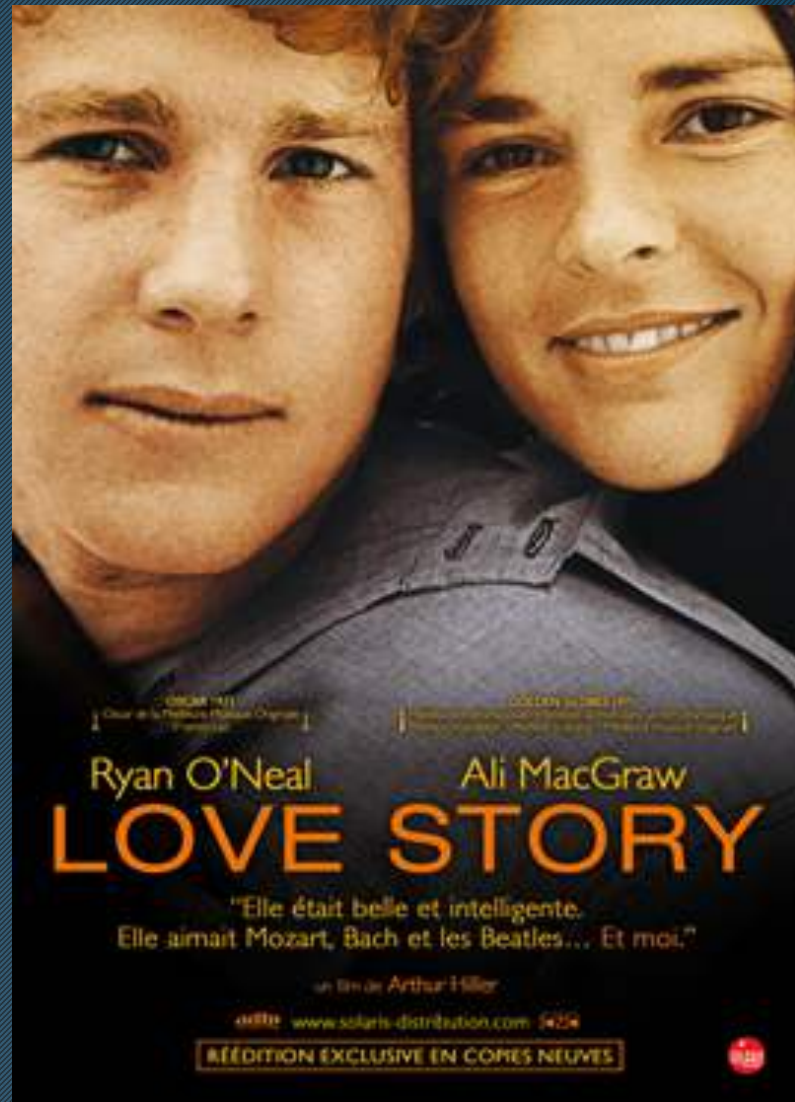


Flexo

A love story

Flexo: a love story



1986

“After the study chemical engineering (1986) I start working in the flexible packaging industry.

Experience Ing. Roel Seele

“ Past jobs:

- “ 4P printing group (Unilver, NL)
- “ Schut Superflex (NL)
- “ MD Amcor Envi & Hapece (NL)
- “ MD Dumocom (NL)
- “ MD Paraphane Plus (B)
- “ MD Euroflex Printing Holland
- “ MD Operational
Benelux&Germany (NL & G)
- “ Present job:
Managing director cooperation
Sterk Midden-Drenthe (NL)



