

# AI with Fanosoft

Artificial Intelligence for Everyone

# Artificial Intelligence with Fanosoft

- Image classification with deep learning
- Pix2Pix: Image-to-Image Translation with Conditional Adversarial Nets
- ChatGPT: Generate scientific publications templates from keywords
- Dall.E: Create images, illustration and art from a description in natural language

# AI with Fanosoft – Content

## Image Classification

Image Classification with Deep Learning

## Pix2Pix

Image-to-Image Translation with Conditional Adversarial Nets

## ChatGPT

Generate scientific publications templates from keywords

## Dall.E

Create images, illustration and art from a description in natural language

# Image Classification

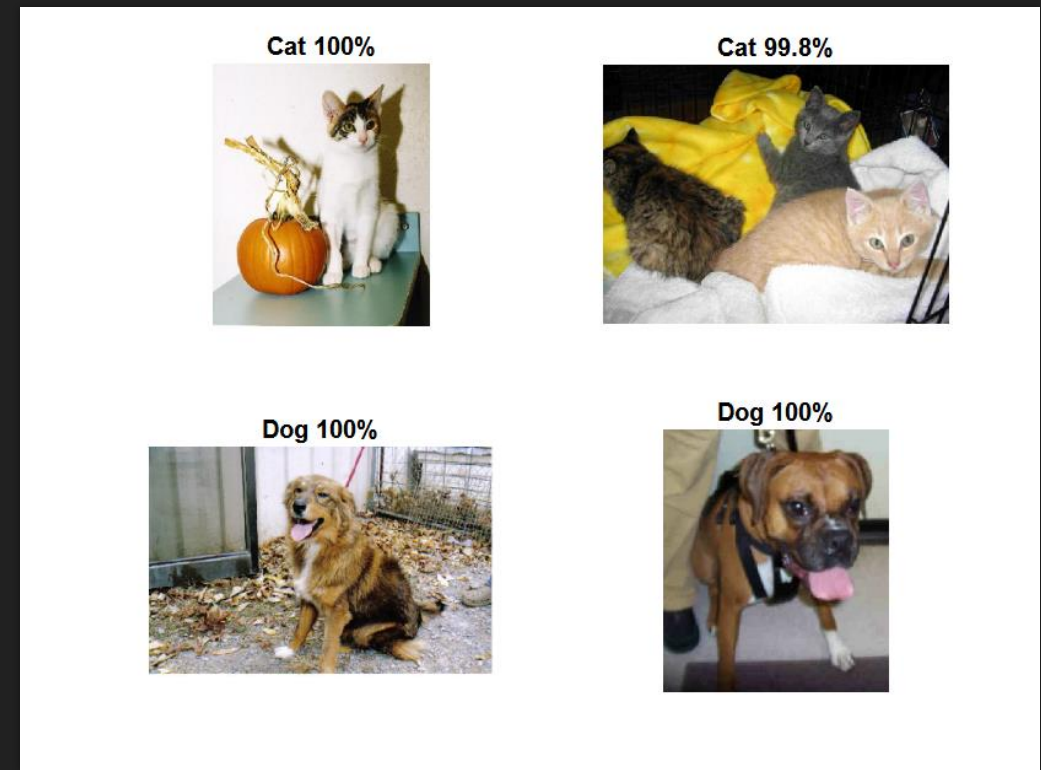
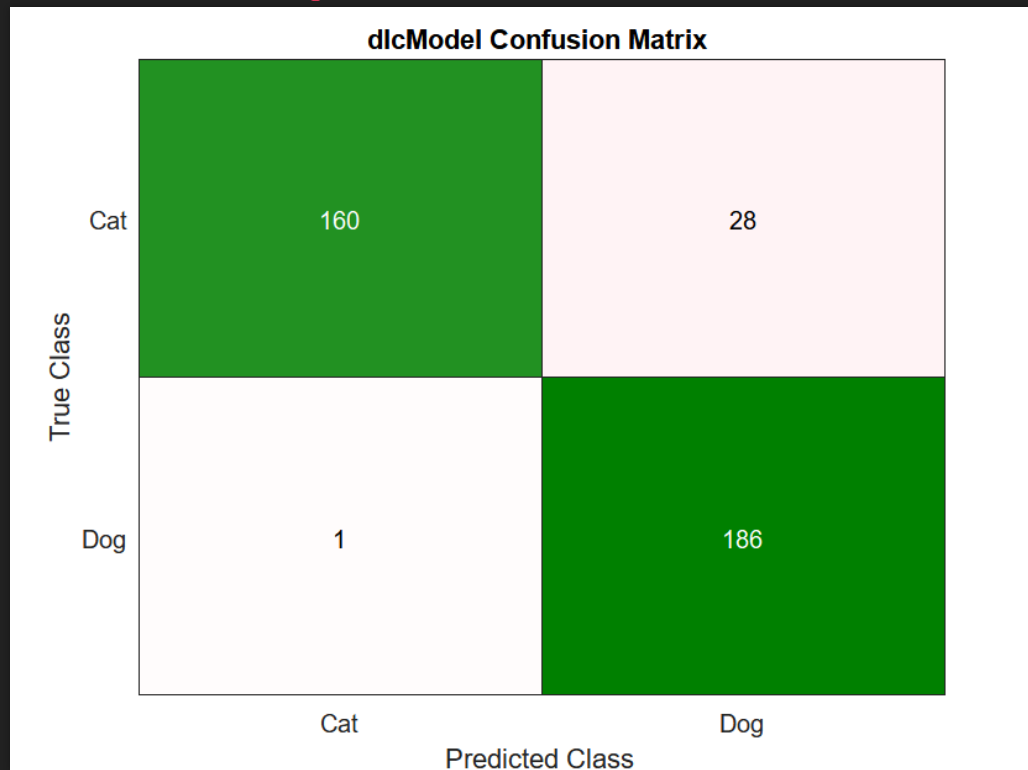
Image Classification with Deep Learning

# Image Classification Introduction

- Assign a label or class to an entire image
- Images are expected to have only one class for each image
- Examples of Image classification:
  - Animals: “Cat” or “Dog”
  - Handwritten digits: 0,1,2,..., 9
  - Food: “Salad”, “Burger”, “French Fries” etc.

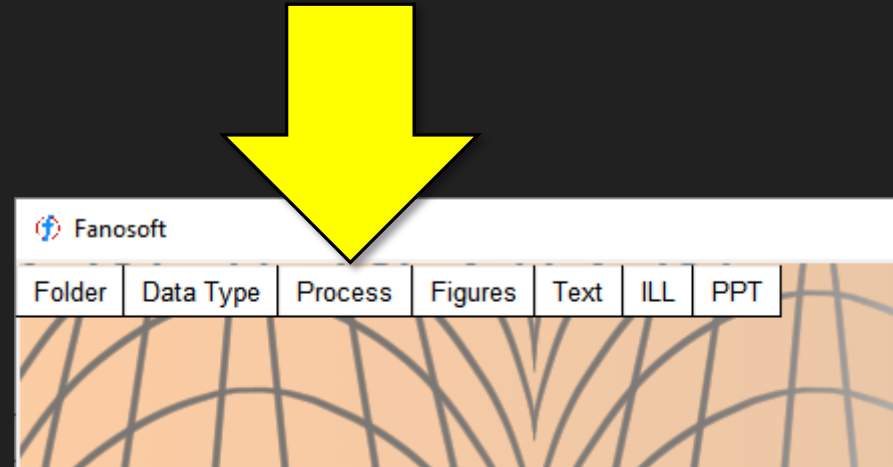


# Image Classification Example: Cat or Dog

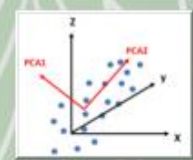
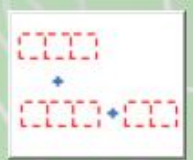
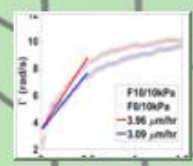
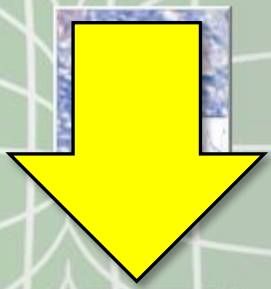
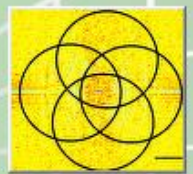
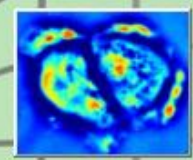
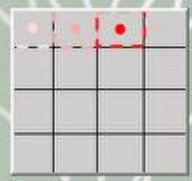


# Image Classification in Fanosoft

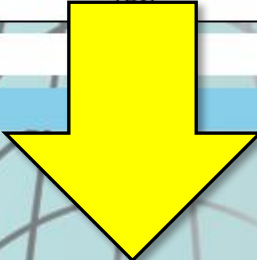
- Click on “Process”



$$\frac{\lambda}{2\pi\alpha} \phi(x,y)$$







## Image Classification Training

Path to images	
Model's name	dlcModel
Deep network	squeezenet

Train

Test

## Classify New Images

Input image	
or input stack	
Figure Name	dlcFigure

Classify

## Data augmentation options

Resize mode	resize
Random rotation (+/- degrees)	0
Random scale (+/- %)	10
Random translation (+/- pixels)	30
Random X reflection	<input checked="" type="checkbox"/>
Random Y reflection	<input type="checkbox"/>
Fix imbalanced classes by over-sampling	<input checked="" type="checkbox"/>

## Training options

Solver	sgdm
k-fold validation	1
Max epochs	30
Initial learn rate	0.001
MiniBatch size during training	10
Training (%)	70
Validation (%)	20
Testing (%)	10
Plot colors	Navy

# Image Classification in Fanosoft

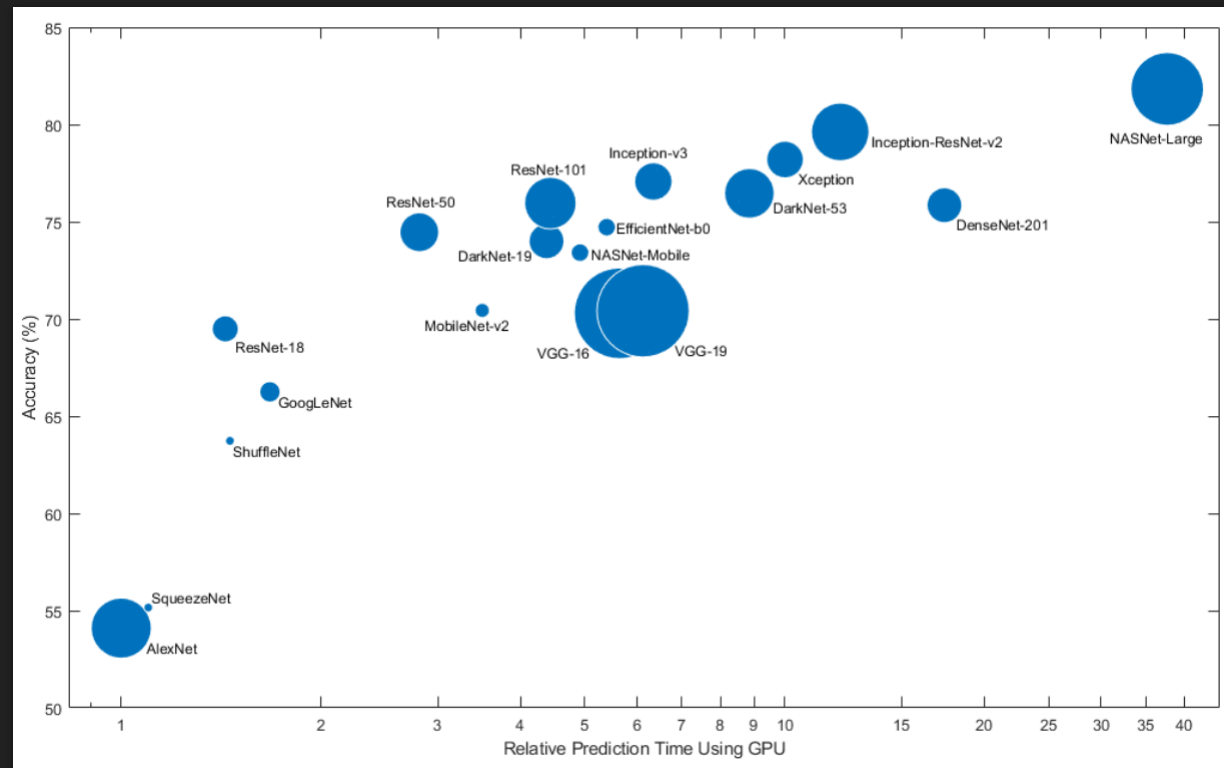
- Deep Neural Networks used for image classification
- Select the Model / Deep network to train. Available networks are shown on the right
- 3 phases:
  - Train the network with a labelled dataset
  - Test the trained network
  - Classify new images with a trained model
- Fanosoft uses the GPU when available to speed up the training process

squeezenet  
googlenet  
inceptionv3  
densenet201  
mobilenetv2  
resnet18  
resnet50  
resnet101  
xception  
inceptionresnetv2  
shufflenet  
nasnetmobile  
nasnetlarge  
darknet19  
darknet53  
efficientnetb0  
alexnet  
vgg16  
vgg19

