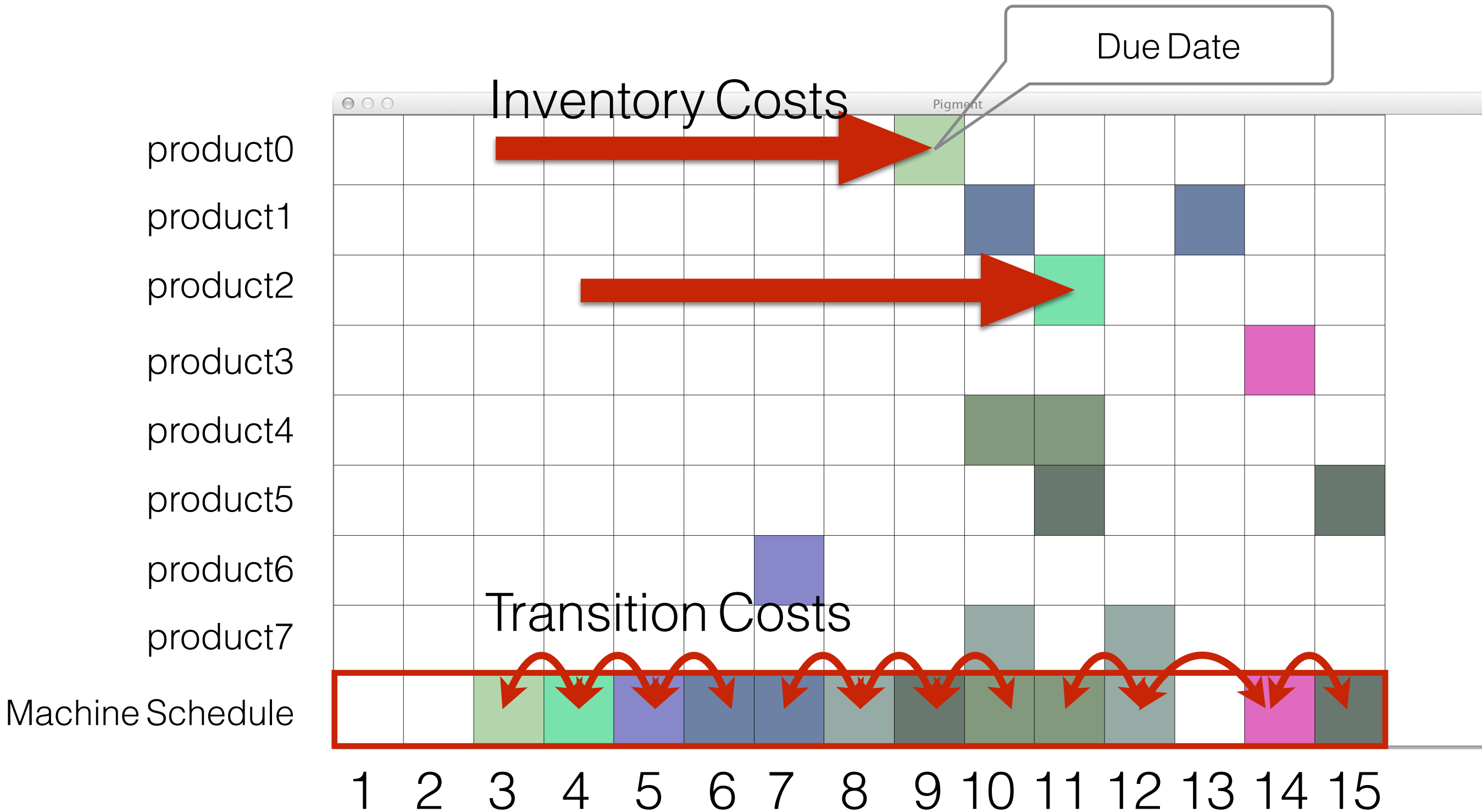


A Production Planning Problem

ACP Summer School 2014

Alessio Bonfietti, Michele Lombardi, Pierre Schaus



Minimize: Inventory Costs + Transition Costs

Input Format

15
8

Horizon

Products

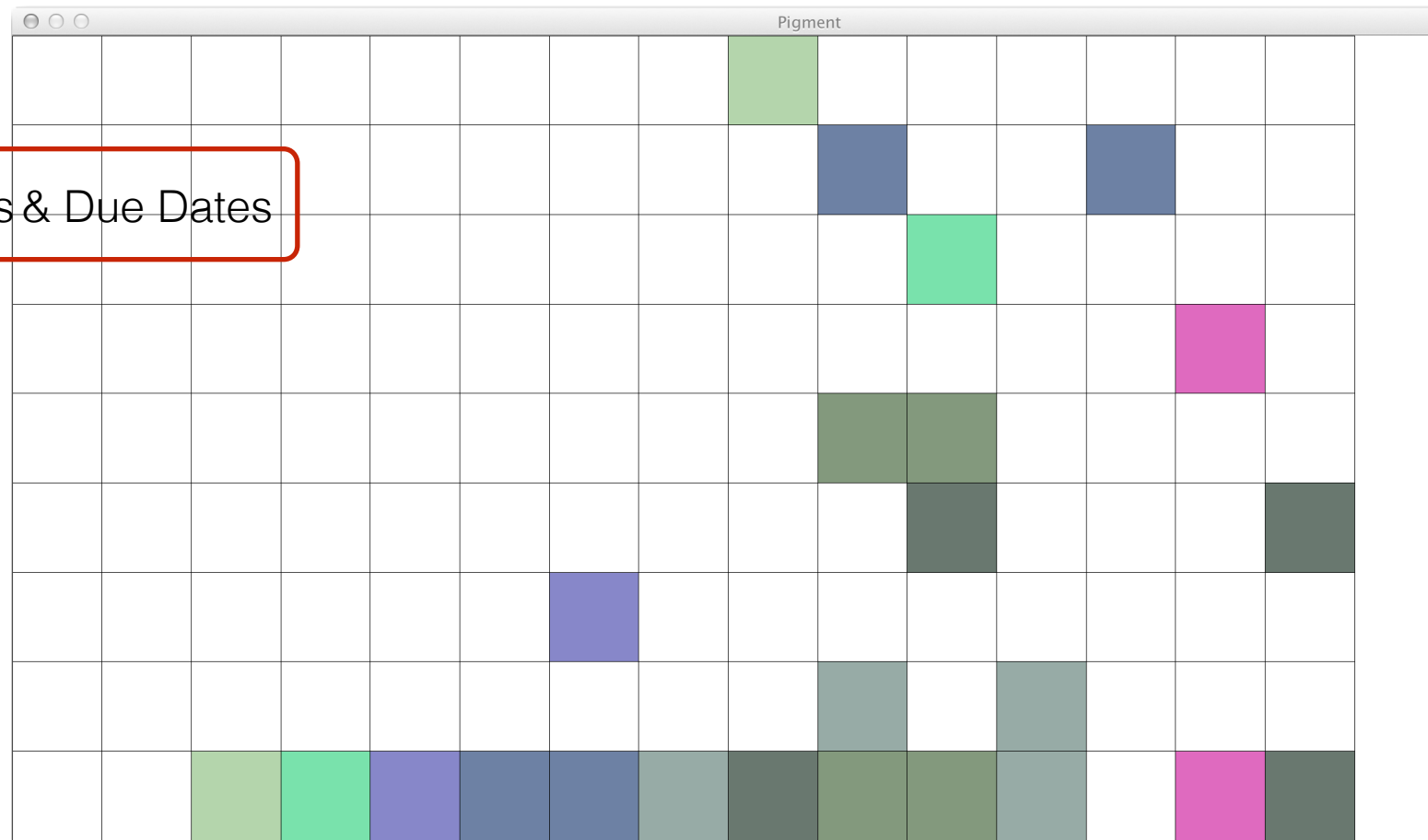
```

00000000010000000
0000000000100100
0000000000010000
0000000000000010
00000000000110000
00000000000010001
00000001000000000
0000000000101000
10
0 78 86 93 120 12 155 20
165 0 193 213 178 12 90 20
214 170 0 190 185 12 40 20
178 177 185 0 196 12 155 66
201 199 215 190 0 12 155 20
201 100 88 190 14 0 75 70
50 44 155 190 111 12 0 20
201 199 215 190 123 70 155 0
    
```