EFTA Benelux Flexo Awards
2015

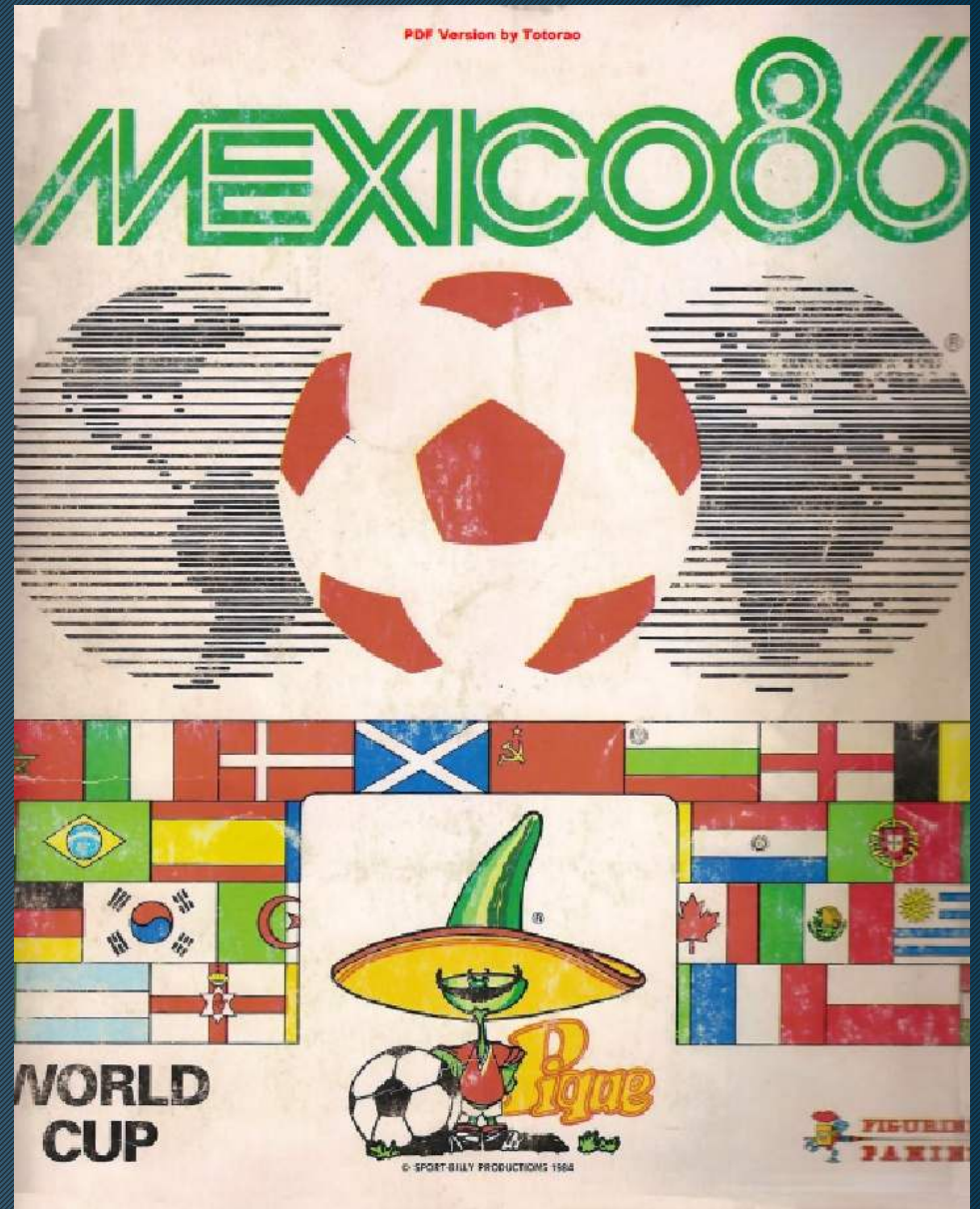
president EFTA
Benelux



Chairman Witteveen Boys '87

1986

What happened in
the world?



1986

Argentina world champion

The hand of God



1/8 finales: France – Italy: 2-0
No Dutch team in Mexico

1986

First PC virus on floppy discs

THE UK AND FRANCE ANNOUNCED PLANS FOR A CHANNEL TUNNEL
THE STATUE OF LIBERTY CELEBRATED ITS 100TH BIRTHDAY

THE SOVIET UNION LAUNCHED PART ONE OF THE MIR SPACE STATION
DESMOND TUTU BECAME SOUTH AFRICA'S FIRST BLACK BISHOP

APPLE FOUNDER STEVE JOBS BOUGHT THE PIXAR ANIMATION STUDIOS
CLINT EASTWOOD BECAME MAYOR OF HIS HOME TOWN, CARMEL-BY-THE-SEA

5 MILLION PEOPLE FORMED A HUMAN CHAIN ACROSS THE U.S. FOR CHARITY
COP SHOW 'GAGNEY AND LACEY' FIRST AIRED ON AMERICAN T.V.

