

Condition

Overview

Remember that our goal for using Grooper is to automate tasks that we would otherwise have to perform manually.

Imagine we have a pile of papers in our inbox. We can think of this as the batch we just made, so they arrived there via the `Acquire` phase.

If we had to work through these documents by hand, we'd probably have to go through them and make sure they're all facing the same way, remove any sticky notes on them, take out the staples, and potentially white out smudges and marks.

This is the `Condition` phase, and we can automate these tasks in Grooper.

In this phase, we will:

- create and test an Image Processing Profile,
- use the new profile to clean up our batch, and
- use OCR to obtain text from our images that we'll use later.

Let the conditioning commence!

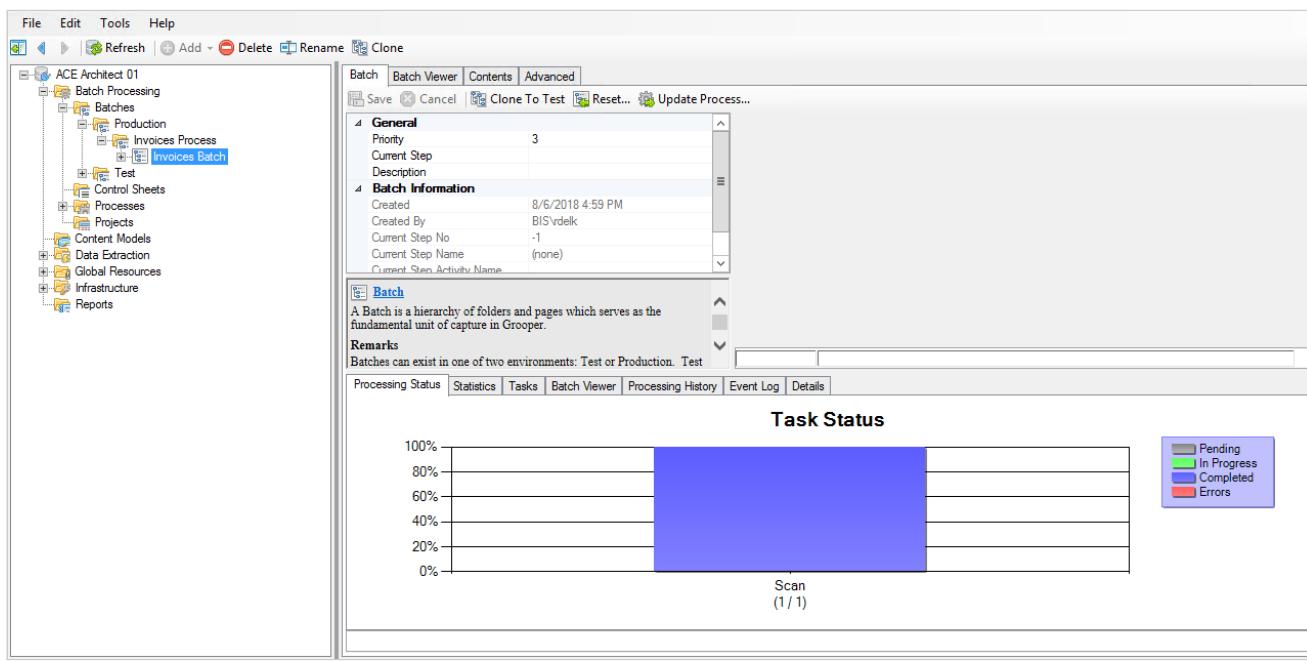
But first

For the next few phases, we'll be testing the results of adding a single Batch Process step at a time. Let's take a deeper look at our batch so that when we start adding steps, the process makes a little bit more sense.

› Step 1

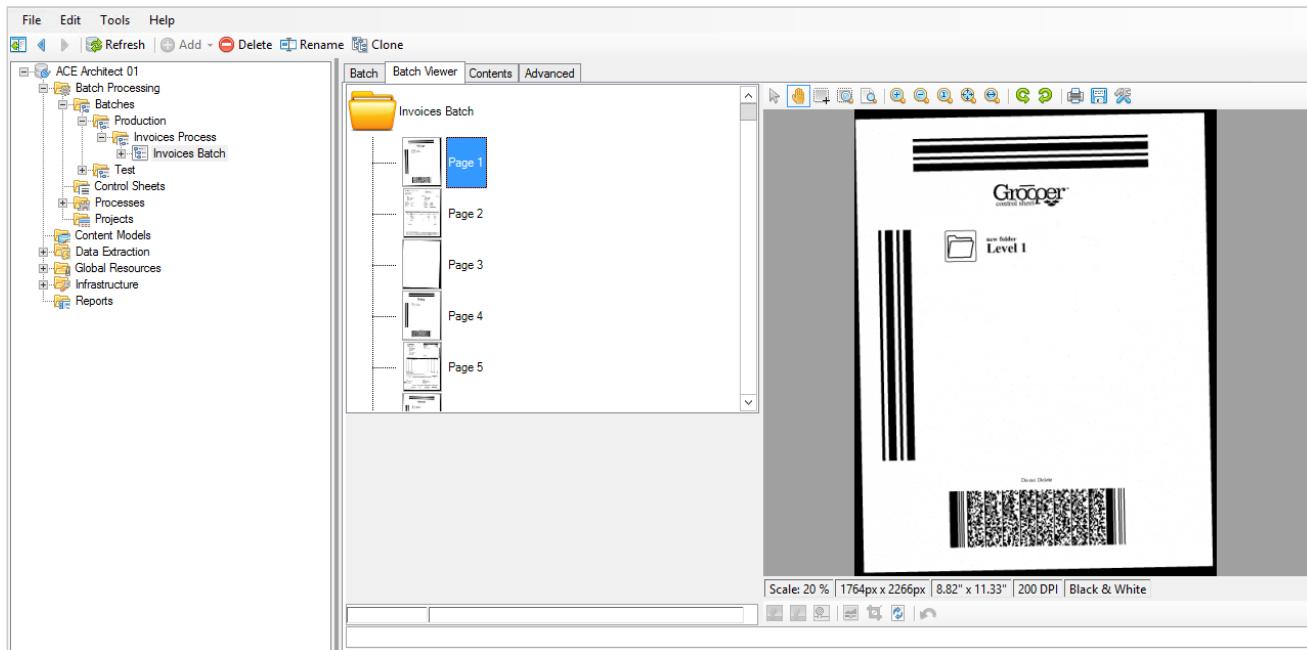
In Grooper Design Studio, navigate to `(root) > Batch Processing > Batches > Production > Invoices Process`.

```
(root)
├── Batch Processing
│   ├── Batches
│   │   ├── Production
│   │   │   └── Invoices Process
│   │   └── Test
│   ├── Control Sheets
│   ├── Processes
│   └── Projects
└── Content Models
└── Data Extraction
└── ...
```



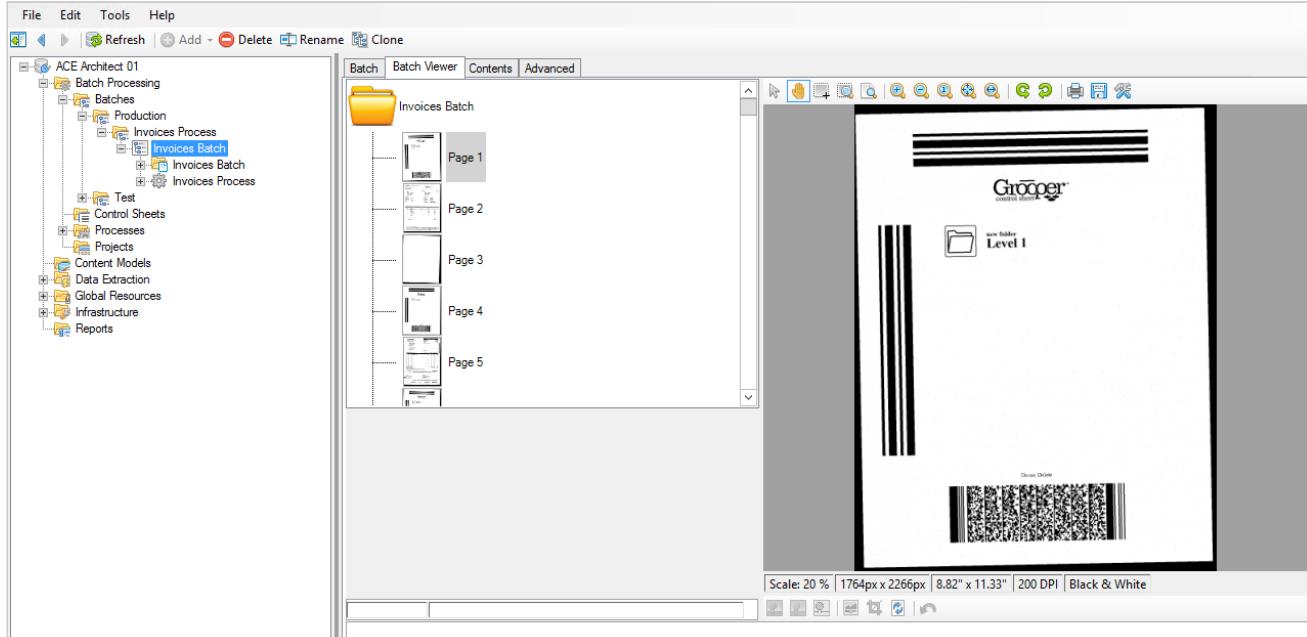
Any batches that are created will also be visible in the node tree. Viewing the batch from this location gives us access to more information about the batch itself.

You can simply view the batch by clicking on the **Batch Viewer** tab.



› Step 2

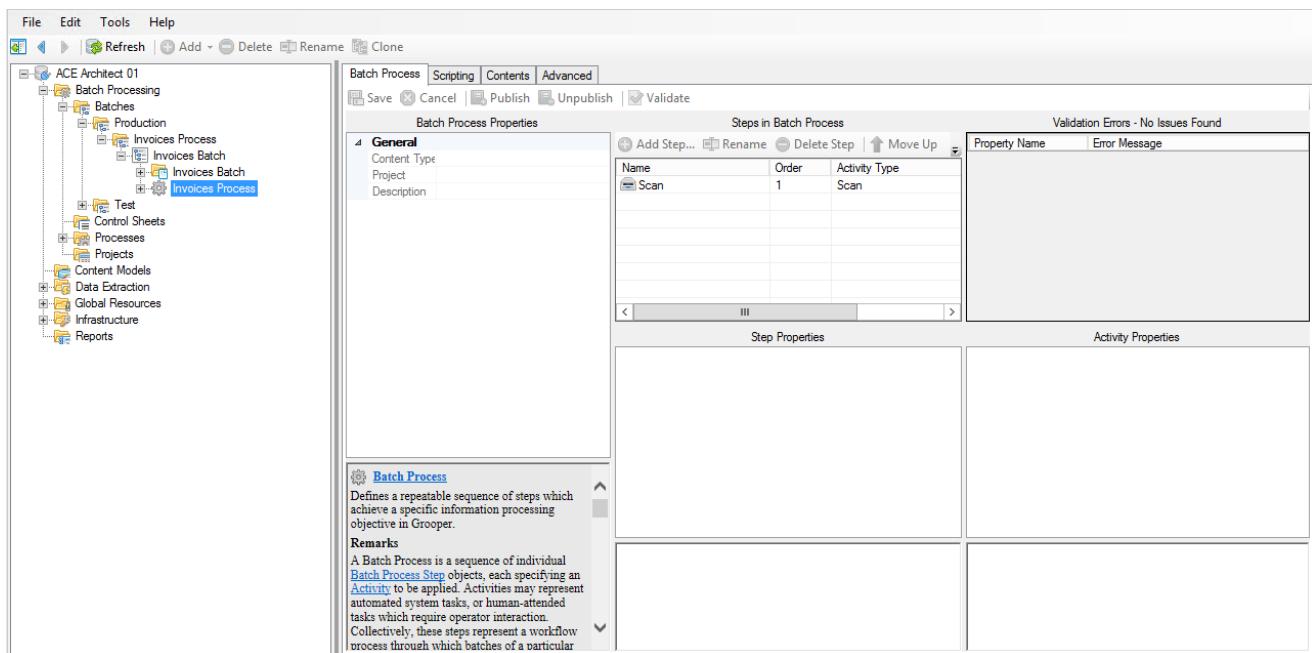
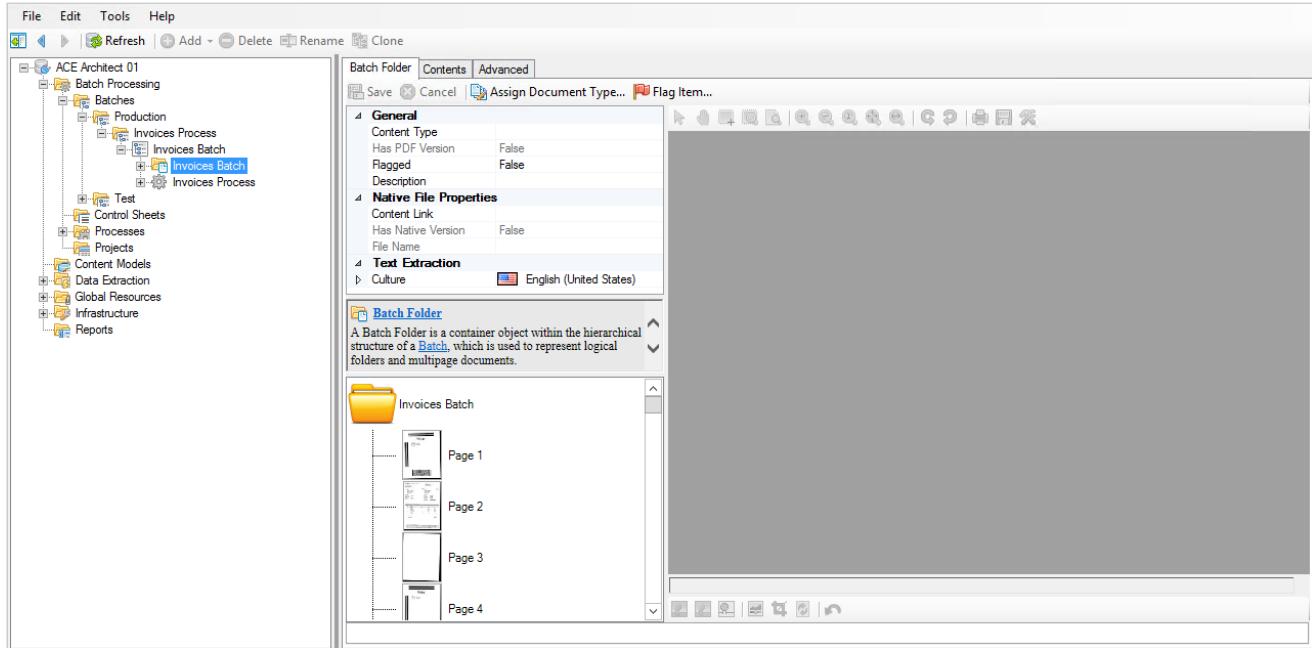
Click the **+** button next to the batch in the node tree to expand it.



Notice that there are two child objects here:

- └ Invoices Batch
 - ├ Invoices Batch
 - └ Invoices Process

1. a folder with the same name as the batch, and
2. a gear icon with the name of the Batch Process we used to create the batch.



Note

When you create a production batch and assign it a particular Batch Process, it attaches a copy of that Process to that batch. This is to ensure that, should there be any changes to the process after the batch is created, it won't affect how this batch is processing.

An important note is that because this Process is only a copy of the original, it doesn't maintain a link to the original.

If we want to make changes to the Process and subsequently test those changes against an batch, we need to tell that batch to update.

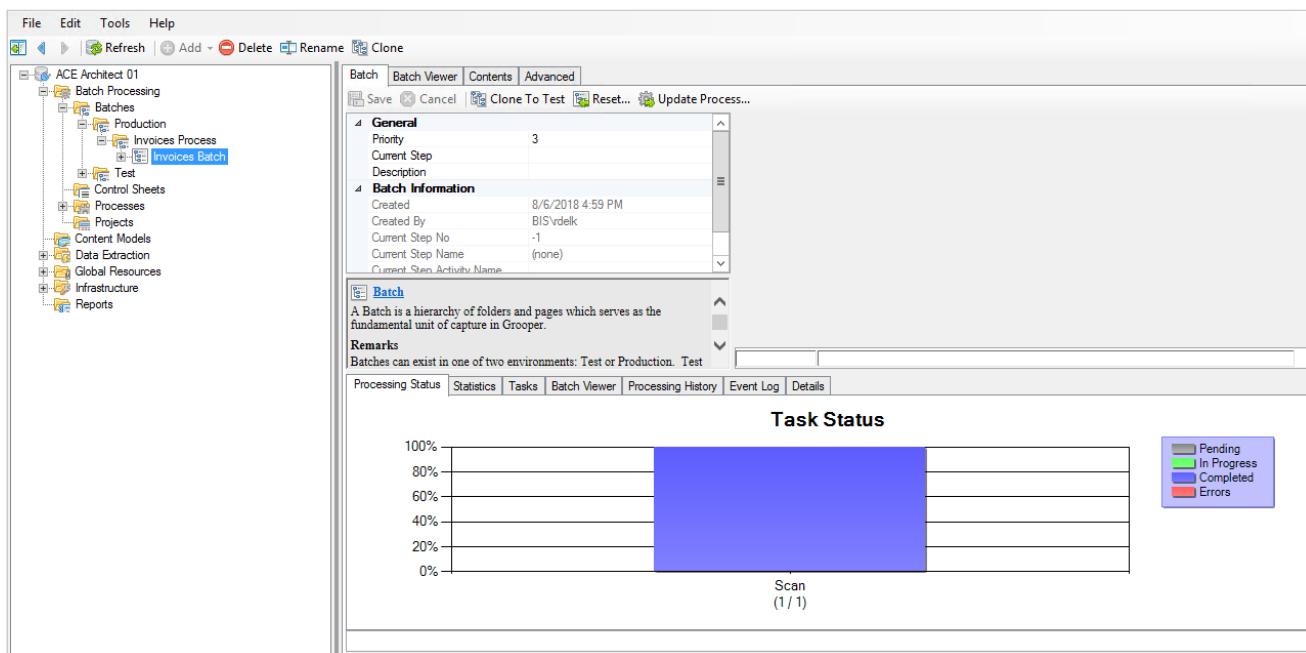
This is like telling Grooper, "Hey, I've changed the steps I want you to take when you process."