Inventory Cost

Demands & Due Dates

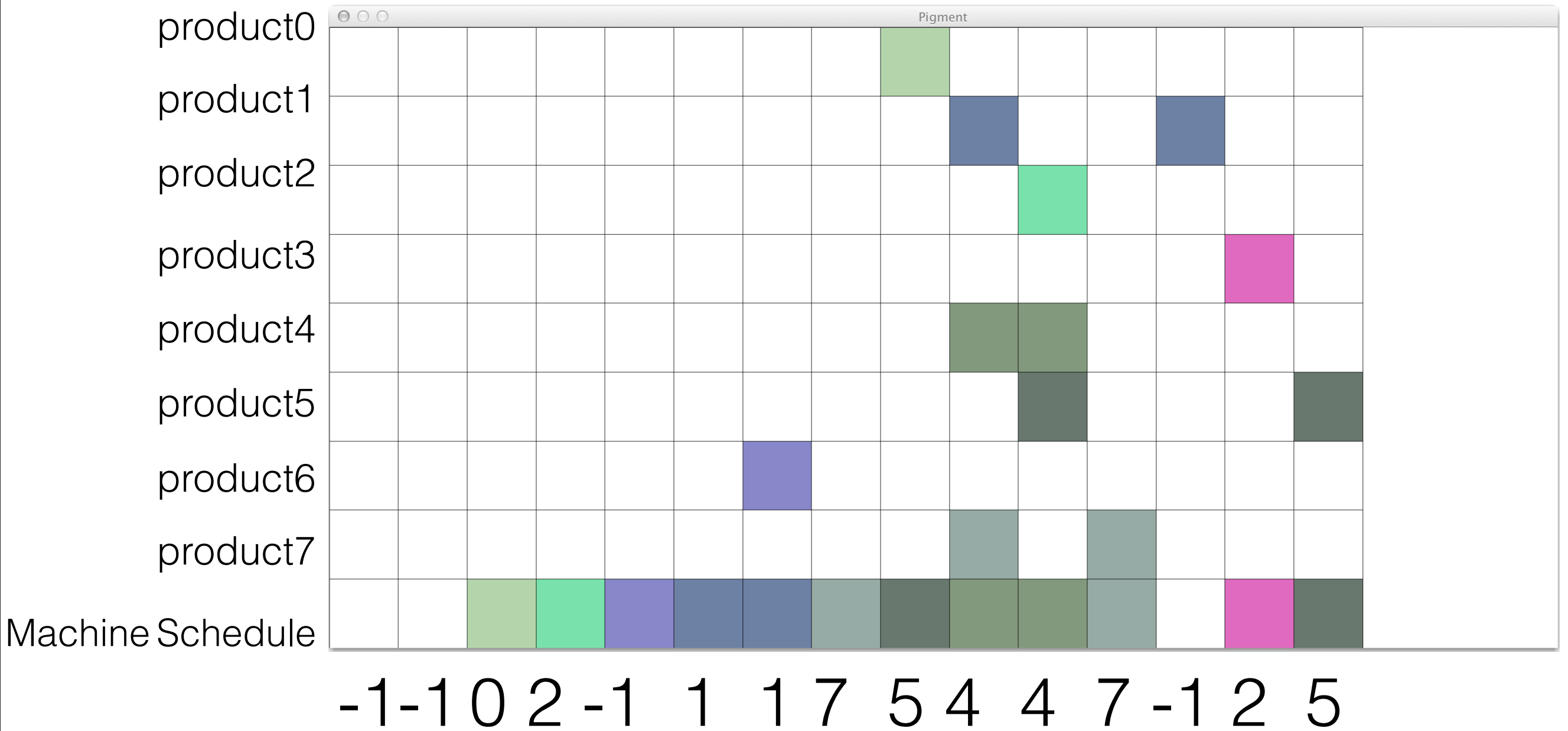
8



15

Transition Costs

Output Format



Submission

- Easy instance (only to train you), 15 Time Slots
 - https://script.google.com/macros/s/AKfycbyHfxmXC8jCZQ-d8RdH36TYEHVPwHPDBsq9uUk10_Lg7_wPFmk/exec
 - <https://drive.google.com/file/d/0B016BFW-HzA2aFhWY2NMYlhabzg/edit?usp=sharing>
- Hard instance (competition), 150 Time Slots
 - https://script.google.com/macros/s/AKfycbzJWiMdiP7SeLIC6AT87jhrMHrqOe_qKK0SfLPJmYosJ2-2Ggo/exec
 - <https://drive.google.com/file/d/0B016BFW-HzA2Zkx0YmRLUVppVFk/edit?usp=sharing>

Competition

- By team (not coming from the same Lab)
 - At least two persons / team
- Choose your
 - favorite solver
 - favorite optimization technique (even better if CP ;-)
- Submit whenever you want, any number of times
- Winner (team) = best objective by Friday

Objectives

1. Have fun
2. Learn each other
3. Learn/Practice optimization

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