1986

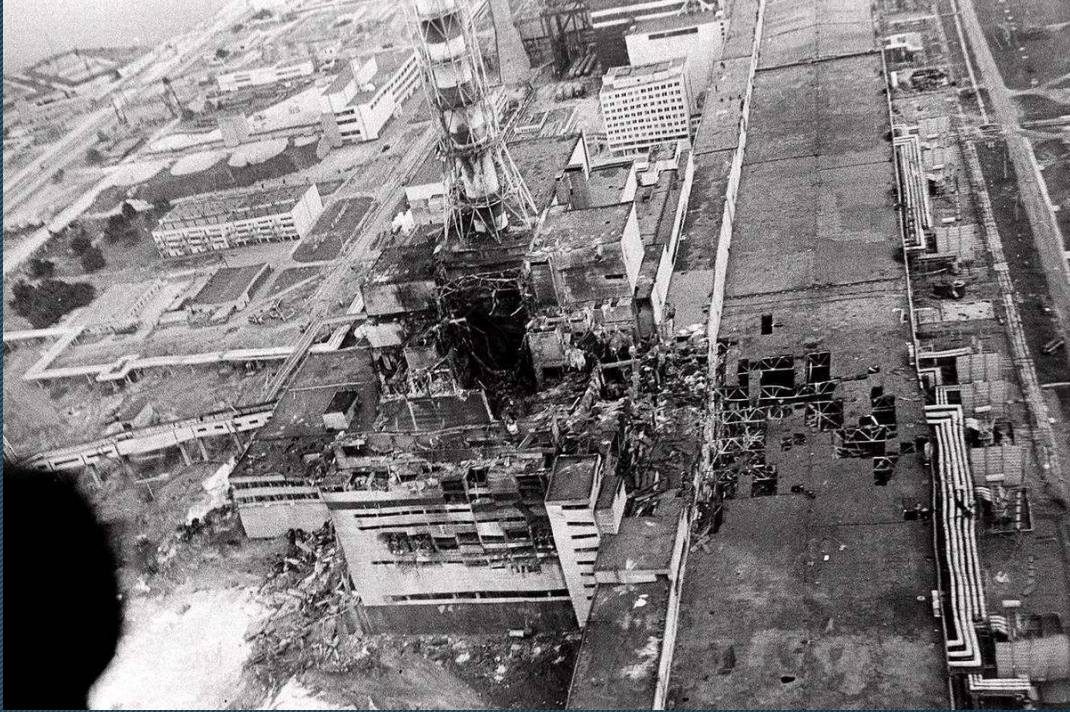
1986

President Reagan





Tjernobył disaster





Challenger disaster



1986

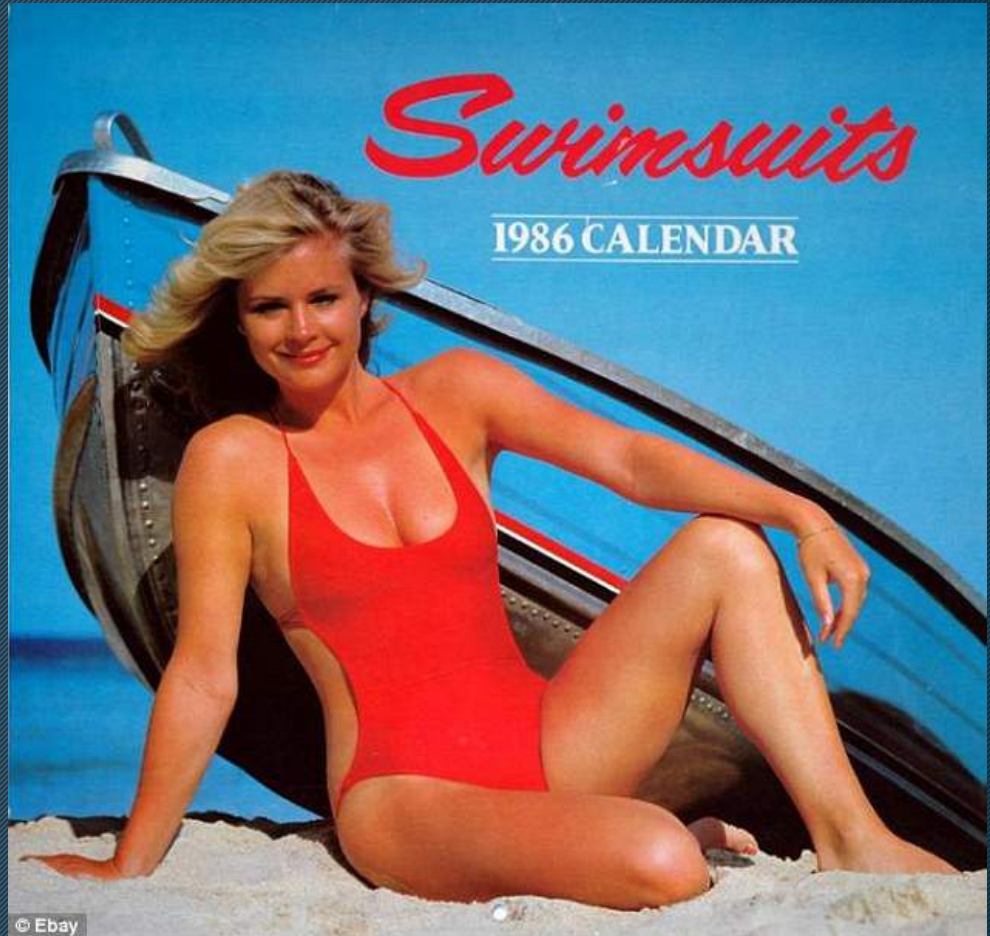


Out of Africa

Out of Africa wins