# Image Classification - Available Networks

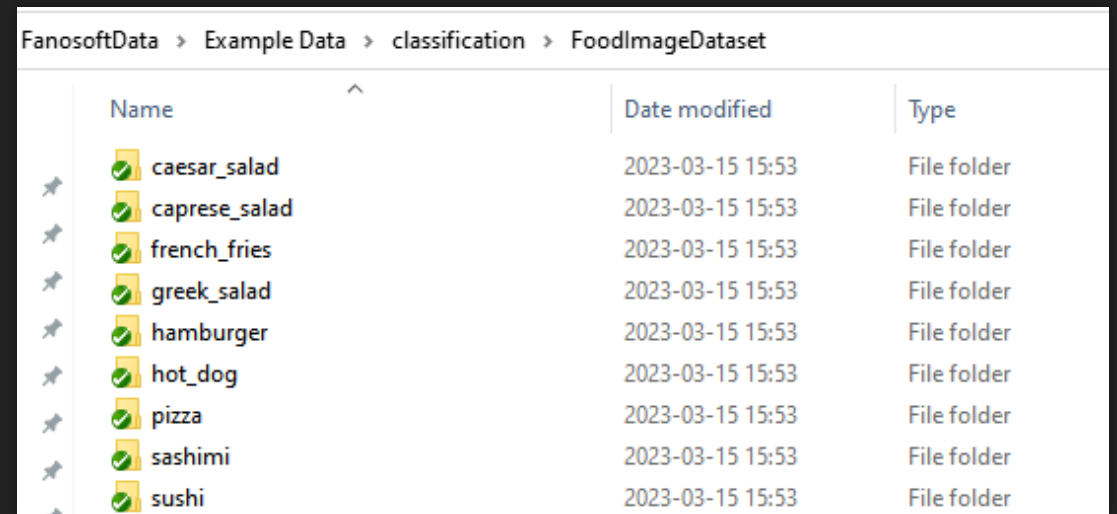
Network	Depth	Size	Parameters (Millions)	Image Input Size
squeezenet	18	5.2 MB	1.24	227-by-227
googlenet	22	27 MB	7.0	224-by-224
inceptionv3	48	89 MB	23.9	299-by-299
densenet201	201	77 MB	20.0	224-by-224
mobilenetv2	53	13 MB	3.5	224-by-224
resnet18	18	44 MB	11.7	224-by-224
resnet50	50	96 MB	25.6	224-by-224
resnet101	101	167 MB	44.6	224-by-224
xception	71	85 MB	22.9	299-by-299
inceptionresnetv2	164	209 MB	55.9	299-by-299
shufflenet	50	5.4 MB	1.4	224-by-224
nasnetmobile	*	20 MB	5.3	224-by-224
nasnetlarge	*	332 MB	88.9	331-by-331
darknet19	19	78 MB	20.8	256-by-256
darknet53	53	155 MB	41.6	256-by-256
efficientnetb0	82	20 MB	5.3	224-by-224
alexnet	8	227 MB	61.0	227-by-227
vgg16	16	515 MB	138	224-by-224
vgg19	19	535 MB	144	224-by-224

# Image Classification - Available Networks



# Image Classification – Training Dataset

- Training requires a labelled dataset
- Create one sub-directory for each class
- e.g. Food dataset

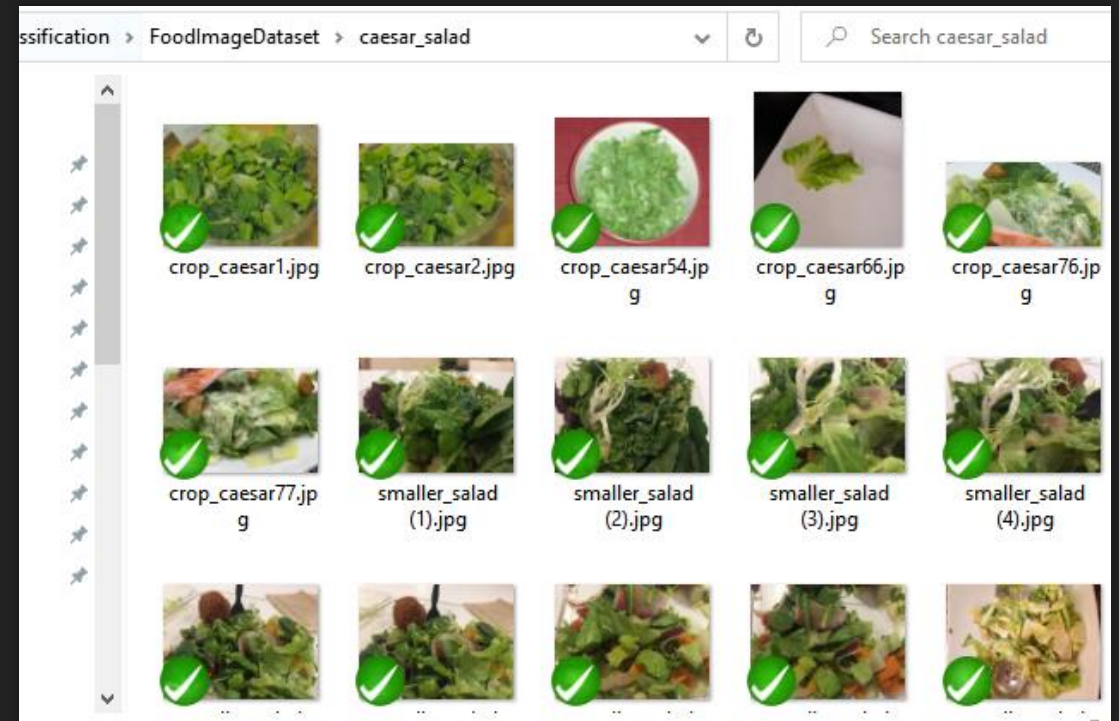


The screenshot shows a file explorer window with the path: FanosoftData > Example Data > classification > FoodImageDataset. The contents are listed in a table with columns for Name, Date modified, and Type.

Name	Date modified	Type
caesar_salad	2023-03-15 15:53	File folder
caprese_salad	2023-03-15 15:53	File folder
french_fries	2023-03-15 15:53	File folder
greek_salad	2023-03-15 15:53	File folder
hamburger	2023-03-15 15:53	File folder
hot_dog	2023-03-15 15:53	File folder
pizza	2023-03-15 15:53	File folder
sashimi	2023-03-15 15:53	File folder
sushi	2023-03-15 15:53	File folder

# Image Classification – Training Dataset

- In each sub-directory, copy all images that belong to this class
- e.g. “Caesar salad” content
- Fanosoft assumes number of classes = number of sub-directories



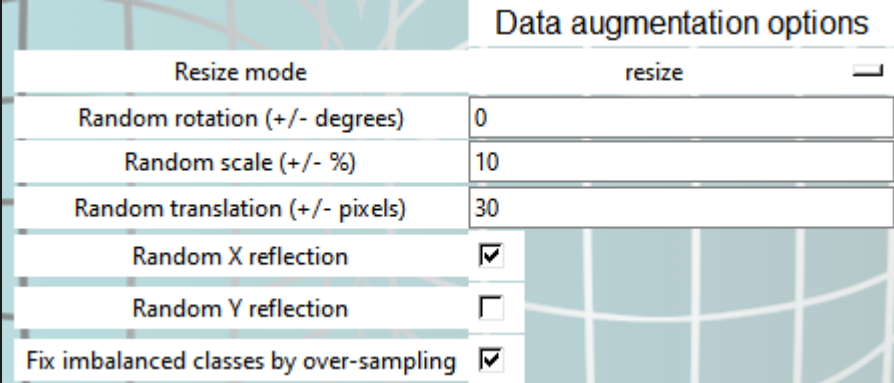
# Image Classification – Training Options

- All images are resized to the input resolution of the selected neural network
  - e.g. 224x224 pixels for GoogleNet
- 3 resizing options available
  - Resize: Scale each image to 224x224
  - Center crop: Extract a 224x224 rectangle in the center of the image
  - Random crop: Extract a 224x224 rectangle area at a random position in the image



# Image Classification – Training Options

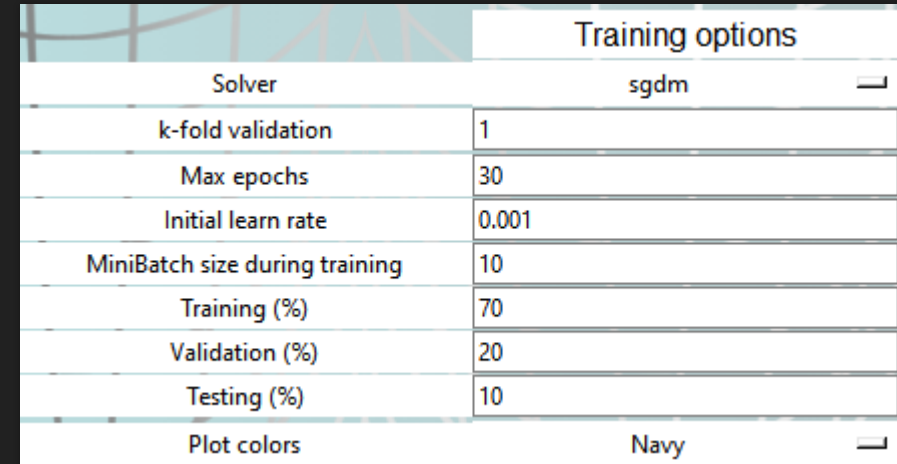
- Training dataset can be artificially inflated with data augmentation
- Data augmentation improves accuracy and robustness of the trained network
- Resizing and data augmentation are performed “on the fly” when loading images from disk

A screenshot of a software interface titled "Data augmentation options". The interface has a light blue header and a white body. It contains a table with two columns: "Resize mode" and "resize". The "resize" column has a small arrow icon on the right side. The table lists several options with their corresponding values or checkboxes. The options are: "Random rotation (+/- degrees)" with value "0", "Random scale (+/- %)" with value "10", "Random translation (+/- pixels)" with value "30", "Random X reflection" with a checked checkbox, "Random Y reflection" with an unchecked checkbox, and "Fix imbalanced classes by over-sampling" with a checked checkbox. The background of the dialog box shows a faint grid pattern.

Resize mode	resize
Random rotation (+/- degrees)	0
Random scale (+/- %)	10
Random translation (+/- pixels)	30
Random X reflection	<input checked="" type="checkbox"/>
Random Y reflection	<input type="checkbox"/>
Fix imbalanced classes by over-sampling	<input checked="" type="checkbox"/>

# Image Classification – Training Options

- For advanced users, it's possible to customize the training options
- By default, training is done with 70% of images, 20% is reserved for validation and 10% for final testing
- Validation is used to measure the classification accuracy on new images, that were not used during training (i.e. out-of-sample validation)
- Optional k-fold validation

A screenshot of a software interface showing training options. The table has two columns: the left column lists the option names, and the right column shows the current values. Some options have dropdown arrows on the right side of their values. The background of the screenshot shows a faint line graph.

