Shift Pattern Reference Guide

Basic Patterns

1. Standard Day Shift (Mon-Fri)

```
Time:          |06:00-14:00|
Monday         |  ████     |
Tuesday        |  ████     |
Wednesday      |  ████     |
Thursday       |  ████     |
Friday         |  ████     |
Saturday       |           |
Sunday         |           |
```

2. Basic Morning/Afternoon Split

```
           Morning Team    Afternoon Team
Time:      |06:00-14:00|   |14:00-22:00|
Mon:       |  ████     |   |      ▒▒▒▒▒|
Tue:       |  ████     |   |      ▒▒▒▒▒|
Wed:       |  ████     |   |      ▒▒▒▒▒|
Thu:       |  ████     |   |      ▒▒▒▒▒|
Fri:       |  ████     |   |      ▒▒▒▒▒|
```

3. Weekend-Only Pattern

```
Time:          |07:00-19:00|
Monday         |           |
Tuesday        |           |
Wednesday      |           |
Thursday       |           |
Friday         |           |
Saturday       |███████████|
Sunday         |███████████|
```

4. Fixed Night Shift

```
Time:          |22:00-06:00|
Monday         |███████████|
Tuesday        |███████████|
Wednesday      |███████████|
Thursday       |███████████|
Friday         |███████████|
Saturday       |           |
Sunday         |           |
```

5. Three Fixed Shifts (24/7 Coverage)

```
          |Morning |Afternoon|Night   |
Time:     |06-14   |14-22    |22-06   |
          |████████|▒▒▒▒▒▒▒▒▒|▓▓▓▓▓▓▓▓|
Team A:   |████████|         |        |
Team B:   |        |▒▒▒▒▒▒▒▒▒|        |
Team C:   |        |         |▓▓▓▓▓▓▓▓|
```

6. Part-Time Pattern (Half Days)

```
Time:          |09:00-13:00|
Monday         |   ████    |
Tuesday        |   ████    |
Wednesday      |   ████    |
Thursday       |   ████    |
Friday         |   ████    |
```

7. Fixed Weekday/Weekend Teams

```
Weekday Team:     |Mon|Tue|Wed|Thu|Fri|Sat|Sun|
                  |███|███|███|███|███|   |   |

Weekend Team:     |Mon|Tue|Wed|Thu|Fri|Sat|Sun|
                  |   |   |   |   |   |███|███|
```

Advanced Patterns

1. Week-based Patterns (3 week cycle)

```
Week 1: Mon-Fri Days
06:00-14:00   |███████|███████|███████|███████|███████|       |       |
              Mon     Tue     Wed     Thu     Fri     Sat     Sun


Week 2: Tue-Sat Afternoons
14:00-22:00   |       |███████|███████|███████|███████|███████|       |
              Mon     Tue     Wed     Thu     Fri     Sat     Sun


Week 3: Wed-Sun Nights
22:00-06:00   |       |       |███████|███████|███████|███████|███████|
              Mon     Tue     Wed     Thu     Fri     Sat     Sun
```

2. 4-on-4-off Pattern

```
Days:         |1|2|3|4|5|6|7|8|1|2|3|4|5|6|7|8|
Worker 1:     |█|█|█|█| | | | |█|█|█|█| | | | |
Worker 2:     | | | | |█|█|█|█| | | | |█|█|█|█|
```

