

- ⌚ Flux
 - Context
 - ⌚ Rows
 - 1 row per job
 - ⌚ Columns
 - ⌚ Référence
 - ⌚ Text
 - 45113 A
 - This reference is actually for the order, it is manipulated (usually appended) by the users to manage what amounts to order lines and for a given order line a part.
 - ⌚ Client
 - ⌚ Text
 - Fibois Grand Est
 - ⌚ Planifié
 - ⌚ Booléan
 - True if the whole action path of the job has been scheduled
 - ⌚ Commentaires
 - Text
 - ⌚ Description
 - ⌚ Text
 - Cartes de voeux - 9,9 x 21 cm - off 350g - 350 ex
 - ⌚ Envoi BAT
 - Date at which the BAT was sent to the client
 - ⌚ Text
 - 03-déc-25
 - + reserved values : Attente fichier; Pas de BAT
 - ⌚ Retour BAT
 - Date at which the BAT approval was received from the client
 - ⌚ Text
 - 03-déc-25
 - ⌚ Sortie d'atelier (deadline)
 - Date at which the job MUST leave the factory
 - ⌚ Achats papiers
 - ⌚ Select simple
 - ⌚ Possible values
 - Stock
 - A commander
 - Commandé
 - Reçu
 - When value switches to « Commandé », we store the date and time of the commande
 - ⌚ Papier - type et grammage
 - ⌚ Text
 - CB300
 - ⌚ Papier - format
 - ⌚ Text
 - 63x88
 - ⌚ Plaques
 - ⌚ Select simple
 - ⌚ Possible values
 - Todo
 - Done
 - ⌚ Action path
 - ⌚ Action definition syntax examples
 - ⌚ Komori 20+40
 - Machine = Komori
 - Setup = 20 minutes
 - Run = 40 minutes
 - ⌚ Komori 20+40 « vernis »
 - Machine = Komori
 - Setup = 20 minutes
 - Run = 40 minutes
 - Comment = « vernis »
 - ⌚ Massicot 15
 - Machine = Massicot
 - Run = 15 minutes
 - ⌚ Conditionnement « au mieux » 15
 - « Machine » = Conditionnement
 - Comment = « Au mieux »
 - ⌚ Outsourced action syntax examples
 - ⌚ ST Clément Pelliculage 2JO
 - ST = is outsourced
 - Clément = outsourcing provider
 - Pelliculage = action outsourced
 - 2JO = duration 2 open days
 - ⌚ n actions are defined
 - Actions follow a single straight sequence
 - ⌚ Brochures are considered inseparable
 - If the user wants to separate them he must create 1 row per separated element
 - ⌚ Pré-requis
 - ⌚ Required job reference
 - Select multiple with existing job references
 - ⌚ Comments
 - ⌚ Back and forth messages that are logged separately about a given job
 - With date and author
 - ⌚ Gantt
 - ⌚ Constraints
 - BAT availability or « Pas de BAT »
 - Action precedence inside a job
 - Job precedence among jobs
 - ⌚ Machine availability
 - ⌚ Machines have operating schedules
 - Komori is operating MO-FRI 00:00-05:00 and 06:00-00:00
 - A task that overlaps a machine operating schedule is lengthened/divided
 - ⌚ Machine order
 - We should be able to easily define the order in which the machines appear as columns (I have an idea but it might change sometime and not cause any issue)
 - ⌚ Machine category
 - A machine belongs to a machine category (for example « offset printing press »)
 - ⌚ Each machine category can have a list of time saving potential similarities between consecutive jobs
 - For example « offset printing press » has same paper type, same paper size, same paper weight, same inking
 - ⌚ Machine capacity
 - Machines have a capacity of 1 except for « machines » that are actually outsourced which have an unlimited capacity and therefore can have multiple tiles on a given timeslot
 - ⌚ Machines belong to machine groups
 - A machine group has a maximum simultaneously running machine count
 - ⌚ UI ideas
 - ⌚ The screen is divided into 3 main areas
 - ⌚ Left
 - ⌚ Two columns
 - Column 1 : list of jobs
 - ⌚ Column 2 : list of actions for the job that is highlighted in column 1
 - Possibility to add an action
 - ⌚ Center
 - ⌚ We have one column for each machine with tiles in each column for the tasks that are assigned to the machine on a given timeslot
 - Machine unavailability is showed visually
 - The tiles stretch « across » machine unavailability times and take on a different appearance for the time periods they overlap machine unavailability time slots.