Training options	
Solver	sgdm <input type="text"/>
k-fold validation	1
Max epochs	30
Initial learn rate	0.001
MiniBatch size during training	10
Training (%)	70
Validation (%)	20
Testing (%)	10
Plot colors	Navy <input type="text"/>

Click on "Path to images"  
And select the folder  
The folder must contain  
one sub-folder for each class

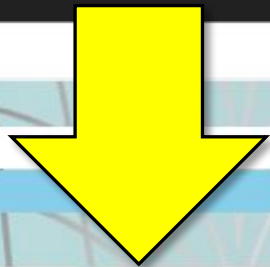


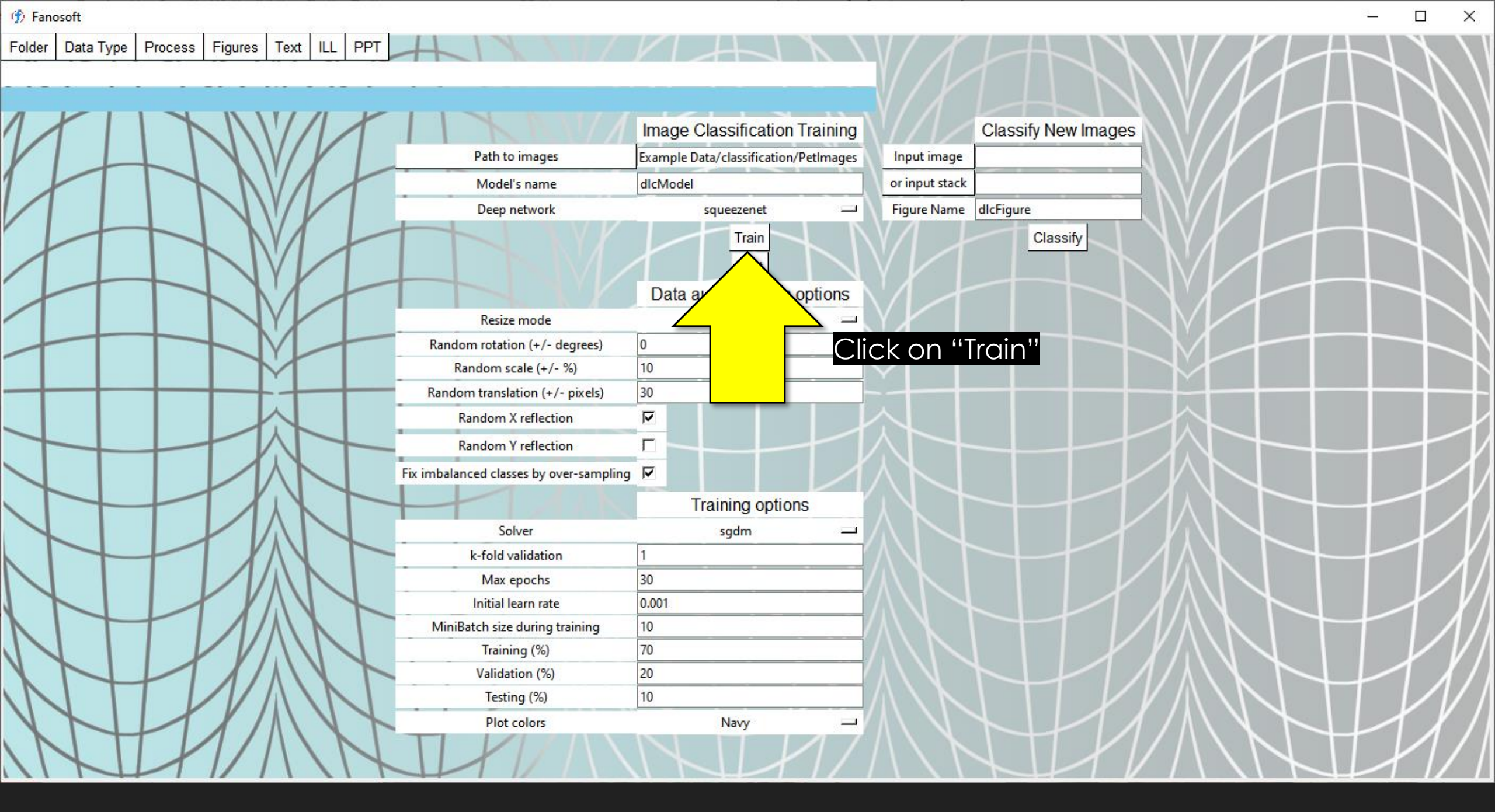
Image Classification Training	
Path to images	
Model's name	dlcModel
Deep network	squeezenet
<input type="button" value="Train"/> <input type="button" value="Test"/>	

Classify New Images	
Input image	
or input stack	
Figure Name	dlcFigure
<input type="button" value="Classify"/>	

Data augmentation options	
Resize mode	resize
Random rotation (+/- degrees)	0
Random scale (+/- %)	10
Random translation (+/- pixels)	30
Random X reflection	<input checked="" type="checkbox"/>
Random Y reflection	<input type="checkbox"/>
Fix imbalanced classes by over-sampling	<input checked="" type="checkbox"/>

Training options	
Solver	sgdm
k-fold validation	1
Max epochs	30
Initial learn rate	0.001
MiniBatch size during training	10
Training (%)	70
Validation (%)	20
Testing (%)	10
Plot colors	Navy





### Image Classification Training

Path to images	Example Data/classification/PetImages
Model's name	dlcModel
Deep network	squeezeNet

Train

### Classify New Images

Input image or input stack	
Figure Name	dlcFigure

Classify

### Data augmentation options

Resize mode	
Random rotation (+/- degrees)	0
Random scale (+/- %)	10
Random translation (+/- pixels)	30
Random X reflection	<input checked="" type="checkbox"/>
Random Y reflection	<input type="checkbox"/>
Fix imbalanced classes by over-sampling	<input checked="" type="checkbox"/>

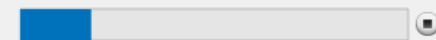
### Training options

Solver	sgdm
k-fold validation	1
Max epochs	30
Initial learn rate	0.001
MiniBatch size during training	10
Training (%)	70
Validation (%)	20
Testing (%)	10
Plot colors	Navy

Click on "Train"

### Training Progress (17-Nov-2023 09:56:37)

Training iteration 930 of 5070...



#### Training Time

Start time: 17-Nov-2023 09:56:37

Elapsed time: 3 min 22 sec

#### Training Cycle

Epoch: 6 of 30

Iterations per epoch: 169

Maximum iterations: 5070

#### Validation

Frequency: N/A

#### Other Information

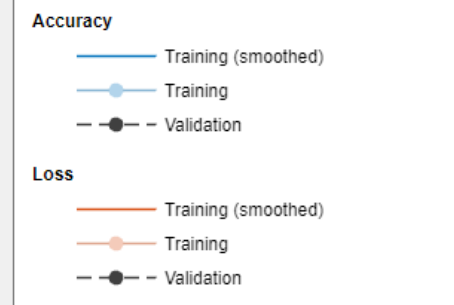
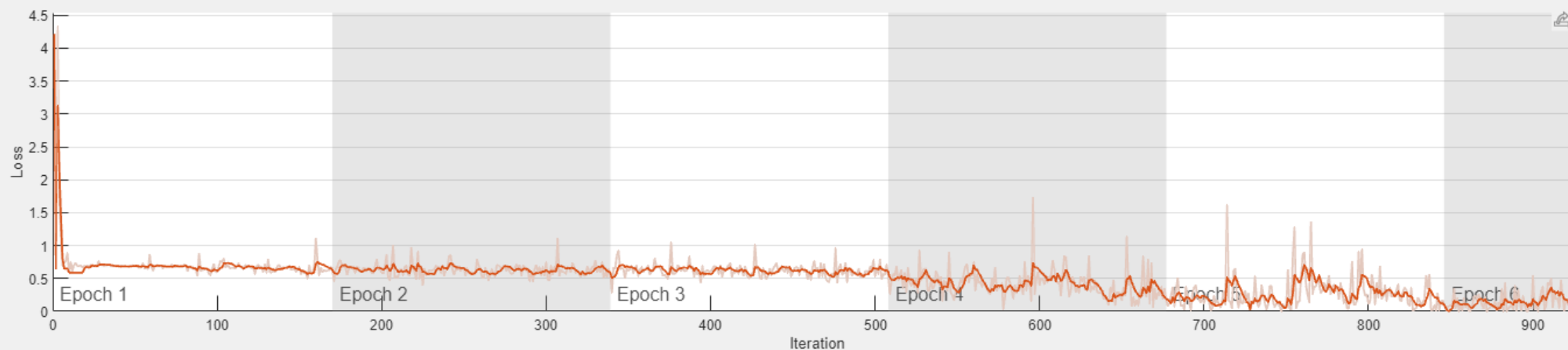
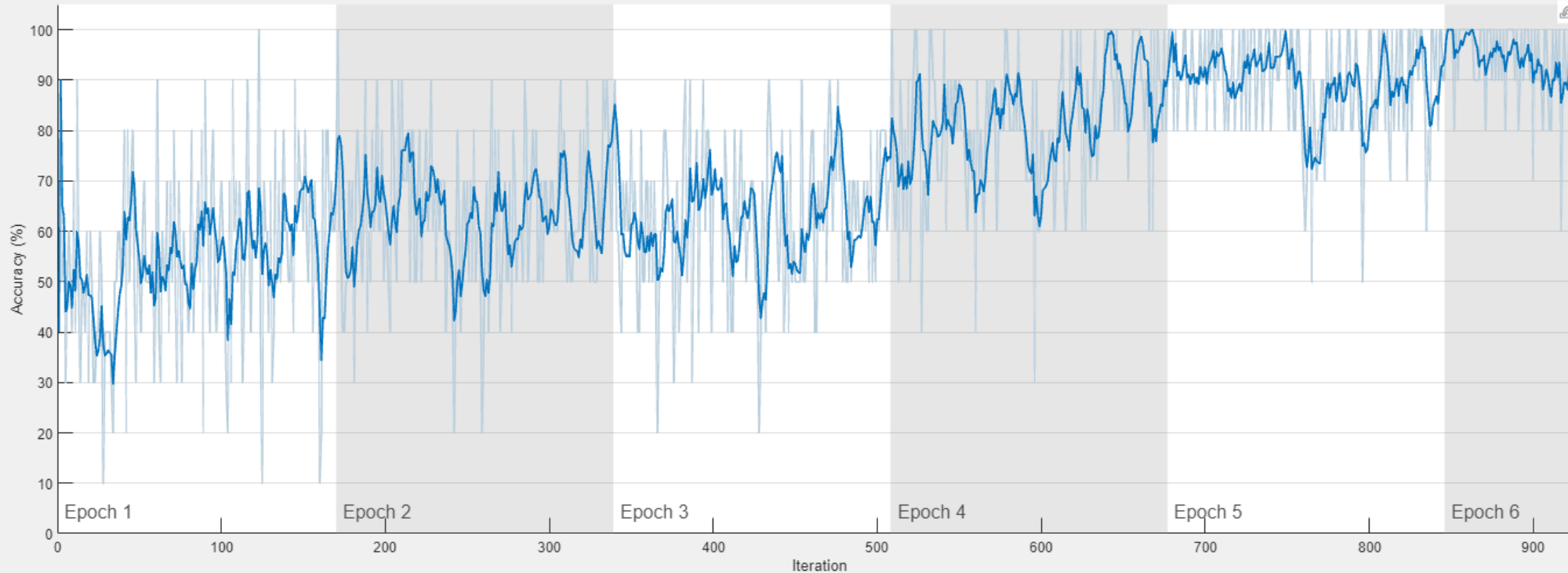
Hardware resource: Single GPU

