## The LOGISTIC Procedure

Model Information				
Data Set	WORK.TRAIN			
Response Variable	Survived			
Number of Response Levels	2			
Model	binary logit			
Optimization Technique	Fisher's scoring			

Number of Observations Read	891
Number of Observations Used	891

Response Profile			
Ordered Survived Frequence			
1	0	549	
2	1	342	

## Probability modeled is Survived='0'.

Class Level Information			
Class Value Variables			
Sex	female	1	
	male	-1	

Model Convergence Status
Convergence criterion (GCONV=1F-8) satisfied

Model Fit Statistics				
Criterion	Intercept and Covariates			
AIC	1188.655	826.151		
sc	1193.447	845.320		
-2 Log L	1186.655	818.151		

Testing Global Null Hypothesis: BETA=0						
Test Chi-Square DF Pr > ChiSq						
Likelihood Ratio	368.5043	3	<.0001			
Score	333.3887	3	<.0001			
Wald	236.4117	3	<.0001			

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Type 3 Analysis of Effects				
Effect	Pr > ChiSq			
Age	1	8.8482	0.0029	
Sex	1	203.1690	<.0001	
Pclass	1	87.1852	<.0001	

Analysis of Maximum Likelihood Estimates						
Parameter DF Estimate Standard Chi-Square Pr > Chi						Pr > ChiSq
Intercept		1	-2.6476	0.3465	58.3951	<.0001
Age		1	0.0158	0.00531	8.8482	0.0029
Sex	female	1	-1.3158	0.0923	203.1690	<.0001
Pclass		1	1.0949	0.1173	87.1852	<.0001

Odds Ratio Estimates				
Point 95% Wald Effect Estimate Confidence Limits				
Age	1.016	1.005 1.027		
Sex female vs male	0.072	0.050	0.103	
Pclass	2.989	2.375	3.761	

Association of Predicted Probabilities and Observed Responses				
Percent Concordant	83.5	Somers' D	0.679	
Percent Discordant	15.6	Gamma	0.685	
Percent Tied	0.8	Tau-a	0.322	
Pairs	187758	С	0.839	