

## Creating an algorithm for seating people more equitably

Since seating is usually based on availability, the algorithm should prioritize those with disabilities to be able to choose seats that is fitting to the type of disability and requirement of a companion. If a companion is required to travel with the disabled person, choosing for either the disabled or companion should be allowed. One way is by making certain that seating appropriate for severe disability to be locked at the early purchases of plane seats. The seats can be opened on the last day of purchase if no one with disability had purchased the seats.

The algorithms should also provide option on being able to mark for traveling with minors with the birthdate of up to a certain age and when clicked yes, the algorithms will search for grouped empty seats with the amount of yes it was provided with and includes the adult to be seated with the minors. The algorithm will require verification of age with valid documentation to ensure the minor requires an adult to be seated with the minor.

The difficulty of ensuring large groups/families are seated would be creating an algorithm that considers different types of needs in the group, especially for those with disabilities. So the algorithm will need to have these consideration in place.