Learning rate schedule: Constant

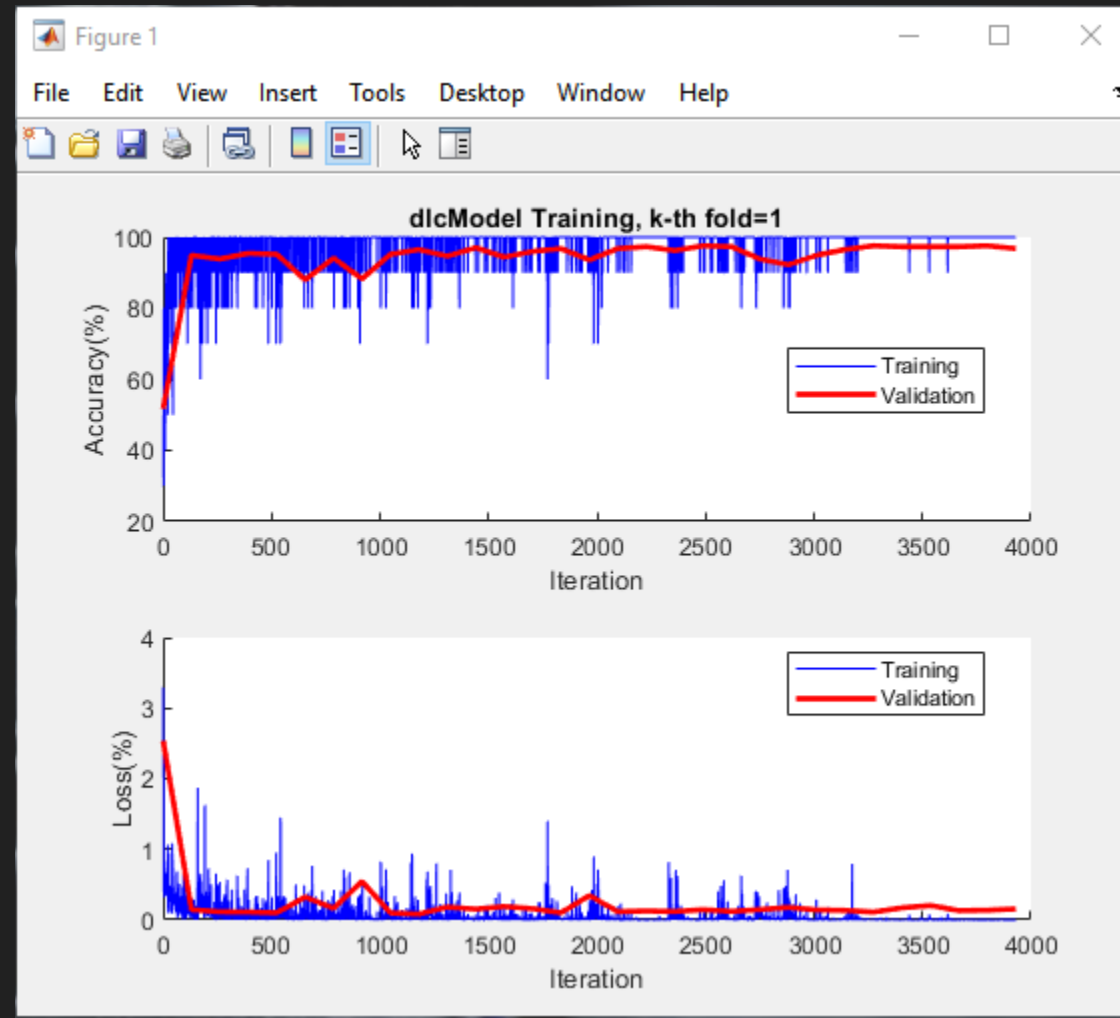
Learning rate: 0.001

Export as Image

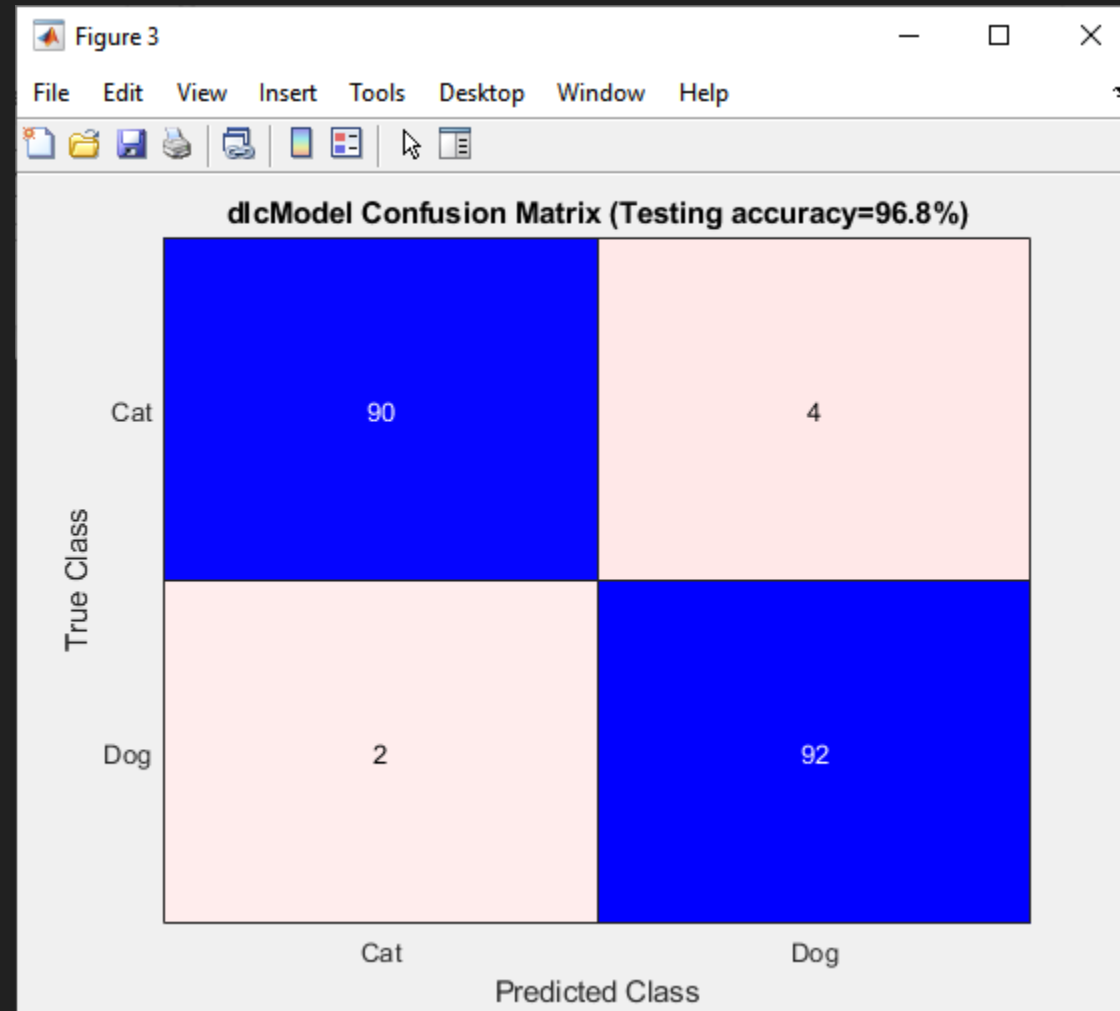
[Learn more](#)



