

The PRINCOMP Procedure

Observations	569
Variables	10

Simple Statistics							
	radius	texture	perimeter	area	smoothness	compactness	concavity
Mean	14.12729174	19.28964851	91.96903339	654.8891037	0.0963602812	0.1043409842	0.0887993158
StD	3.52404883	4.30103577	24.29898104	351.9141292	0.0140641281	0.0528127579	0.0797198087

Simple Statistics			
	concave_points	symmetry	fractal_dimension
Mean	0.0489191459	0.1811618629	0.0627976098
StD	0.0388028449	0.0274142813	0.0070603628

Correlation Matrix							
	radius	texture	perimeter	area	smoothness	compactness	concavity
radius	1.0000	0.3238	0.9979	0.9874	0.1706	0.5061	0.6768
texture	0.3238	1.0000	0.3295	0.3211	-.0234	0.2367	0.3024
perimeter	0.9979	0.3295	1.0000	0.9865	0.2073	0.5569	0.7161
area	0.9874	0.3211	0.9865	1.0000	0.1770	0.4985	0.6860
smoothness	0.1706	-.0234	0.2073	0.1770	1.0000	0.6591	0.5220
compactness	0.5061	0.2367	0.5569	0.4985	0.6591	1.0000	0.8831
concavity	0.6768	0.3024	0.7161	0.6860	0.5220	0.8831	1.0000
concave_points	0.8225	0.2935	0.8510	0.8233	0.5537	0.8311	0.9214
symmetry	0.1477	0.0714	0.1830	0.1513	0.5578	0.6026	0.5007
fractal_dimension	-.3116	-.0764	-.2615	-.2831	0.5848	0.5654	0.3368

Correlation Matrix			
	concave_points	symmetry	fractal_dimension
radius	0.8225	0.1477	-.3116
texture	0.2935	0.0714	-.0764
perimeter	0.8510	0.1830	-.2615
area	0.8233	0.1513	-.2831
smoothness	0.5537	0.5578	0.5848
compactness	0.8311	0.6026	0.5654
concavity	0.9214	0.5007	0.3368
concave_points	1.0000	0.4625	0.1669
symmetry	0.4625	1.0000	0.4799
fractal_dimension	0.1669	0.4799	1.0000

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Eigenvalues of the Correlation Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	5.47858799	2.95987441	0.5479	0.5479
2	2.51871359	1.63809841	0.2519	0.7997
3	0.88061518	0.38160574	0.0881	0.8878
4	0.49900944	0.12647025	0.0499	0.9377
5	0.37253919	0.24839744	0.0373	0.9749
6	0.12414175	0.04405644	0.0124	0.9874
7	0.08008531	0.04519552	0.0080	0.9954
8	0.03488979	0.02375433	0.0035	0.9989
9	0.01113546	0.01085315	0.0011	1.0000
10	0.00028231		0.0000	1.0000

Eigenvectors										
	Prin1	Prin2	Prin3	Prin4	Prin5	Prin6	Prin7	Prin8	Prin9	Prin10
radius	0.363938	-.313929	-.124428	0.029559	0.031067	0.264180	-.044188	0.084834	0.474425	0.669071
texture	0.154451	-.147181	0.951057	0.008916	0.219923	0.032207	0.020557	-.007127	0.004213	-.000250
perimeter	0.376044	-.284658	-.114084	0.013458	0.005945	0.237819	-.083369	0.089259	0.380167	-.740491
area	0.364086	-.304842	-.123378	0.013443	0.019341	0.331707	0.261188	0.144610	-.747347	0.032359
smoothness	0.232481	0.401962	-.166532	-.107802	0.843745	-.062225	0.011292	0.170503	0.005847	-.003690
compactness	0.364442	0.266013	0.058278	-.185700	-.240183	-.005271	-.803805	0.063980	-.218732	0.052753
concavity	0.395748	0.104286	0.041146	-.166654	-.312533	-.601467	0.367136	0.449573	0.081171	0.010367
concave_points	0.418038	0.007184	-.068554	-.072984	0.009180	-.265613	0.141313	-.850919	-.022025	0.003748
symmetry	0.215238	0.368301	0.036724	0.892998	-.112888	0.061957	0.047902	0.016456	0.009068	-.001467
fractal_dimension	0.071837	0.571768	0.113584	-.349332	-.264878	0.567919	0.345214	-.065259	0.129667	-.007057

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