We'll be doing this quite a few times, so it won't hurt to become familiar with the technique!

Cloning to test

Step 1

Navigate back up the node tree to `(root) > Batch Processing > Batches > Production > Invoices Process > Invoices Batch`.

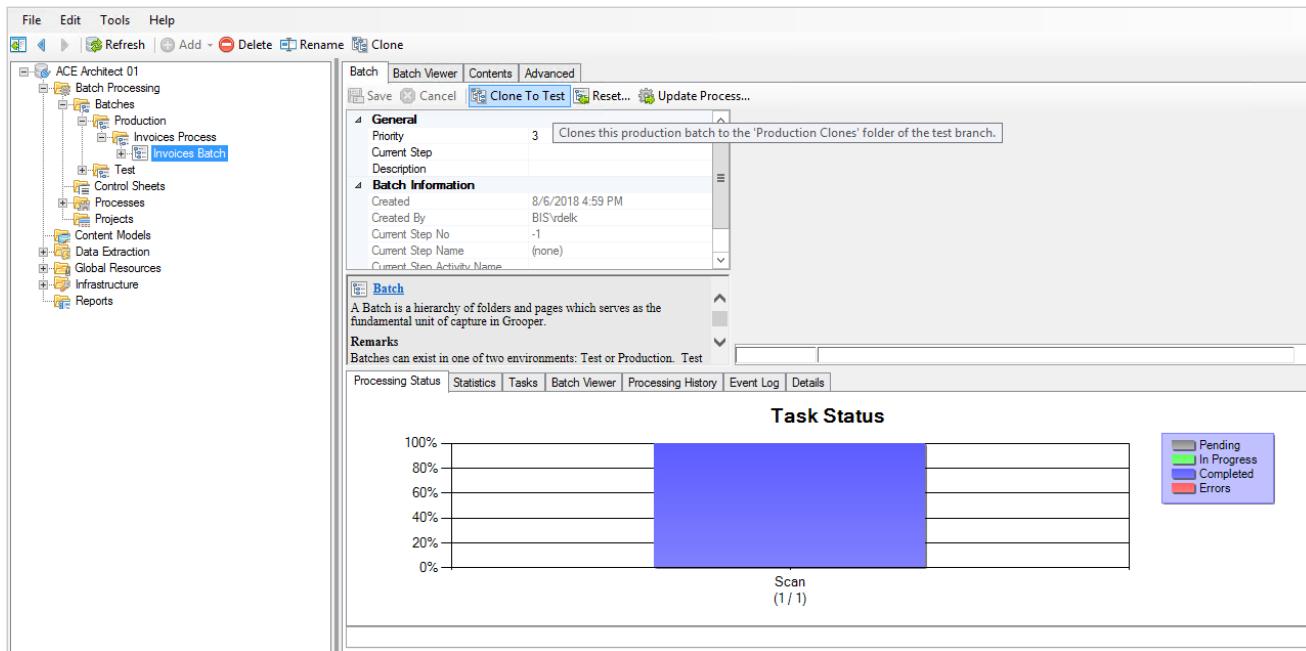


We need to clean up our batch images, so we're going to create an Image Processing Profile to do that. However, profiles can be tested only against test batches, so we can't use our production batch.

We can, however, clone our production batch to our test batches. This way we don't have to create a brand new test batch to work with.

Step 2

Click the `Clone To Test` button, and then `Execute` on the window that appears.



Warning

Make sure you click the **Clone To Test** button and NOT the **Clone** button in the upper toolbar.

- **Clone To Test** makes an exact replica of the batch in the test batches.
- **Clone** is a way to create an exact copy of an object in-place in the node tree. If we used this option instead, we would have two identical production batches (and we'd have to rename the second one).

Once the clone is complete, you will see a confirmation window; click **OK**.

Now you can view the cloned batch by navigating to **(root) > Batch Processing > Batches > Test > Production Clones >**

Invoices Process > Invoices Batch

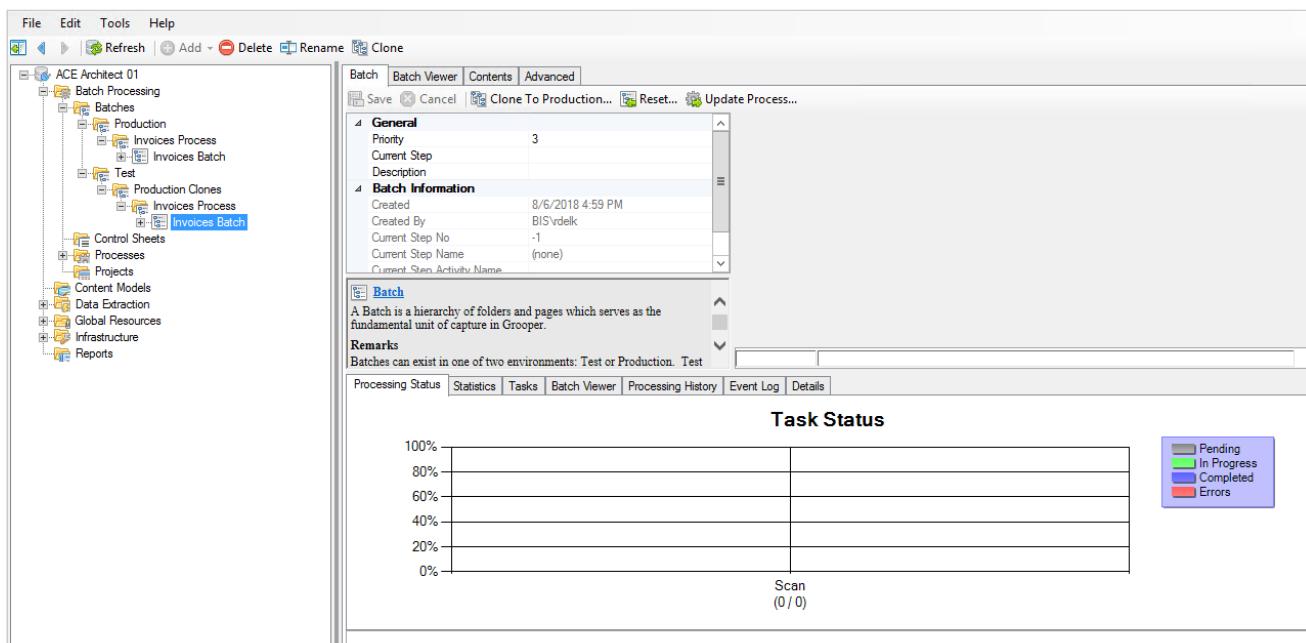
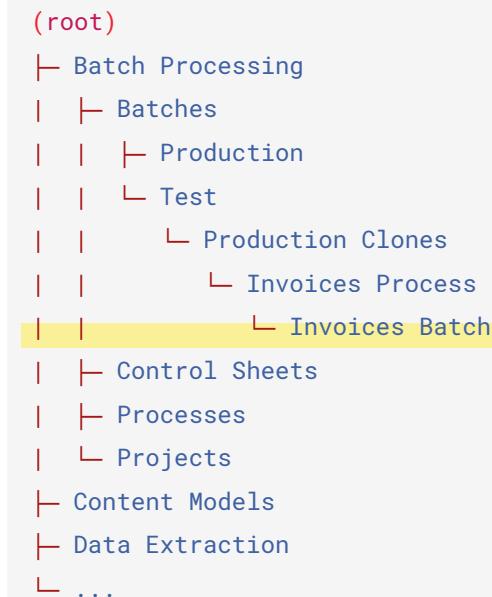


Image Processing

Our current objective is to clean up the images, which we learned is done via an Image Processing Profile (or "IP Profile").

We can start creating one now that we've got a batch against which we can test it.

Creating an IP Profile

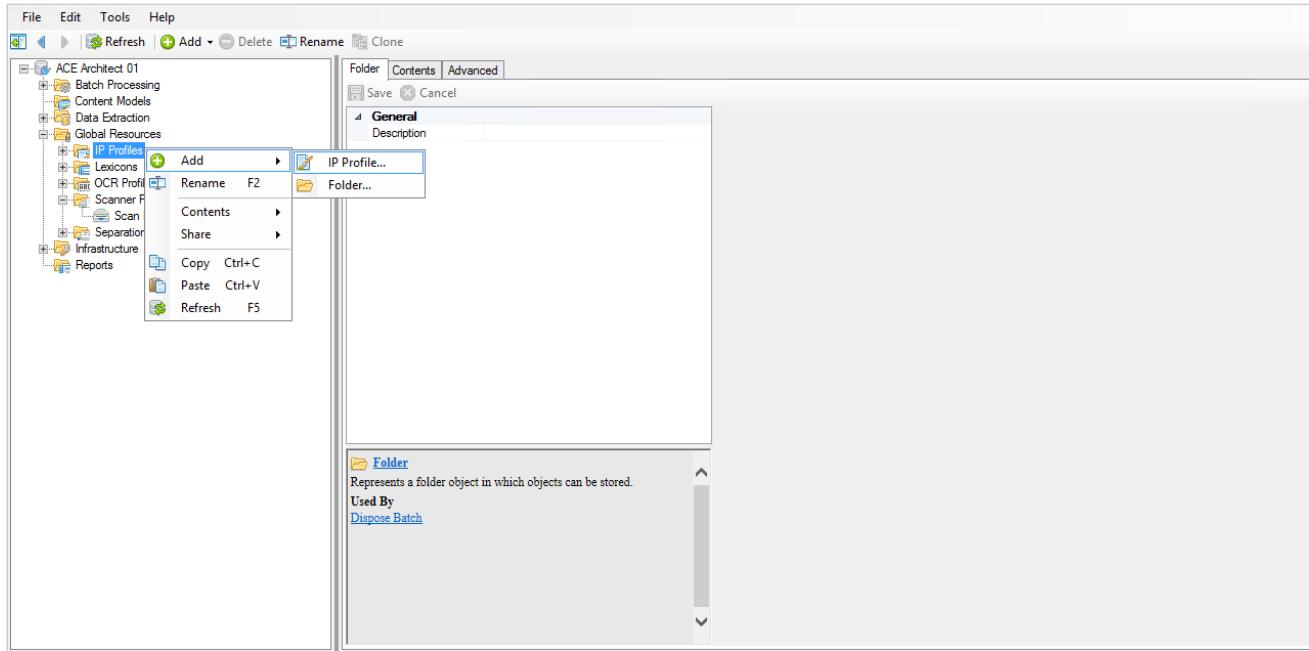
Step 1

Navigate to (root) > Global Resources > IP Profiles .

```
(root)
├ Batch Processing
├ Content Models
├ Data Extraction
├ Global Resources
└ IP Profiles
├ Infrastructure
└ Reports
```

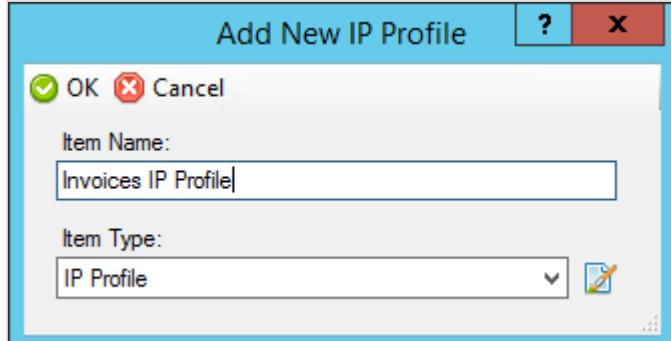
Step 2

Right-click on this node and click Add > IP Profile... .



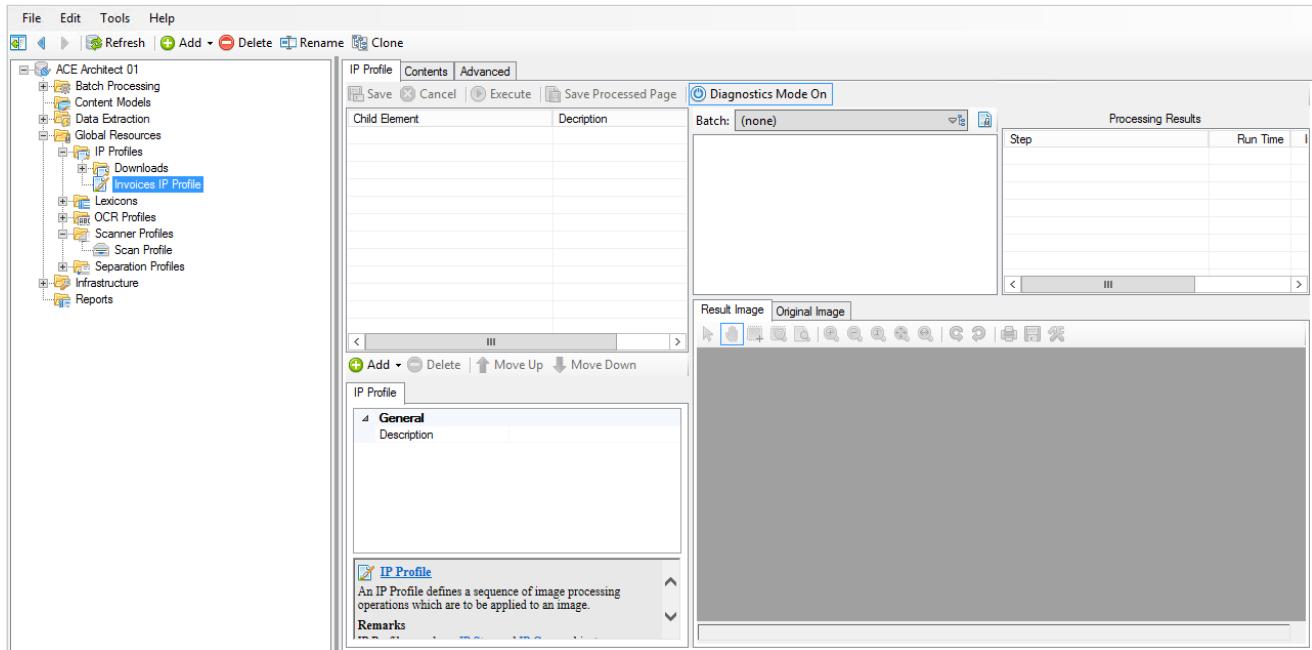
Step 3

Give the profile a name, such as Invoices IP Profile , and click OK .



Configuring the IP Profile

Once you have your IP Profile created, you should see the configuration screen.



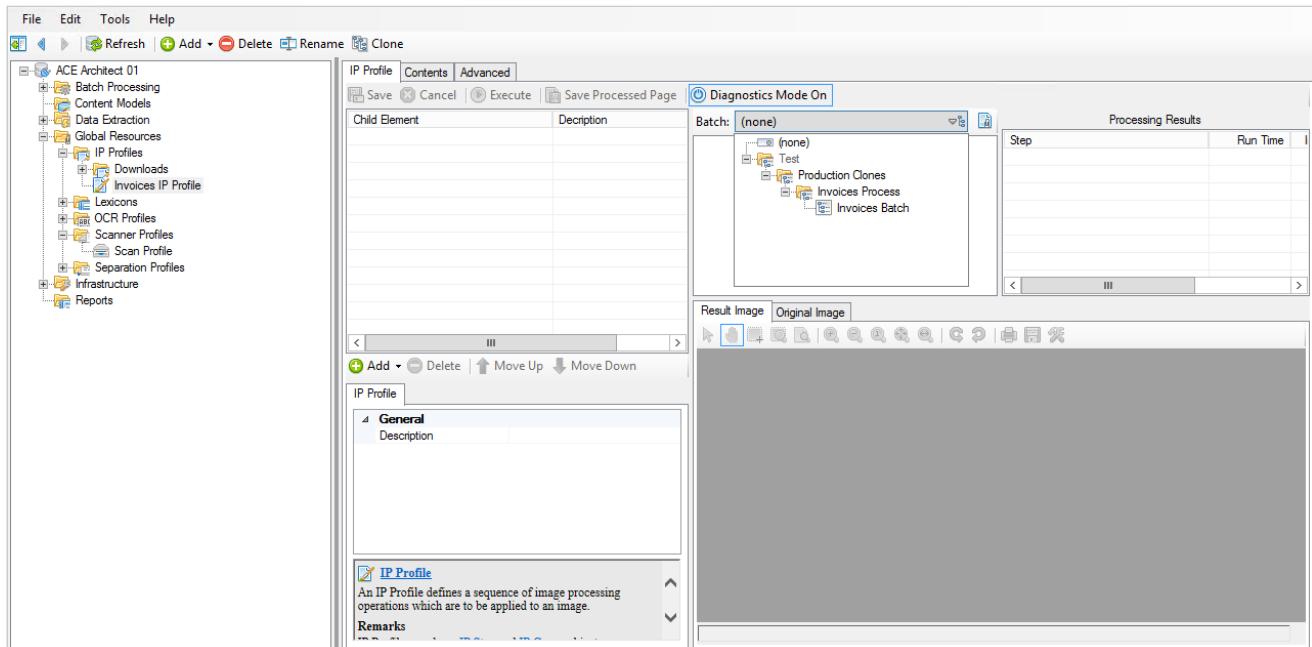
Setting up an IP Profile is a bit like setting up a Batch Process. We'll create a list of things to do (called "commands") when the profile runs against a page. Then we'll actually get to test it out against our test batch before we put it into production.

