





























AdaBoost compared to other classification methods											
False detections Detector Viola-Jones Rowley-Baluja-Kanade Schneiderman-Kanade Roth-Yang-Ahuja	10 78.3% 83.2% - -	31 85.2% 86.0% - -	50 88.8% - - -	65 - 94,4% -	-	95 90.8% 89.2% -	110 91.1% - -	167 91.8% 90.1% -	422 93.7% 89.9% -		
Viola-Jones						$\frac{1}{65} \frac{1}{78} \frac{95}{95} \frac{110}{10} \frac{167}{422}$ $\frac{1}{8\%} \frac{89.8\%}{90.1\%} \frac{90.8\%}{90.1\%} \frac{91.1\%}{91.1\%} \frac{91.8\%}{93.7\%} \frac{93.7\%}{93.7\%}$ $\frac{94.4\%}{-} \frac{1}{-} \frac{90.8\%}{(94.8\%)} \frac{1}{-} \frac{1}{-$					
Rowley-Baluja-Kanade					Neural networks						
Schneiderm	chneiderman-Kanade					Statistics, Bayesian					
Roth-Yang-Ahuja											













## Conclusion

- AdaBoost allows to rapidly classify images
- Faster than any existing detector
- Comparable in accuracy to other methods
- Many improvement algorithms exist