7 Oscars

1986

Swim fashion



1986



Frisian 11 cities
skate tour

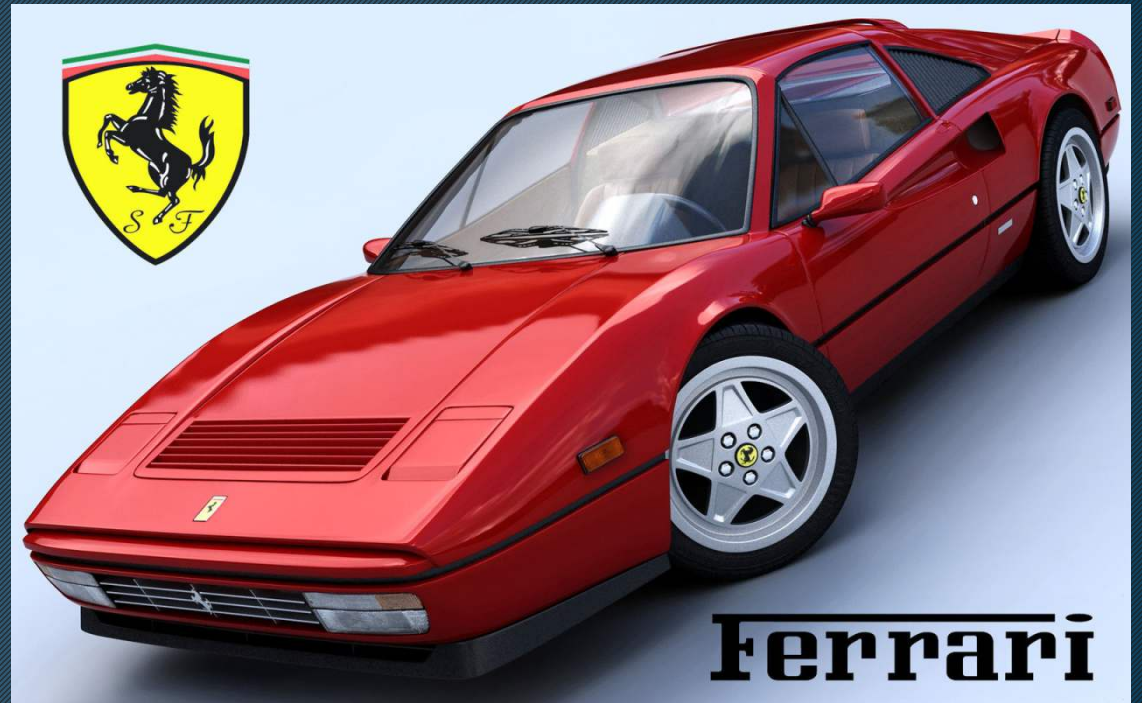
200 km ice skating



King William Alexander of the
Netherlands

1986