Selecting a batch

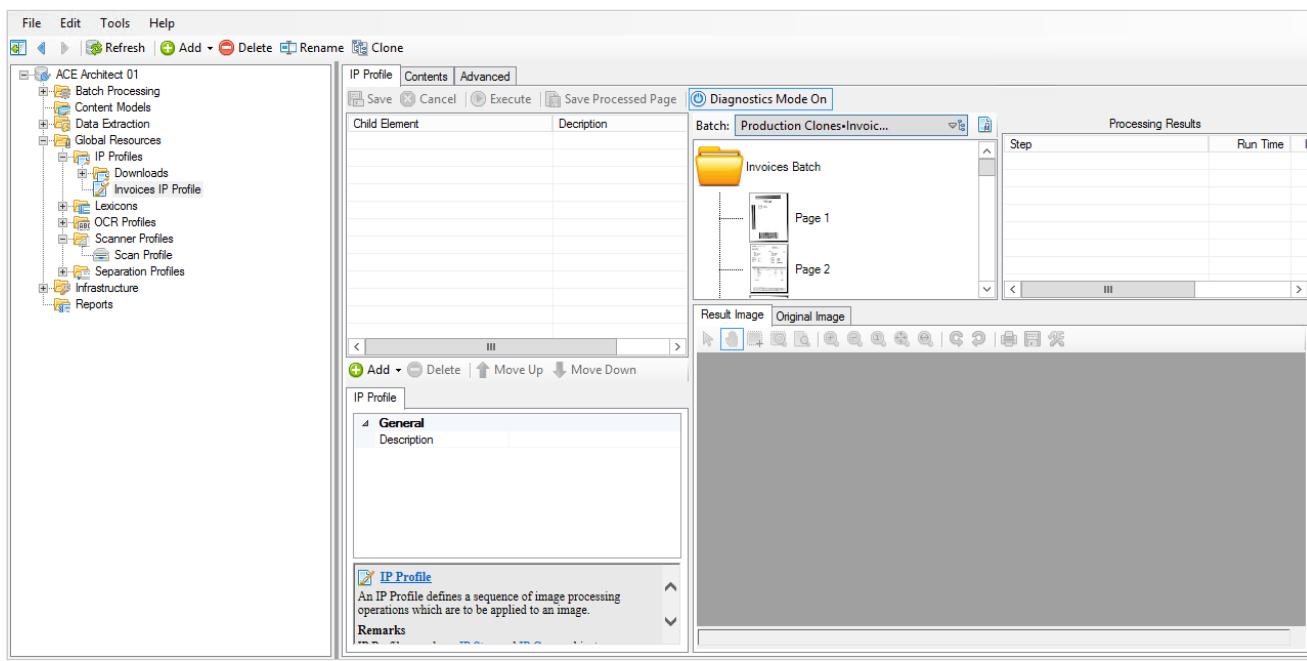
Step 1

From the **Batch** dropdown, select our cloned **Invoices Batch**.

We're going to build the profile, but we first need to select a batch for testing, otherwise we won't know if the commands we're adding will work.



After you select the batch, it will appear in the batch viewer below.



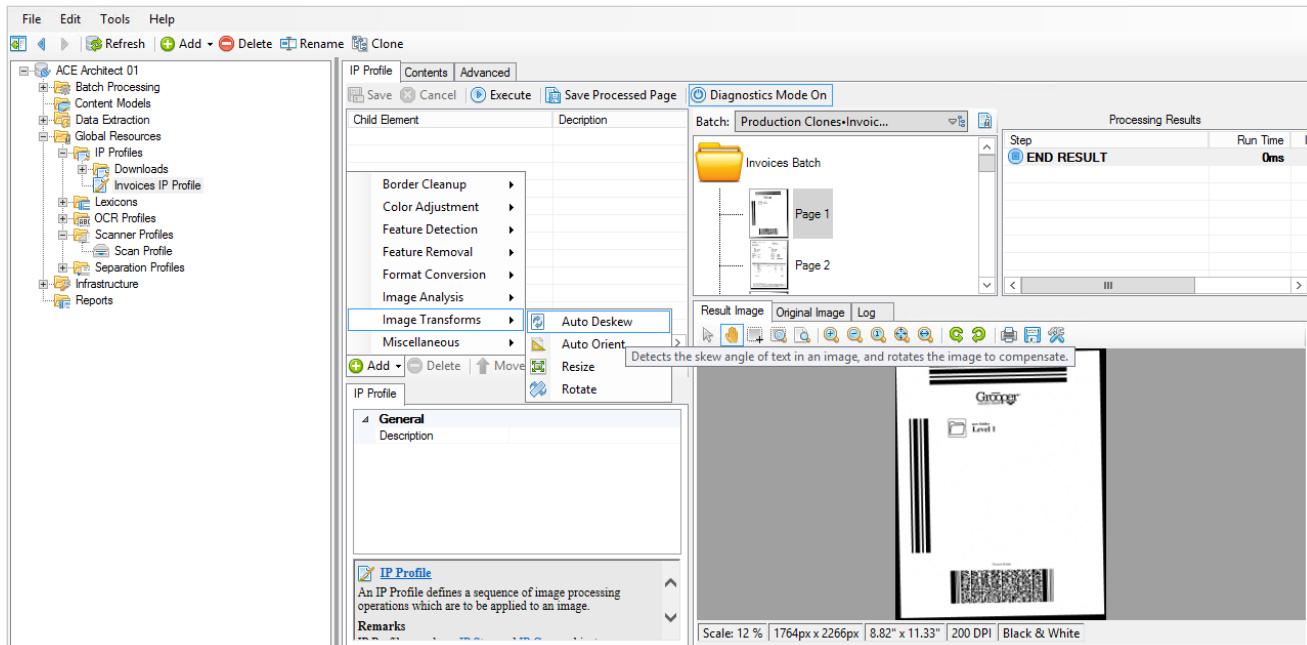
Let's add a command!

Adding a Deskew command

The first thing we want to do is deskew the images.

Step 2

Click the **Add** button, and then click on **Image Transforms > Auto Deskew**.



You should now see the "Auto Deskew" command in the list in the "Child Element" column.

Tip

If you're not seeing an image in the lower right panel, click on one of the pages in the batch.

Tip

When adding commands, if you're unsure what their purposes are, hover over them with your cursor. A tooltip will pop up and give you a brief description.

In the panel below, there are different properties that you can modify for each command, but we're going to leave these ones at their default configurations.

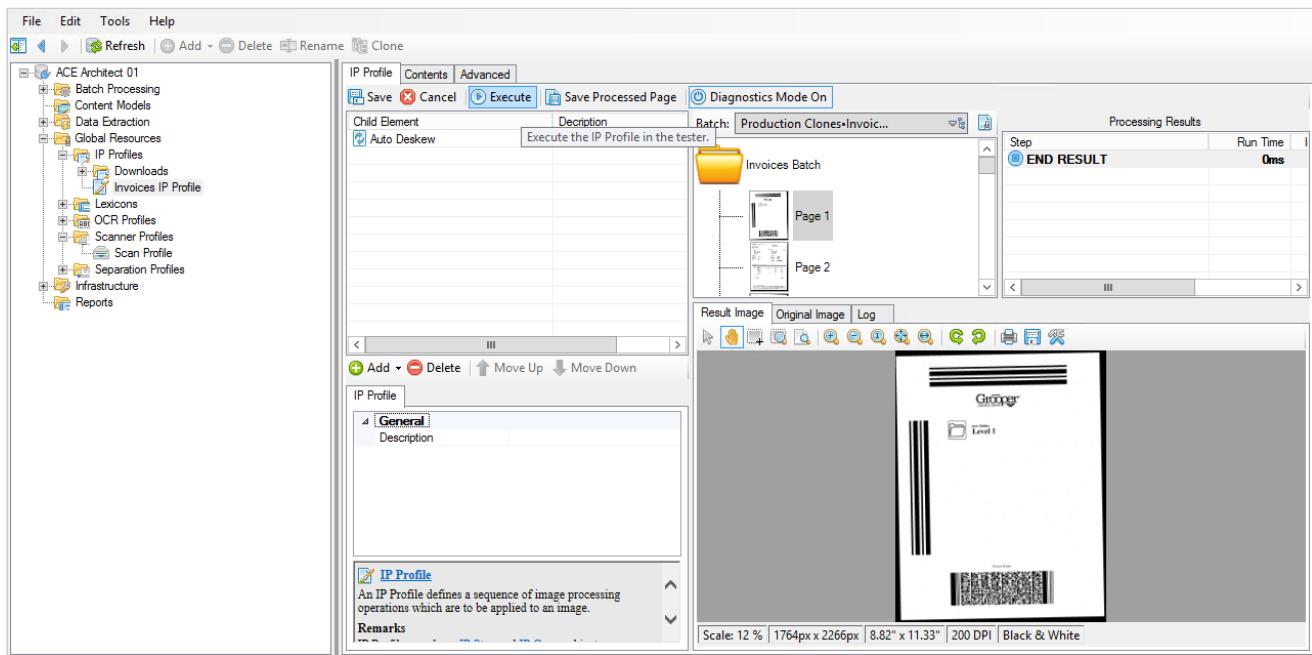
Let's test it out so far to make sure it's working.

Testing the command

Step 3

Click the **Execute** button in the toolbar. Keep your eye on the image in the lower right panel.

This will run all commands in the list against the selected page from top to bottom.

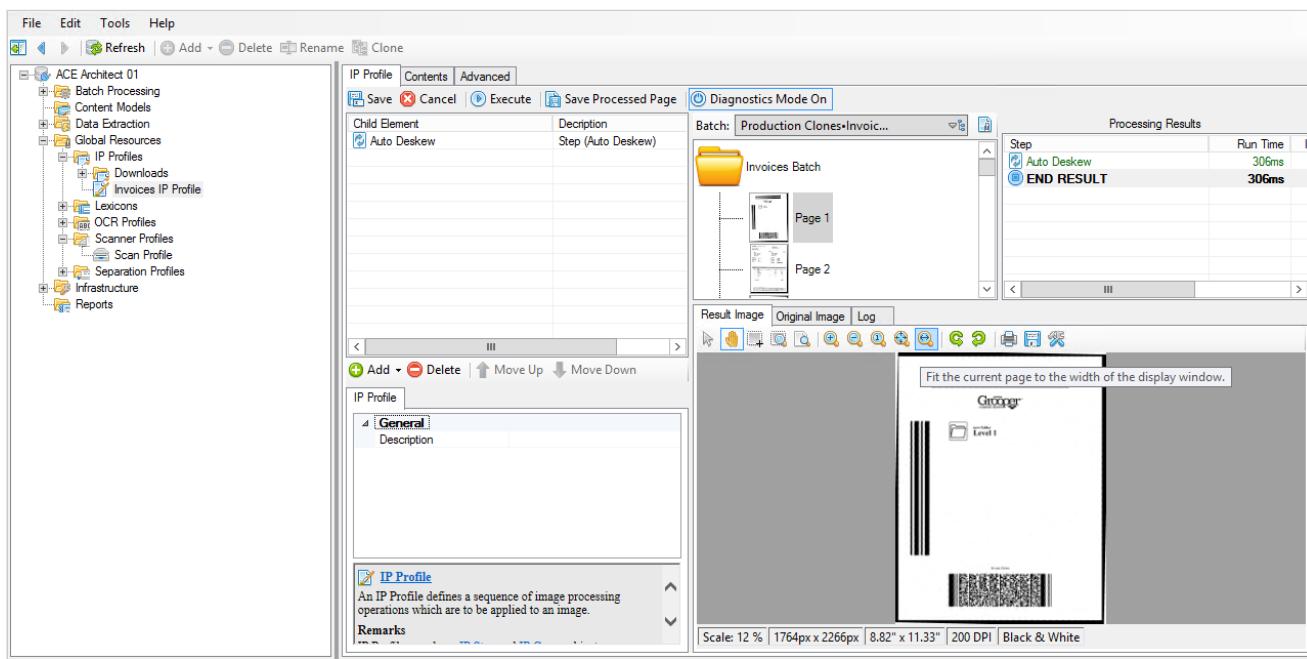


If you were watching, you probably noticed that the image did rotate, but now we have some extra white space around the edges that we didn't have before. That's okay, because we have plenty of other commands at our disposal to take care of that. Right now our primary concern is that the *text* is oriented correctly (we'll talk about why here in a bit).

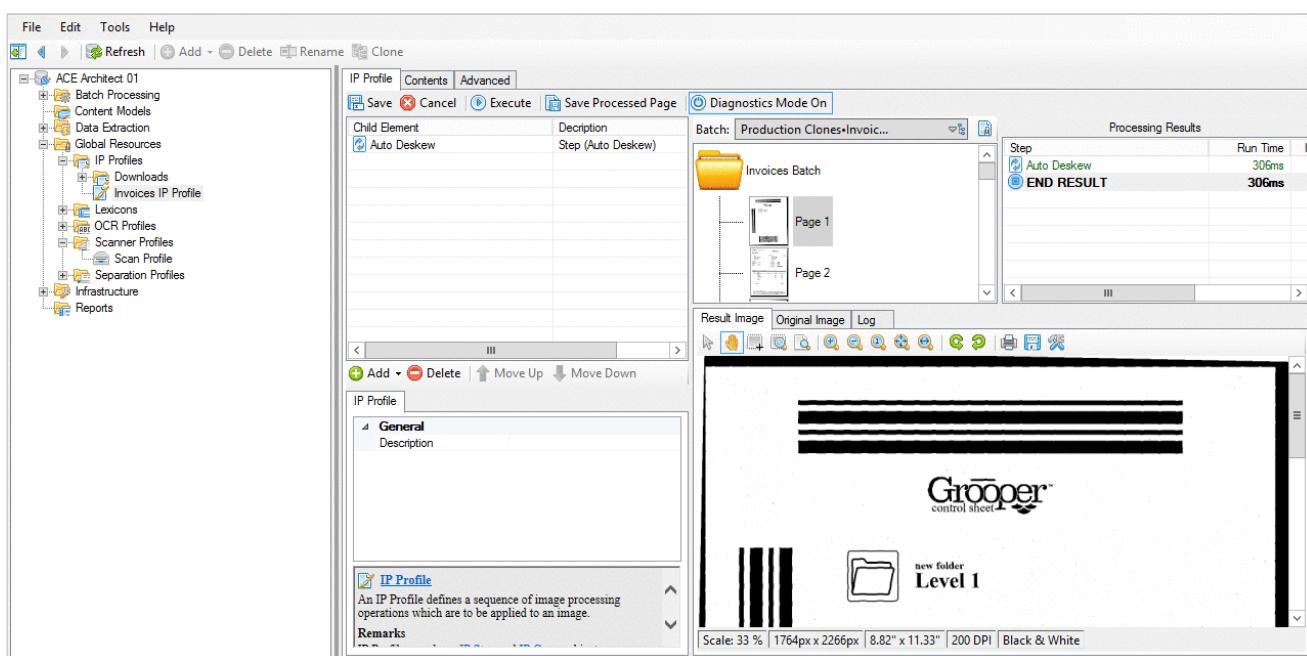
Step 4

In the lower right panel, click the rightmost magnifying glass to zoom the image to fit the panel.

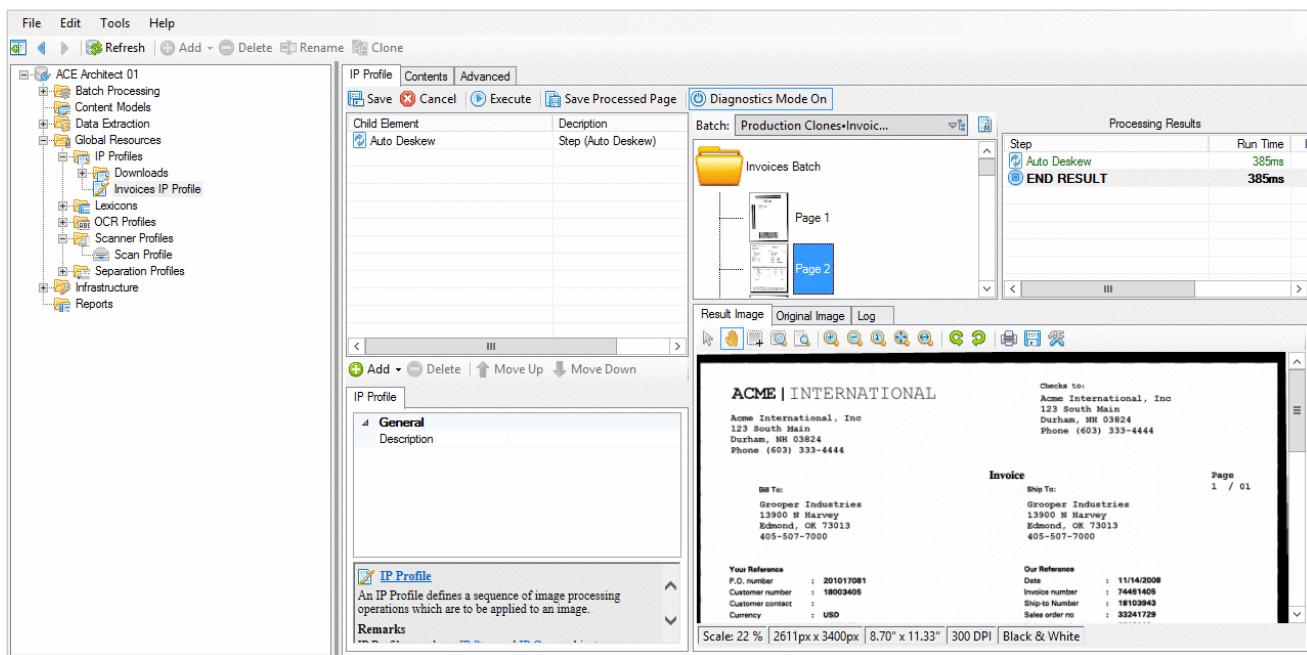
This will make it easier to see.



