estebans-mbp-2:report esteban$ python experiment\_1.py

iterations: 100 max\_log\_likelihood: -1609.721146502553211 time: 14.267220615060069

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 520.676291606 time: 11.832462107064202

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0145761410240084

iterations: 100 max\_log\_likelihood: -1635.509524307513630 time: 14.152213745983317

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 514.134811125 time: 11.766276569920592

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 803.8745374912135 time 1.0523353789467365

iterations: 100 max\_log\_likelihood: -1609.721147497224138 time: 13.932195786037482

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 506.564237182 time: 11.734972033998929

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.9992725489428267

iterations: 100 max\_log\_likelihood: -1609.721146783431550 time: 14.280415507033467

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 508.123920716 time: 11.943044599029236

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0258215690264478

iterations: 100 max\_log\_likelihood: -1643.615688743063401 time: 14.11277774896007

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 515.109504927 time: 12.343371112947352

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 803.8745374912135 time 1.0561424141051248

iterations: 100 max\_log\_likelihood: -1609.721147519157967 time: 14.252336196019314

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 509.475483955 time: 11.757465144037269

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0208343939157203

iterations: 100 max\_log\_likelihood: -1635.509524307364245 time: 14.078997203963809

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 513.856960243 time: 11.634823250002228

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.027698278077878

iterations: 100 max\_log\_likelihood: -1609.721146754376377 time: 13.949431076063775

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 510.06272872 time: 11.670109028927982

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.9957872519735247

iterations: 100 max\_log\_likelihood: -1609.721146838565346 time: 13.82287908194121

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 505.882123285 time: 11.586639929097146

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0124453729949892

iterations: 100 max\_log\_likelihood: -1609.721146520364755 time: 13.87669946893584

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 510.717457694 time: 11.66604128095787

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0233635240001604

iterations: 100 max\_log\_likelihood: -1609.721147400849986 time: 13.867874406976625

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 513.107498175 time: 11.608542083064094

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0061160220066085

iterations: 100 max\_log\_likelihood: -1609.721146618934426 time: 13.878055467037484

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 507.891664793 time: 11.731195703963749

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0107710979646072

iterations: 100 max\_log\_likelihood: -1609.721146497151040 time: 13.84286819701083

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 503.786564319 time: 11.665448099025525

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0182374799624085

iterations: 100 max\_log\_likelihood: -1609.721147353858896 time: 13.926642070990056

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 510.053183623 time: 11.688731293892488

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0274501390522346

iterations: 100 max\_log\_likelihood: -1609.721148292419230 time: 13.858182715019211

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 510.557112672 time: 11.59919502295088

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0137205589562654

iterations: 100 max\_log\_likelihood: -1609.721146839736548 time: 13.927894516964443

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 511.057945883 time: 11.626365724951029

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 803.8745374912135 time 1.025864165974781

iterations: 100 max\_log\_likelihood: -1609.721146806343995 time: 13.840046214987524

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 509.243279774 time: 11.605377348023467

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.030936851981096

iterations: 100 max\_log\_likelihood: -1609.721146672030045 time: 13.897261053905822

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 506.908813562 time: 11.640186649048701

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 803.8745374912135 time 1.0401478469138965

iterations: 100 max\_log\_likelihood: -1637.405778150344759 time: 13.88008033693768

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 512.331730045 time: 11.540662587038241

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 803.8745374912135 time 1.014292940031737

iterations: 100 max\_log\_likelihood: -1609.721146489650209 time: 13.935170492040925

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 504.708290616 time: 11.70285760902334

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.017205900978297

iterations: 100 max\_log\_likelihood: -1609.721146537691538 time: 13.87662195507437

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 507.891664793 time: 11.692334024002776

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0207883580587804

iterations: 100 max\_log\_likelihood: -1644.404436612022209 time: 13.880425510928035

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 511.672051706 time: 11.603182099061087

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 803.8745374912135 time 1.015776053071022

iterations: 100 max\_log\_likelihood: -1609.721146569384246 time: 13.775149221997708

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 508.077785901 time: 11.643103496055119

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0123598279897124

iterations: 100 max\_log\_likelihood: -1609.721192142492328 time: 13.861881268909201

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 510.72217391 time: 11.638953965040855

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0427446400281042

iterations: 100 max\_log\_likelihood: -1609.721150904924116 time: 13.96270913304761

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 509.755291813 time: 11.663624666980468