3. Split Shifts

```
Time:         |--Morning--|----Break----|--Evening--|
06:00-10:00   |███████████|             |           |
16:00-20:00   |           |             |███████████|
```
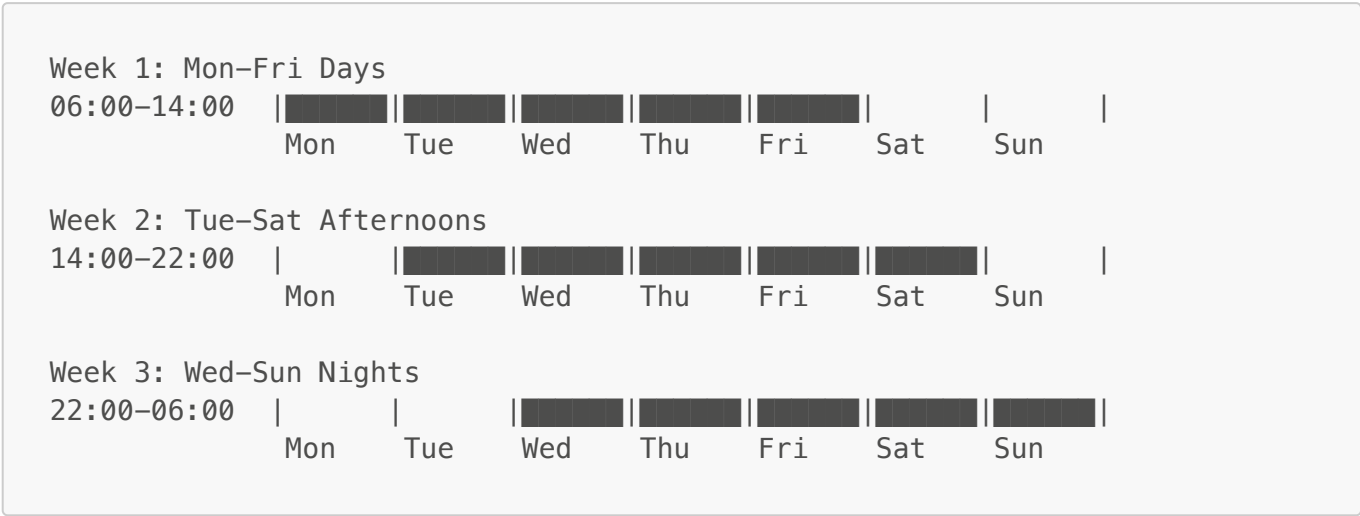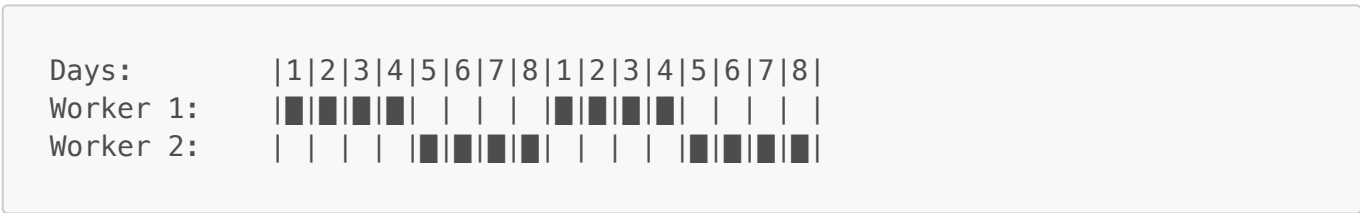
4. Panel/Continental Shifts (3 teams rotating)

```
Week 1:       Team A: Early    |████| (06:00-14:00)
              Team B: Late     |████| (14:00-22:00)
              Team C: Night    |████| (22:00-06:00)

Week 2:       Team A: Late     |████|
              Team B: Night    |████|
              Team C: Off      |    |

Week 3:       Team A: Night    |████|
              Team B: Off      |    |
              Team C: Early    |████|
```
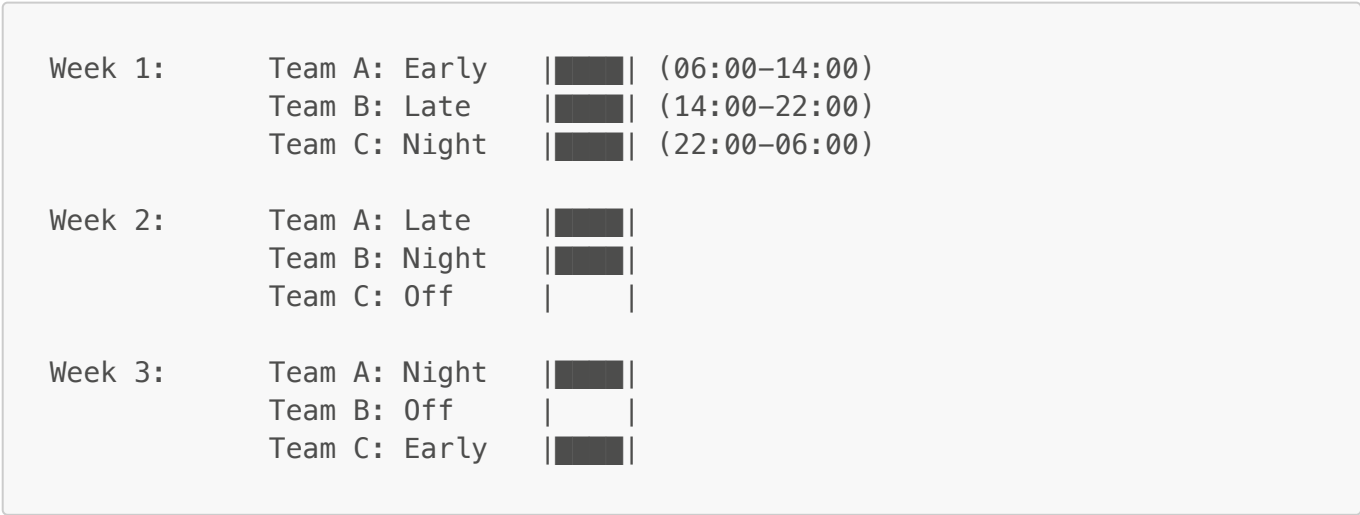
5. Alternating Day/Night Pattern

```
Week 1:      |Day Shift|Day Shift|Day Shift|Day Shift|Day Shift|
06:00-14:00  ▓▓▓▓▓▓▓▓  ▓▓▓▓▓▓▓▓  ▓▓▓▓▓▓▓▓  ▓▓▓▓▓▓▓▓  ▓▓▓▓▓▓▓▓

Week 2:      |Night    |Night    |Night    |Night    |Night    |
22:00-06:00  ▓▓▓▓▓▓▓▓  ▓▓▓▓▓▓▓▓  ▓▓▓▓▓▓▓▓  ▓▓▓▓▓▓▓▓  ▓▓▓▓▓▓▓▓
```