You can see the effect your commands have on your image by switching back and forth between [Result Image](#) and [Original Image](#).



Check it out on page two.



Step 5

Click Save.

The screenshot shows the ACE Architect software interface. On the left, there's a tree view of 'ACE Architect 01' containing various profiles like Batch Processing, Content Models, Data Extraction, Global Resources, IP Profiles, Lexicons, OCR Profiles, Scanner Profiles, Scan Profile, Separation Profiles, Infrastructure, and Reports. The central part of the screen shows the 'IP Profile' editor with tabs for 'Contents' and 'Advanced'. A 'Save' button is at the top. Below it is a list of child elements: 'Auto Deskew' (selected), 'Save' (disabled), 'Cancel', 'Execute', and 'Save Processed Page'. To the right of the editor is a 'Diagnostics Mode On' section showing a 'Batch: Production Clones>Invoice...' with an 'Invoices Batch' folder containing 'Page 1' and 'Page 2'. Below this is a 'Processing Results' table with one step: 'Step: Auto Deskew' and 'Run Time: 385ms'. At the bottom are buttons for 'Result Image', 'Original Image', and 'Log'. On the far right, a preview window shows an invoice from 'ACME | INTERNATIONAL' to 'Grooper Industries' with details like date (11/14/2008), invoice number (74481405), and page count (1 / 01). The preview also includes a 'Scale' indicator (22%) and a 'Black & White' checkbox.

Tip

Save often!

A good rule of thumb is to save every time you make a change you know you're going to keep.

We're done with the Deskew command. Remember that the goal is to make sure the text is displayed in horizontal lines, so try not to focus on the border skew.

Speaking of borders, let's take care of them.

Border cleanup commands

Step 6

Click **Add**, and then **Border Cleanup > Auto Border Crop**.

This screenshot shows the same ACE Architect interface as the previous one, but with a different sequence of steps selected. In the 'Border Cleanup' dropdown menu, 'Auto Border Crop' is highlighted with a blue selection bar. A tooltip for 'Auto Border Crop' appears, stating: 'Detects black borders around the edge of an image, crops the image to remove the border, and cleans up remaining edge artifacts.' The rest of the interface remains the same, including the tree view on the left, the IP Profile editor in the center, and the processing results and preview window on the right.

We aren't going to change any of the default properties, so let's see what happens.

> Step 7

Click **Execute**, and click back and forth between the images to see the changes.

The screenshot shows the ACE Architect software interface. On the left is a tree view of resources under 'ACE Architect 01'. In the center, the 'IP Profile' editor is open, showing a step named 'Auto Border Crop' with a description 'Execute the IP Profile in the tester.' Below it, the 'Processing Results' pane shows a single step named 'Auto Deskew' with a run time of 385ms. At the bottom, there are two image preview panes: 'Result Image' and 'Original Image'. The 'Result Image' pane displays a scanned document with a crop border applied, while the 'Original Image' pane shows the original document without the border.

Tip

As you're building an IP Profile and adding and testing commands, make sure you are on the **Result Image** to see if your configuration is working. It's not unusual to be adding commands and not see any changes in your image, only to realize you never switched over from the **Original Image** view!

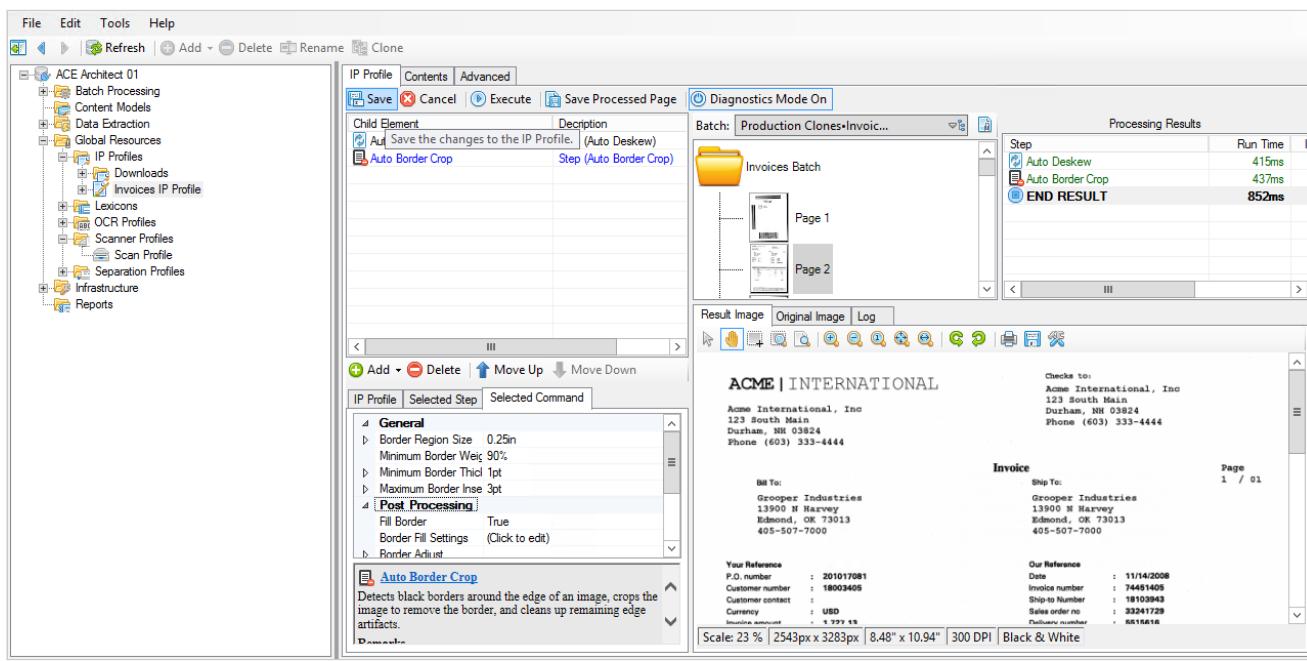
Note

The **Border Crop** command changes the size of your image. You can see this in the information panel below the image itself.

Our Border Crop works pretty well, but there are some images that still have a bit leftover. We don't necessarily want to increase the size of our crop because we risk cutting off any text that might be close to the edge of the page (for example, [Page 7](#) in our batch). We'll take care of that another way.

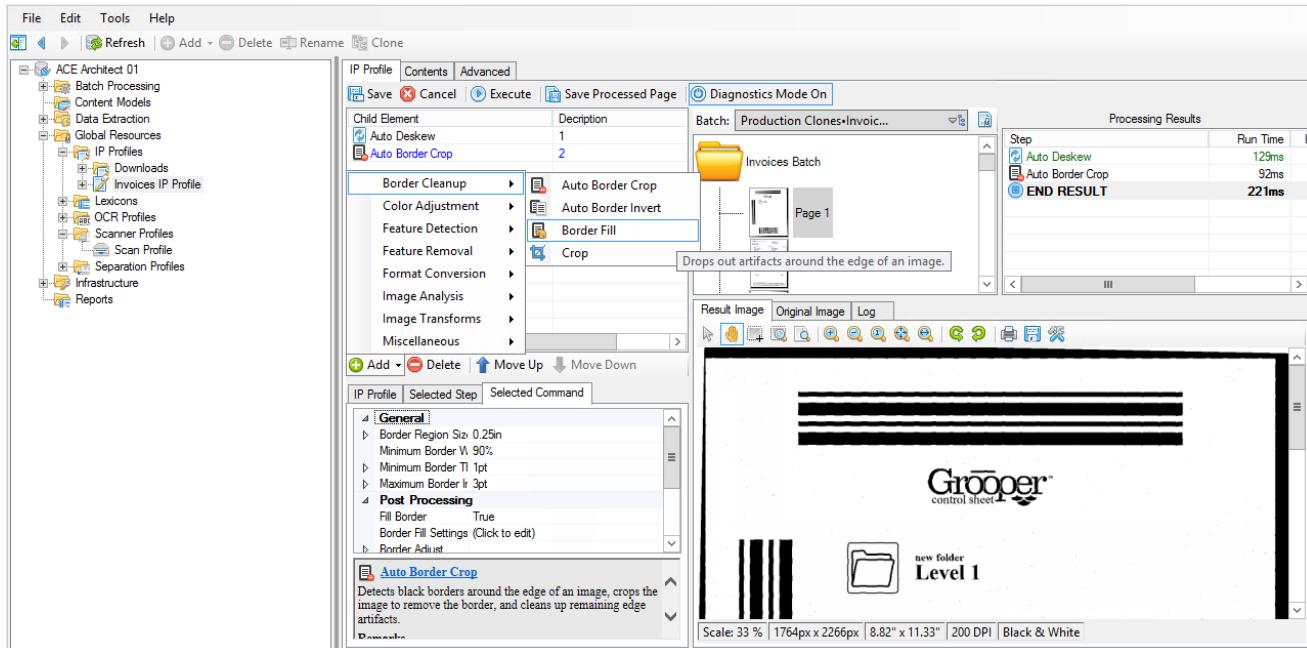
> Step 8

Save the profile.



Step 9

Select **Page 1** in our batch. Click on **Add**, and then select **Border Cleanup > Border Fill**.



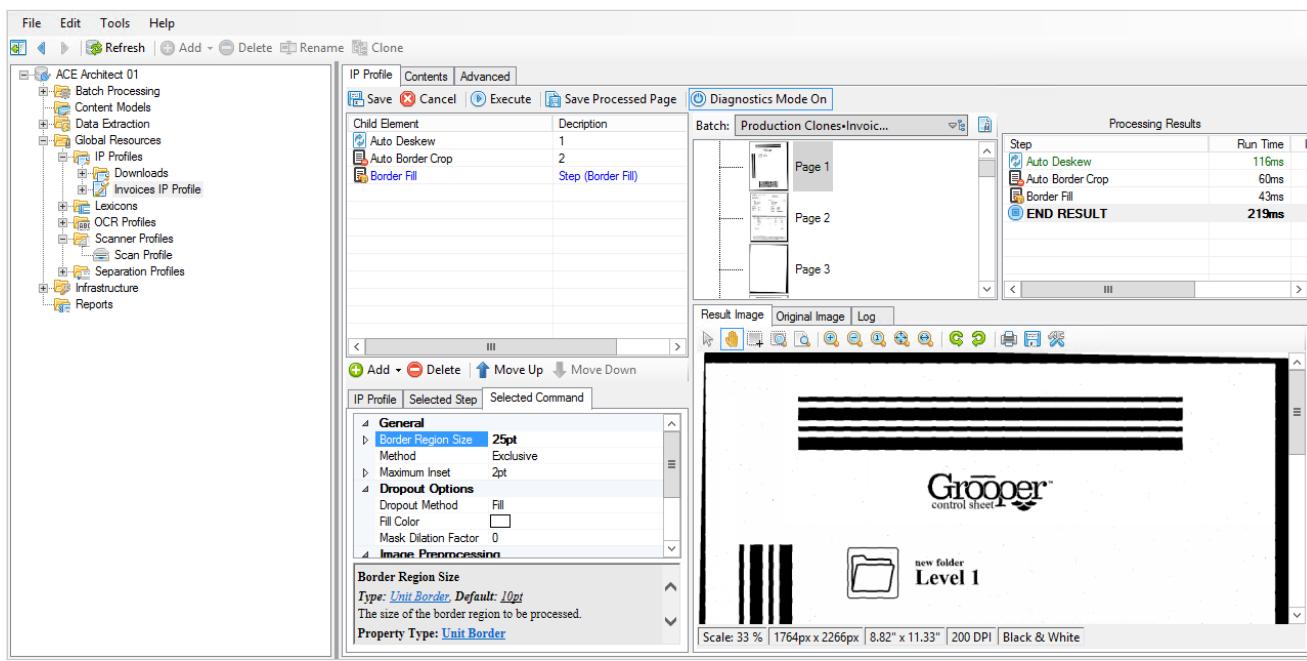
Note

When you click on a page in the batch viewer, it automatically runs all commands against that page. The only time you need to use the **Execute** button is when you're adding commands and you want to run them against your current page without navigating away from it.

If you click on **Execute**, nothing happens. That tells us that the default properties for this command probably need to be tweaked for us to see results.

Step 10

1. Select the **Border Fill** command.
2. Change the **Border Region Size** property to **25pt**.

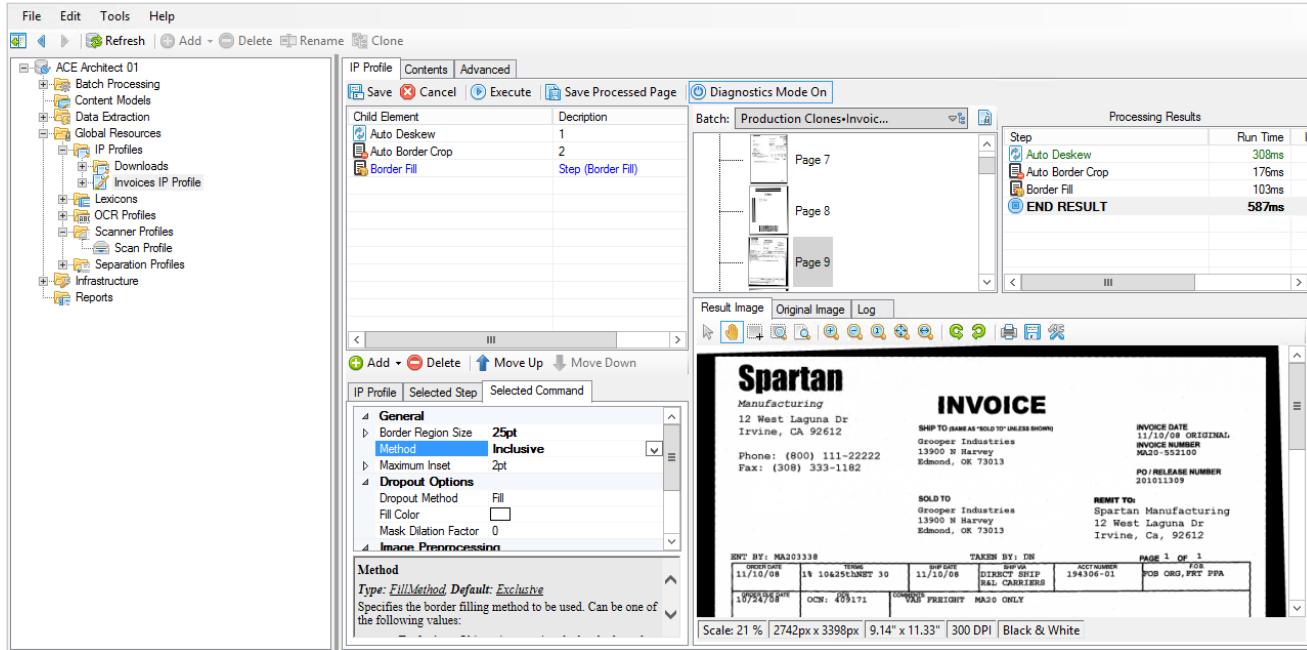


This is increasing how far inward from the border Grooper will look when running this command.

Yet, once again, Execute yields no results.

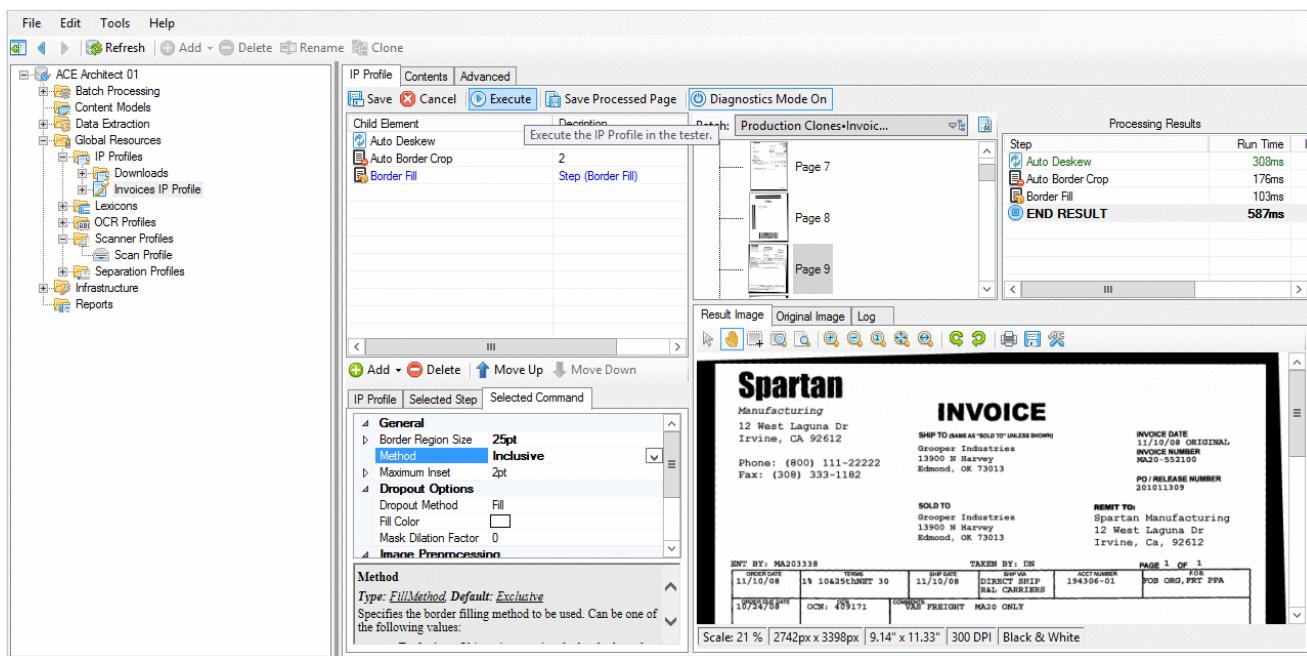
› Step 11

1. Select Page 9 in our batch.
2. Change the Method property to Inclusive .



› Step 12

Click Execute and check out the results.