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0309789789607748

iterations: 100 max\_log\_likelihood: -1609.721155909563095 time: 14.705920079024509

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 509.151703904 time: 12.932198574999347

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.146536236978136

iterations: 100 max\_log\_likelihood: -1645.355504462166436 time: 14.787861432996579

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 511.767754486 time: 12.513912010006607

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.144372943090275

iterations: 100 max\_log\_likelihood: -1609.721147343451321 time: 15.088135401019827

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 513.57619293 time: 12.524261281010695

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.1041654089931399

iterations: 100 max\_log\_likelihood: -1609.721147345942882 time: 15.04230164596811

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 507.319311452 time: 12.519560683052987

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 1.0950527769746259

iterations: 100 max\_log\_likelihood: -1637.405780657618834 time: 15.07581658300478

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 512.331730045 time: 12.692698233993724

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 803.8745374912135 time 1.1081237429752946

estebans-mbp-2:report esteban$

estebans-mbp-2:report esteban$

estebans-mbp-2:report esteban$

estebans-mbp-2:report esteban$

estebans-mbp-2:report esteban$ python experiment\_1.py

iterations: 100 max\_log\_likelihood: -1829.330884109221870 time: 22.58517122210469

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 753.150807325 time: 18.724123224033974

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.1262463139641 time 1.6460691461106762

iterations: 100 max\_log\_likelihood: -1829.330765463499574 time: 22.365330853965133

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 18.73963734903373

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.6605108740041032

iterations: 100 max\_log\_likelihood: -1829.330778927029769 time: 22.55957738996949

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 754.813290752 time: 18.748316281940788

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.6923258160240948

iterations: 100 max\_log\_likelihood: -1829.330774848681813 time: 22.20185178203974

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 18.655619416036643

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.661823101923801

iterations: 100 max\_log\_likelihood: -1829.330775560162465 time: 22.25478861690499

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 18.756922845961526

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.666315019945614

iterations: 100 max\_log\_likelihood: -1829.330776768380701 time: 22.36105420894455

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 762.921257695 time: 18.722376357996836

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 991.3264317389155 time 1.6810127780772746

iterations: 100 max\_log\_likelihood: -1829.330781354002511 time: 22.357723783003166

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 18.74036838801112

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.6307770690182224

iterations: 100 max\_log\_likelihood: -1829.330778312569237 time: 22.23577547399327

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 18.86068325198721

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.6638750979909673

iterations: 100 max\_log\_likelihood: -1829.330776887104093 time: 22.652122697909363

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 18.96950686199125

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.6829693909967318

iterations: 100 max\_log\_likelihood: -2192.064263123853380 time: 22.21979394205846

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 755.933482115 time: 18.839484134921804

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 1071.1372073825848 time 1.7018324970267713

iterations: 100 max\_log\_likelihood: -1829.333921348610602 time: 22.37256056210026

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 746.558323388 time: 18.735594670986757

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 1213.9001992027884 time 1.6548615450737998

iterations: 100 max\_log\_likelihood: -1829.330765521511466 time: 22.254794409964234

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 744.893494265 time: 18.561022180947475

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 1071.1372073825848 time 1.683904947945848

iterations: 100 max\_log\_likelihood: -1829.330777220171967 time: 22.253343996941112

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 753.150807325 time: 18.60721938300412

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.1262463139641 time 1.6503300070762634

iterations: 100 max\_log\_likelihood: -1829.330679931679697 time: 22.312047178973444

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 744.97281185 time: 18.653904843027703

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.1262463139641 time 1.6591480339411646

iterations: 100 max\_log\_likelihood: -1829.330884109221870 time: 22.246229702956043

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 750.809884583 time: 18.68572404200677

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.6603367830393836

iterations: 100 max\_log\_likelihood: -1829.330730056245784 time: 22.51742819196079

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 759.26172161 time: 18.20850528497249

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 1213.9001992027884 time 1.5832265940262005

iterations: 100 max\_log\_likelihood: -1829.330768026132091 time: 21.27120445400942

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 18.25995286705438

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.6157022450352088

iterations: 100 max\_log\_likelihood: -1829.330764583507289 time: 22.62884085904807

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 757.453376763 time: 19.23522798193153

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 1071.1372073825848 time 1.7173721649451181

iterations: 100 max\_log\_likelihood: -1829.330789538600357 time: 22.863519834005274

