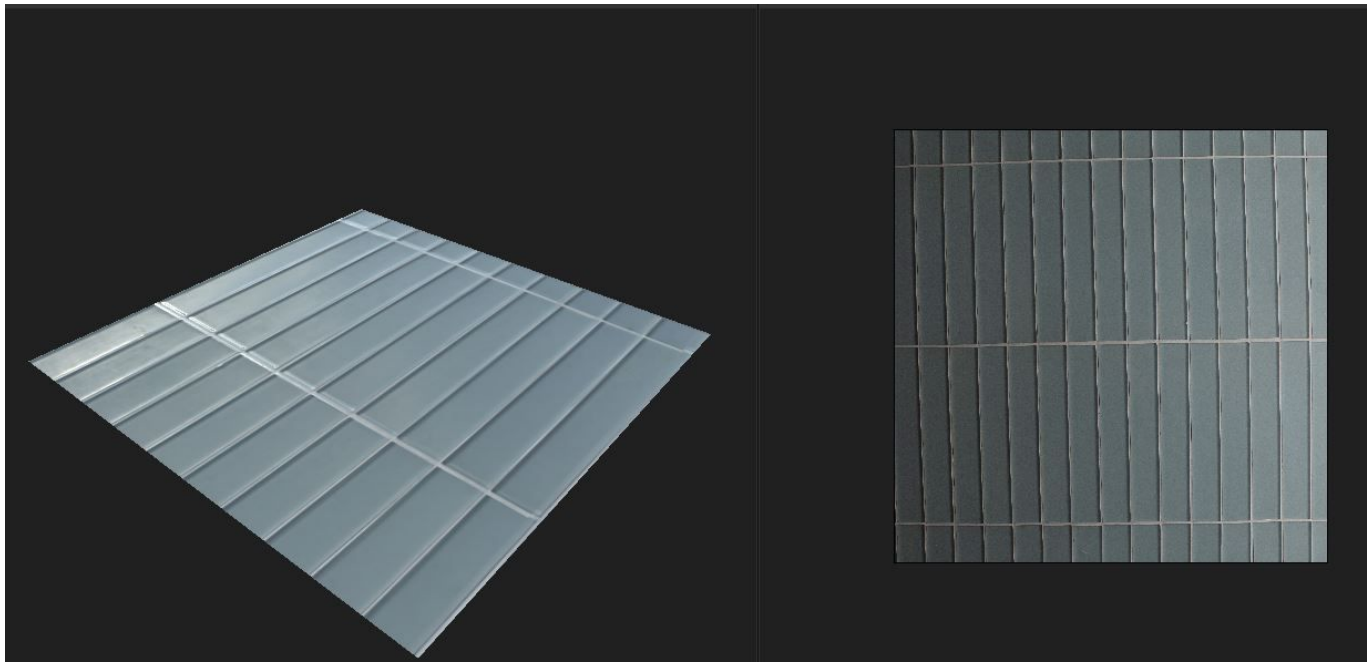
Processing photogrammetry