Note

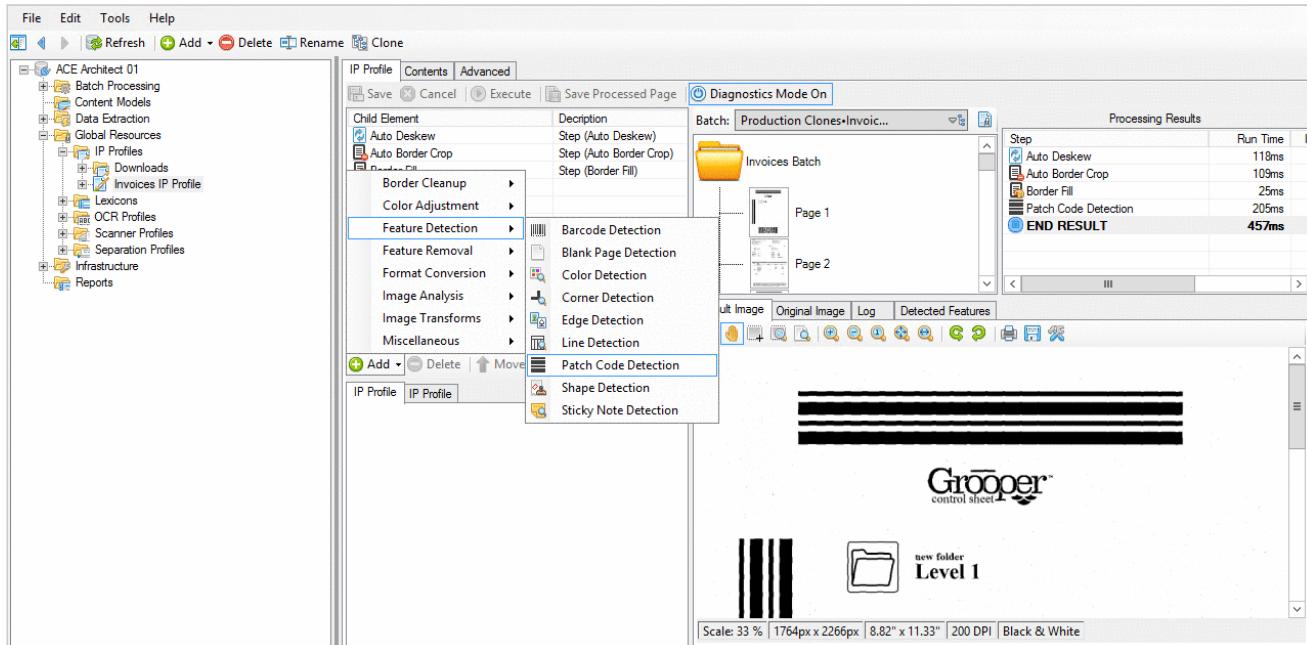
Unlike the `Border Crop` command, `Border Fill` does not change the size of your image. This is because this command serves to fill in the edge of the page with whatever color is set in the `Fill Color` property.

We're not changing the size of the page, only the stuff on it.

Step 13

Click `Add` and select `Feature Detection > Patch Code Detection`.

Save the profile.



Adding to the Batch Process

Step 1

Navigate to `(root) > Batch Processing > Processes > Working > Invoices Process`.

Batch Process Properties

Name	Order	Activity Type
Scan	1	Scan

Batch Process
Defines a repeatable sequence of steps which achieve a specific information processing objective in Grooper.

Step 2

Click **Add Step...**.

Name	Order	Activity Type
Scan	1	Add a step to the Batch Process.

Step 3

In the **Properties** for our new empty step, change the **Activity Type** to **Image Processing**.

Set the **IP Profile** on the right to the IP Profile we just got done making.

Step 4

Save and Publish our process.

Updating the production batch

Step 1

Navigate to (root) > Batch Processing > Batches > Production > Invoices Process > Invoices Batch > Invoices Process .

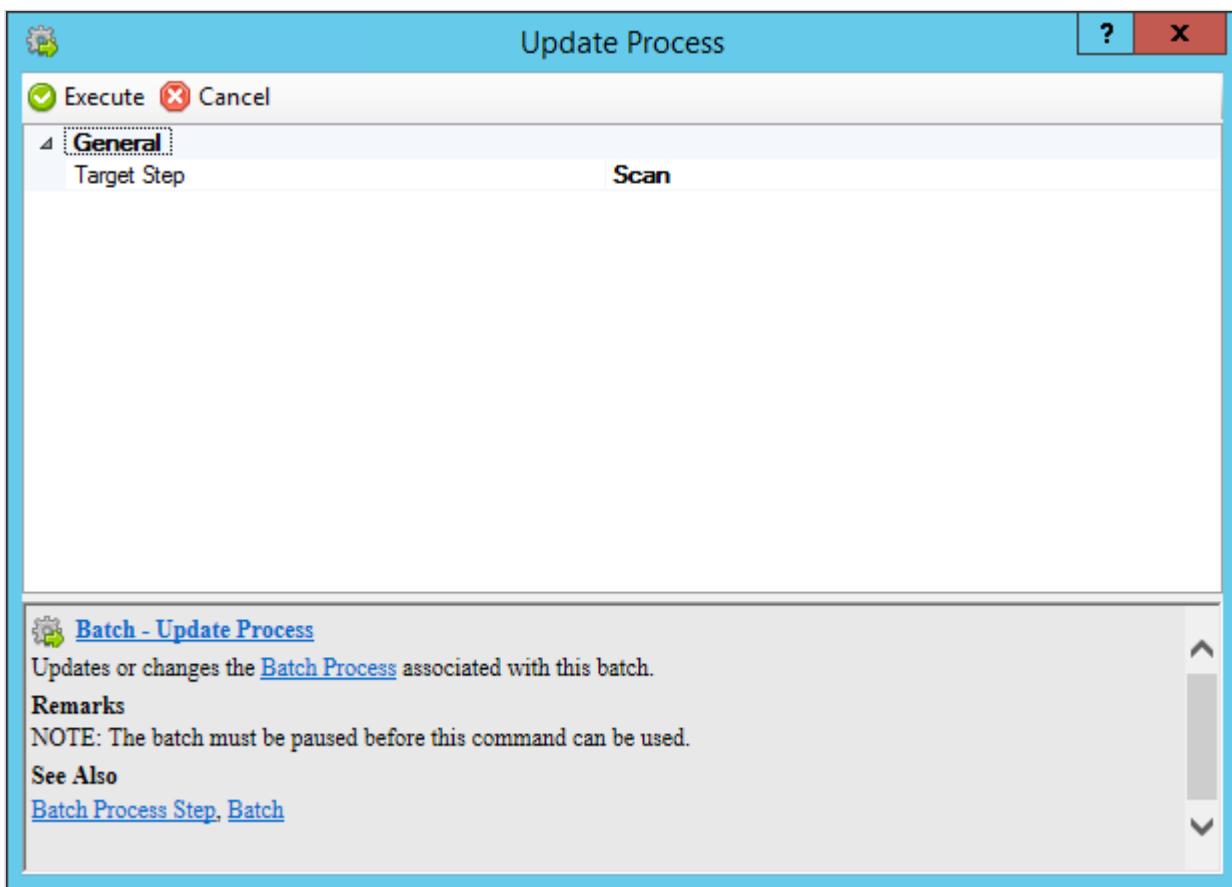
Notice how the Batch Process that is attached to this batch didn't receive the new step we just added. Remember that when this batch was created, the process had only the "Scan" step. We want to tell this batch to check out the changes we made to the process so that it can run through the new Image Processing step.

Step 2

Navigate back up to `(root) > Batch Processing > Batches > Production > Invoices Process`.

Select the batch from the list, and then go to `Batch > Update Process...`.

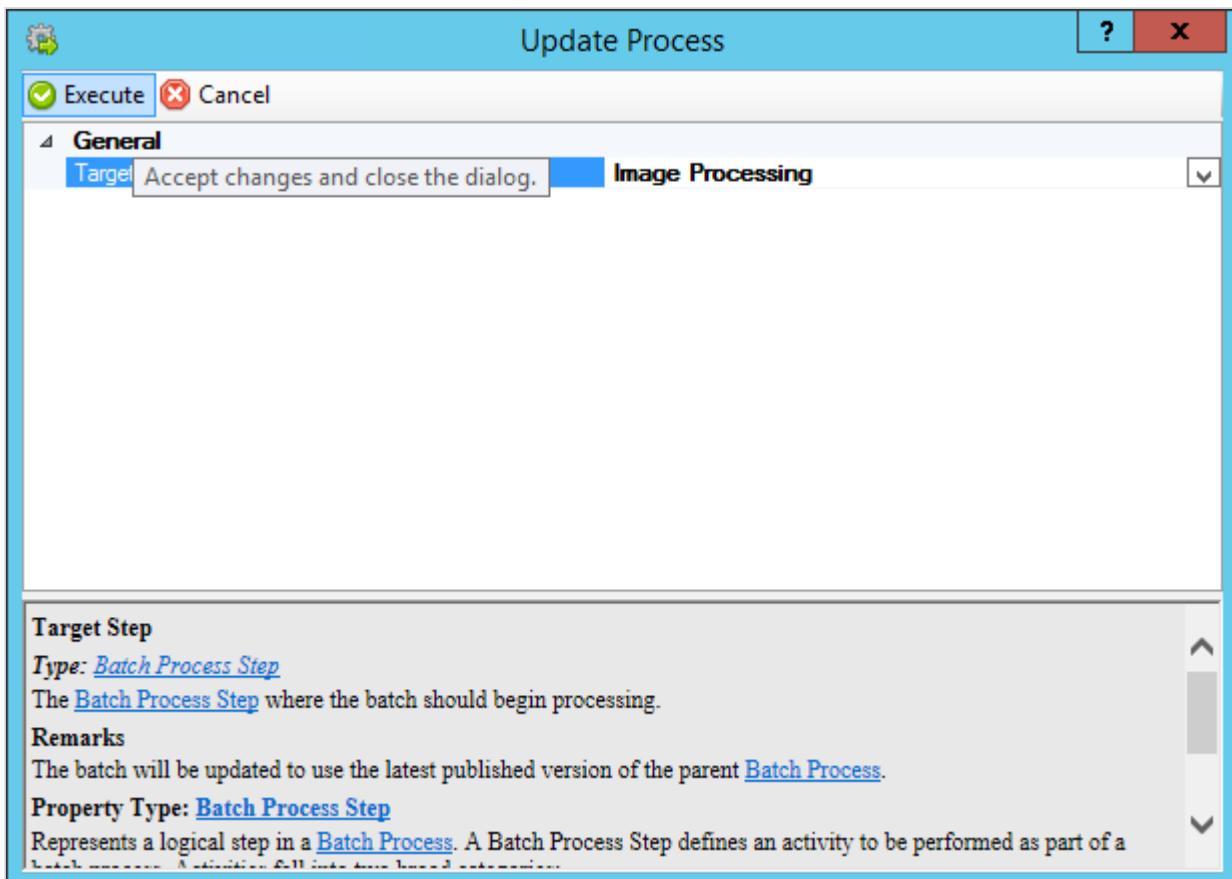
The `Update Process` window will appear.



Step 3

Select **Target Step**. From the dropdown on the right, select the **Image Processing** step, and then click **Execute**.

We're telling Grooper, "Update the process on this batch. We're using this process, and I want you to start processing at this step."



We will return to Grooper Design Studio, only now our batch's **Task Status** panel has another step in it.

The screenshot shows the ACE Architect 01 software interface. On the left is a navigation tree with categories like Batch Processing, Production, Test, Control Sheets, Processes, Projects, Content Models, Data Extraction, Global Resources, Infrastructure, and Reports. Under Production, there are sub-folders for Invoices Process, Invoices Batch, and Invoices Process. A central workspace displays a table titled 'Batch' with one row selected: 'Invoices Batch'. The table columns are Batch Name, Priority, Status, Batch Process, Current Step, and Created. The status is 'Paused'. Below the table is a 'Task Status' chart showing two tasks: 'Scan (1 / 1)' and 'Image Processing* (0 / 0)'. The 'Image Processing*' bar is entirely blue, indicating it is completed. A legend on the right shows color-coded status indicators: gray for Pending, green for In Progress, blue for Completed, and red for Errors.

The task doesn't have a progress bar because the batch is still paused.

› Step 4

Click on the **Resume Batch** button, and then **Execute** on the confirmation window that appears.

This screenshot shows the same software interface after the batch has been resumed. The 'Status' column in the table now shows 'Resumed processing on the batch.' instead of 'Paused'. The 'Image Processing*' task in the 'Task Status' chart now has a gray progress bar, indicating it is pending execution. The rest of the interface remains the same, with the navigation tree and other batch details visible.

Now the batch has a gray progress bar for the **Image Processing** step. We know this means that it's ready and waiting for us to tell it to start this activity.

Before we do that, let's look at what we just did.

› Step 5

Navigate to (root) > Batch Processing > Batches > Production > Invoices Process > Invoices Batch > Invoices Process and expand it.

Now we see that there's an `Image Processing` step that wasn't here the last time we looked. This is the result of the `Update Process...` that we did to the batch.

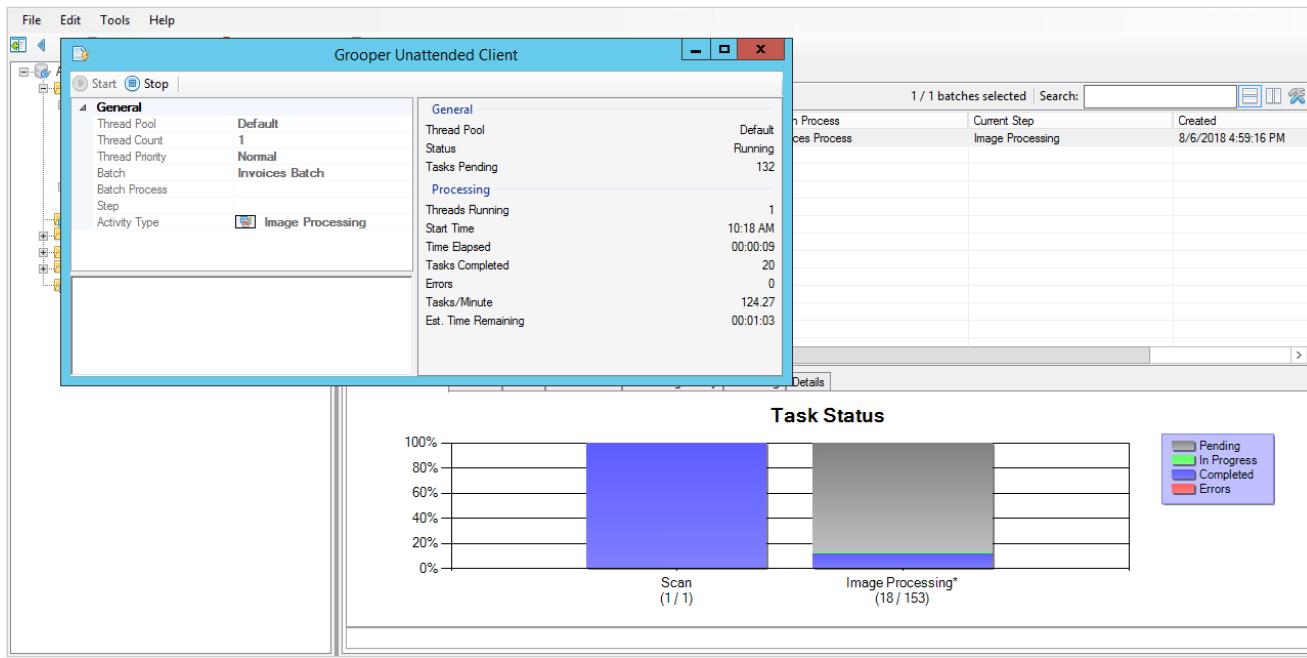
The batch received the latest updates from our `Invoices Process`, which had a new step, so now it's ready to run it!

› Step 6

Navigate back up to `(root) > Batch Processing > Batches > Production > Invoices Process`, select the batch, and click the `Process` button.

