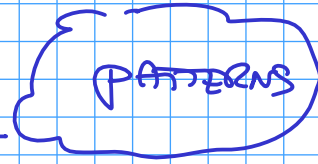


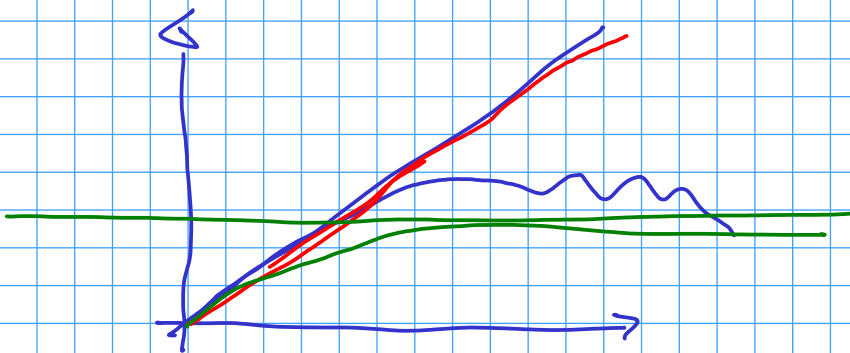
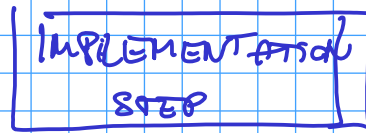
details



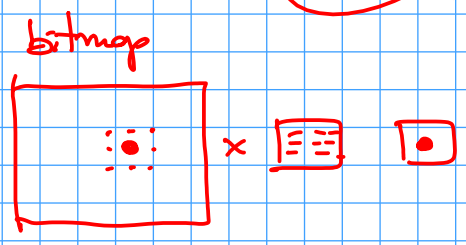
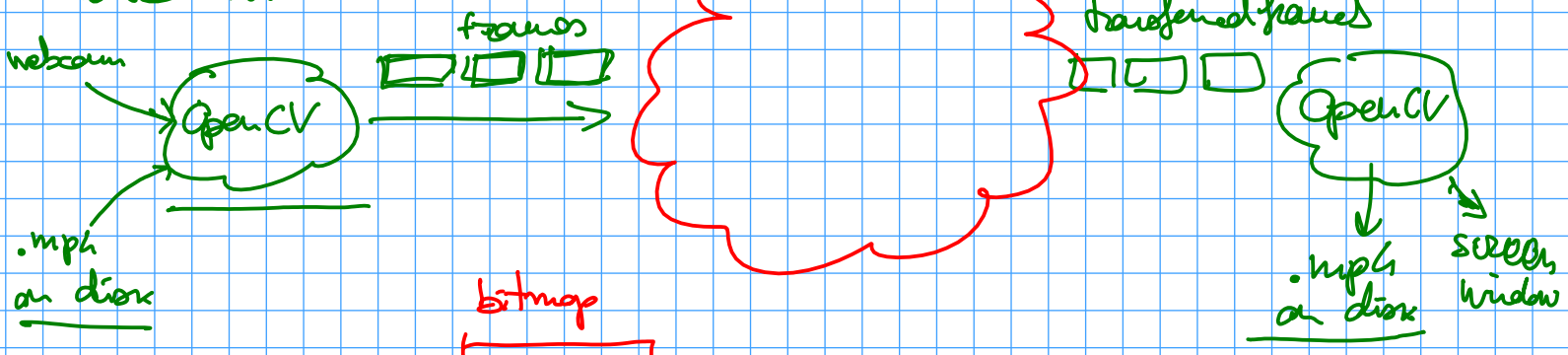
plan
(tree for
the program
logic code)



Semantics



Video Filter

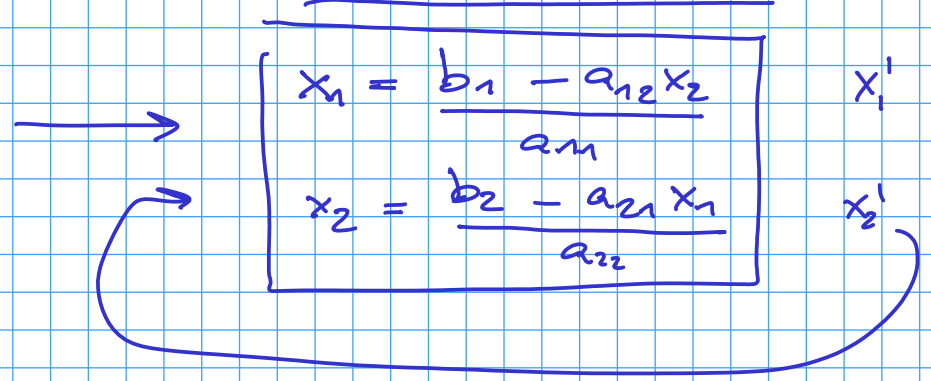


Jacobi

$$A x = b$$

$$\begin{cases} a_{11}x_1 + a_{12}x_2 = b_1 \\ a_{21}x_1 + a_{22}x_2 = b_2 \end{cases}$$

$$\begin{aligned} x_1 &= b_1 \\ x_2 &= b_2 \end{aligned}$$



RR \rightarrow Stateless patterns

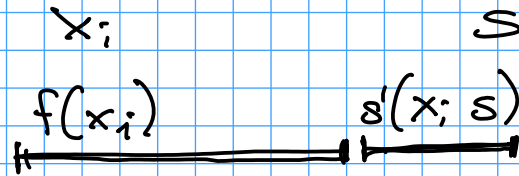


stateful $x_i \cdot [s] \rightarrow f(x_i, s)$

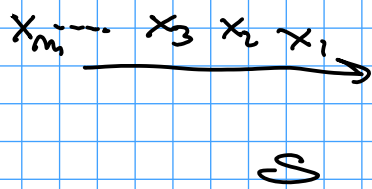
{ "resource" state
 $f(x, s)$ {
 $lock(s)$
 }
 $unlock(s)$
}

accumulator state
s : count of processed items }

{ separate functions to compute the output result out of the input lock and to update the state out of the previous state value and of the input lock



Successive approx pattern



$$f(x_1, s'_0) \rightarrow$$
$$s'(x_1, s'_0)$$

↑