 - ⌚ Right
 - ⌚ General and contextual information : a single column divided in two zones horizontally
 - ⌚ Late jobs
 - List of jobs that have a planned departure date that exceeds the configured departure date
 - ⌚ Job actions
 - The list of all actions and time-frames for the job the highlighted tile belongs to (or the job highlighted in the left column)
 - ⌚ Drag and drop behaviour
 - The tiles corresponding to job actions are placed by a drag and drop process
 - ⌚ If an attempted drag would result in a precedence rule violation the UI reacts as if the tile had been dragged to the earliest or latest (whichever is closest to the user intended drop location) possible timeslot
 - Drag and dropping while holding alt allows the user to bypass this safeguard
 - ⌚ Precedence rule visual impact
 - Tiles that break the precedence rules are shown with a red halo effect
 - Actions that break precedence rules are listed right after the late jobs in the right area of the screen.
 - Snap grid unit should be 30 minutes
 - Setup and run should be visually represented in a given tile but the tile should still be unsplittable and « measure » the sum of setup and run
 - Scrolling inside the center area should be handled through mouse/trackpad behavior (nothing special) but there should be a keyboard shortcut that is the equivalent of « show me the machine columns to the right of those I currently see ».
 - For machines with capacity > 1, the UI should behave like usual calendar app UI behaves when more than one meeting is scheduled on a given timeslot : it splits the columns into the required number of subcolumns.
 - Action tiles of a given job can only be scheduled by drag and drop to the desired timeslot
 - In a tile there are two visual shortcuts that allow to switch the tile's position with the one before or after it.
 - ⌚ In the action list sub column of the left area of the ui
 - The actions are represented as regular tiles with their real durations and they can be reordered at will (which will then influence precedence).
 - ⌚ If a tile is placed on the center area it appears with lower opacity here and a « recall tile » button appears on hover.
 - Let's imagine the user has placed 3 consecutive tiles in the schedule and he recalls the middle one, only the middle is recalled
 - ⌚ Time is represented vertically
 - Each job gets assigned a random color for its tiles
 - The center area has a dropdown that allows the user to jump to a given timeslot
 - The left area has a text filter that allows to search for specific job or jobs
 - The UI shows a floating « branch » button that when clicked allows the user to duplicate the currently displayed schedule and edit it separately regardless of any constraint.
 - ⌚ The user has access to a list of all schedules and can open any schedule by clicking on it
 - There is a « create branch » on each schedule line in the listed schedules
 - A dropdown allows the user to select the unique « PROD » schedule (similar in principle to a « commit/push » but there can be only one PROD schedule at a time)
 - ⌚ When a schedule is created
 - A modal appears with a required « name » and an optional « comments » field
 - A schedule is saved as the user edits it (no explicit save button)
 - ⌚ A job tile display the following information
 - ⌚ Visual cues
 - Setup/Run duration differentiation
 - For each machine category's potential time saving similarities that are met between a job and its previous job, we show 1 filled out or hollowed circle based on the number of fulfilled similarities
 - These circles are displayed vertically « between » the tiles of consecutive jobs, overlapping both tiles equally.
 - ⌚ Written info
 - Reference
 - Job description
 - Start time
 - End time
 - ⌚ Timeslots that exceed maximum machine count for at least one machine group appear visually highlighted
 - ⌚ Job creation starts by clicking on « add job » in the first column of the left area
 - A job creation modal appears with the expected fields
 - The actions are created in a textarea by writing in a textarea that has autocomplete and basic syntax highlighting