# Image Classification – Results

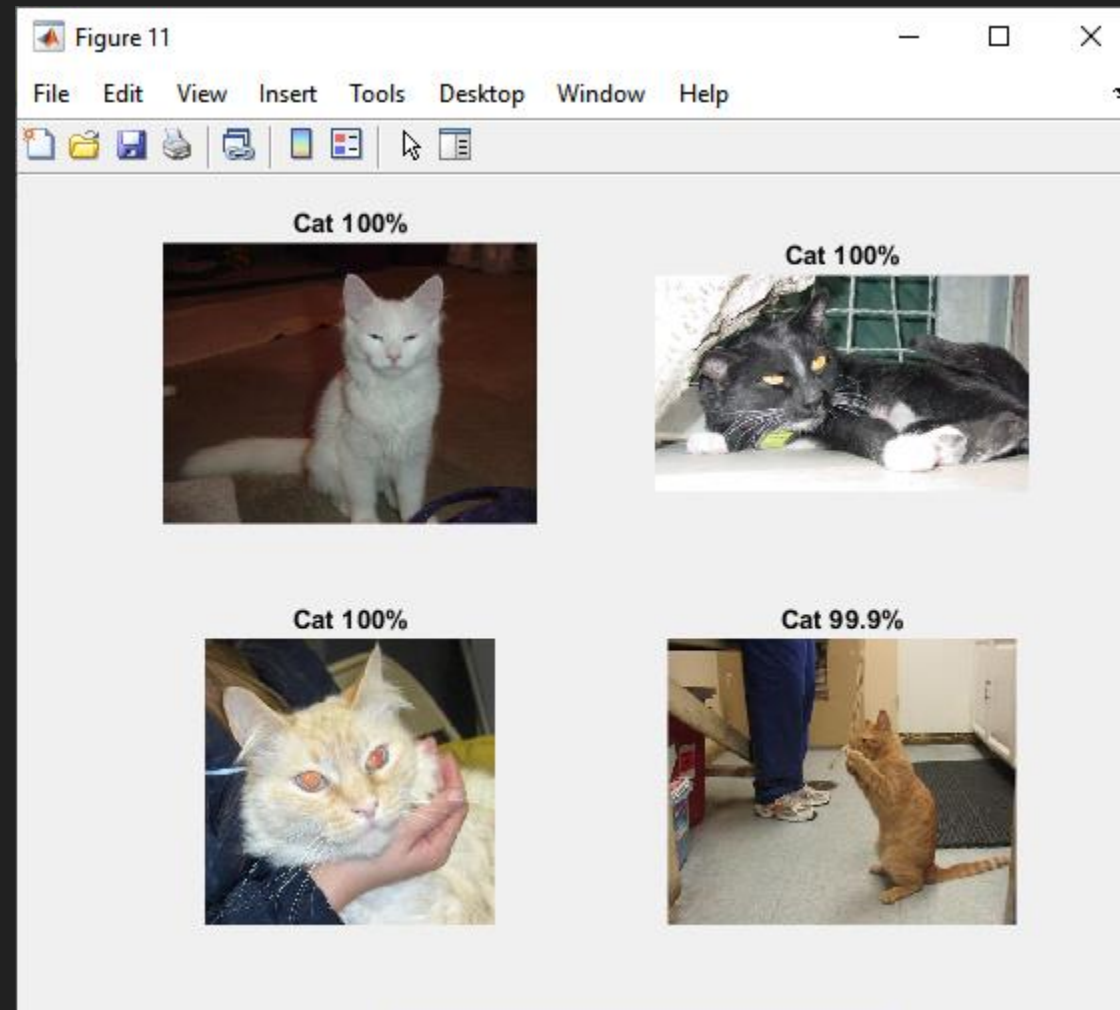


# Image Classification – Results

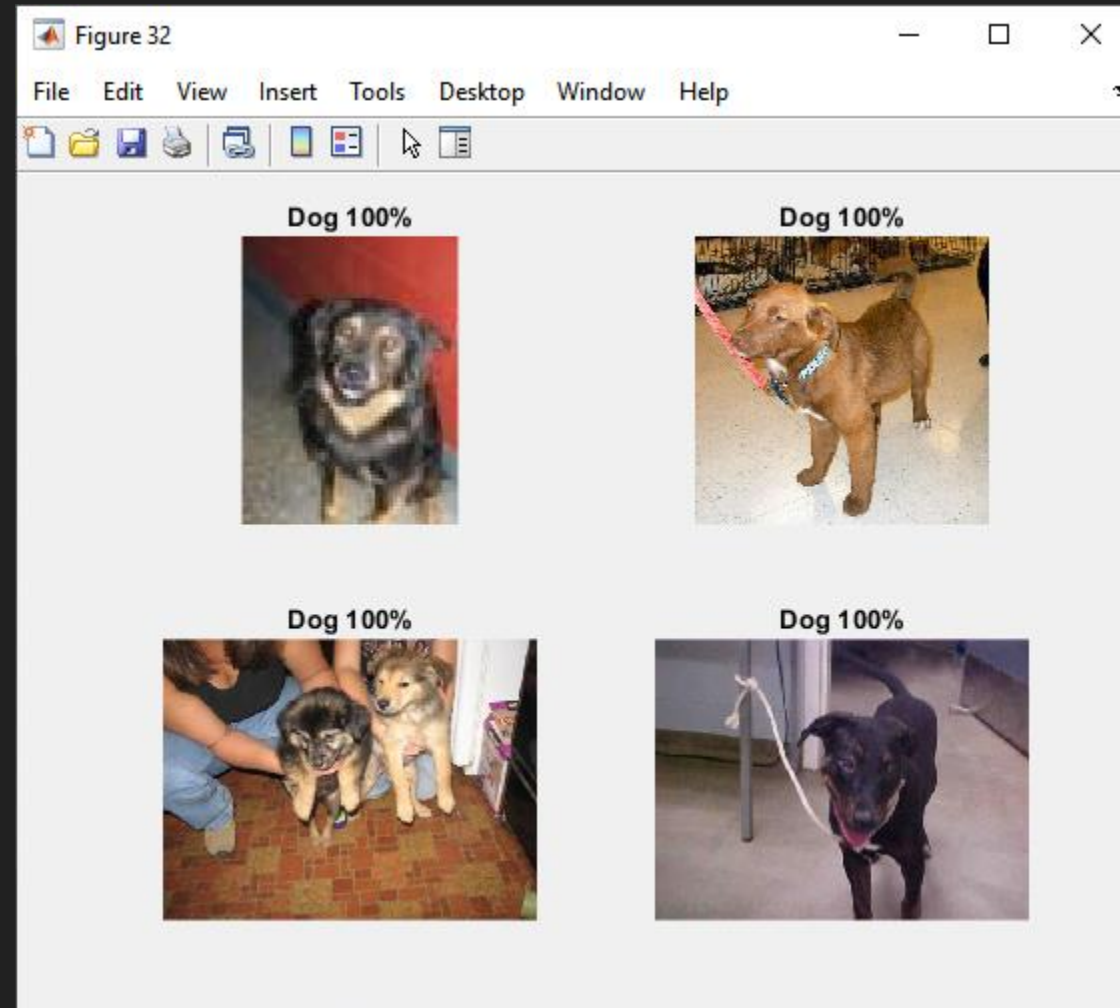




# Image Classification – Results





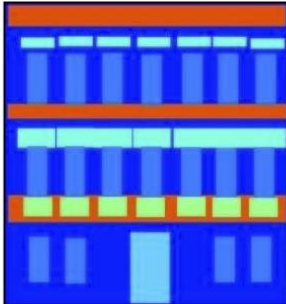



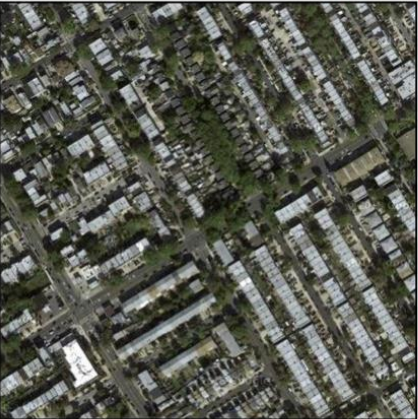

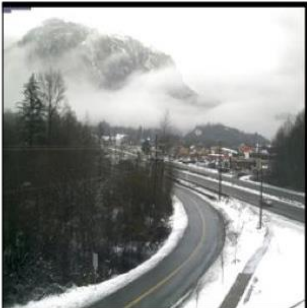



# Image Classification – Results



# Pix2Pix

Image-to-Image Translation with Conditional Adversarial Nets

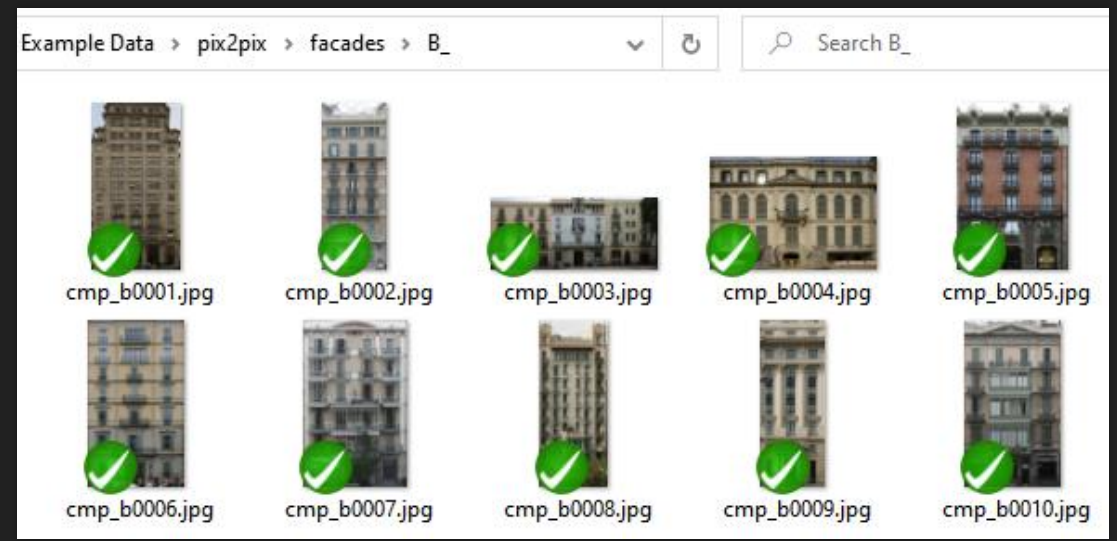
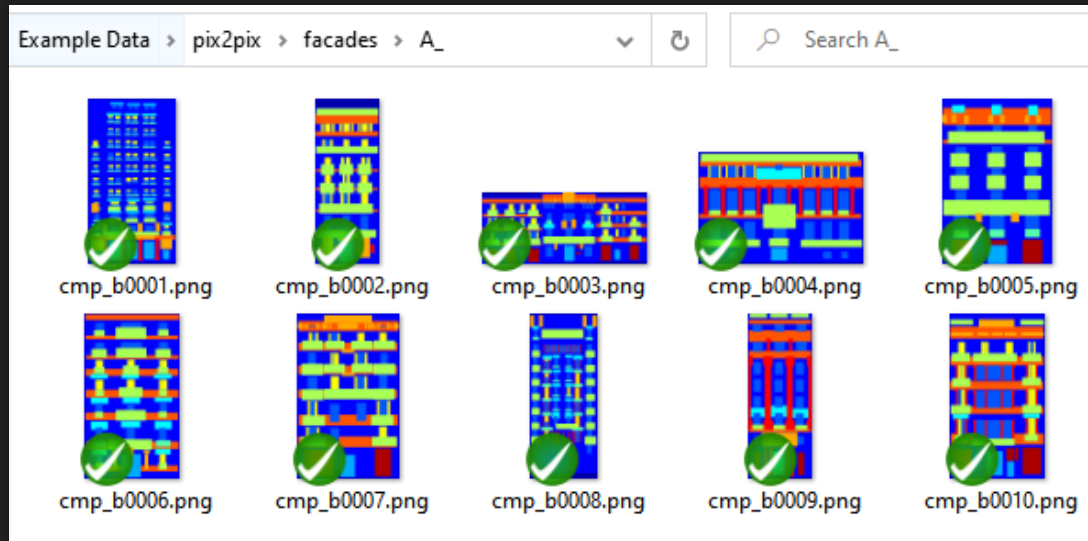
# Pix2Pix Examples

<b>Labels to Street Scene</b>		<b>Labels to Facade</b>		<b>BW to Color</b>	
					
input	output	input	output	input	output
<b>Aerial to Map</b>		<b>Day to Night</b>		<b>Edges to Photo</b>	
					
input	output	input	output	input	output

# Pix2Pix Introduction

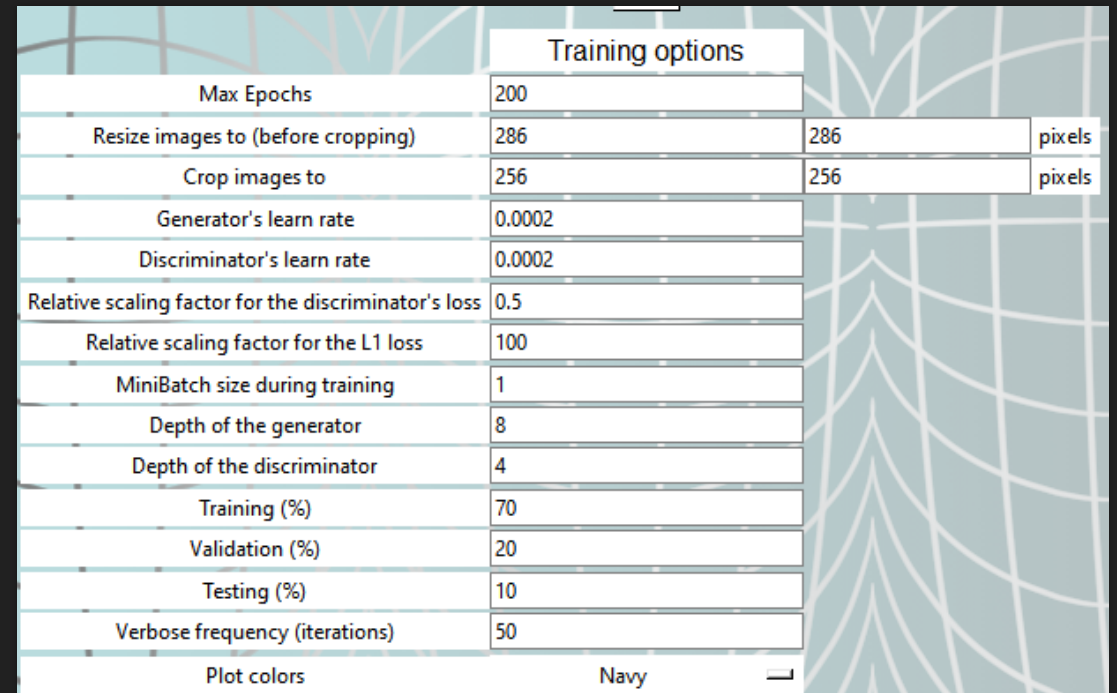
- Pix2Pix = Image-to-Image Translation with Conditional Adversarial Nets
- Training requires a paired dataset:
  - 2 folders, one for the input images and one for the output images
  - Input and output images must have the same filename
  - e.g. "input\cmp\_b004.jpg" → "output\cmp\_b004.jpg"
- Fanosoft uses the GPU when available to speed up the training process

# Pix2Pix Dataset Example: Facade



# Pix2Pix Training Options

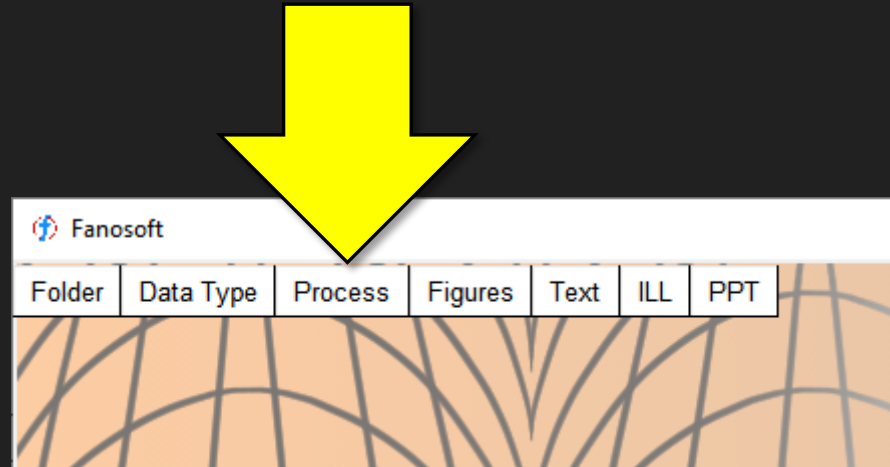
- 200 epochs
- All images resized to 286x286 pixels and cropped to 256x256 pixels for training
- 70% training, 20% validation and 10% testing (configurable)
  - Training images used to train the neural network weights
  - Validation images used to show translation results on unseen images during training
  - Test images used only at the end of training to show some translation examples



Training options			
Max Epochs	200		
Resize images to (before cropping)	286	286	pixels
Crop images to	256	256	pixels
Generator's learn rate	0.0002		
Discriminator's learn rate	0.0002		
Relative scaling factor for the discriminator's loss	0.5		
Relative scaling factor for the L1 loss	100		
MiniBatch size during training	1		
Depth of the generator	8		
Depth of the discriminator	4		
Training (%)	70		
Validation (%)	20		
Testing (%)	10		
Verbose frequency (iterations)	50		
Plot colors	Navy		

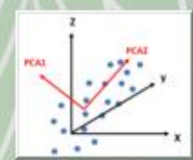
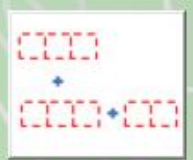
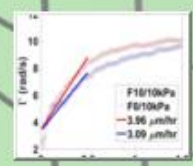
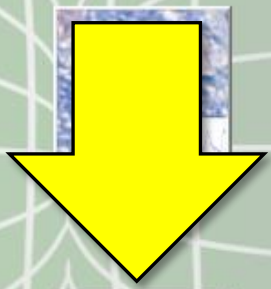
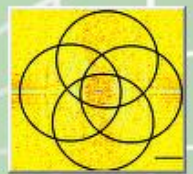
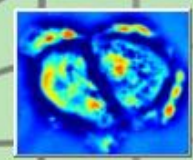
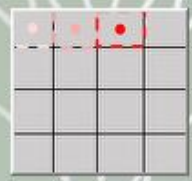
# Pix2Pix in Fanosoft

- Click on “Process”