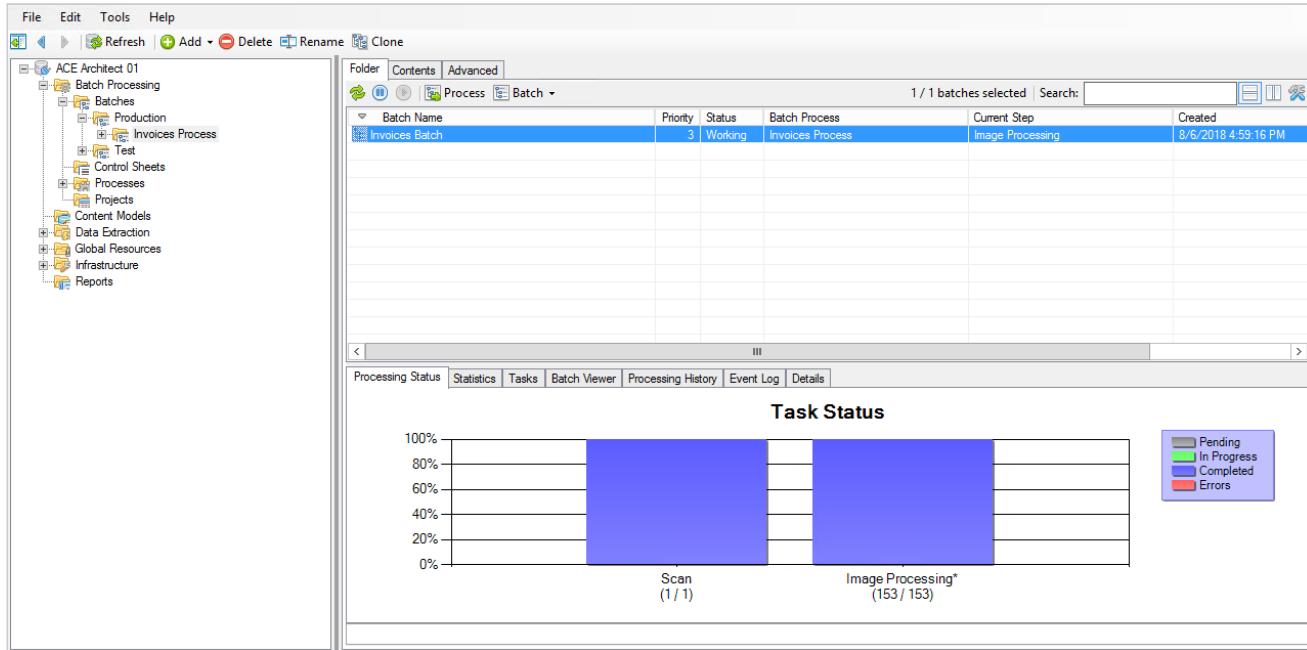
You'll see the `Grooper Unattended Client` window appear. This is the part of the Grooper suite that processes unattended activities.

When this shows up, you don't need to press anything - it will start working automatically.



If you take a look at the `Image Processing` step, you can see it working on the pages.

When it's done, it will have a blue progress bar similar to the Scan step.



But how do we know that it actually worked, and that our images have been correctly cleaned up?

Image Review

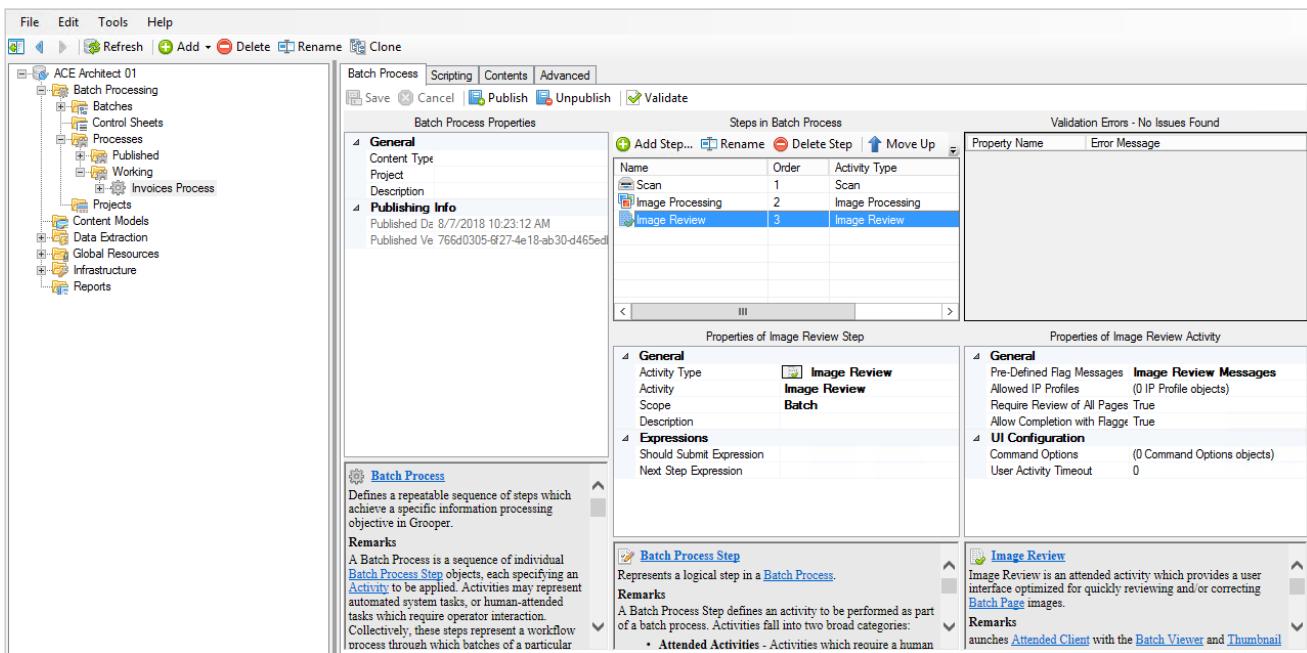
In a production environment, you might want to have users review the images before they move on to any other steps in your Batch Process.

In Grooper, we can do this with an `Image Review` step. This is an attended activity that will display the batch to the users and give them an opportunity to approve or rescan any images that need it.

Adding an Image Review step

Step 1

1. Navigate to `(root) > Batch Processing > Batches > Production > Invoices Process`.
2. Click `Add Step...`.
3. Under `Properties of Image Review Step`, set the `Activity Type` to `Image Review`.
4. Save and Publish the process.



Now we need to go update our batch.

Step 2

1. Navigate to `(root) > Batch Processing > Batches > Production > Invoices Process`.
2. Pause the batch.
3. Select the `Batch` dropdown and select `Update Process...`.
4. In the `Update Process` window, select the `Image Review` step from the `Target Step` dropdown.
5. Click `Execute`.

Screenshot of the ACE Architect 01 application interface showing the Batch Processing module.

Left Sidebar: Contains a tree view of project components: ACE Architect 01, Batch Processing, Batches, Production, Invoices Process, Test, Control Sheets, Processes, Projects, Content Models, Data Extraction, Global Resources, Infrastructure, and Reports.

Top Bar: Includes File, Edit, Tools, Help, Refresh, Add, Delete, Rename, and Clone buttons.

Central Area:

- Batch Processing Tab:** Shows a table with one row for "Invoices Batch". Columns include Batch Name, Priority, Status, Batch Process, Current Step, and Created.
- Task Status Panel:** Displays a progress bar titled "Task Status" with two segments: "Scan (1 / 1)" and "Image Processing (153 / 153)". A legend indicates colors for Pending (grey), In Progress (green), Completed (blue), and Errors (red).

Screenshot of the "Update Process" dialog box.

Header: "Update Process" with "Execute" and "Cancel" buttons.

General Tab: Active tab, showing "Target Step" set to "Scan".

Target Step Section:

- Type:** [Batch Process Step](#)
- Description: "The [Batch Process Step](#) where the batch should begin processing."

Remarks Section:

- Remarks:** "The batch will be updated to use the latest published version of the parent [Batch Process](#).
- Property Type:** [Batch Process Step](#)
- Description: "Represents a logical step in a [Batch Process](#). A Batch Process Step defines an activity to be performed as part of a..."

We should see another step in the Task Status panel, just like when we added Image Processing .

Screenshot of the ACE Architect 01 application interface showing the Batch Processing module after adding a new step.

Left Sidebar: Same as the first screenshot.

Top Bar: Same as the first screenshot.

Central Area:

- Batch Processing Tab:** Shows a table with one row for "Invoices Batch". Columns include Batch Name, Priority, Status, Batch Process, Current Step, and Created.
- Task Status Panel:** Displays a progress bar titled "Task Status" with three segments: "Scan (1 / 1)", "Image Processing (153 / 153)", and "Image Review* (0 / 0)". A legend indicates colors for Pending (grey), In Progress (green), Completed (blue), and Errors (red).

Step 3

Resume the batch.

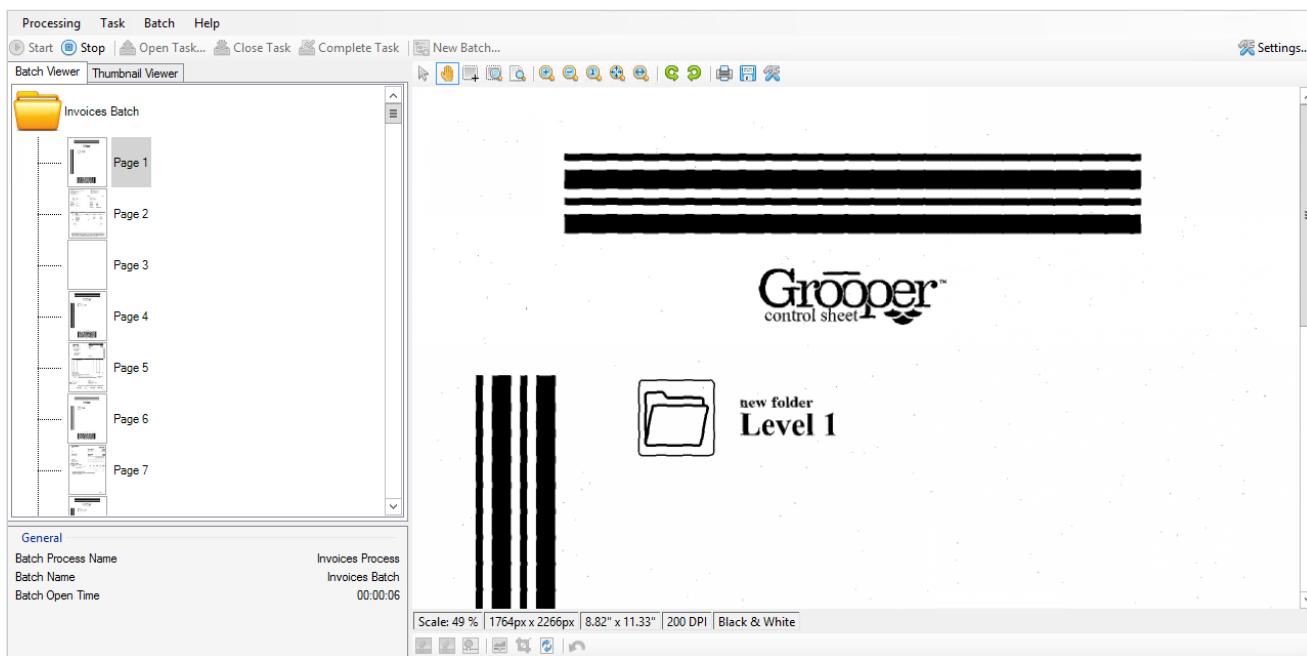
The screenshot shows the ACE Architect software interface. On the left, there is a navigation tree with categories like 'Batch Processing', 'Production', 'Control Sheets', 'Processes', etc. In the center, a table lists batches. One batch, named 'Invoice', is selected and has the status 'Paused'. Below the table, a 'Task Status' chart shows three tasks: 'Scan' (1/1), 'Image Processing' (153/153), and 'Image Review*' (0/0). The 'Image Review*' task is shown as completed (blue bar).

Step 4

Click Process to start this activity.

This screenshot is similar to the previous one, but the 'Process' button in the toolbar is highlighted, indicating it is being clicked. The 'Image Review*' task status has changed from 'Completed' (blue) to 'In Progress' (green).

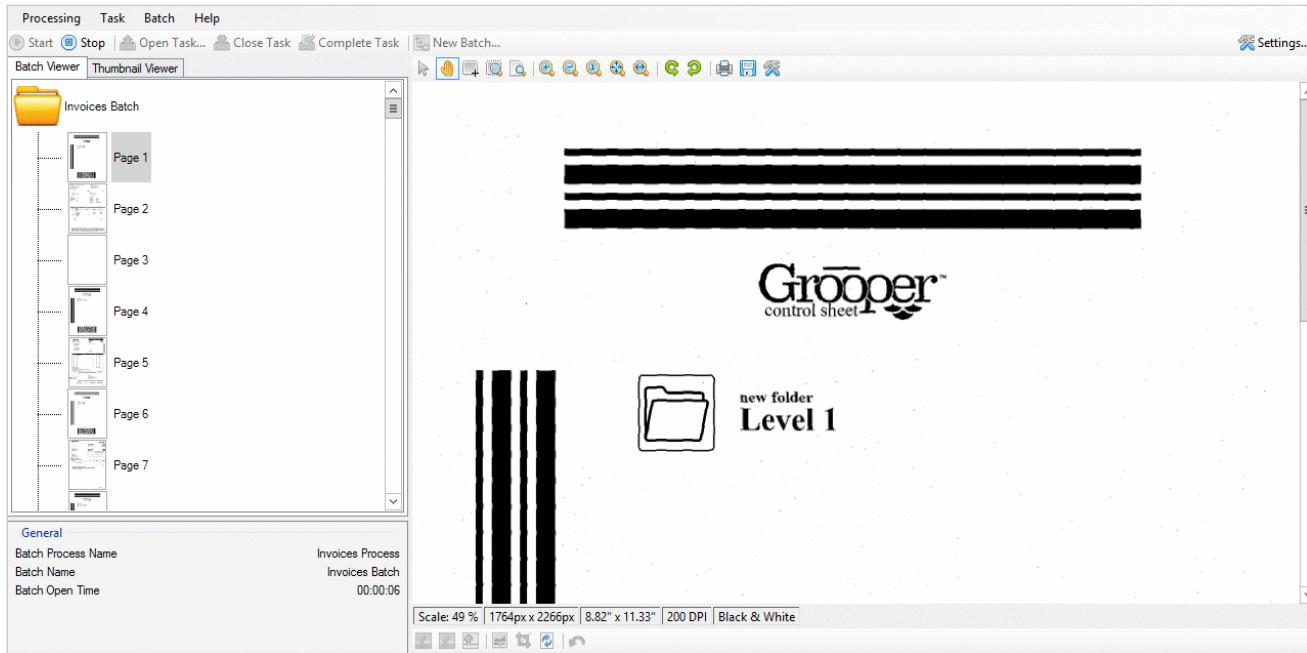
'Image Review' is an attended activity, so clicking Process will open up the Grooper Attended Client module (like it did when we scanned).



Opening Image Review

Step 5

Click on the **Thumbnail Viewer** tab.

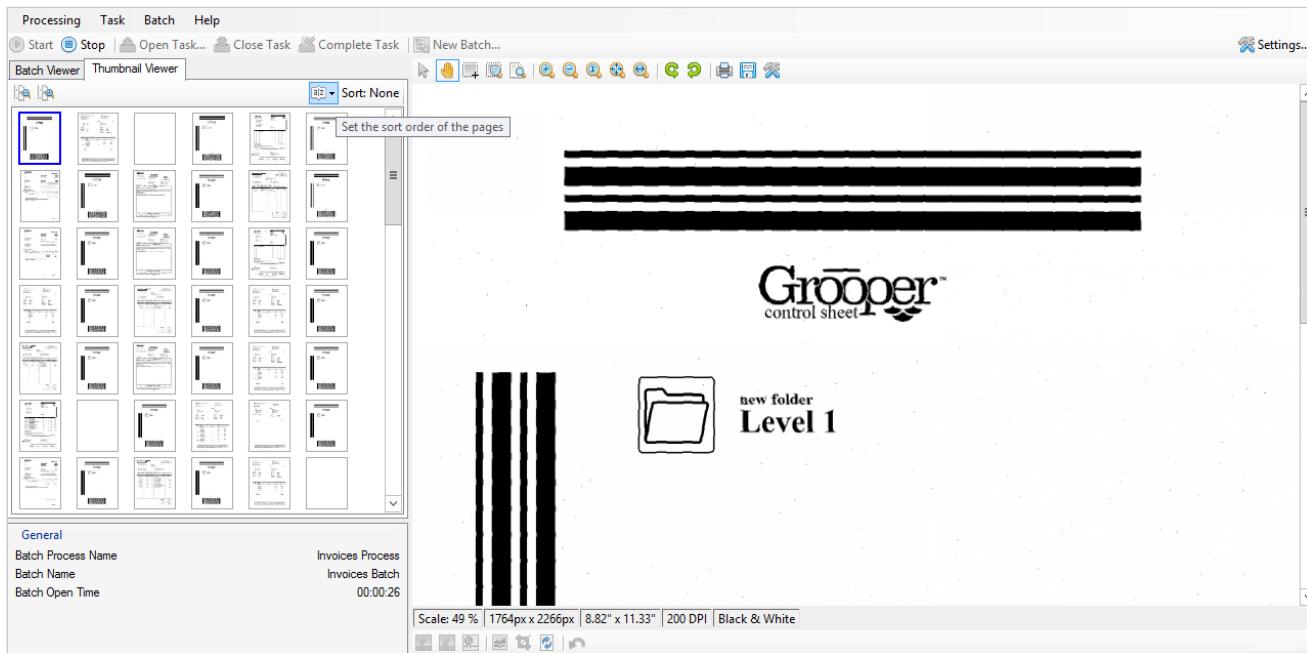


This gives us an easy way to see all of the thumbnails of the batch at a glance.

If you haven't noticed yet, there are a few blank pages in this batch. We don't really care about processing those, so let's get rid of them.

