

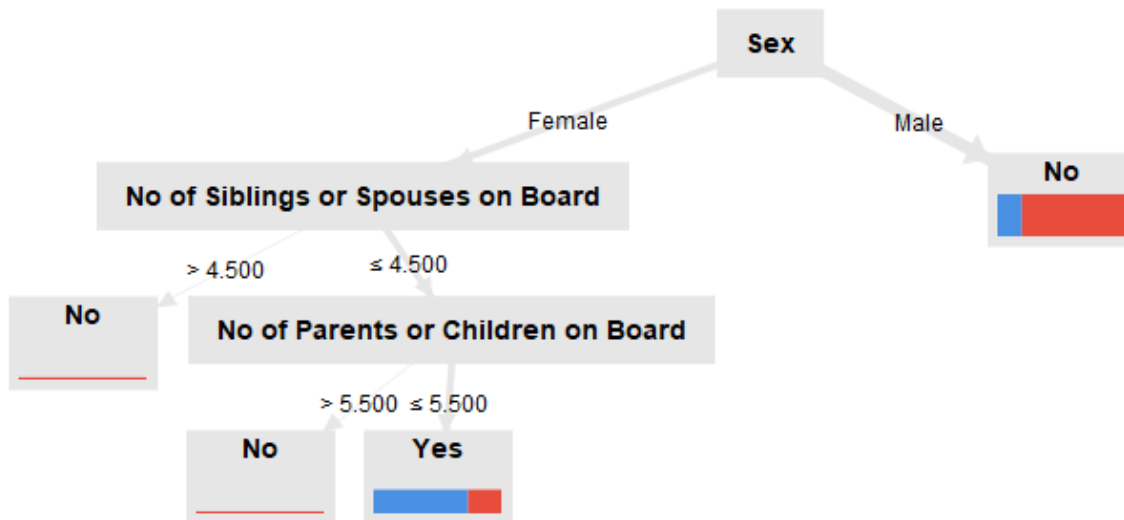
Q1. Can you find out how to restrict the depth of the decision tree, i.e. reduce its complexity? Why could this be a good idea?

Yes, we can restrict the depth of decision tree by changing the value of **maximum depth** in parameter portion of Decision Tree.

- It simplifies the tree.
- It make it more readable for users.
- It reduce the complexity
- It creates given value of layers (depth) for tree.

**Q2. What would you say was the rough probability for survival for this group?
How does this compare to the survival probability for men?**

Total passengers: 1309



	Survived	Not Survived	Total
Male	161	682	843
Female	339	127	466
			1309

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Probability of Male: $161/1309 = 0.123$

Probability of Female: $339/1309 = 0.26$

- In male, 19% passengers survived.
- In total passengers, the survival chances of male is 12.3%
- In female, 72% passengers survived.
- In total passengers, the survival chances of female is 26%