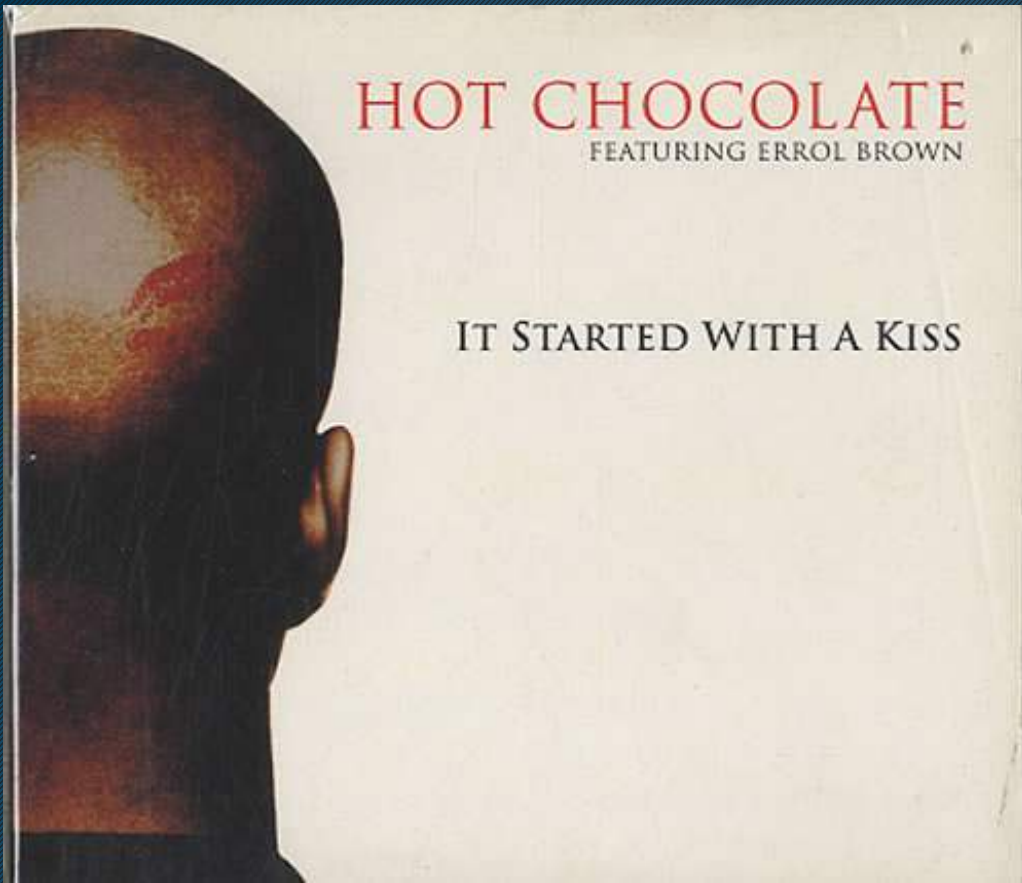
Ferrari 328



1986

Flexo: printing with rubber plates





Flexo: a love story, It started with a
kiss, but 30 years ago the kiss was
not as soft as today.....