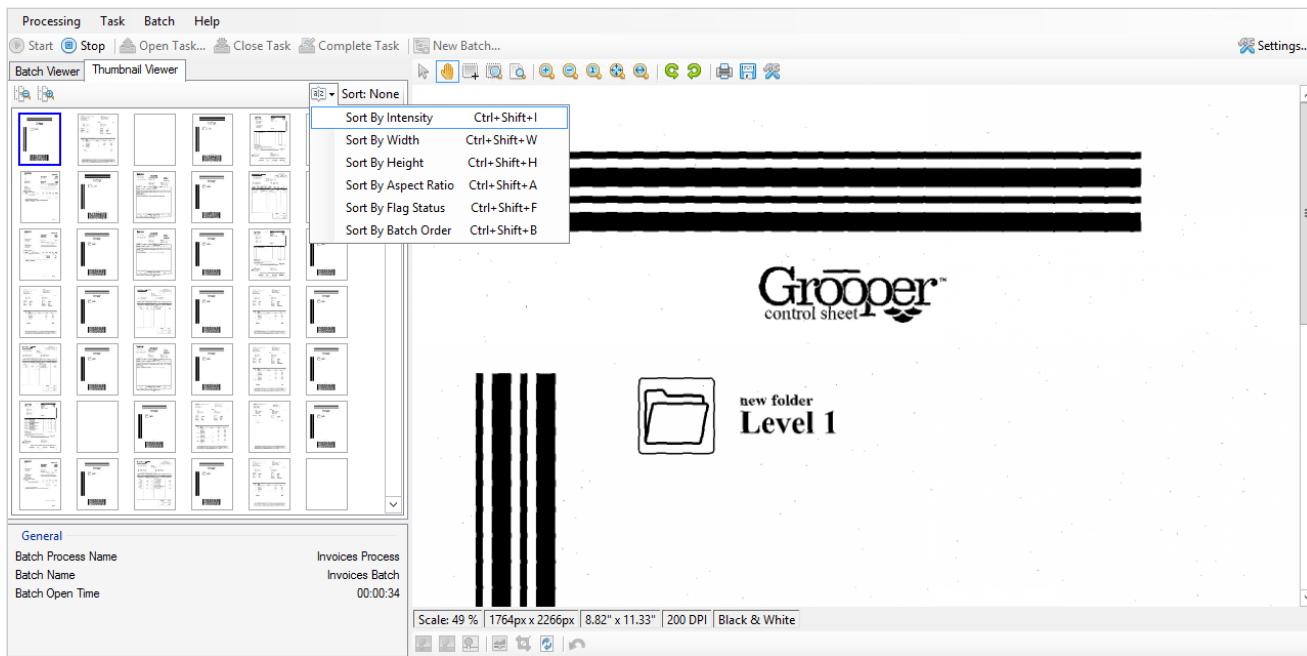
Step 6

In the **Thumbnail Viewer**, click the **Sort** button in the upper right corner.



Step 7

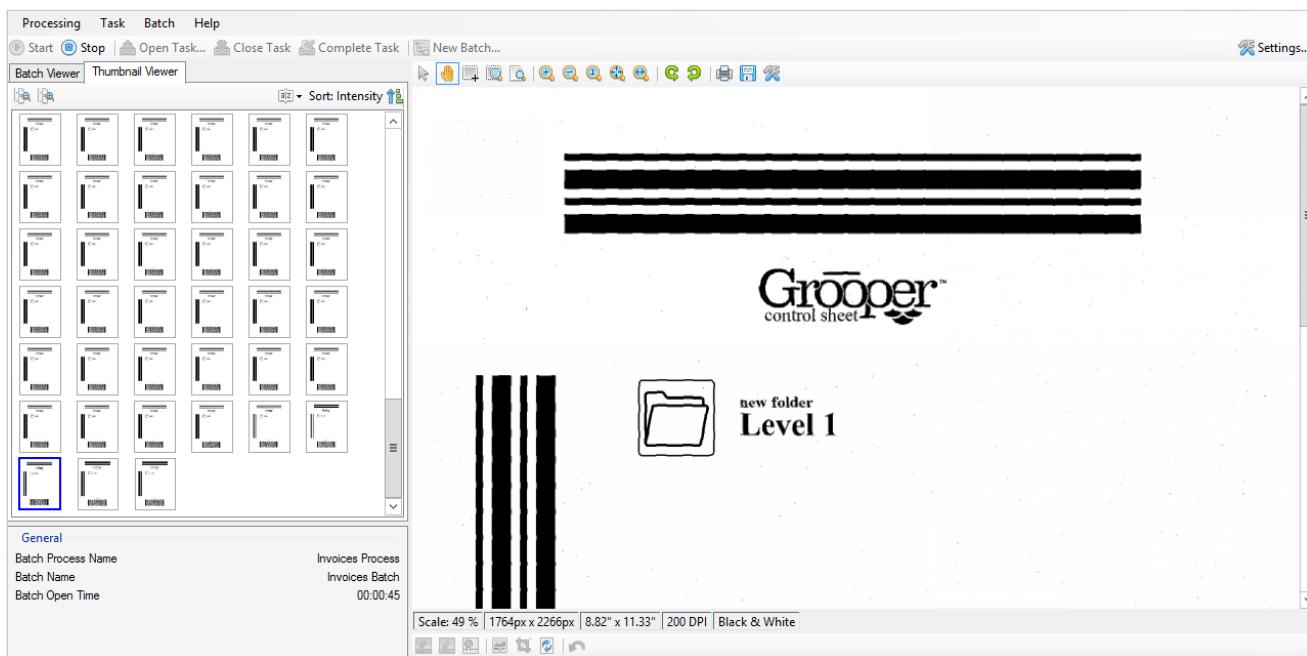
Select the **Sort By Intensity** option.



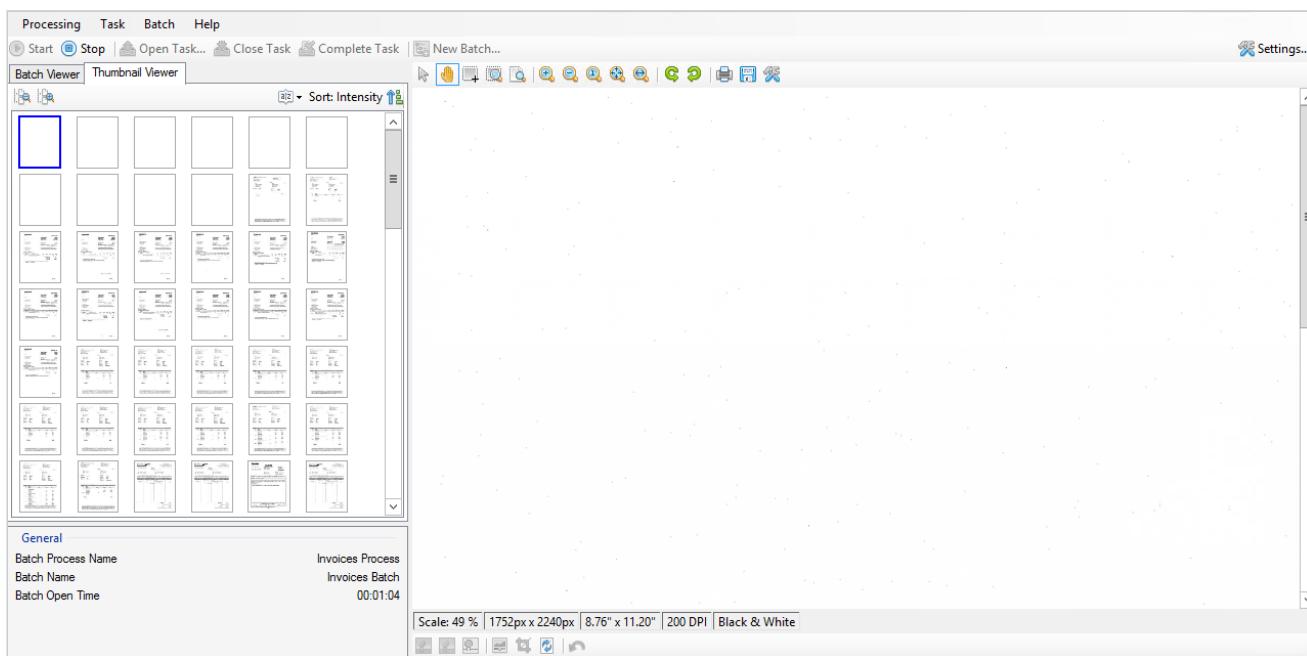
This will arrange the images by how intense they are, based on the black pixel count. Images will be arranged from top to bottom by least amount of black pixels to most.

Note

This does not permanently arrange the images in this order. This is just a technique to see how many blank pages we have.



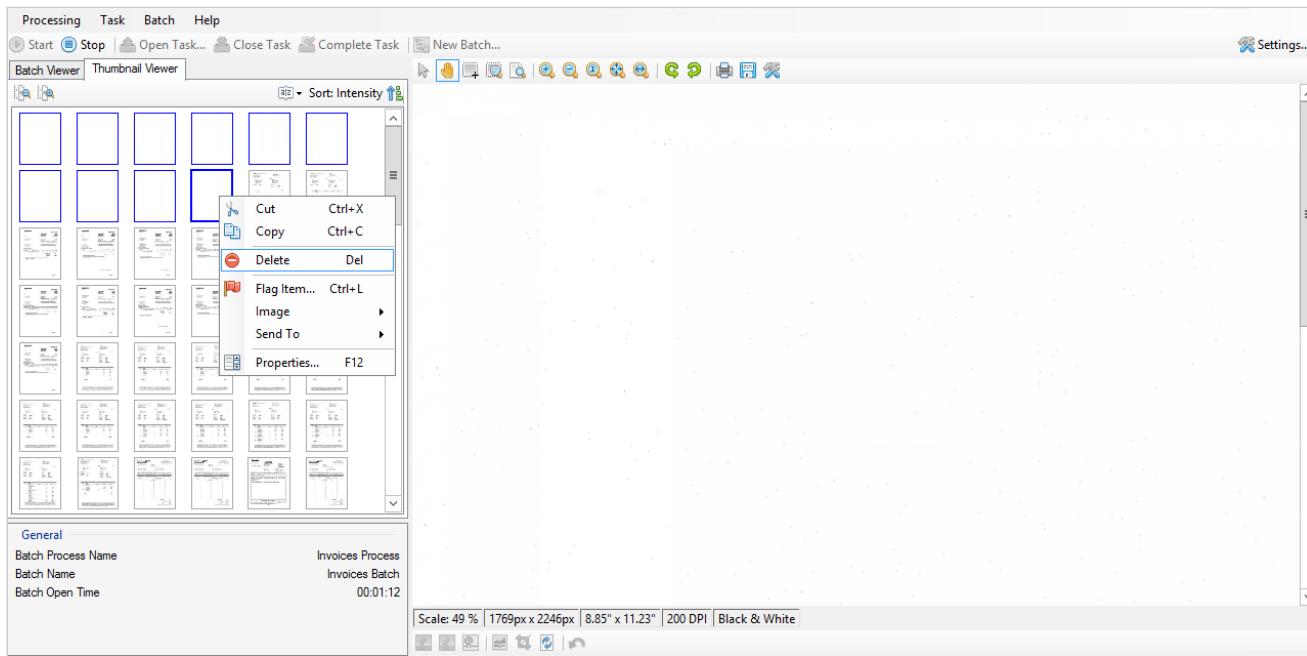
If you scroll to the top, you can see all of the pages with the least amount of black pixels - the blank pages we want to remove.



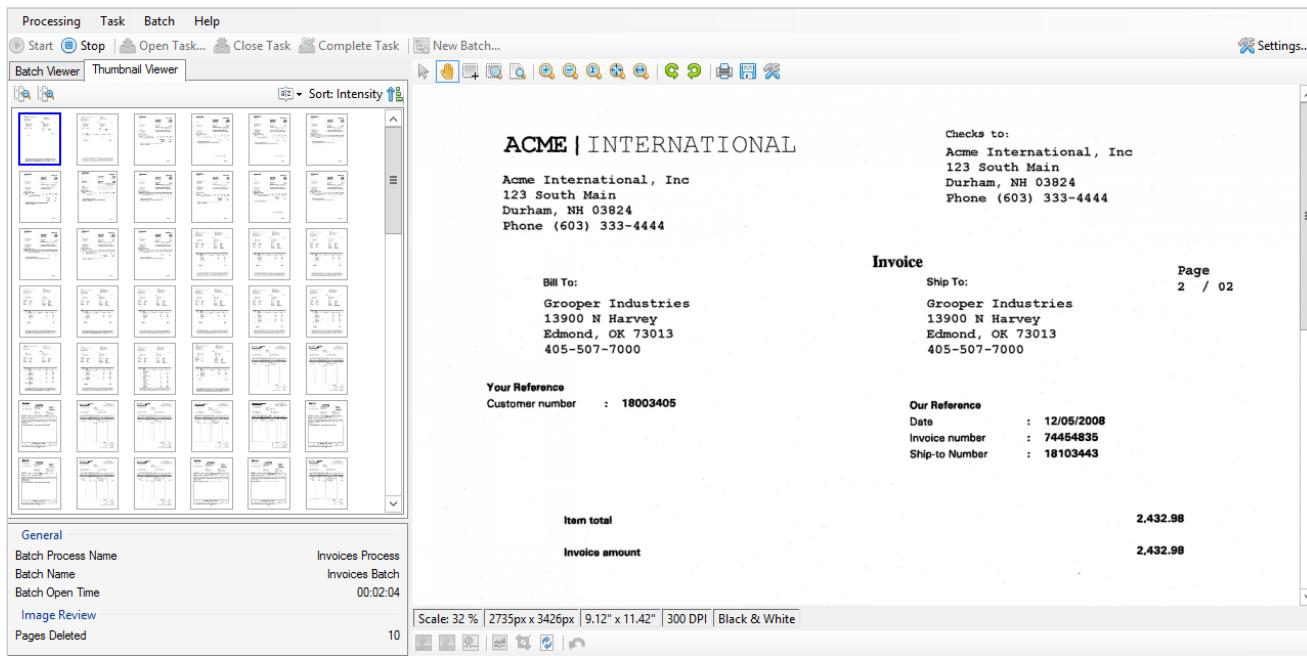
Deleting blank pages

Step 8

1. Select the blank pages. You can do this in the same way you select files on your computer.
 - Using your **Ctrl** key and clicking on the page you want to select
 - Clicking the first blank page, holding **Shift** on your keyboard, and then clicking on the last blank page
2. Delete the pages. Either:
 - press the **Delete** key on your keyboard, or
 - right click on the selected pages and select **Delete**.
3. Confirm the deletion when the confirmation window comes up.



Ta-da! They're all gone.



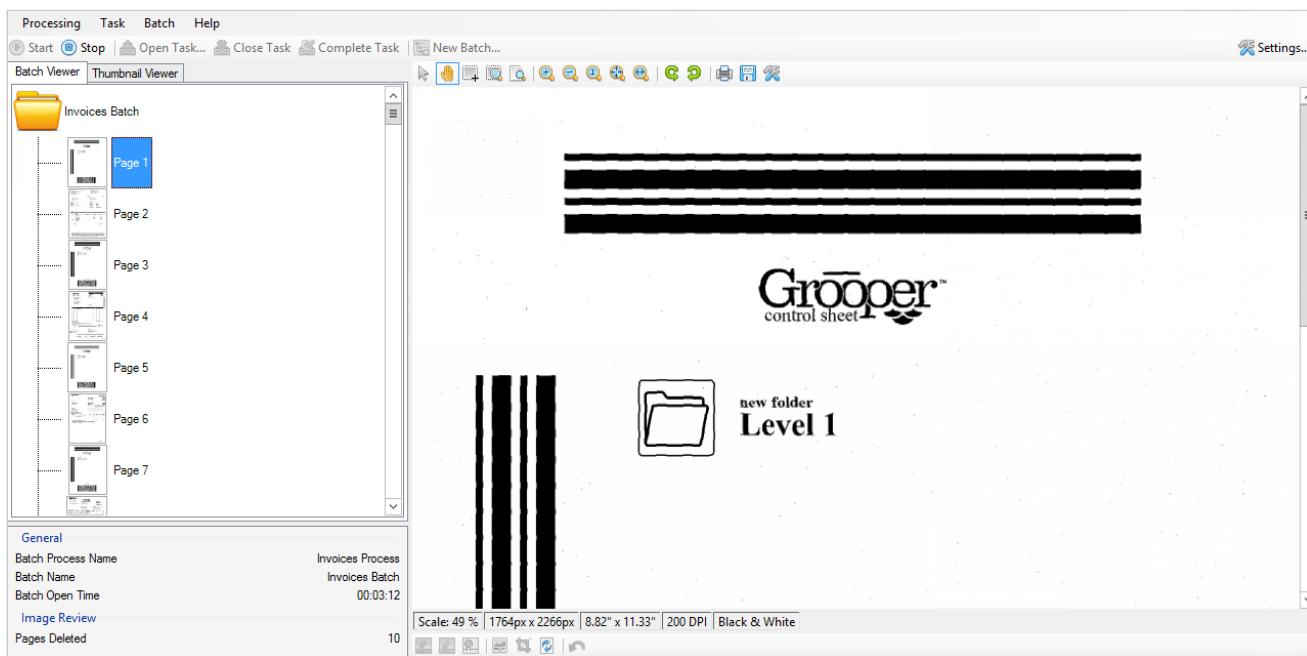
Note

This is only one of many ways that blank pages can be removed in Grooper.

Step 9

Click back over to the Batch Viewer tab.

Notice that the order of the pages didn't actually change, and now our batch is free of any blank pages.



Verifying the images

In order to complete this activity, the images have to be verified. This means that they need to be checked to make sure the previous step (Image Processing) worked correctly on all of the pages.

