You can look at/clone the code from here:

Git hub: https://edweenlo.github.io/pos_commit/

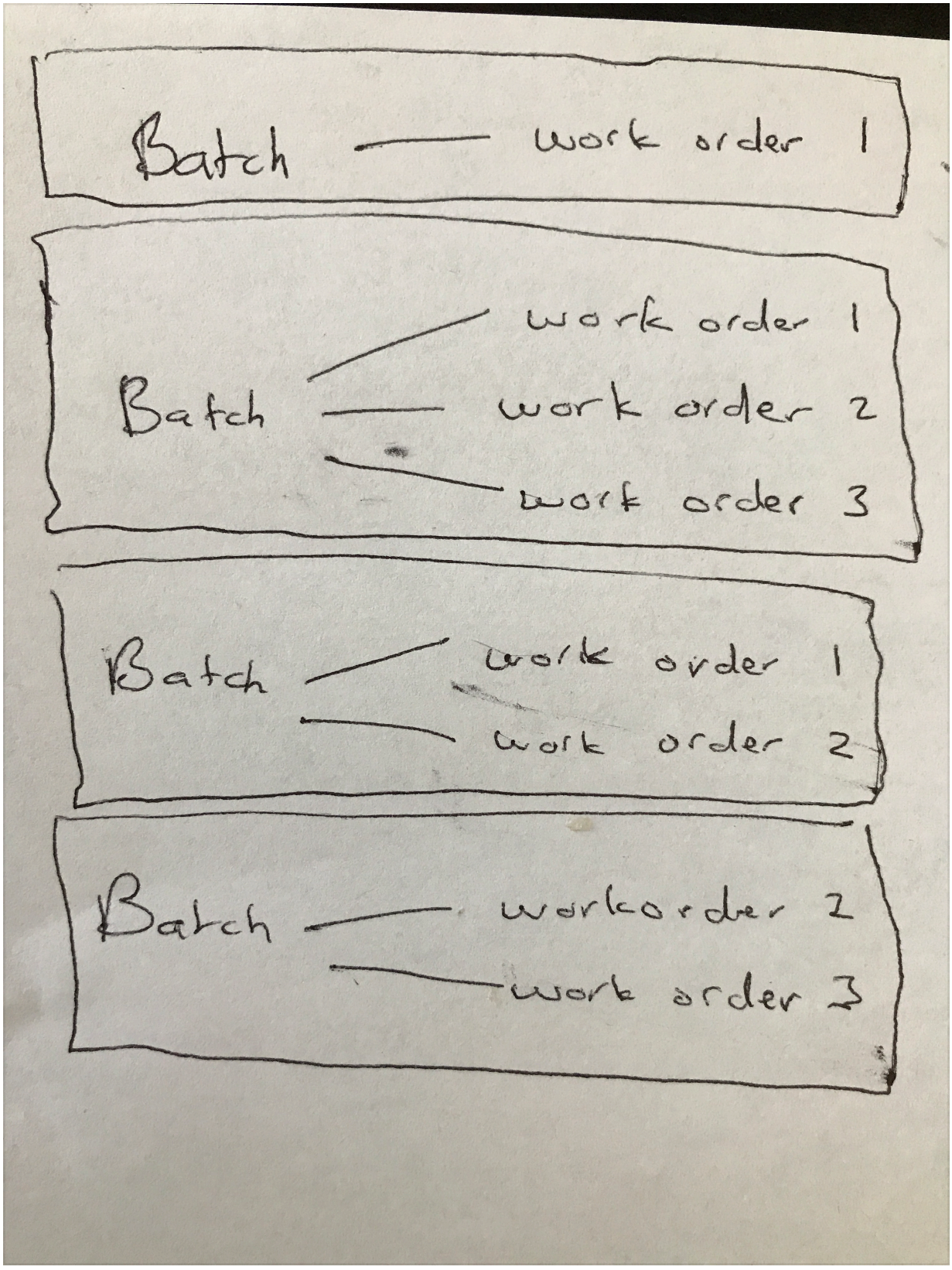
BACKGROUND INFORMATION

This data shows a list of **batches**, the **work orders** that correspond to that batches, and the **items** inside each work order.

Let me break this down:

Batch numbers are found under the BATCH column. In the example below, we see batch # AR906:

Each **Batch** has at least 1 to 3 work orders that correspond to it. Here's a sketch which shows how a batch can have 1, 2, or 3 work orders inside of it:



The work orders numbers are found under the WORK ORDER # column.