6. Panama Schedule (2-2-4)

```
       Sun Mon Tue Wed Thu Fri Sat
       |--|--|--|--|--|--|--|
W1:    |DD|DD|NN|NN|  |  |  |   D = Day Shift
W2:    |  |  |  |  |DD|DD|NN|   N = Night Shift
W3:    |NN|  |  |  |  |  |  |   Blank = Off
```

Rather than trying to create one complex pattern, you create two simpler patterns:

1. Day Pattern (07:00-19:00)
2. Night Pattern (19:00-07:00)

The complexity comes from:

Setting the Cycle ID to link both patterns to the same 8-day rotation cycle Using Cycle Day Offset to indicate when in the cycle each pattern is active Setting different Cycle Start Dates for each worker when assigning them.

So in this case:

- The day pattern has Cycle Day Offset = 0 (starts at beginning of cycle)
- The night pattern has Cycle Day Offset = 2 (starts on day 3 of cycle)

Then when assigning workers, you set different Cycle Start Dates to stagger them:

- Worker 1: Cycle Start Date = Jan 1
- Worker 2: Cycle Start Date = Jan 3
- Worker 3: Cycle Start Date = Jan 5
- Worker 4: Cycle Start Date = Jan 7

The system uses these offsets to automatically work out when each worker should be doing each type of shift or having days off. It's much simpler than trying to create one complex pattern that handles everything. The system is designed to combine simple patterns in clever ways rather than making individual patterns too complex.

Notes:

- All patterns can be customized for specific start/end times
- Patterns can be adjusted for holidays and special events
- Coverage requirements can be set for each shift
- Temporary covers and leave can be accommodated
- Rest days are automatically calculated