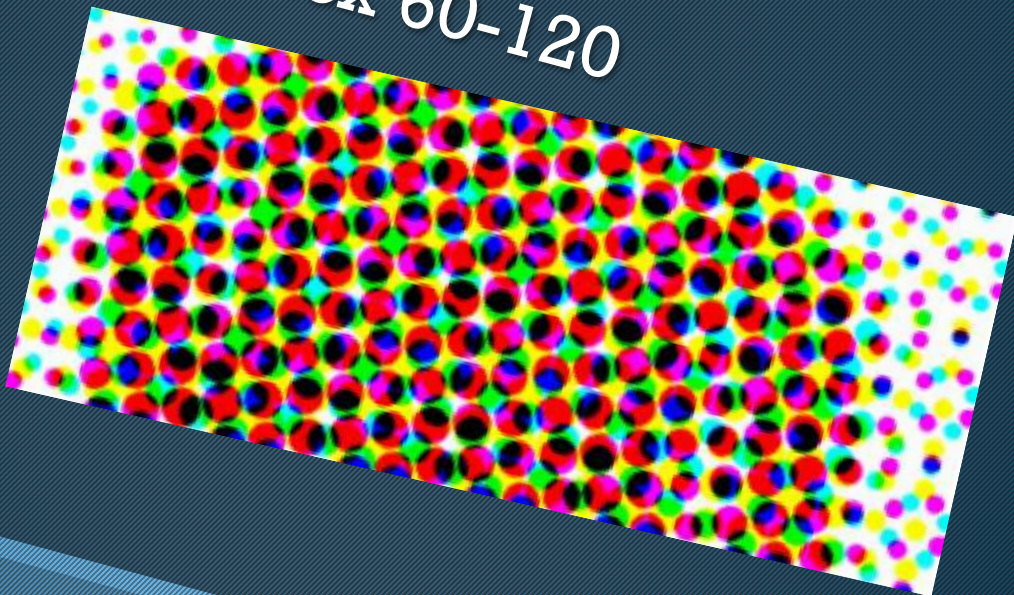
It started with a
KISS

Rubber plates

“ Approx:

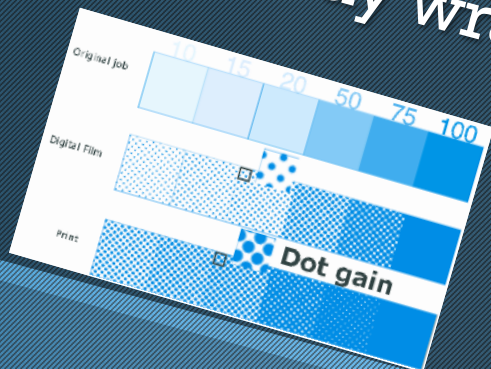
“ Screen 24-30

“ Anilox 60-120

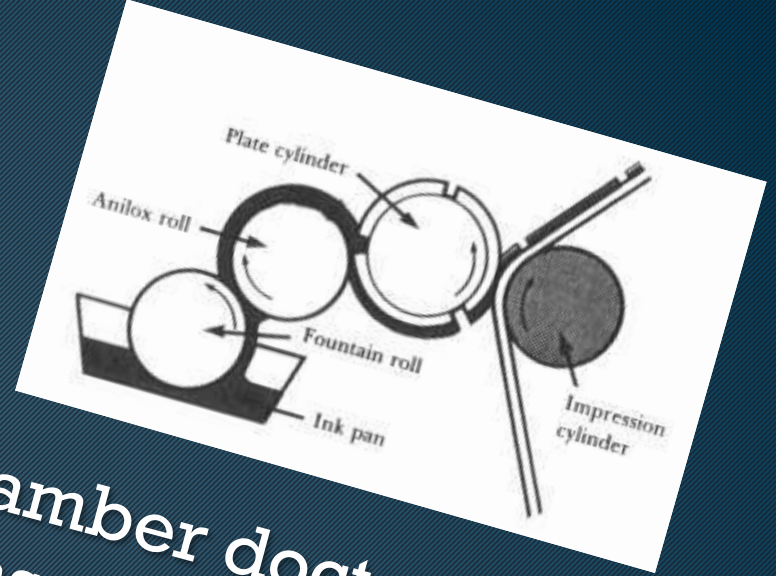


Rubber Plates

- “ Dot gain
- “ Bad High lights
- “ Solids okay
- “ Plates wear
- “ Difference between first and last printed meters
- “ Quality far below gravure
- “ Cheap
- “ Candy wrappers - bags



Flexo presses



- ““ No chamber doctor systems
- ““ 3 roller system
- ““ Free evaporation of solvents
- ““ Line of stack presses
- ““ No kiss printing

Innovation 1986 - 2016

“ In tapes

“ In plates & anilox

“ In sleeves

“ In presses

“ In inks

“ In substrates

Innovation in Tapes

“From two types : “hard”
and “soft” to a large
number of specific
tapes.