To verify that an image has been reviewed, you can: 1. right click on the image and click `Mark As Reviewed`, or 2. press the `Enter` key on your keyboard.

You know an image has been reviewed when there is a green on the image.

Each image has to be reviewed before the `Complete Task` button in the toolbar will light up, so it's probably easiest to press the `Enter` key for each of these.

Step 10

Make sure every image in the batch has been marked as reviewed.

Tip

For this exercise, Image Processing works on all of the pages.

To complete this step quickly, select the first page in the batch and hold your `Enter` key down. It will quickly verify all of the pages in the batch.

When you have reviewed all of the pages in the batch, the `Complete Task` button in the toolbar will light up.

Step 11

Click the **Complete Task** button to finish this activity and return to Grooper Design Studio.

And that's it! We've successfully cleaned up our images. But now what do we do?

OCR

You may be wondering why it's so important for us to have the images as clean as we can get them? Why can't we just store them however they came in? They weren't that bad, right?

Well, believe it or not, there is a reason behind the madness.

About OCR

Remember that our overarching goal with Grooper is to automate the process of processing documents, collecting information from them, and sending them on their way.

We're well on our way to getting that information from the documents, but we have to do a few things to prepare Grooper to get the information for us.

What is OCR?

We're going to be performing what's called OCR, which stands for "optical character recognition." This means we're going to tell Grooper to look at the images in our batch, identify what on these images is text, and store that text for us to use later.

Image someone who doesn't know how to read. Letters on a page would simply look like a bunch of symbols without meaning, right?

Now image that that person is a computer. For a scanned document, a computer doesn't even know the symbol is a letter, but instead an arbitrary combination of pixels. The OCR process is how the computer takes an image and, **line by line**, finds combinations of pixels that it ultimately determines are letters, numbers, spaces, special characters, and so on.

For this to happen successfully, the quality of the images has to be as high as possible. If we tried to OCR low-quality images, the text identified by the OCR engine won't be very good, which essentially breaks down everything we do from this point forward.

When do I need to OCR?

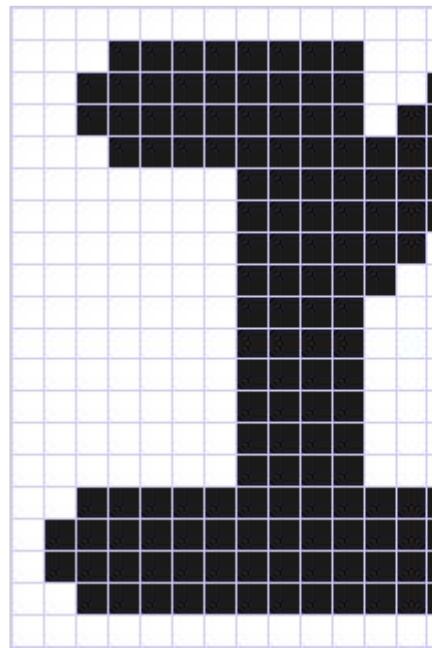
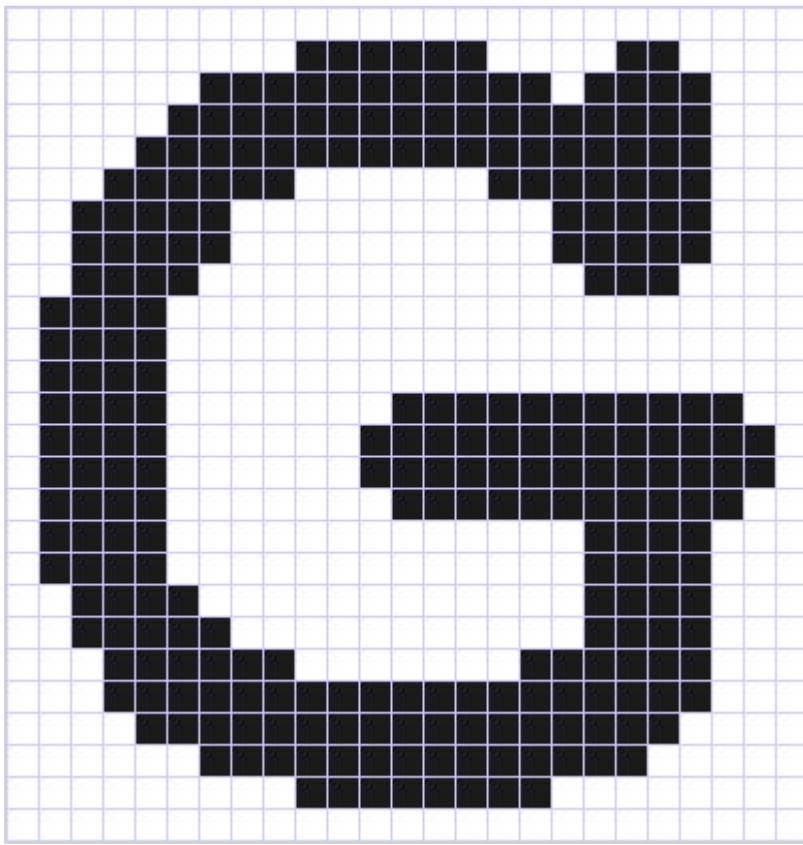
To harness all the power of Grooper, pages must be OCRed. There are perhaps very simple batch processes that could be created that utilized human interaction for every step, and in that case OCR would not be required, but that's like buying a Ferrari to take trips to the grocery store.

All the power of Grooper, from separation, to classification, to extraction, leverages the computer's ability to read the document, and to that end require a page be OCRed. Therefore it is *crucial* to have the highest quality documents we can get in order for the automation process to run as smoothly as possible.

How does OCR work?

Check out [this video](#) on Wikipedia. It's a nice demonstration of a very manual approach to OCR. You can see the person live scanning the document, line by line, and the computer "reads" the letters as the scanning happens.

With Grooper, page scanning happens (usually) all at once. During the OCR process the image is broken into vertical and horizontal lines of pixels to identify individual letter characters and spacing.



⚡ TO-DO

THESE STEPS NEED EXPLANATION.

Adding an OCR step

› Step 1

1. Navigate to `(root) > Batch Processing > Processes > Working > Invoices Process`.
2. Click `Add Step...`.
3. Under `Properties of OCR Step`, set the `Activity Type` to `OCR`.
4. Under `Properties of OCR Activity`, set the `OCR Profile` to `Full Text - Accurate`.
5. Save and Publish the process.

Batch Process Properties

Name	Order	Activity Type
Scan	1	Scan
Image Processing	2	Image Processing
Image Review	3	Image Review
OCR	4	OCR

Properties of OCR Step

General

- Activity Type: OCR
- Activity: Page
- Scope: Default
- Description:
- Expressions
- Should Submit Expression
- Next Step Expression

Properties of OCR Activity

General

- OCR Profile: Full Text - Accurate
- Auto Normalize: False
- Save Page Layout Data: False
- Page Scope: AllPages
- Minimum Confidence: 50%
- Flag Empty Documents: False

Processing Options

- Error Disposition: Flag, Log
- Maximum Consecutive Errors: 0
- Concurrency Mode: Multiple

OCR Profile

Type: OCR Profile
The OCR Profile which should be applied to each page.
Property Type: OCR Profile
Defines settings which control how OCR is performed.

Step 2

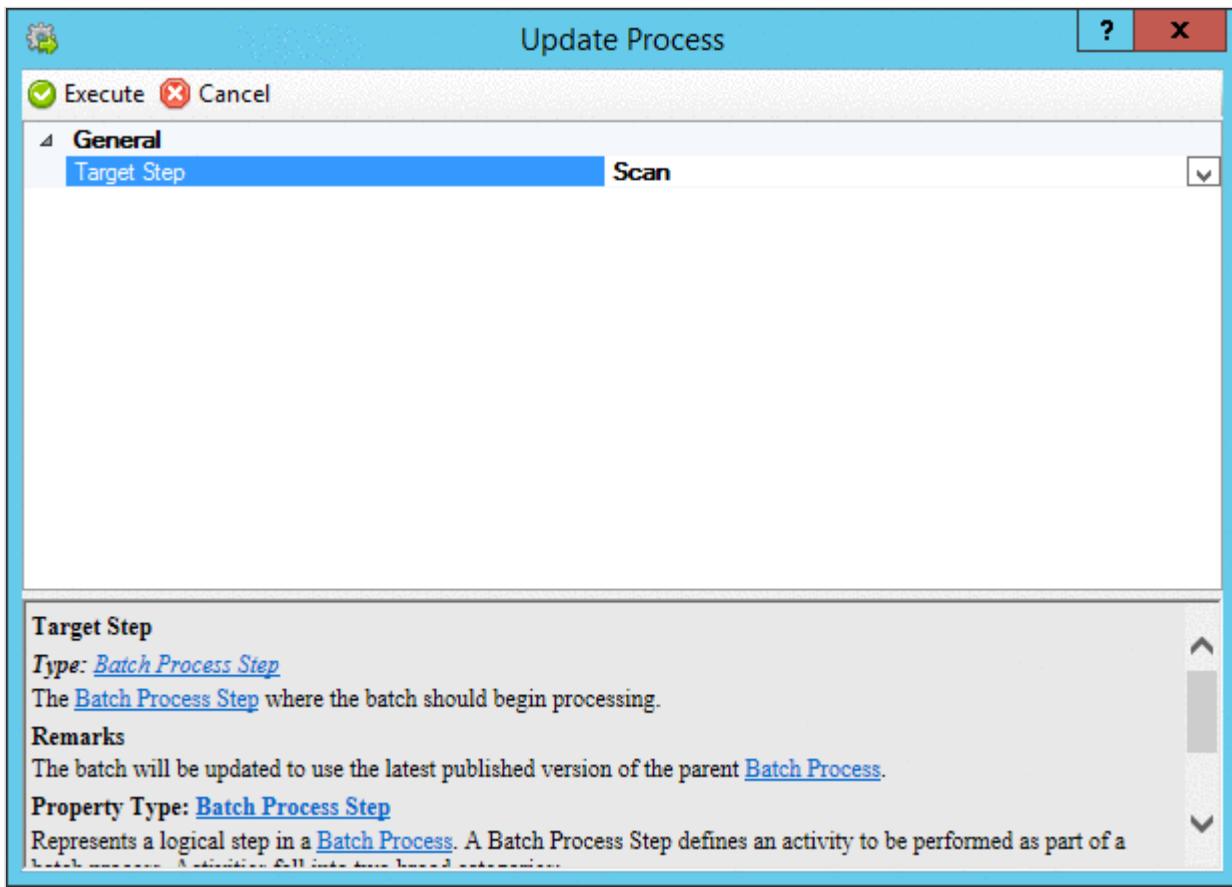
1. Navigate to `(root) > Batch Processing > Batches > Production > Invoices Process`.
2. Pause the batch.
3. Select the `Batch` dropdown and select `Update Process...`.
4. In the `Update Process` window, select the `OCR` step from the `Target Step` dropdown.
5. Click `Execute`.

Batch Name	Priority	Status	Batch Process	Current Step	Created
Invoices Batch	3	Completed	Invoices Process	(none)	8/6/2018 4:59:16 PM

Task Status

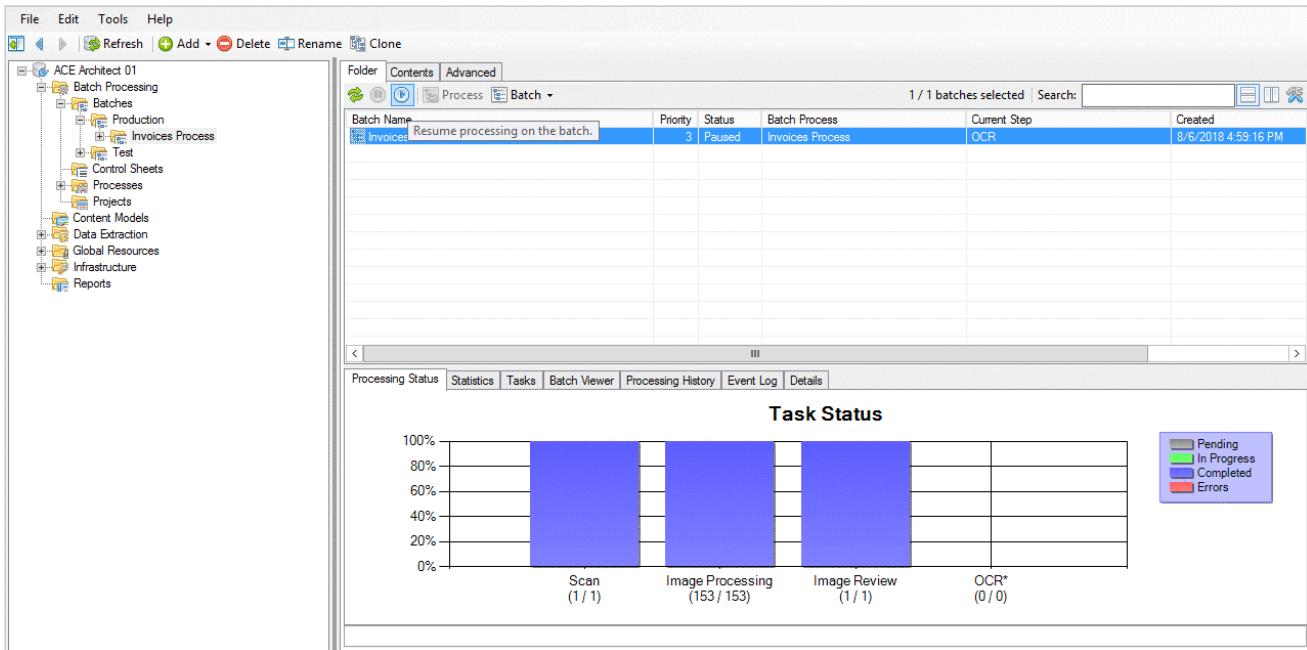
Scan (1/1) Image Processing (153/153) Image Review (1/1)

Legend: Pending (grey), In Progress (green), Completed (blue), Errors (red)

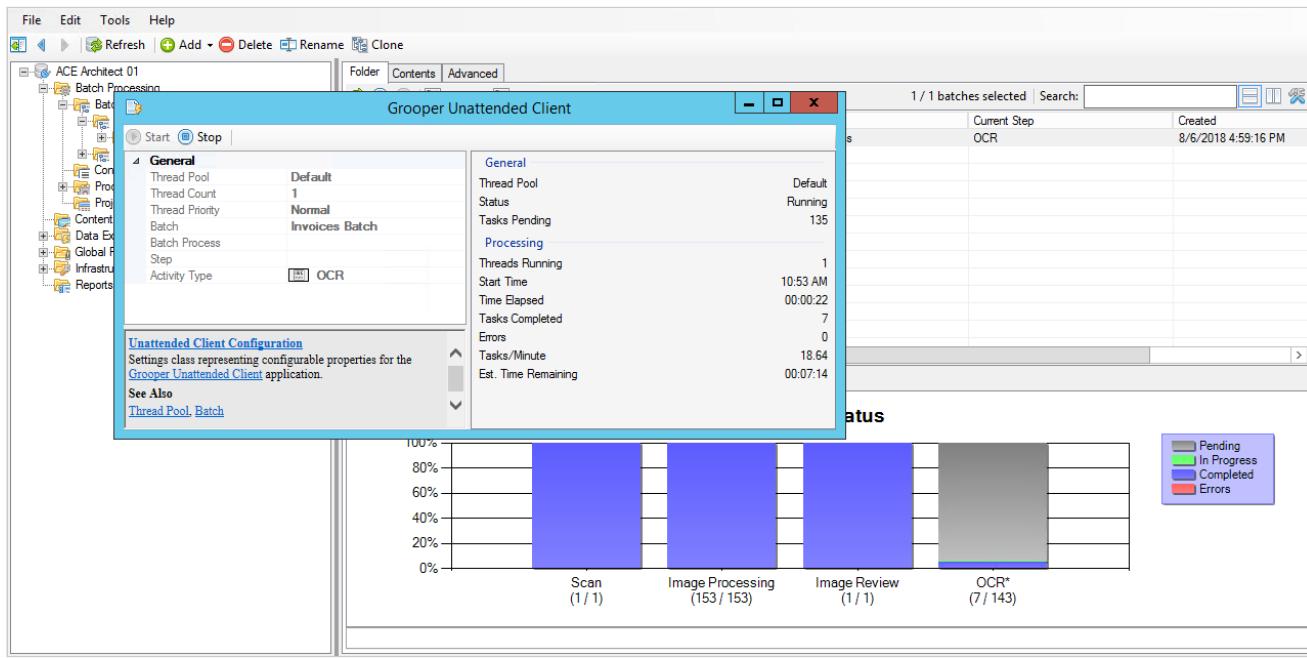


Step 3

1. Resume the batch.
2. Click Process to kick off the OCR activity.



The Grooper Unattended Client should kick off again and start processing against the pages in the batch.



TO-DO

Insert information about OCR and unattended client (images 36-39)

Recap

That's it for the `Condition` phase! We've successfully prepped our images and extracted text from them.

Here's a list of everything we learned: - how to clone a batch from production to test, - how to create an Image Processing Profile (or "IP Profile"), - how to configure our IP Profile to clean up our images, - how to update an existing batch when you change its Batch Process, - how to perform Image Review on the images, and - how to extract text from the images using Optical Character Recognition (or "OCR")

And thus your arsenal of Grooper knowledge grows!

Up next

We currently have a batch of loose pages with some patch code sheets. This batch consists of multiple invoices, but Grooper isn't aware of that yet. You and I know where one invoice ends and another begins, so it's up to us to tell Grooper how to recognize that as well.