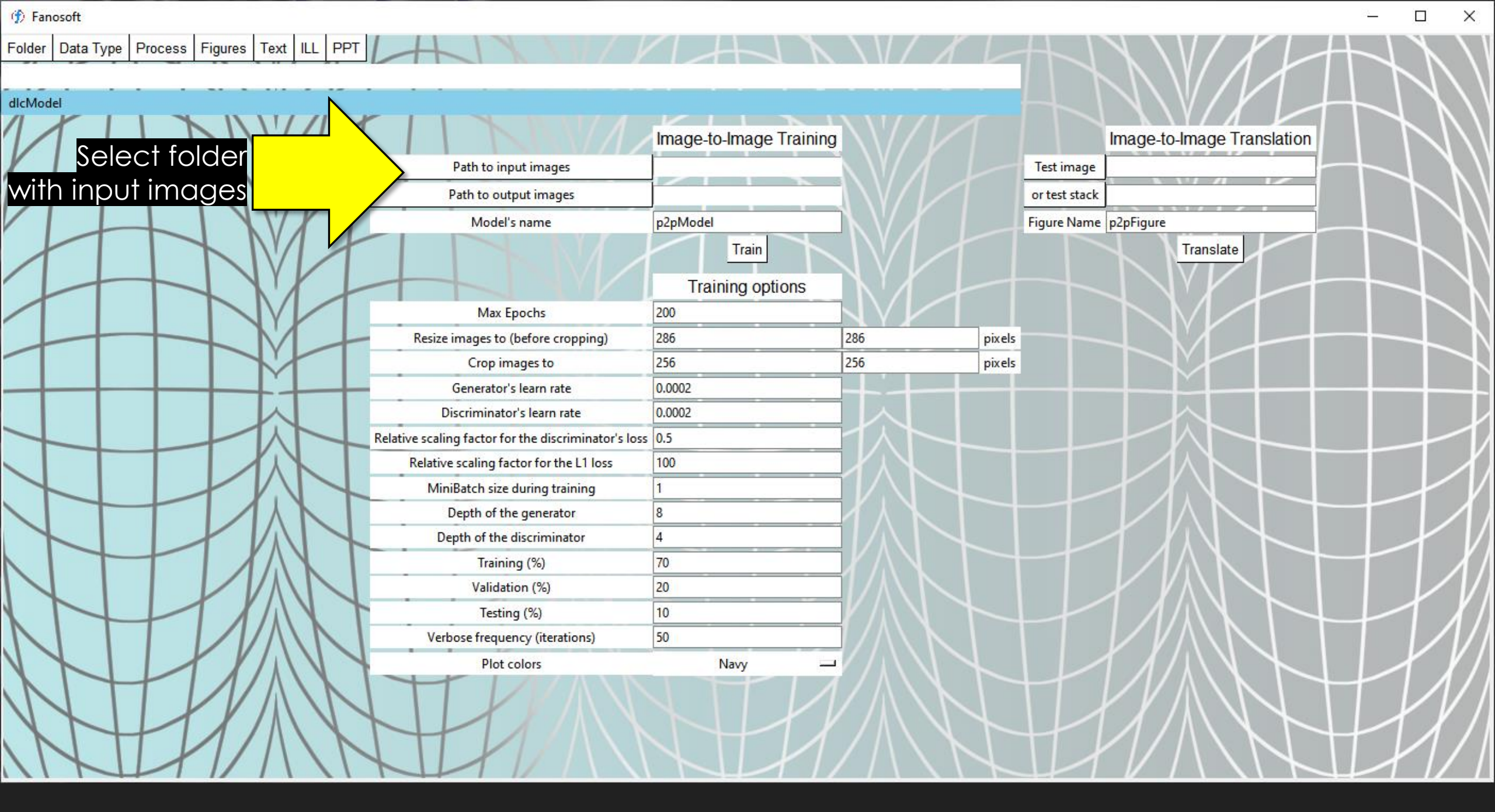




$$\frac{\lambda}{2\pi\alpha} \phi(x,y)$$

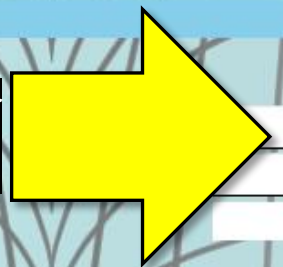






dlcModel

Select folder with input images



### Image-to-Image Training

Path to input images	
Path to output images	
Model's name	p2pModel

Train

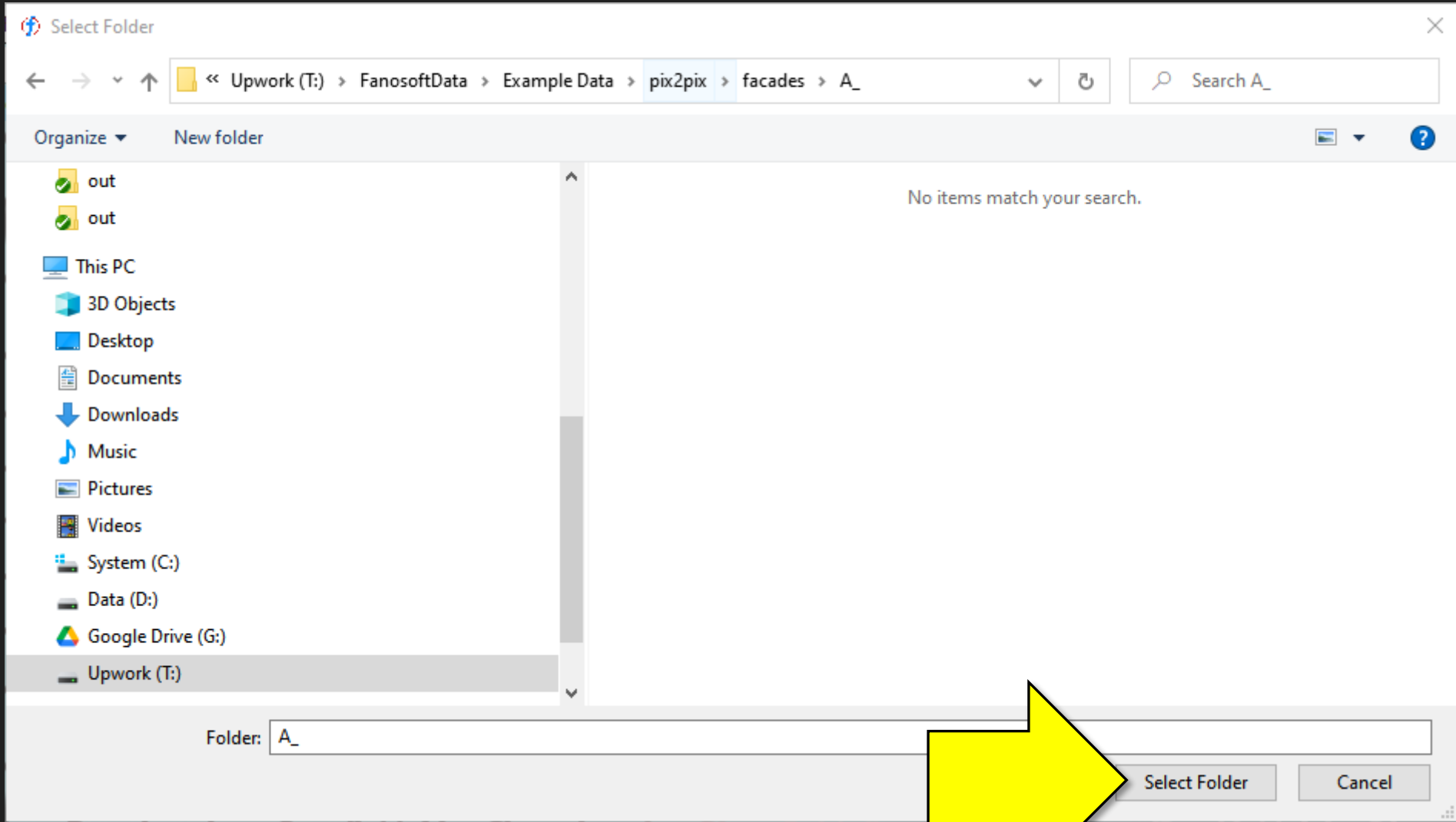
### Training options

Max Epochs	200		
Resize images to (before cropping)	286	286	pixels
Crop images to	256	256	pixels
Generator's learn rate	0.0002		
Discriminator's learn rate	0.0002		
Relative scaling factor for the discriminator's loss	0.5		
Relative scaling factor for the L1 loss	100		
MiniBatch size during training	1		
Depth of the generator	8		
Depth of the discriminator	4		
Training (%)	70		
Validation (%)	20		
Testing (%)	10		
Verbose frequency (iterations)	50		
Plot colors	Navy		

### Image-to-Image Translation

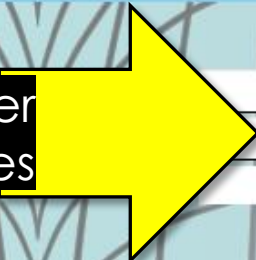
Test image	
or test stack	
Figure Name	p2pFigure

Translate



dlcModel

Select folder  
with output images



## Image-to-Image Training

Path to input images xample Data/pix2pix/facades/A

Path to output images

Model's name p2pModel

Train

## Training options

Max Epochs	200		
Resize images to (before cropping)	286	286	pixels
Crop images to	256	256	pixels
Generator's learn rate	0.0002		
Discriminator's learn rate	0.0002		
Relative scaling factor for the discriminator's loss	0.5		
Relative scaling factor for the L1 loss	100		
MiniBatch size during training	1		
Depth of the generator	8		
Depth of the discriminator	4		
Training (%)	70		
Validation (%)	20		
Testing (%)	10		
Verbose frequency (iterations)	50		
Plot colors	Navy	▾	

## Image-to-Image Translation

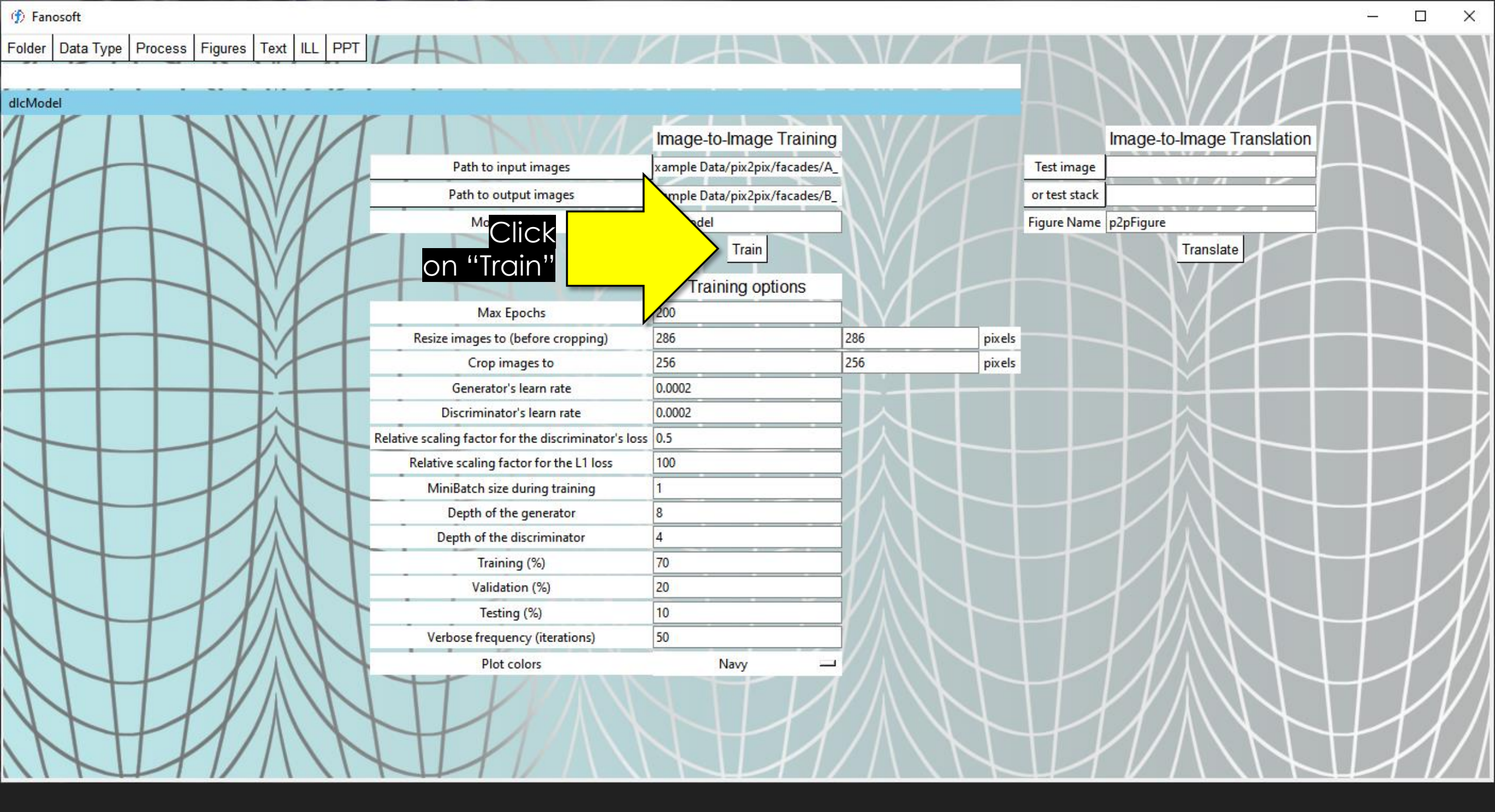
Test image

or test stack

Figure Name p2pFigure

Translate



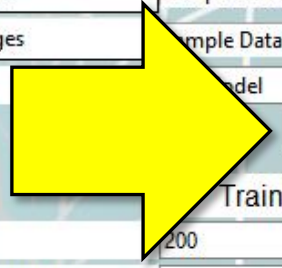


dlcModel

### Image-to-Image Training

Path to input images	Example Data/pix2pix/facades/A_
Path to output images	Example Data/pix2pix/facades/B_
Model	Model

Click on "Train"