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 745.60810312 time: 19.117360210046172

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.7168167240452021

iterations: 100 max\_log\_likelihood: -1829.330775254571336 time: 22.873864662949927

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 776.805433138 time: 19.165812561986968

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.695607305970043

iterations: 100 max\_log\_likelihood: -1829.330771052052796 time: 22.765178542002104

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 19.129287039046176

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 1213.5838192607105 time 1.714762690011412

iterations: 100 max\_log\_likelihood: -1829.330884109221415 time: 22.85204575199168

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 19.143514827010222

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.7135274530155584

iterations: 100 max\_log\_likelihood: -1829.330764726352754 time: 22.85460838500876

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 750.978196227 time: 19.226711130933836

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 1071.1372073825848 time 1.7408047320786864

iterations: 100 max\_log\_likelihood: -1829.330768534691515 time: 22.989553307997994

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 19.318471119040623

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.707402455038391

iterations: 100 max\_log\_likelihood: -1829.330884109221643 time: 22.94773538701702

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.22834991 time: 19.156837432994507

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.6971140441019088

iterations: 100 max\_log\_likelihood: -1829.330884109221415 time: 22.901967621059157

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 744.952101966 time: 19.25164118001703

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.1262463139641 time 1.6985378459794447

iterations: 100 max\_log\_likelihood: -1829.330884109222097 time: 22.867651186068542

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 19.16449431993533

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.1262463139641 time 1.667418656987138

iterations: 100 max\_log\_likelihood: -1829.330884109221415 time: 22.846369998995215

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 776.996896679 time: 19.10997175402008

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 1071.1372073825848 time 1.7167451690183952

iterations: 100 max\_log\_likelihood: -1992.770939976774571 time: 22.977060517063364

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 746.391249682 time: 19.192195931915194

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 1.7152757400181144

iterations: 100 max\_log\_likelihood: -2239.218863569428777 time: 22.90207404794637

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 747.694094343 time: 19.30856707994826

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 1213.9001992027884 time 1.7072316650301218

estebans-mbp-2:report esteban$

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estebans-mbp-2:report esteban$

estebans-mbp-2:report esteban$

estebans-mbp-2:report esteban$

estebans-mbp-2:report esteban$ python experiment\_1.py

iterations: 100 max\_log\_likelihood: -2342.725165900942557 time: 22.746352923917584

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 750.330498548 time: 18.67692293401342

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 1.6727867278968915

iterations: 100 max\_log\_likelihood: -2342.725165900943921 time: 22.48420210997574

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 770.080165767 time: 18.742455080966465

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 1.6468116340693086

iterations: 100 max\_log\_likelihood: -2342.725165766644295 time: 22.00534907099791

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 750.330498548 time: 18.438524712924846

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 1.6616318819578737

iterations: 100 max\_log\_likelihood: -2342.725165900942557 time: 21.82556912500877

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 824.213012894 time: 18.159282527980395

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 1.6200529870111495

iterations: 100 max\_log\_likelihood: -2342.725165799977276 time: 21.97356233804021

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 750.330498548 time: 17.93811221397482

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 1.5646351120667532

iterations: 100 max\_log\_likelihood: -2342.725165638792532 time: 22.190133485011756

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 783.711692487 time: 18.39963295101188

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 1850.8119674819375 time 1.5896863680100068

iterations: 100 max\_log\_likelihood: -2342.725165900939828 time: 21.680134841008112

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 779.421371627 time: 18.32410849700682

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 1.532396908965893

iterations: 100 max\_log\_likelihood: -2342.725165489549909 time: 22.571663859998807

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 750.330498548 time: 18.130531531991437

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 1.5705311000347137

iterations: 100 max\_log\_likelihood: -2531.384774843111700 time: 21.941794233047403

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 781.011704743 time: 18.49534435500391

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 1550.596939654426 time 1.6580704629886895

iterations: 100 max\_log\_likelihood: -2342.725165900943011 time: 22.15478181897197

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 778.118317593 time: 18.53074548591394

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 1.6302592699648812

iterations: 100 max\_log\_likelihood: -2342.725165900942557 time: 22.10035218799021

iterations: 100 total\_mahalanobis\_distance\_to\_cluster\_centers: 778.240797483 time: 18.464255425031297

iterations: 100 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 1.6586959320120513

iterations: 100 max\_log\_likelihood: -2342.725165700488560 time: 22.299395291949622

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