

# Getting student images into Classroom

Do you want student images to show up in Apple's Classroom tool? You have come to the right place.

## Overview

1. Images
2. Large and small format of each student's image
3. Properly named
  - %user\_identifier% = SIS/Student ID
  - %size% = large or small
4. Web server to host images
5. Some form of security
6. Enter the URL into FileWave Admin Preferences

## Images

Many photography companies will name and resize images to whatever you need. Try contacting them before spending too much time creating perfect images.

It might also be worth checking out how your SIS and/or Library checkout system store and share images, you may just be able to share that folder.

## Image Name

Student image files have three requirements.

- %user\_identifier% = SIS/Student ID
- %size% = large or small
- extension = png or jpg

### %user\_identifier%

If I was looking at ASM (Apple School Manager), and my students were showing with IDs like S0001, S0002 etc.

Search People								
Search Person Number Only								
	Status	Person ...	First Name	Last Name	...	Grade Le...	Role	M...
PS	Active	S0001	PN	Stud	pi...	None	Student	
BP	Active	S0001	Balinda	Pink-bow	b...	5	Student	
BS	Active	S0002	Ben	Student	b...	5	Student	
PB	Active	S0003	Parker	Blue-Plad	b...	5	Student	
PG	Active	S0004	Pari	Green-Scarf	b...	5	Student	
SE	Active	S0004	Schueler	Eins	c...	None	Student	
HB	Active	S0005	Hedi	Blue-Eyes	b...	5	Student	
SW	Active	S0005	Steven	Wigan	c...	None	Student	
JB	Active	S0006	Jason	Black-Shirt	b...	5	Student	

Then I would know that S0001 should be used for %user\_identifier%

Be Careful: Apple School Manager lists "Person Number" and "Person ID" and you want to use "Person Number" when naming the images

## %size%

As of the writing of this document, Apple has specified small and large versions of images are needed, but not the size.

FileWave's recommendation regarding image size are:

Small: 675x1024 pixels  
Large: 2700x4100 pixels

Test a few before deploying hundreds of images to ensure that these sizes work well with your student devices.

## Web Server

There are two main ways to list and share images (with some minor variation)

- A web server with a directory(folder) of student images
- A web server running some scripts (like python, java)































We will only talk about option one here, if you are advanced enough to program option two, you probably don't need FileWave's help.

What if I don't know which one to do?

If you don't know which one is best or you can do. A directory of images is by far the easiest. But always feel free to contact support with further questions and help.

## Directory

In this setup you typically have a flat structure (meaning images are not in folders, just one folder will all student images in it), and would look something like:

Filename	Size
 S0001-large.jpg	4.5 MB
 S0001-small.jpg	592.6 KB
 S0002-large.jpg	4.6 MB
 S0002-small.jpg	419.6 KB
 S0003-large.jpg	4.9 MB
 S0003-small.jpg	672.5 KB
 S0004-large.jpg	5.5 MB
 S0004-small.jpg	649.4 KB
 S0005-large.jpg	4.6 MB
 S0005-small.jpg	588.7 KB
 S0006-large.jpg	4.0 MB
 S0006-small.jpg	417.6 KB
 S0007-large.jpg	4.2 MB
 S0007-small.jpg	466.5 KB
 S0008-large.jpg	3.0 MB
 S0008-small.jpg	334.6 KB
 S0009-large.jpg	4.8 MB
 S0009-small.jpg	620.5 KB
 S0010-large.jpg	3.0 MB
 S0010-small.jpg	324.3 KB
 S0011-large.jpg	4.2 MB
 S0011-small.jpg	405.6 KB
 S0012-large.jpg	4.5 MB
 S0012-small.jpg	490.4 KB
 S0013-large.jpg	5.1 MB
 S0013-small.jpg	529.6 KB
 S0014-large.jpg	3.0 MB
 S0014-small.jpg	431.1 KB
 S0015-large.jpg	4.8 MB
 S0015-small.jpg	506.4 KB

Setup for your web server will vary depending on which one you selected. But if you can navigate via a browser to a URL similar to

`https://fwusa.filewave.com/images/stu/S0001-small.jpg`

Then you are ready to move on

## Security

Student images are personally identifiable pieces of information and are important to maintain privacy. You will want to give reasonable assurance that you have done your best to prevent these images being released into the wild. Below could be considered minimum recommendation, but always make things as secure as you can. Setup will vary depending on the web server selected, so please refer to best practice or hardening guides of the respective server solution.

## Internal only

This web server should not be accessible from outside your network. So using the main district web server, a computer sitting in a Firewall's DMZ or a hosted server are all insecure solutions.

You could start up a virtual machine running a free linux OS, enable server.app's webserver on an macOS computer, or use windows. Whichever you do, use something that will always have the same IP/domain name, and is always running.

## HTTPS

These days there are few excuses for not doing https. Certificates are cheap or free, and using a secure connections helps prevent data interception from source to destination. Just do https (Port 443/TCP), and even disable http (Port 80/TCP)

## Password Protected

Many web servers can enable password protection for a whole site or even just a section of a site. If using apache an .htaccess file similar to this:

```
AuthType Basic
AuthName "Protected Student pictures"
AuthBasicProvider file
AuthUserFile /var/www/.htpasswd
Require valid-user
```

Can be placed inside the student images folder to password protect it.

(see <https://httpd.apache.org/docs/current/howto/htaccess.html> for more info on apache .htaccess files including setup and use)

And a user can be created by something like:

```
htpasswd -c /var/www/.htpasswd picture_user
```

Note: that the password file is the same /var/www/.htpasswd in both .htaccess and htpasswd

(see <https://httpd.apache.org/docs/current/programs/htpasswd.html> for usage).

## Constructing the URL for Admin Preferences

If we were able to access the images via browser at a URL like

```
https://fwusa.filewave.com/images/stu/S0001-small.jpg
```

Then we can use that as our template

```
https://fwusa.filewave.com/images/stu/S0001-small.jpg
```

The diagram illustrates the structure of the URL `https://fwusa.filewave.com/images/stu/S0001-small.jpg`. Brackets and labels identify the following components:   
- `https`: The protocol.  
- `fwusa.filewave.com`: The domain.  
- `images/stu`: The path.  
- `S0001`: Labeled as `%user_identifier%`.  
- `small`: Labeled as `%size%`.  
- `.jpg`: Labeled as `extension`.

Would become:

```
https://fwusa.filewave.com/images/stu/%user_identifier%-%size%.jpg
```

Note how the - needed to stay in the URL, and that it was an https server.

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