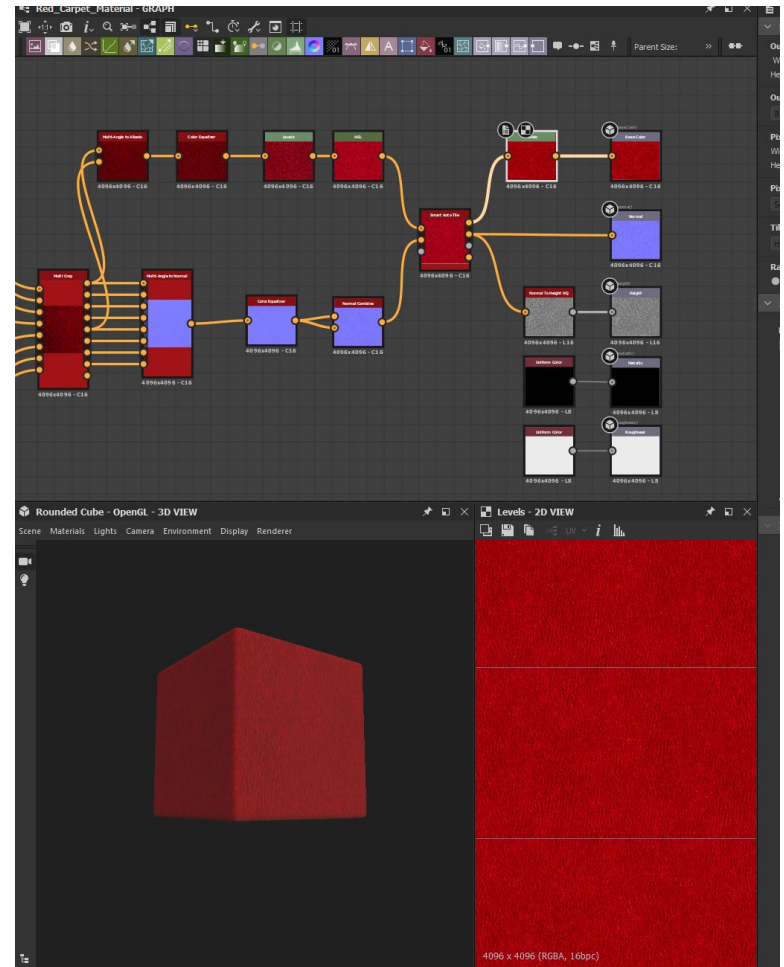
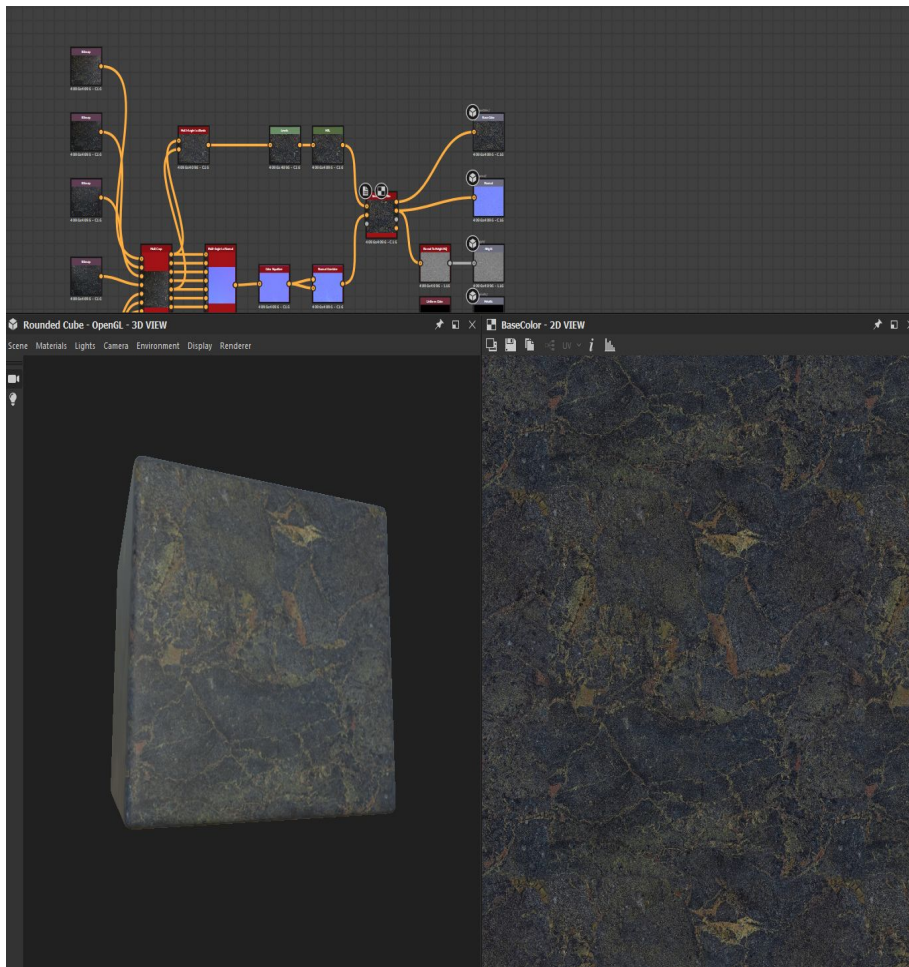