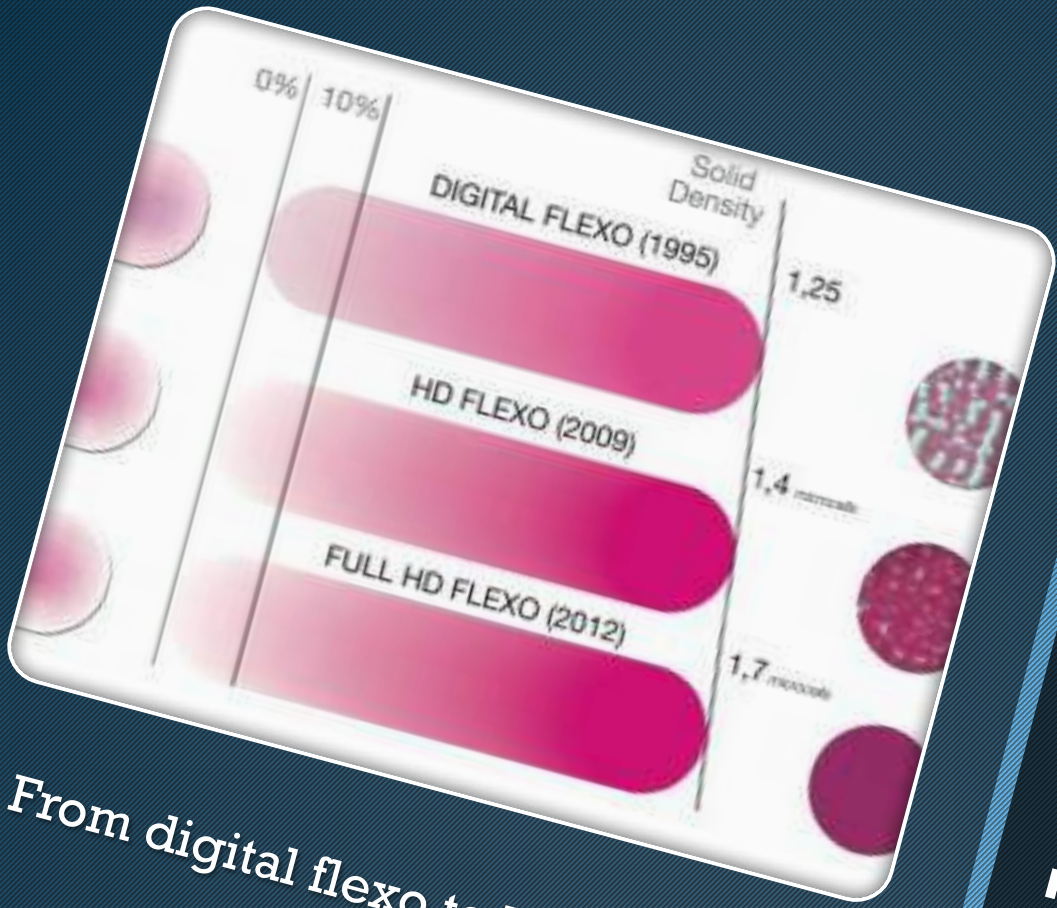


Innovation in Polymer plates and anilox

- “ From Polymer plates to CtP
- “ From CtP to Sleeves
- “ From CtP to NX – HD – Full HD

- “ Higher Screens (60/70 screen and >420 l/cm)
- “ Less dot gain
- “ Highlights
- “ Higher quality print





From digital flexo to Full HD flexo

Innovation in plates

Innovation in CI presses

“ CI presses

“ 2 roller system

“ Camber doctor blade system

“ Less register problems

“ Auto register, auto kiss printing and auto colourmatching.

“ Less waste

“ A little bit more kiss printing



Mistakes at that time

- “ Sales: sells flexo as gravure quality
- “ To less Standardization
- “ Officially training printers became less

Legislation

“Environmental issues
solvent exhaust to the
atmosphere



Safety

- “ Exposure printers to solvents
- “ Machine safety

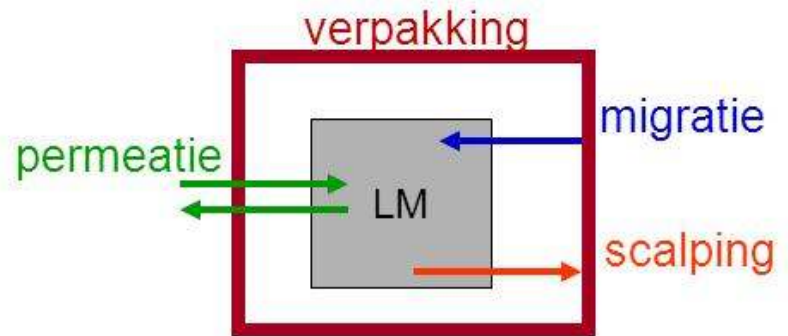


Compliance with
EU Legislation



Migration

“Legislation on contact materials with food and migration of chemicals to food.