Work Order #
Work Order 2
Work Order 2
Work Order 2
Work Order 3

In this example below, we show batch# **AR906** has 2 work orders inside of it: **Work Order 2** and **Work Order 3**

Batch	Location	Work Order #
AR906	Bottling	Work Order 2
AR906	Bottling	Work Order 2
AR906	Bottling	Work Order 2
AR906	Finished Goods Inspection	Work Order 3
AR906	Finished Goods Inspection	Work Order 3

Each Work Order has several **Items** inside of it:

- **Work order 2** has three items:
  - 3017
  - 1227
  - NK1-0503
- **Work order 3** has two items:
  - 1556
  - NK1-0503-ZDZD-S001

Work Order #	Order #	Item
Work Order 2	WO13533	3017
Work Order 2	WO13533	1227
Work Order 2	WO13533	NK1-0503
Work Order 3	WO13534	1556
Work Order 3	WO13534	NK1-0503-ZDZD-S001

To summarize, this data shows: batches and their work orders, and what items are inside the work orders.

Below is two batches:

- Batch AR906 has 2 work orders (work order 2 has 3 items, work order 3 has 2 items)
- Batch 189AC has 2 work orders (work order 2 has 6 items, work order 3 has 2 items)

Batch	Location	Work Order #	Order #	Item
AR906	Bottling	Work Order 2	WO13533	3017
AR906	Bottling	Work Order 2	WO13533	1227
AR906	Bottling	Work Order 2	WO13533	NK1-0503
AR906	Finished Goods Inspection	Work Order 3	WO13534	1556
AR906	Finished Goods Inspection	Work Order 3	WO13534	NK1-0503-ZDZD-S001
189AC	Bottling	Work Order 2	WO13668	1212_Non_Lot
189AC	Bottling	Work Order 2	WO13668	NkdMenthol-MelonSalt-50-FPVN-5
189AC	Bottling	Work Order 2	WO13668	5132
189AC	Bottling	Work Order 2	WO13668	NkdMenthol-MelonSalt-50-FPVN-25
189AC	Bottling	Work Order 2	WO13668	5902
189AC	Bottling	Work Order 2	WO13668	NkdMenthol-MelonSalt-50-FPVN-50
189AC	Finished Goods Inspection	Work Order 3	WO13669	1556
189AC	Finished Goods Inspection	Work Order 3	WO13669	NkdMenthol-MelonSalt-50-30mL-S001-UVL

WHAT YOU HELPED ME OUT WITH LAST TIME

Last time, you helped me group the data by ORDER # and see if each item inside the order had enough AVAILABLE to meet the QTY CONVERSION.

If it had enough of each item, it turned all the rows in that order to green. If it didn't, it left them colorless, unless it didn't have enough quantity it turned it red.

I can send the original code if you need it.

WHAT'S CHANGED

Besides adding more columns to fit all my data, I made one important change: instead of grouping by ORDER #, the data is now grouped by BATCH.

The way the logic works now is similar to before, except it now looks to see if we have enough AVAILABLE to meet the QTY CONVERSION on every item in the same BATCH not order.

MORE BACKGROUND INFO

Adding additional logic to the script to do the following as described below:

But first, one last piece of background information.

As mentioned, each batch has 1 to 3 work orders.

Work orders are essentially steps.

Step 1: work order 1

Step 2: work order 2

Step 3: work order 3

Before you can move on to step 2 (work order 2), we must complete step 1

(work order 1). Before moving to step 3 (work order 3), we must complete step 2 (work order 2).

The reason some batches don't have a work order 1 is because it has already been completed.

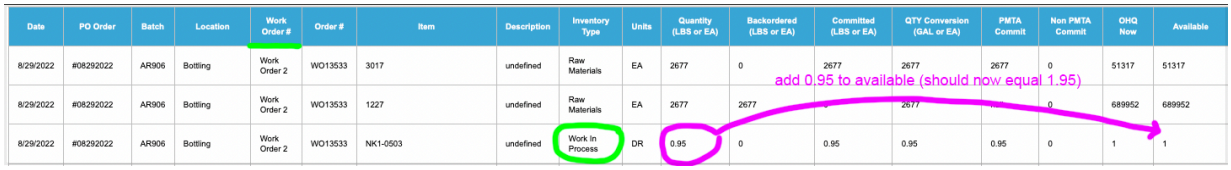
That's why batch AR309, for example, doesn't have a work order 1, and starts with work order 2. Because we previously completed that step before.

Date	PO Order	Batch	Location	Work Order #	Order #
8/29/2022	#08292022	AR906	Bottling	Work Order 2	WO13533
8/29/2022	#08292022	AR906	Bottling	Work Order 2	WO13533
8/29/2022	#08292022	AR906	Bottling	Work Order 2	WO13533
8/29/2022	#08292022	AR906	Finished Goods Inspection	Work Order 3	WO13534
8/29/2022	#08292022	AR906	Finished Goods Inspection	Work Order 3	WO13534

SO HERE'S WHAT I ACTUALLY NEED HELP WITH...