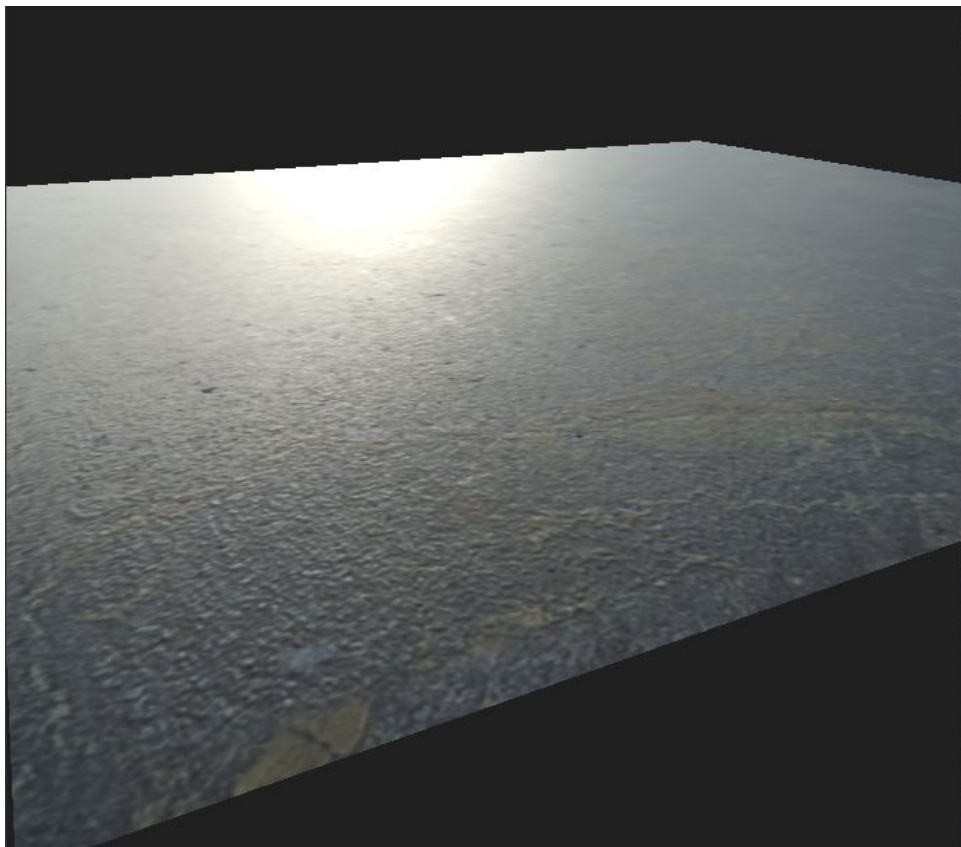


Producing digital materials in Substance Designer



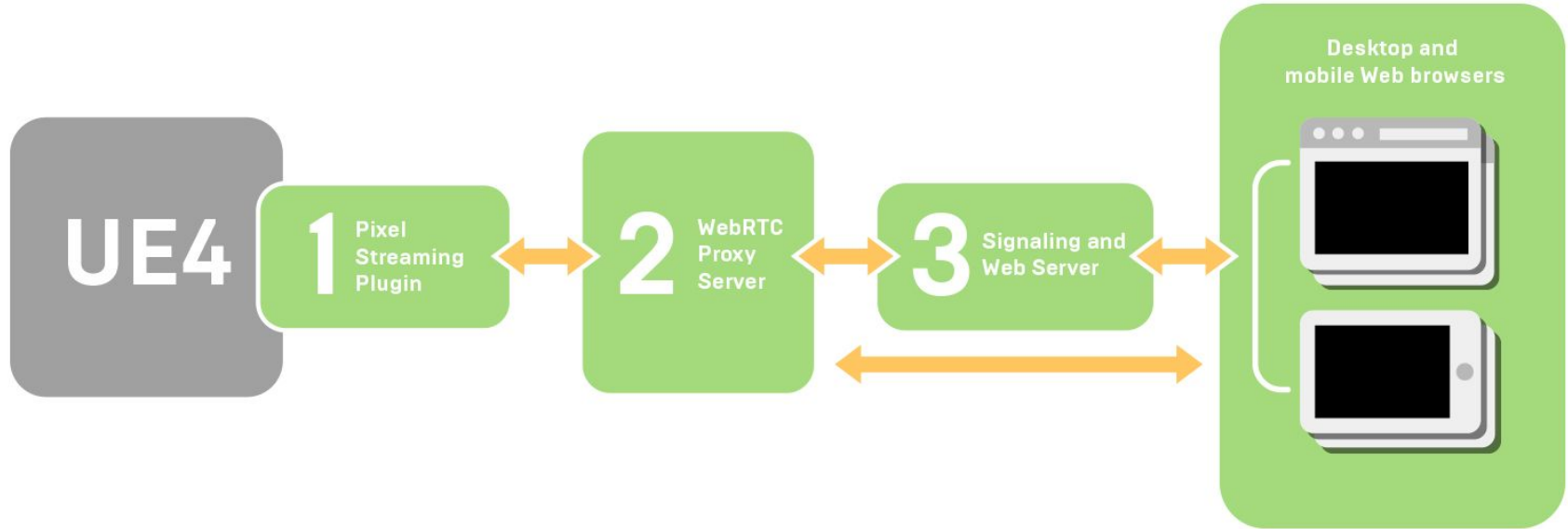


Producing digital materials in Substance Designer





UNREAL
ENGINE



The game application will be 'streamed' to the NAC website using *Pixel Streaming* - no downloads needed, accessible from any device.

