6.6 Summary

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This chapter showed that Bayesian inference, regarding a continuous binomial proportion θ, can be achieved by approximating the continuous θ with a dense grid of discrete values. A disadvantage of this approach is that the approximation is only as good as the density of the grid. But there are several advantages of the approach:

1. We have freedom in the type of prior distributions we can specify

2. We can use the discrete approximation to find approximate HDO regions

3. We can do posterior prediction and model comparison with arbitrary priors