Teamprojekt Computer Vision
Wintersemester 20/21

Color Grading in Color Space
Prof. Dr. Martin Eisemann
What’s the project about?

Color Grading is the final post processing step in image and video editing. It creates the "mood" of the image/s.
Über mich

- Geboren 1980 in Köln
- Studierte Computervisualistik an der Universität Koblenz-Landau
- 2006 - 2011 PhD am Institut für Computergraphik, TU Braunschweig
- 2011 - 2015: Akademischer Rat am Institut für Computergraphik, TU Braunschweig
- 2014: Gastwissenschaftler an der TU Delft, Niederlande
- 2015 - 2020: Professor für Computergraphik an der TH Köln
- since October 2020: Professor für Computer Vision an der TU Braunschweig
Über mich

Visualization

Image-based Rendering
Image and Video Editing

Augmented / Virtual Reality

Rendering
Über euch
About you

Shortly introduce yourself

Focus on

- Why this project?
- What do you expect from the project and its realization (organization, guidance, etc.)
- Prior programming experience (including frameworks and programming languages used)
- Related interests (e.g. programming, designer, UX/UI, …)
- Potential role in the team
What will you learn?

After successfully finishing the project you will be able to

- describe how modern color grading is used
- implement color grading tools for image and video editing
- create intuitive GUIs
- visualize image and video data in abstract formats
Scientific commitment

• This is a research project
• Research is about discovering new things and sharing it with the community
• By participating in this project you agree that the results may be used for further developing and publication by our group and other research groups collaborating with us
  (if substantial parts of your implementation are used you will of course be one of the authors and we would be happy if you continue to contribute after the team project. You never loose your copyrights!)
Deliverables

- You need to hand in **all your source code, documentations and other materials** related to the project.
- Please do this by providing a link to your **Git-repository** (we can set one up for you if you want).
- You need to **present your final results**. Date to be announced (Suggestion 23.02.21)
This is what matters to us - **Evaluation criteria**

- Compliance with the mandatory deadlines
- Communication with supervisor in case of difficulties
- Quality of the final program/s
- Quality of the software design (i.e. idea, code, prototypes, goals, …)
- Process in the team
- Active participation in the team
  - You will need to show this by handing in a work matrix
  - Will also be used for grading if required

<table>
<thead>
<tr>
<th>Team member / Topic</th>
<th>Topic A</th>
<th>Topic B</th>
<th>…</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member 1</td>
<td>10 %</td>
<td>80 %</td>
<td>…</td>
</tr>
<tr>
<td>Member 2</td>
<td>25 %</td>
<td>10 %</td>
<td>…</td>
</tr>
<tr>
<td>Member 3</td>
<td>65 %</td>
<td>10 %</td>
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My own role

Mentor and later (partial) project owner
## Dates

<table>
<thead>
<tr>
<th>Event</th>
<th>Date/Deadline</th>
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<tbody>
<tr>
<td>Kickoff - Meeting</td>
<td>now</td>
</tr>
<tr>
<td><strong>Cancellation Deadline</strong></td>
<td>15.12.2020</td>
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<tr>
<td>Status report</td>
<td>Every second Tuesday</td>
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<tr>
<td>Problem report</td>
<td>Every second Tuesday</td>
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<tr>
<td>Christmas Break</td>
<td>20.12.20 - 10.01.21</td>
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<tr>
<td>Feature stop, Code Cleanup, Preparing presentation</td>
<td>two weeks before final deadline</td>
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<tr>
<td>Presentation day</td>
<td>23.02.21?</td>
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Let’s get started!

What do we need?