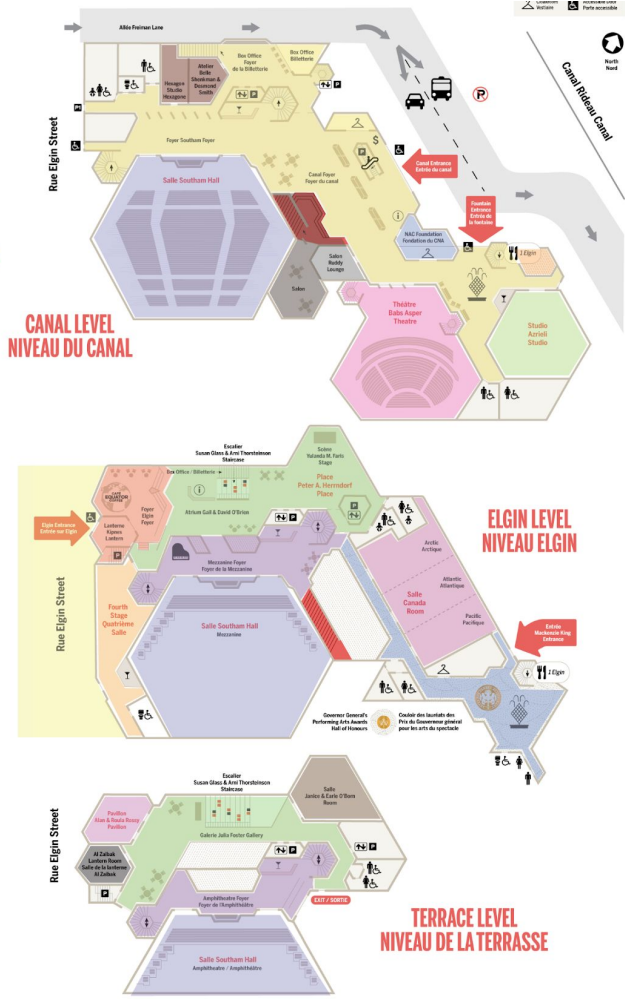
Environment List

High

PRIORITY

Low

- Elgin Foyer
- Atrium/Herndorf Place + Julia Foster Gallery
- Southam Hall
- Southam Foyer + Box Office + Canal Foyer
- Exterior + Elgin street (lower poly, no interior)
- Babs Asper Theatre
- Fourth Stage
- Mezzanine Foyer + Amphitheatre Foyer
- Hall of Honours
- Canada Room
- Azrieli Studio
- Hexagon Studio + Atelier
- Salon + Ruddy Lounge
- 1 Elgin Restaurant
- Lantern Room
- Rossy Pavilion
- NAC Foundation
- O'Born Room



December / Décembre 2019

Environment List

High

PRIORITY

Low

Elgin Foyer

Atrium/Herndorf Place + Julia Foster Gallery

Southam Hall

Southam Foyer + Box Office + Canal Foyer

Exterior + Elgin street (lower poly, no interior)

Babs Asper Theatre

Fourth Stage

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Canada Room

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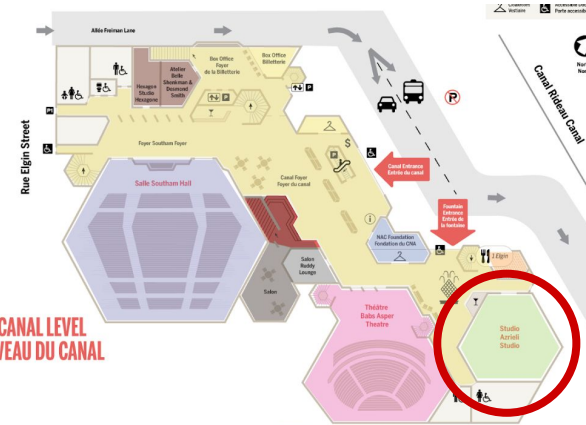
Lantern Room

