Random state = 9

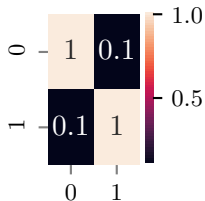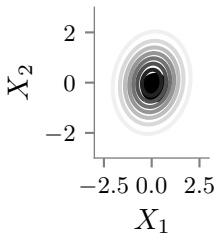| Covariance Matrix | Contour of pdf | Visualising the point |