

CS 116: Introduction to Digital Imaging
Project one: "Time of Day"

Spring 2001

The goal of this project is to use basic color editing tools to change the apparent time of day of an image. As the sun rises and sets, as outdoor and indoor lights are turned on and off, the only visual changes that take place in a particular scene result from these changes in lighting. Therefore, you should arguably be able to adjust the time of day of a photo by selectively changing the localized lighting.

You will need to find and scan both a starting image and a reference image. Please use a spatial resolution between 600 and 1000 pixels on each dimension, and keep the spatial resolutions of both your starting and final image the same. You are free to use color modification tools such as brightness, contrast, HSV, and soft light to make the changes. **Do NOT** use any retouching, cut and paste, etc., even if you know these tools. This exercise is intended to get you familiar with color, both in terms of training your eye and in using a number of the color-correcting tools.

For the purposes of this assignment, we'll use the following three "times of day": **night**, **dusk/dawn**, and **midday**. You are free to choose a source image from any of these times of day. The reference image should be taken from one of the other times of day, specifically, the time of day you are going to change your image to.

NOTE: when scanning an image that is NOT a photograph, use the **descreen** option on the Scan Wizard software. It is located under brightness and contrast controls in the Settings window. It will remove aliasing artifacts that commonly occur when scanning printed material.

This project is due in two parts:

PART ONE due Wednesday, February 14 at the beginning of class

Scan both of your images and copy them to the **Time of Day Sources Go Here** folder on e-work. They should be in a lossless format that can be read by Photoshop on the Mac. I recommend the "Photoshop" format (suffix .psd). Name them unambiguously.

PART TWO due Monday, February 19 at the beginning of class

Copy your altered image to the **Time of Day Finals Go Here** folder on e-work. Again, use a lossless file format that can be read by Photoshop on the Mac, and name the image so I can identify who put it there.

If you are **not** working on the machines in the classroom, **make sure** your image looks the way you think it should when viewed on a classroom iMac! **Don't** use the iBooks to check images. Their LCD screens aren't as accurate as the iMac screens.

It is your responsibility throughout the semester to make sure all of your images are handed in properly and on time. I won't consider this project handed-in unless the files are in the right places, are properly named, and can be read by Photoshop on the Mac.