THE LOGIC:

1) If a batch # group doesn't have a work order 1 or work order 1 group is all white (because it has enough available for the qty conversion (gal or ea), then **items** in the same batch #'s work order 2 that have an **INVENTORY TYPE** of "Work In Process" take their **QUANTITY (LBS OR EA)** value and add it to their **AVAILABLE** value.



Date	PO Order	Batch	Location	Work Order #	Order #	Item	Description	Inventory Type	Units	Quantity (LBS or EA)	Backordered (LBS or EA)	Committed (LBS or EA)	QTY Conversion (GAL or EA)	PMTA Commit	Non PMTA Commit	OHQ Now	Available
8/29/2022	#08292022	AR906	Bottling	Work Order 2	WO13533	3017	undefined	Raw Materials	EA	2677	0	2677	2677	2677	0	51317	51317
8/29/2022	#08292022	AR906	Bottling	Work Order 2	WO13533	1227	undefined	Raw Materials	EA	2677	2677	0	2677	null	0	689952	689952
8/29/2022	#08292022	AR906	Bottling	Work Order 2	WO13533	NK1-0503	undefined	Work In Process	DR	0.95	0	0.95	0.95	0.95	0	1	1

- Broken down:
  - Look to see if there's no work order 1, or if it has a work order 1, and none of the items are read....
  - Then look at work order 2 for items that are "Work In Process" under inventory type...
  - Take their quantity
  - Add it to the available
- In example in the screenshot, since batch AR906 has no work order 1, then it find the item in work order 2 that's work in process and adds its quantity (0.95) and adds it to Available. So instead of 1 available in this screenshot, it should be 1.95

2) If a batch # group doesn't have a work order 2 or work order 2 group is all white, then items in the same batch #'s work order 2 that have an **INVENTORY TYPE** of "Finished Goods" take their **QUANTITY (LBS OR EA)** value and add it to their **AVAILABLE** value.

Date	PO Order	Batch	Location	Work Order #	Order #	Item	Description	Inventory Type	Units	Quantity (LBS or EA)	Backordered (LBS or EA)	Committed (LBS or EA)	QTY Conversion (GAL or EA)	PMTA Commit	Non PMTA Commit	OHQ Now	Available
8/29/2022	#08292022	AR906	Bottling	Work Order 2	WO13533	3017	undefined	Raw Materials	EA	2677	0	2677	2677	2677	0	51317	51317
8/29/2022	#08292022	AR906	Bottling	Work Order 2	WO13533	1227	undefined	Raw Materials	EA	2677	2677	0	2677	null	0	689952	689952
8/29/2022	#08292022	AR906	Bottling	Work Order 2	WO13533	NK1-0503	undefined	Work In Process	DR	0.95	0	0.95	0.95	0.95	0	1	1
8/29/2022	#08292022	AR906	Finished Goods Inspection	Work Order 3	WO13534	1556	undefined	Raw Materials	EA	0	0	0	54	null	0	13315	13315
8/29/2022	#08292022	AR906	Finished Goods Inspection	Work Order 3	WO13534	NK1-0503-ZDZD-S001	undefined	Finished Goods	EA	2646	2646	0	2646	0	0	187	185

The logic between the above is similar: it's adding quantity to available if certain conditions are met.

OUR GOAL

Let's look at one batch (aka group): AR906

Date	PO Order	Batch	Location	Work Order #	Order #	Item	Description	Inventory Type	Units	Quantity (LBS or EA)	Backordered (LBS or EA)	Committed (LBS or EA)	QTY Conversion (GAL or EA)	PMTA Commit	Non PMTA Commit	OHQ Now	Available	Schedule?
8/29/2022	#08292022	AR906	Bottling	Work Order 2	WO13533	3017	undefined	Raw Materials	EA	2677	0	2677	2677	2677	0	51317	51317	false
8/29/2022	#08292022	AR906	Bottling	Work Order 2	WO13533	1227	undefined	Raw Materials	EA	2677	2677	0	2677	null	0	689952	689952	false
8/29/2022	#08292022	AR906	Bottling	Work Order 2	WO13533	NK1-0503	undefined	Work In Process	DR	0.95	0	0.95	0.95	0.95	0	1	1	false
8/29/2022	#08292022	AR906	Finished Goods Inspection	Work Order 3	WO13534	1556	undefined	Raw Materials	EA	0	0	0	54	null	0	13315	13315	false
8/29/2022	#08292022	AR906	Finished Goods Inspection	Work Order 3	WO13534	NK1-0503-ZDZD-S001	undefined	Finished Goods	EA	2646	2646	0	2646	0	0	187	185	false

It has two work orders: work order 2 and work order 3.

If we implement the logic I mentioned above. Then this group, because it’s all white due to having enough/more AVAILABLE than QTY CONVERSION, would add AVAILABLE to the item in red.

That item would then have enough available that it would no longer be red and the whole batch, including every row that’s part of that batch group, would turn green.

And that’s our goal.