# Specifying a computation that we would save

## What Daltonization algorithm and its parameters

## What images to run on

### Might want to be able to loop over an image set

## Render for dichromat algorithm

### Visualization

### But also part of Daltonization constraints

## What type of dichromat?

## Image pixel size

##### Disp structure

### Cone fundamentals

### Display

### Wavelength sampling

# Image generation

## Inputs

### What type of image

### Image size

### What type of dichromat

### Denoted by identifier (e.g. 'Set1')

#### Disp structure

#### Other type specific parameters

## Outputs

### What type of image

### LMS image

### Disp structure

### What type of dichromat

### Other type specific parameters

## Image types

### One square on a background

### Multiple squares on a background

### Psuedo-isochromatic plates

### Natural images

## File structure to track

### DALT\_analysis -> TestImages -> ImageType -> SetName -> DichromatType -> ImageSize

# Render for dichromat algorithm

# Daltonization algorithm

## Information increase definition

### What algorithm?

### How normalize?

### Other parameters

## Similarity definition

### What algorithm?

### How normalize?

### Other parameters

## Tradeoff between info and similarity

### Lambda method

### Var lock method

## Starting points

### Multiple, take the best

### Running a sequence over tradeoffs where each informs the next

## Render algorithm

# Organizing output

# Enhancements we might think about

## Breaking problem down into parts

### Blocks

### Clusters of pixels

### Something else

## Making it faster

### Some of the above might help

### Bigger computer

### Analytic derivative in search?

### Autodifferentiation?

## Better definitions of information increase and similarity