Train

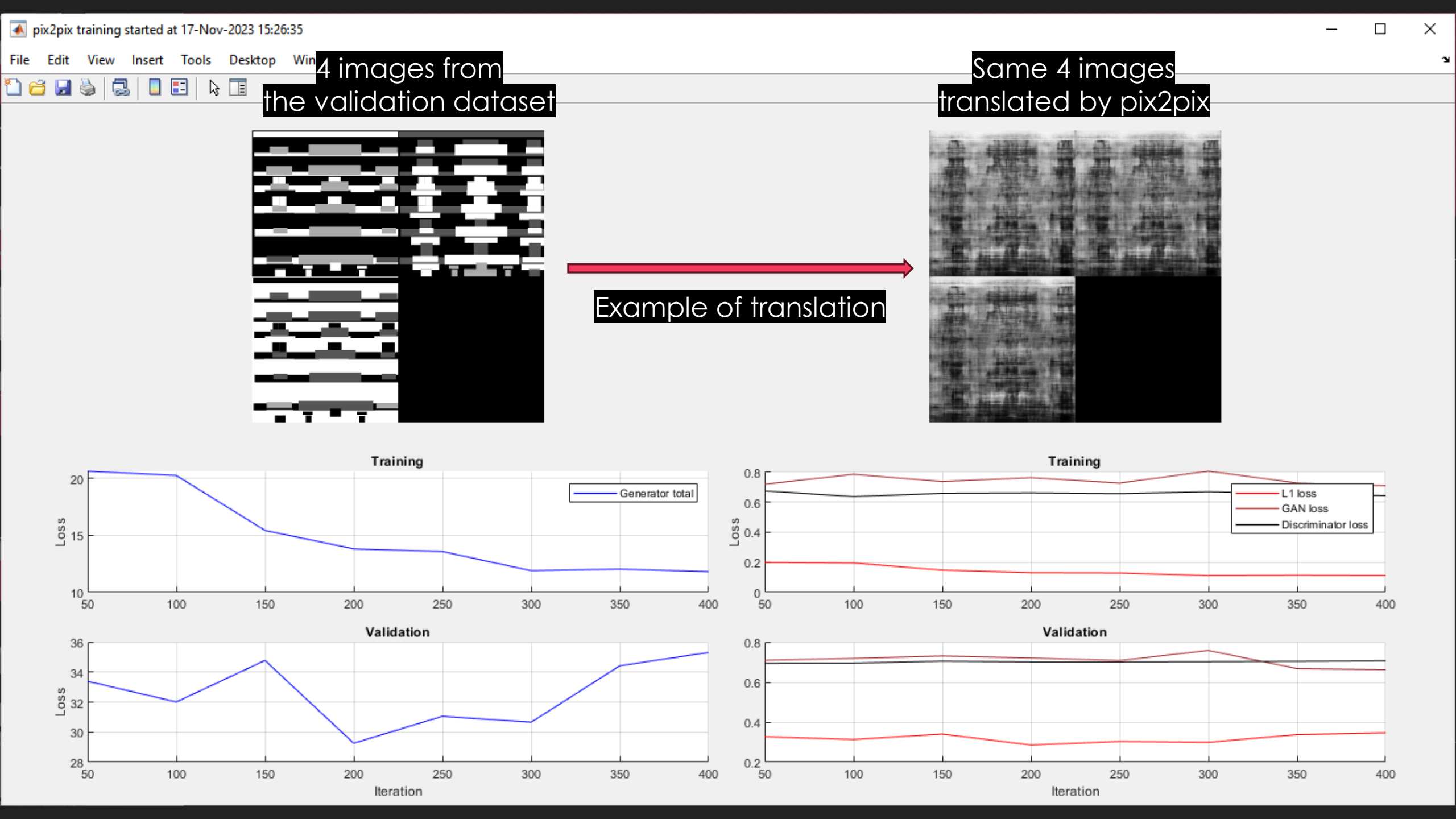
### Training options

Max Epochs	200		
Resize images to (before cropping)	286	286	pixels
Crop images to	256	256	pixels
Generator's learn rate	0.0002		
Discriminator's learn rate	0.0002		
Relative scaling factor for the discriminator's loss	0.5		
Relative scaling factor for the L1 loss	100		
MiniBatch size during training	1		
Depth of the generator	8		
Depth of the discriminator	4		
Training (%)	70		
Validation (%)	20		
Testing (%)	10		
Verbose frequency (iterations)	50		
Plot colors	Navy	▾	

### Image-to-Image Translation

Test image	
or test stack	
Figure Name	p2pFigure

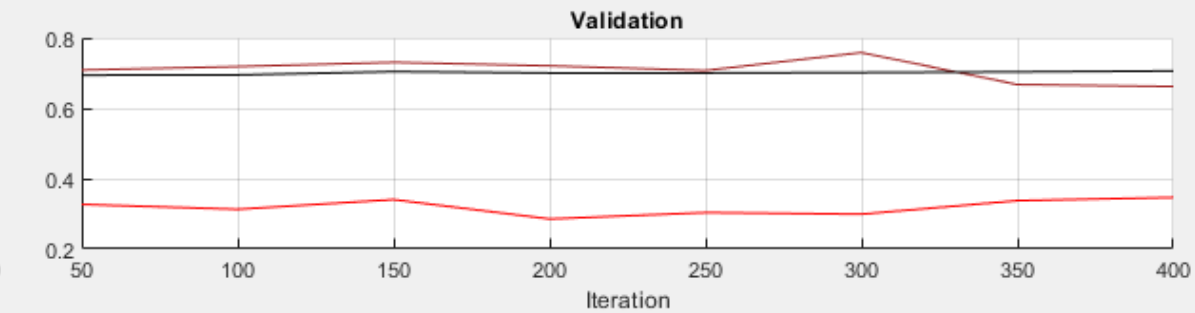
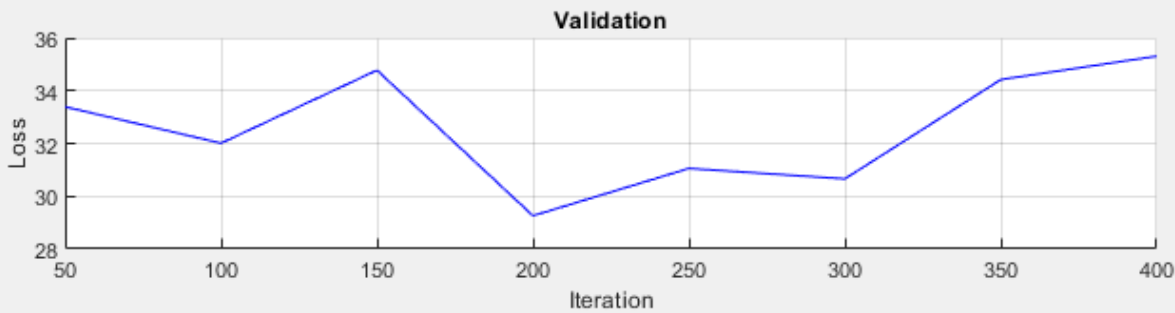
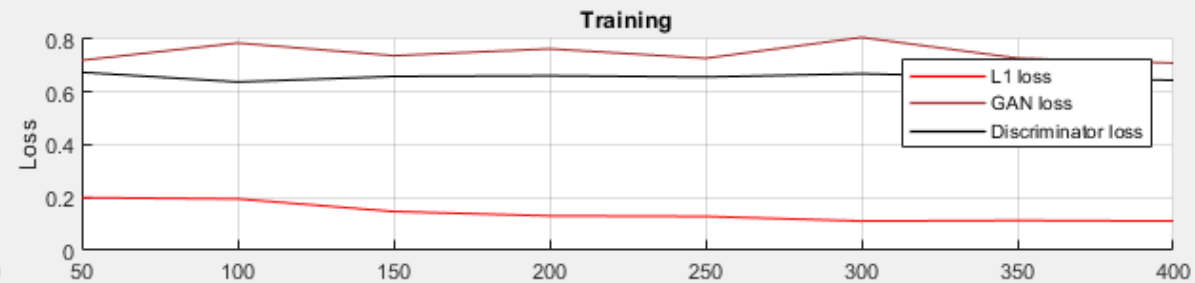
Translate



4 images from the validation dataset

Same 4 images translated by pix2pix

Example of translation





# ChatGPT

Generate scientific publications templates from keywords

# ChatGPT

- ChatGPT used to generate scientific publications templates from keywords!
- Format compatible with major journals (e.g. Nature Communications)
- Enter the desired keywords or select values in drop down menus
- Optionally select the figures to insert in the publication

# ChatGPT Example – Scientific Paper

## Chapter 1. Abstract

In this interpretation, we examine the capability of [microscopy](method) to [quantify myelination] (method\_process) at the individual [mechanical signaling](biological\_process) point. We have shared the preliminary outcomes showing the potential of [quantitative phase imaging](methodology1) for [Gabor's holography](methodology2) and rapidly achieving [differential diagnosis](methodology3). Registering the developments of [immunofluorescent images](process\_results) with [dry mass videos](process) permits the assessment of [expression of proteins](biological\_process1) all through the span of [remyelination](biological\_process2). To start the process of [quantitative phase imaging] (methodology1) based on [Gabor's holography](methodology2), we carried out a [qualitative evaluation] (process\_assessment) of our unlabeled photos. Initial research has revealed that the closeness and interaction of [matrix](biological\_structure1) plays a part in normal [B16 F10s cells] (biological\_structure2). Significant [mechanical signaling](biological\_process) difference in [anterior commissure](biological\_structure) was reported and notably high [anterior commissure] (biological\_structure) was observed in [patient cohort](study\_process). In conclusion, [anterior commissure](biological\_structure) may offer greater medically valuable data on [solid tumors](disease) and highlights the important role of [stroma-cancer interactions](disease\_connections). These results will provide insight on the details of the [mechanical signaling](biological\_process) when we increase the sensitivity and reliability of [quantitative phase imaging](methodology1) in [Gabor's holography] (methodology2) and [brain tissues](biological\_structures).

