a1: geom_density_2d_filled only
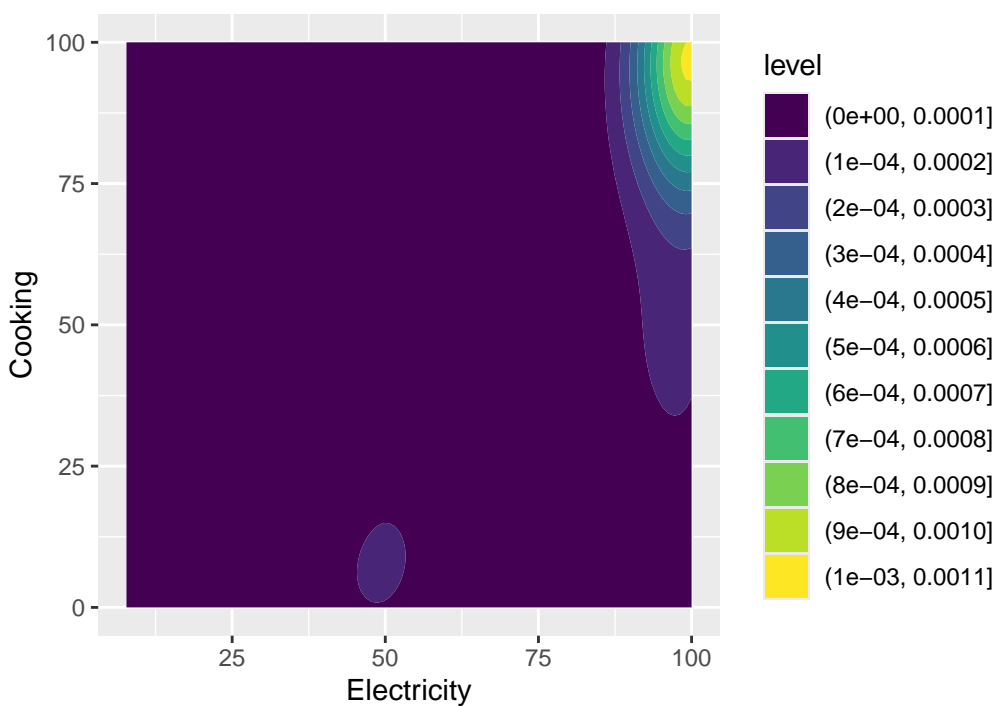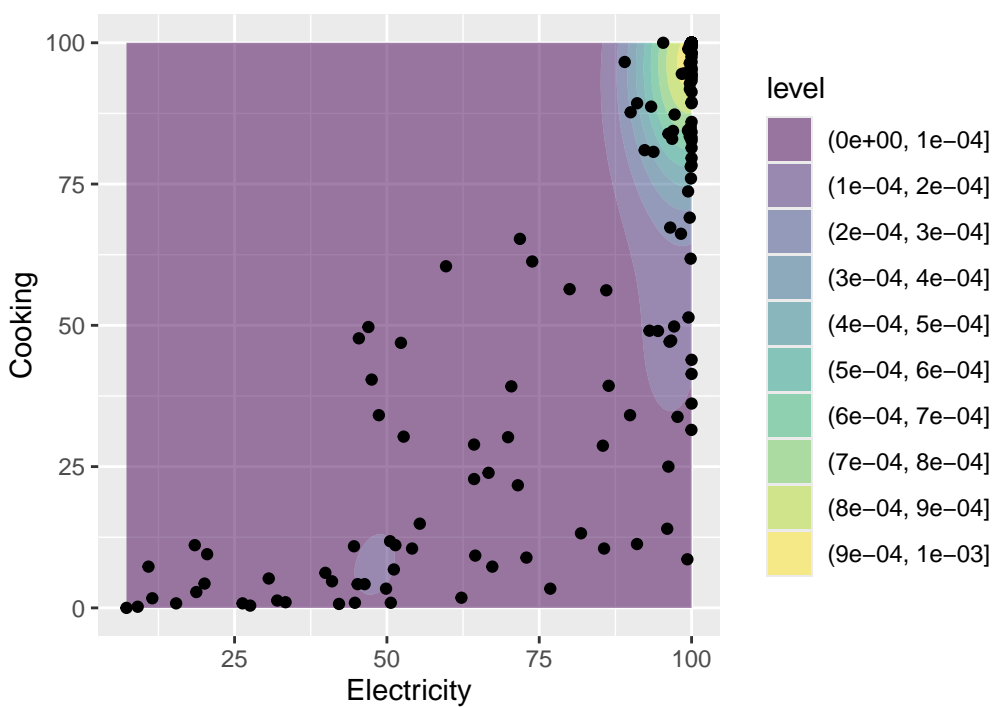
a2: geom_point and geom_density_2d_filled

a3: geom_point