Innovation

“ We were able to solve all these issues, because our industry is innovative, creative and adds value.

“ In my opinion we have to solve 3 more issues in the next years.

Packaging Innovation

1

“ Easy opening



2

Environment

“ Ofcourse we all
subscibes the
environment legislation

“ Can we do more and is it
necessary?



Plastic waste in the ocean

Plastic soup



Plastic soup

Environment

3

Education

“ Training Printers
remained behind

“ EFTA Benelux flexo
Academy

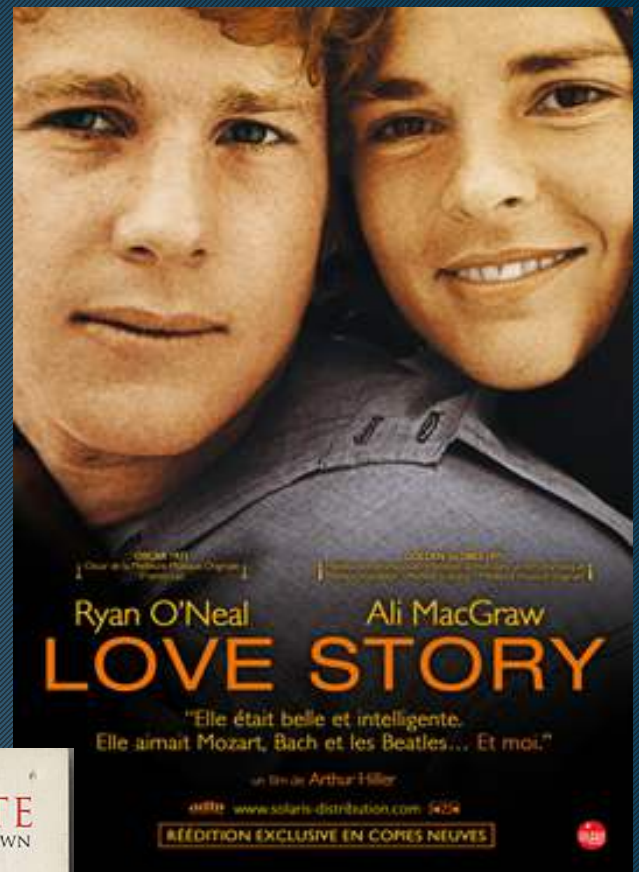
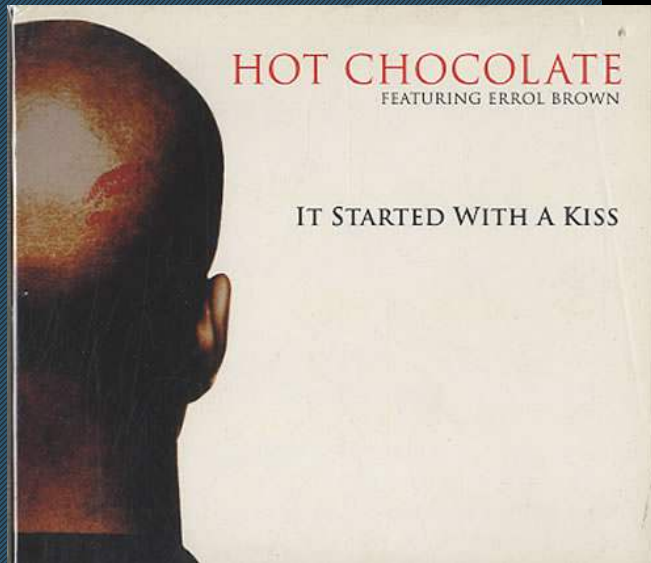


EFTA Benelux Flexo Academy

3

- “ 5 day training program
- “ Flexo printing
- “ Substrates & Inks
- “ Plates & Tapes & anilox
- “ Migration
- “ Test methodes
- “ Packaging issues
- “ Quality
- “ Fault detection & solutions
- “ Etc., etc.

Flexo: a love story





**Thank You
Grazie**

Ing. Roel Seele
President EFTA Benelux