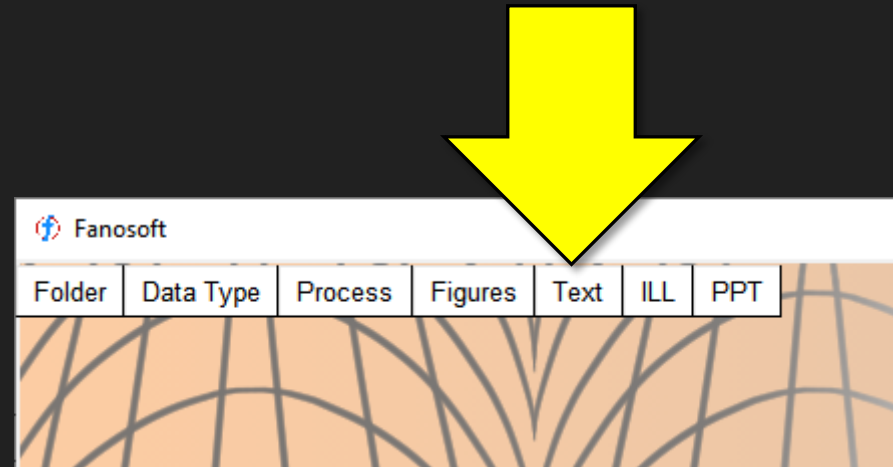
# ChatGPT Example – Scientific Paper

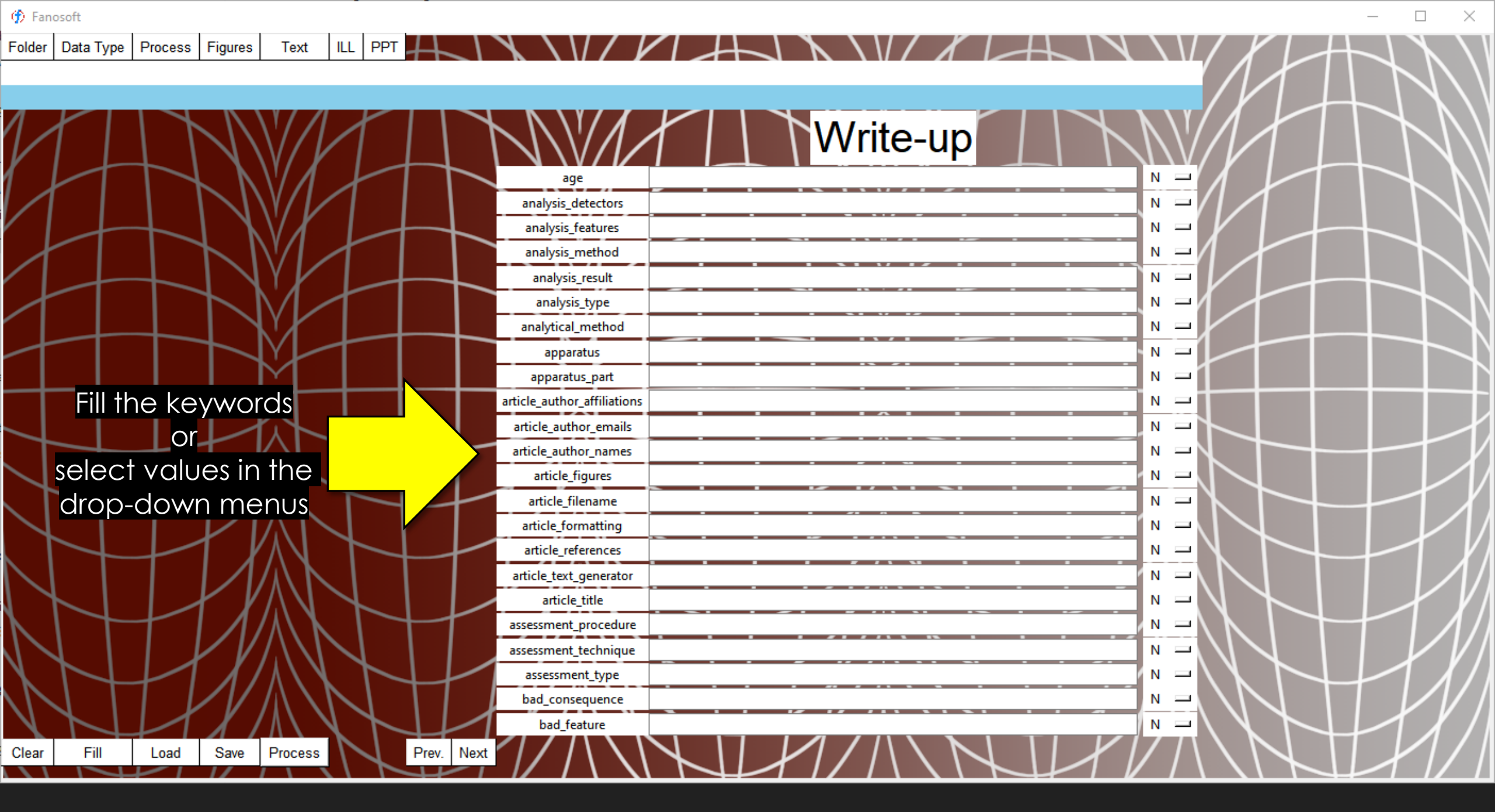
## Chapter 2. Introduction

[breast cancer](disease\_type) is the second most common form of [solid tumors](disease) detected across the world, making up for [11.9% of all cancers](disease\_statistics) discovered in [2012](year). Many [autoimmune](biological\_condition) [solid tumors](disease) disorders have been linked to differences in the [expression of proteins](biological\_process1) that are bound to perform [remyelination](biological\_process2). [solid tumors](disease) on its own has a prevalence of [11.9% of all cancers](disease\_statistics) individuals in the US. [solid tumors](disease) seems to have a [conservative estimate](statistical\_term) of a national annual cost of [\$6.8 billion](cost) in the healthcare industry. Its prevalence is significantly increasing globally; it is being considered as the second major reason of [solid tumors](disease) mortality in the US in [2012](year). Furthermore, the all-cause mortality is considerably higher in [solid tumors](disease) affected individuals compared to the unaffected individuals, with an average lifespan lessened by [2012](year). The biggest number of all-cause fatality is substantially larger in [malignant pancreatic tumor cases (85%)](disease\_occurrence) are [solid tumors](disease). [malignant melanoma](disease1) constantly considered as the most dangerous human [cancers](disease2) and is becoming the second most significant [cancer](disease3) killer by [2012](year). The [anterior

# ChatGPT in Fanosoft

- Click on "Text"

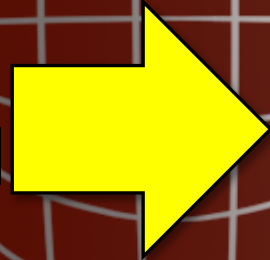




# Write-up

age		N	▾
analysis_detectors		N	▾
analysis_features		N	▾
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analysis_result		N	▾
analysis_type		N	▾
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apparatus		N	▾
apparatus_part		N	▾
article_author_affiliations		N	▾
article_author_emails		N	▾
article_author_names		N	▾
article_figures		N	▾
article_filename		N	▾
article_formatting		N	▾
article_references		N	▾
article_text_generator		N	▾
article_title		N	▾
assessment_procedure		N	▾
assessment_technique		N	▾
assessment_type		N	▾
bad_consequence		N	▾
bad_feature		N	▾

Fill the keywords  
or  
select values in the  
drop-down menus



# Write-up

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analysis_features		N	▾
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bad_feature		N	▾

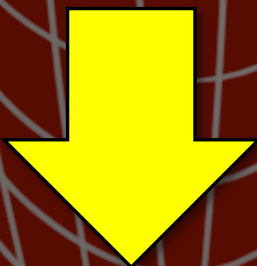
Click Prev or Next  
to access others  
keyword pages



# Write-up

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analysis_features		N	▾
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assessment_technique		N	▾
assessment_type		N	▾
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bad_feature		N	▾

Click Fill  
to fill all  
keywords





## Write-up

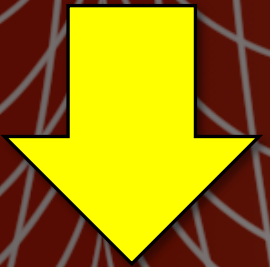
chatGPT specific fields  
Enter questions in natural  
language for chatGPT  
e.g. "What is Cancer"

chatgpt_abstract1	#chatgpt_abstract1	N	▾
chatgpt_abstract2	#chatgpt_abstract2	N	▾
chatgpt_discussion1	#chatgpt_discussion1	N	▾
chatgpt_discussion2	#chatgpt_discussion2	N	▾
chatgpt_introduction1	#chatgpt_introduction1	N	▾
chatgpt_introduction2	#chatgpt_introduction2	N	▾
chatgpt_methods1	#chatgpt_methods1	N	▾
chatgpt_methods2	#chatgpt_methods2	N	▾
chatgpt_results1	#chatgpt_results1	N	▾
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chemical2	#chemical2	N	▾
chemical3	#chemical3	N	▾
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chemical_quantity3	#chemical_quantity3	N	▾
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company	#company	N	▾
cost	#cost	N	▾
criterion1	#criterion1	N	▾
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# Write-up

bad_structural_feature	#bad_structural_feature	N	▾
biological_cell_entry	#biological_cell_entry	N	▾
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biological_detection_techniques	#biological_detection_techniques	N	▾
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biological_individual	#biological_individual	N	▾
biological_molecules	#biological_molecules	N	▾
biological_process	#biological_process	N	▾
biological_process1	#biological_process1	N	▾
biological_process2	#biological_process2	N	▾
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biological_state1	#biological_state1	N	▾
biological_state2	#biological_state2	N	▾
biological_state3	#biological_state3	N	▾
biological_structural_feature	#biological_structural_feature	N	▾
biological_structure	#biological_structure	N	▾

Click Process to create the publication



# Dall.E

Create images, illustration and art from a description in natural language

# Dall.E Examples

- Create images, illustration and art from a description in natural language
- e.g. "An oil painting by Matisse of a humanoid robot playing chess"



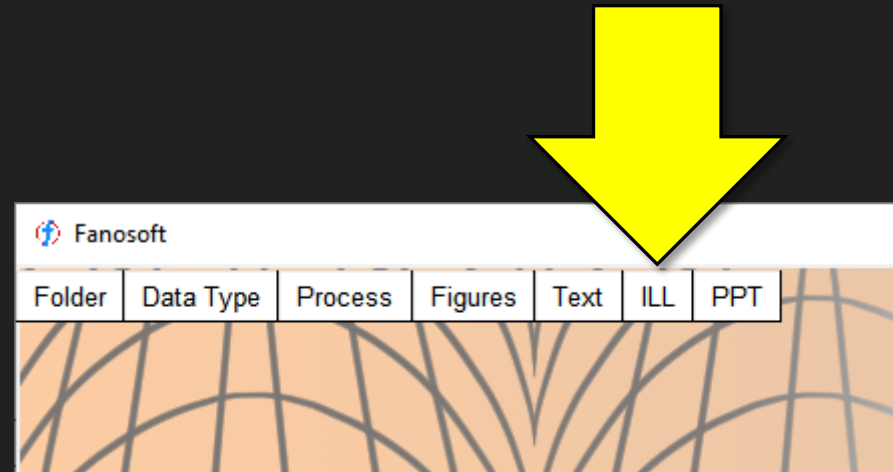
# Dall.E in Fanosoft

- Can create up to 9 images per run
- Provide a description in natural language for each image
- Provide the desired type of output: Pencil drawing, Simple sketch, etc. (see right)

Pencil drawing  
Simple sketch  
Vector art  
Geometrical art  
Real photo  
Line art  
Style of minimalism  
Vintage style  
Flat art  
Oil painting  
Pixel art

# Dall.E in Fanosoft

- Click on “ILL”



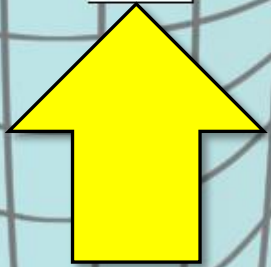
# ILL

- |                         |                 |                            |               |                          |                |
|-------------------------|-----------------|----------------------------|---------------|--------------------------|----------------|
| a cat submarine chimera | Vector art      | owl dressed a librarian    | Simple sketch | cute tropical fish       | Pixel art      |
| he shape of an avocado  | Oil painting    | a futuristic neon lit cybo | Vector art    | a photo of a white fur m | Flat art       |
| oid robot playing chess | Geometrical art | a photo of a silhouette o  | Real photo    | A computer from the 90   | Pencil drawing |

Figure Name illustration

SUBMIT

Preview



# Dall.E in Fanosoft

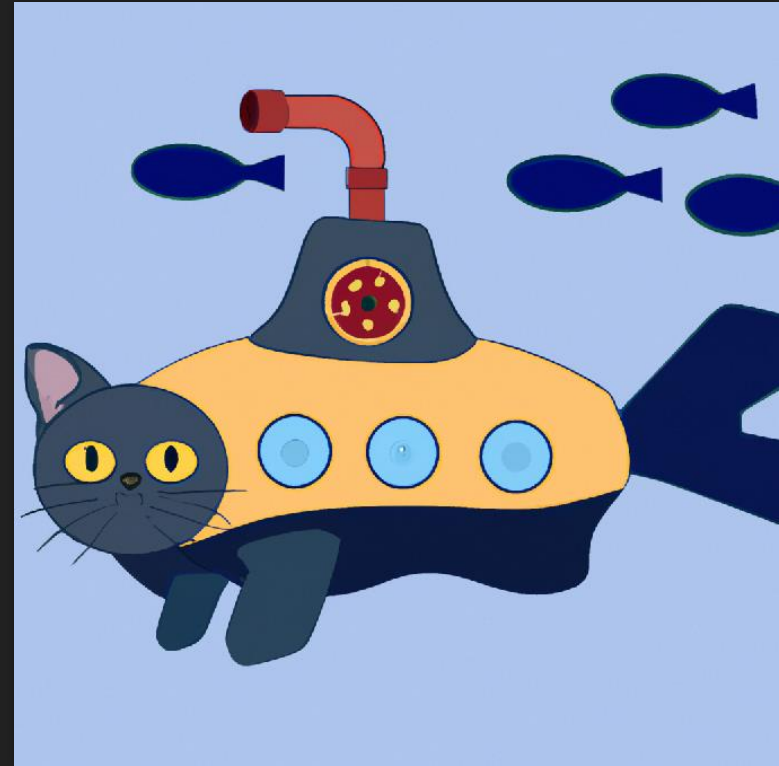
- Preview only displays the figure on the screen.
- Submit generates a .jpeg image and a PowerPoint slide in the user's directory
  - The filename is given by the field "Figure Name"





# Dall.E in Fanosoft

- "A cat submarine chimera"
- Vector Art



# Dall.E in Fanosoft

- “A stern-looking owl dressed a librarian”
- Simple sketch



# Dall.E in Fanosoft

- “A cute tropical fish”
- Pixel art



# Dall.E in Fanosoft

- "An armchair in the shape of an avocado"
- Oil painting



# Dall.E in Fanosoft

- “A futuristic neon lit cyborg face”
- Vector art



# Dall.E in Fanosoft

- “A photo of a white fur monster standing in a purple room”
- Flat art



# Dall.E in Fanosoft

- “An oil painting by Matisse of a humanoid robot playing chess”
- Geometrical art



# Dall.E in Fanosoft

- “A photo of a silhouette of a person in a color lit desert at night”
- Real photo





# Dall.E in Fanosoft

- "A computer from the 90s in the style of vaporwave"
- Pencil drawing