Rossy Pavilion

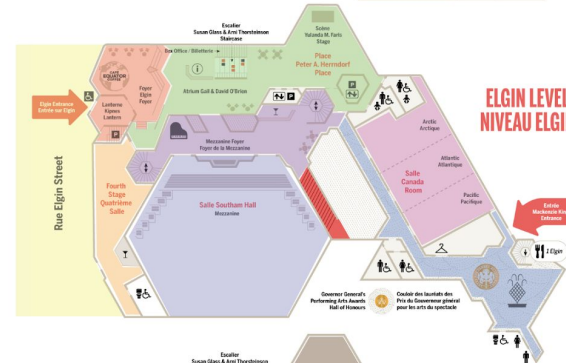
NAC Foundation

O'Born Room

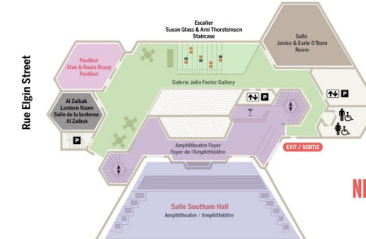
CANAL LEVEL
NIVEAU DU CANAL



ELGIN LEVEL
NIVEAU ELGIN

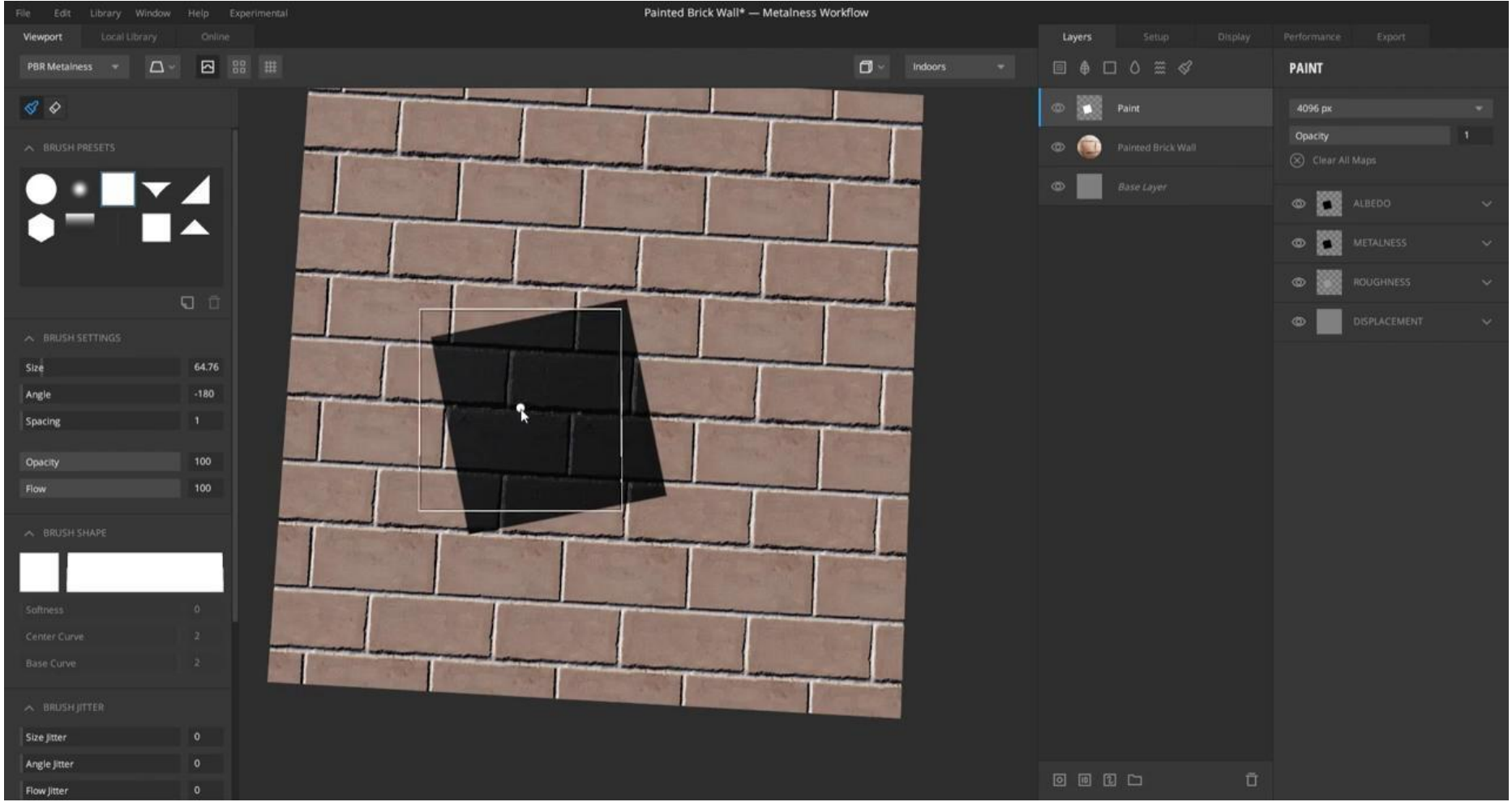


TERRACE LEVEL
NIVEAU DE LA TERRASSE

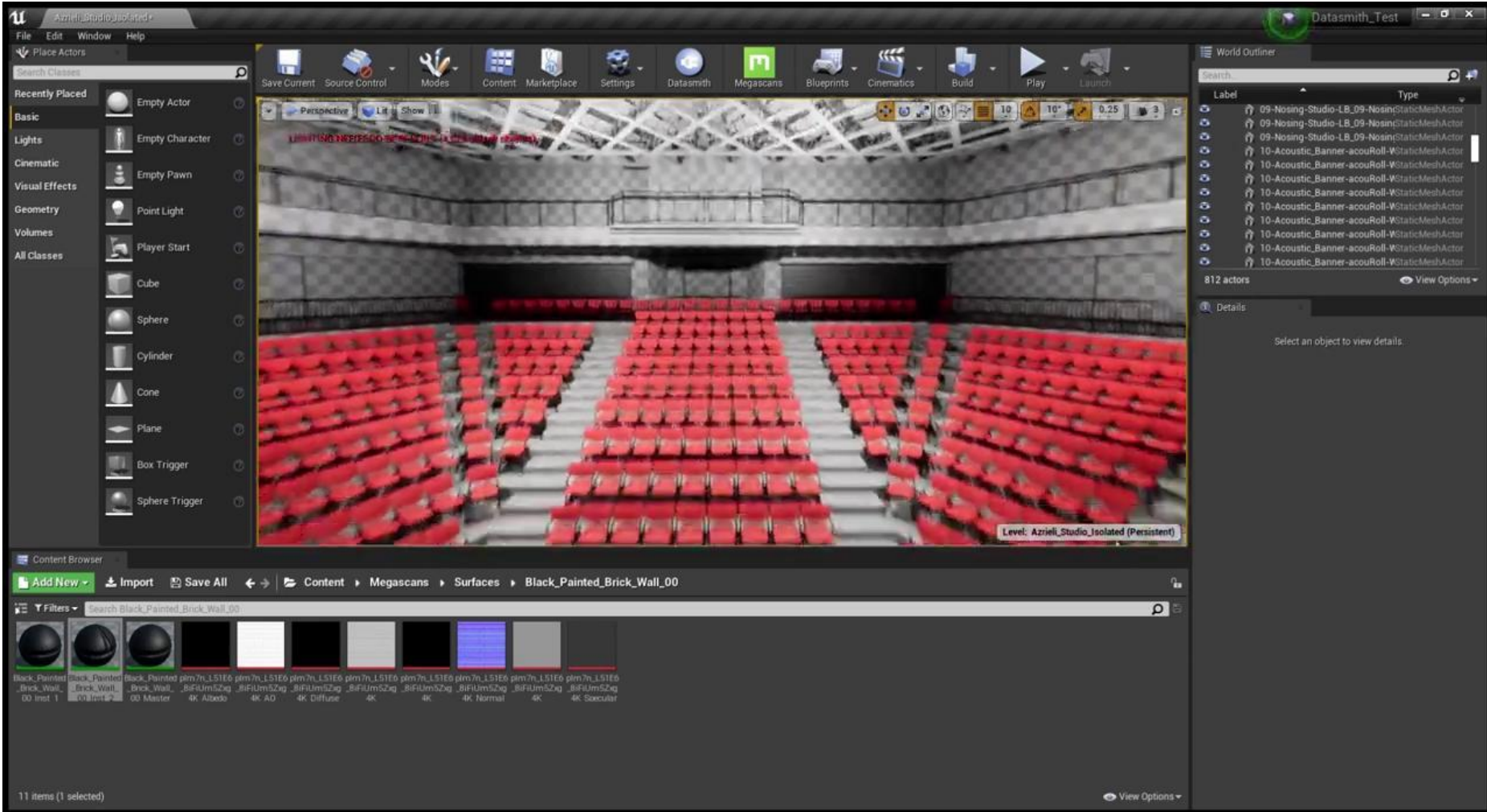


December / Décembre 2019

