

# Blood Flow Aneurysm Tutorial Publishing to SeedMe.org

## From VisItusers.org

Results from visualization and analysis are often shared with collaborators. SeedMe.org (<https://www.seedme.org>) provides an easy to automate sharing and collaboration platform.

## Required setup

- Sign-up (<https://www.seedme.org/user/register>) at SeedMe.org
- Download (<https://www.seedme.org/user>) your *API Key file*, then move it to your Home directory ([https://en.wikipedia.org/wiki/Home\\_directory](https://en.wikipedia.org/wiki/Home_directory)) .

## Sharing automation script

In this section we will render and save pathline trace in 20 steps. Then upload and share the rendered 20 images as a sequence and instruct SeedMe to encode a video from these set of images at 2 frames per second. A sample video can be seen here (<https://www.seedme.org/node/49054#videos>)

Brief explanation is provided in comments and detailed example can be seen here (<https://bitbucket.org/seedme/seedme-python-client/src/master/demo.py?at=master&fileviewer=file-view-default>) .

- Open the Commands Window
  - [Controls Menu]->Command
- Find an empty tab
- Paste the following Python snippet into this tab

```
#####
# To do : Set the following four variables
#####
seedme_apikey_path = '/absolute/path/to/seedme.txt'
my_rendered_image_path = "/absolute/path/for/images/" # does not traverse recursively
my_content_privacy = "public" # private (default), group, public
my_share_list = "one@example.com, two@example.com" # comma delimited emails

# Set save window attributes including path where the rendered images will be saved
sa = SaveWindowAttributes()
sa.outputToCurrentDirectory = 0
sa.outputDirectory = my_rendered_image_path
sa.fileName = "pathline"
sa.family = 1
sa.format = sa.PNG
sa.width = 512
sa.height = 512
sa.screenCapture = 0
sa.saveTiled = 0
sa.quality = 80
sa.progressive = 0
```

```

sa.binary = 0
sa.stereo = 0
sa.compression = sa.PackBits # None, PackBits, Jpeg, Deflate
sa.forceMerge = 0
sa.resConstraint = sa.ScreenProportions # NoConstraint, EqualWidthHeight, ScreenProportions
sa.advancedMultiWindowSave = 0
SetSaveWindowAttributes(sa)

# Now save this pathline visualization in 20 frames (images)
# Animate our pathlines by cropping based on time
satts = StreamlineAttributes()
satts.referenceTypeForDisplay = satts.Time
satts.displayEndFlag = 1

nsteps = 20 # Number of steps
final_time = .995
for i in range(nsteps+1):
    satts.displayEnd = final_time * i / nsteps
    SetPlotOptions(satts)
    SaveWindow() # will save images at the sa.outputDirectory provided above

# -----#
# Upload and share content at SeedMe.org
# Instruct the seedme module to upload 20 images then encode a video from it
# seedme module ships with VisIt 2.9.x +
# -----#
import seedme

# Set path to the APIKey file
obj.set_auth_via_file(seedme_apikey_path)

# Create a dictionary for rendered image sequence
my_seq = {
    "filepath": my_rendered_image_path,
    "title": "Pathline",
    "description": "Pathlines show the path massless tracer particles would take if advected by the vector",
    "fps": 2,
    "encode": True,
}

# Create seedme object
obj = seedme.SeedMe()

# Create a new collection using create_collection method
# composed with title and sequence with public access, shared with two people
result=obj.create_collection(title="Aneurysm vis",
                            privacy=my_content_privacy, # string = One of private(default), group, public
                            sharing=my_share_list, # string = Comma delimited emails
                            notify=True, # Boolean = False(default) send email notification to above two emails
                            sequences=my_seq, # upload sequence
                            )

# create_collection returns the result as a string in json format
print result

url = obj.get_url(result)
# Visit this url on your web browser
print("\n\nThe url for this collection is: " + url)

```

### ■ Click Execute

To view your shared content login (<https://www.seedme.org/user>) to SeedMe.org then navigate to My collections (<https://www.seedme.org/collections>) .

Next: Calculating the Flux Through a Surface

Aneurysm Tutorial Index

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