Classic Designs

Sam Drake
Rich Riesenfeld
University of Utah

Automotive

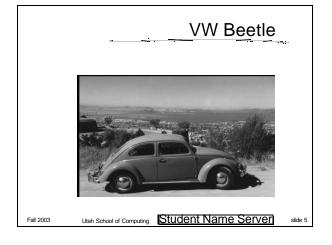
- Model T Ford ~1910 1928
- VW Beetle ~1936 2003
- Chevrolet Corvette 1953 2003
- Porsche 911 ~1960 2003
- Morris Mini-Minor ~1960 1980s
- Ford Mustang 1964 2003
- Pontiac GTO ~1964 1978
- Chrysler Mini-van ~1982 2003

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Ford built 15,000,000 automobiles with the Model "T" engine, the longest run of any single model apart from the Volkswagen Beetle. Fall 2003 Utah School of Computing Model T Ford Model T Ford Student Name Server

Ford Model T

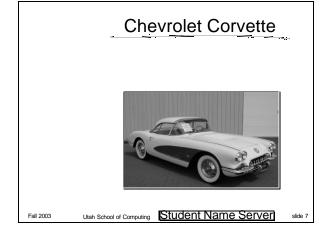
- First mass produced vehicle
 - Available to average person
- Prices dropped as production increased for a number of years
- Not a very good design
 - Had serious front suspension problems
 - Should have been phased out sooner



VW Beetle

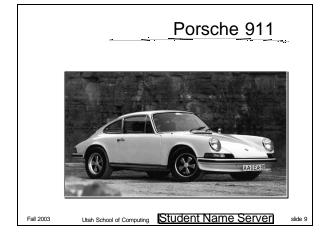
- Advanced design for 1930s
 - Unibody design
 - Integrated powertrain
- Designed by Ferdinand Porsche
- Continually improved
- Relatively poor performance

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Chevrolet Corvette

- First production car with composite body
- Early use of Fuel Injection, 1957
- Early use of 4W independent suspension, 1963
- Early use of 4W disk brakes, 1965
- · Other innovative use of materials
- Very high performance with relatively low price and good driveability



Porsche 911

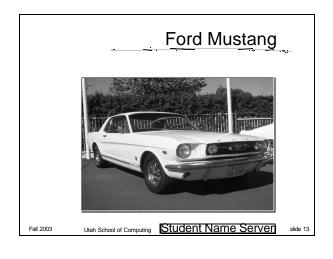
- Same basic body style and layout since early 60's
- Relatively high performance especially in recent years.

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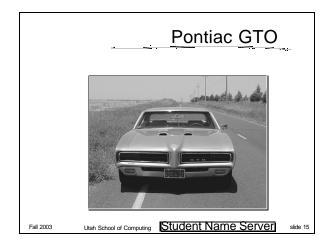
Morris Mini-Minor

- Defined the layout of most contemporary cars
 - Front wheel drive with transverse engine
- Very efficient use of space
- Innovative use of elastomers in suspension
- · Designed by Moulton



Ford Mustang

- Moderate performance car derived from basic compact car (Ford Falcon).
- Championed by Lee Iococca
- Romanticized by Marketing
 - "Un homme et une femme," 1966 film hit, featured a Mustang
 - It was chic (didn't do hip), at the time





Pontiac GTO

- · Defined the muscle car era
- Mid sized car with large high performance engine
- GTO by Ronny and the Daytonas
 - "Gonna save all my money and buy a GTO"
- 409 by The Beach Boys

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Chrysler Mini-Van





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Chrysler Mini-Van

- Defined the contemporary mini-van
 - Front wheel drive with transverse engine
- · New concept, very efficient use of space
- Based on Chrysler "K-car"
- Championed by Lee Iococca
- Met major need for many households
 - More headroom, more comfortable
 - Replaced standard family Ford stationwagon

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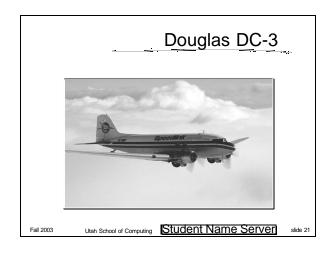
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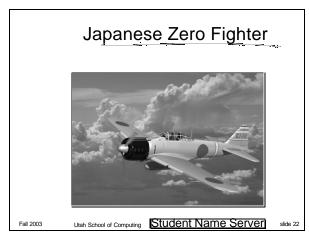
Aircraft

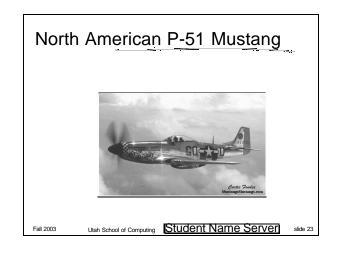
- · Early Curtiss aircraft
- Douglas DC-3
- Japanese Zero Fighter
- North American P-51 Mustang
- Messerschmidt ME262 Jet Fighter
- Piper Cub, Cessna 182/Skyhawk
- Boeing 707
 - Also, 727, 737, 747
- General Dynamics F-16

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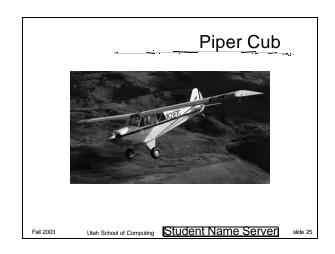
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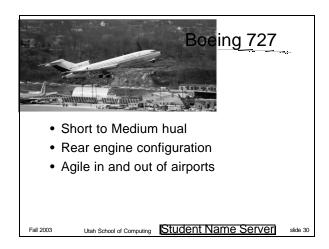


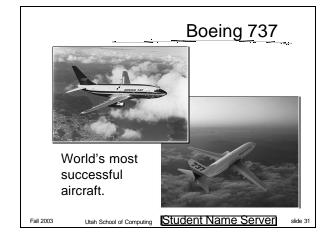






- Backbone of longhaul jet air travel
 - Esp over North Atlantic
- Beat the competition to market
 - Dominated thereafter
- Not highly efficient by todays standards
 - Fuel was cheap



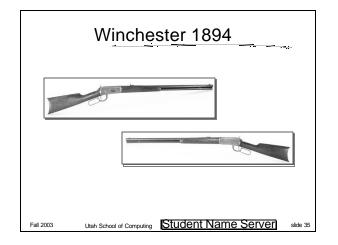


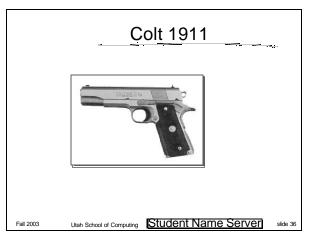




Firearms

- Winchester 1894 Lever Action 1894 20??
- Colt 1911 0.45 Automatic Pistol 1911 20??
- FN recoil operated automatic shotgun
- Remington gas operated automatic shotgun
- Browning 0.50 caliper machine gun 1919 20??











Computers IBM 360 Mainframe Digital Equipment PDP-11 Mini computers Original Apple MacIntosh Intel 80*86 based computers (Wintel boxes) Fall 2003 Ulah School of Computing Student Name Server slide 40

Consumer Items

- 3M Scotch Tape, Posit Notes
- Gillette Safety Razor
- Bic Pen
- Coke Bottle
- Nikon F 35 mm camera

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Other Categories

- Agricultural Equipment
 - John Deere Tractors
- Construction Equipment
 - Caterpillar D-series tractors
- Locomotives
 - EMD FT, F-3, F-7, SD40-2
- Motorcycles
 - Harley Davison V-Twin