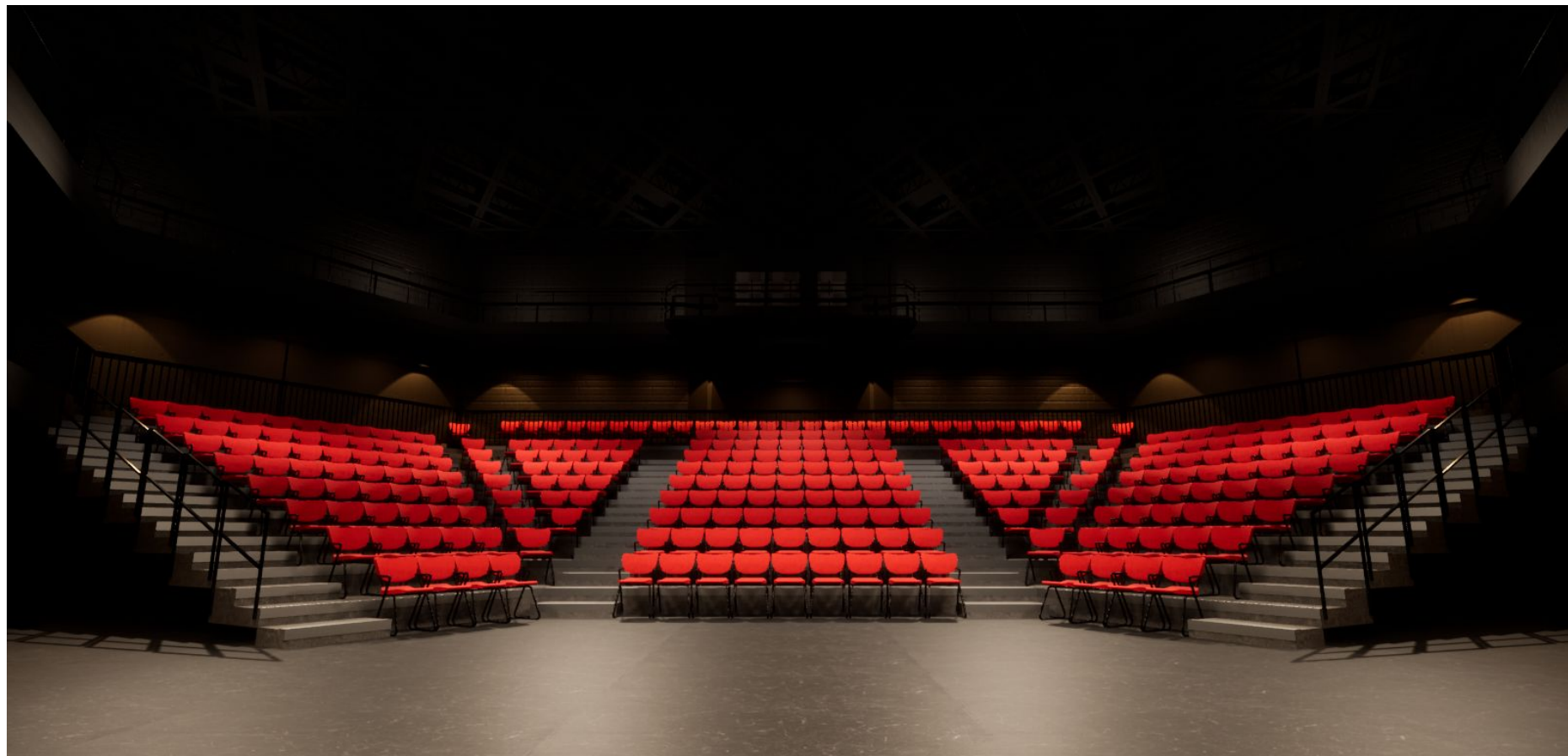














Questions?

Feel free to email me at jchartrand@cims.carleton.ca

And visit us here <https://cims.carleton.ca/>

