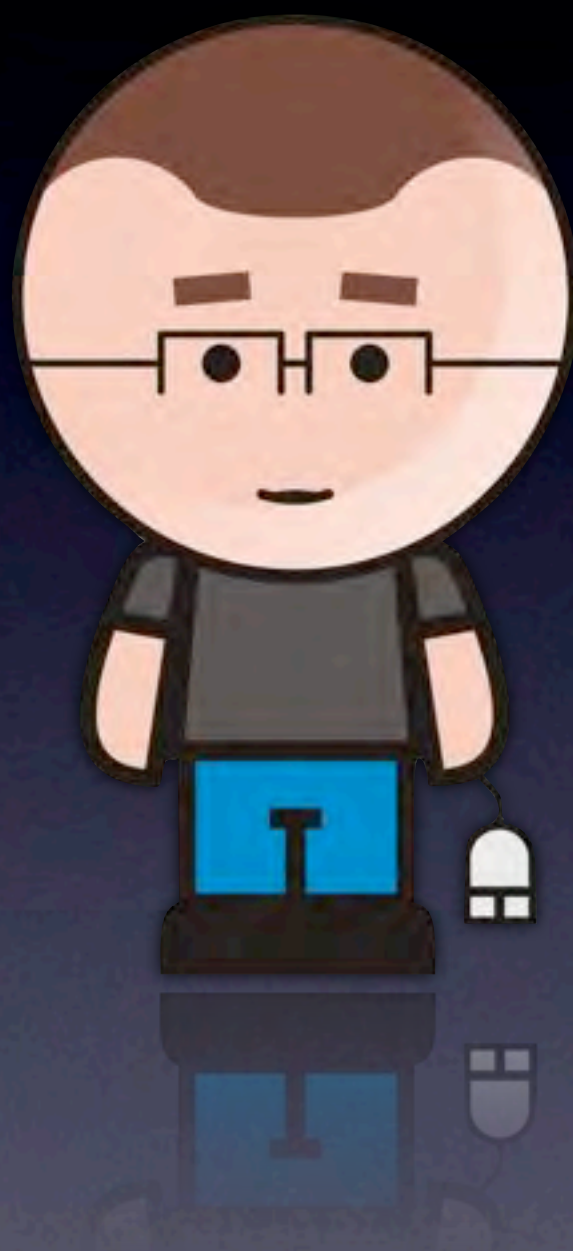


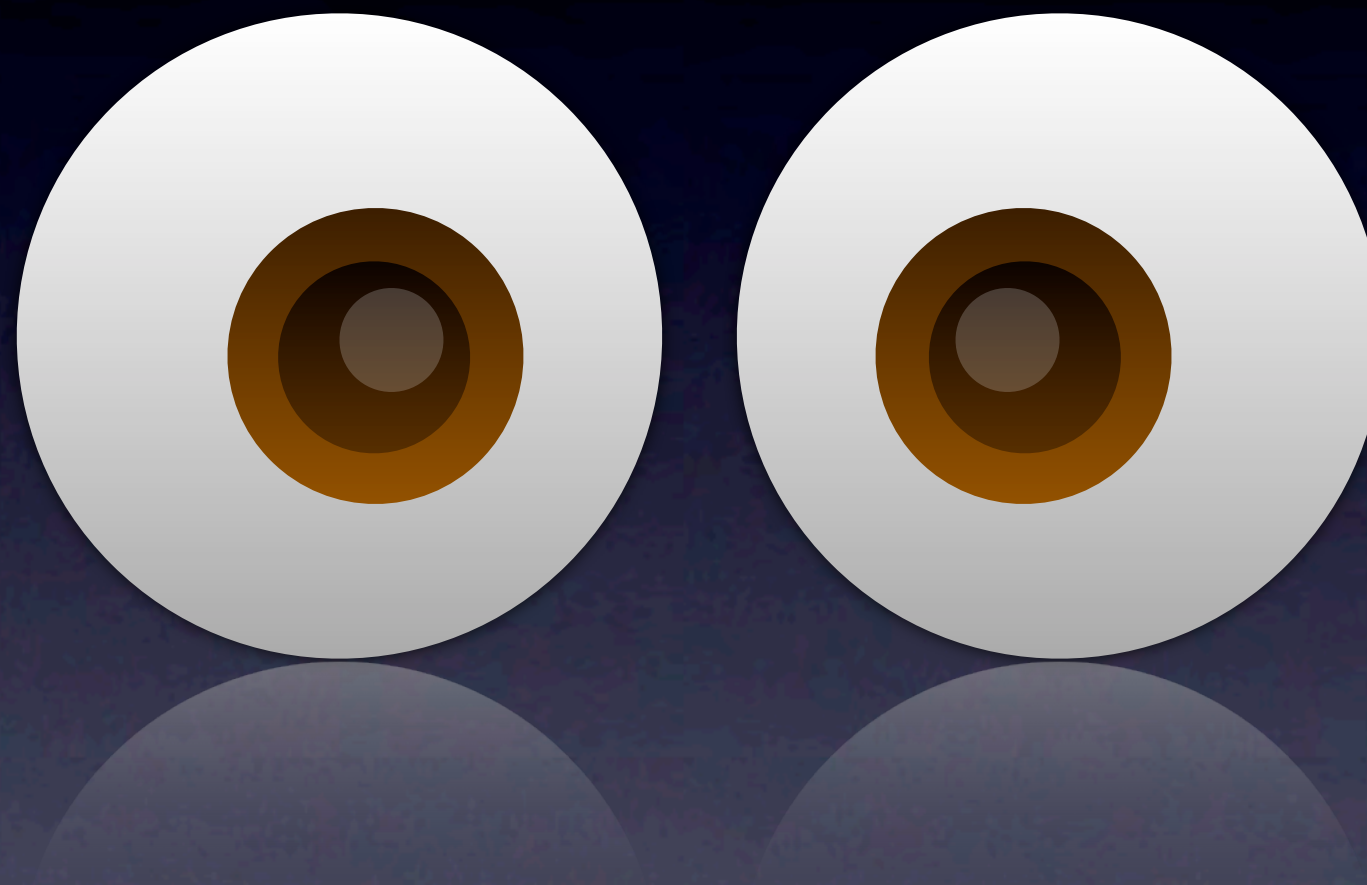
**1<sup>st</sup> SLIDE**



University of *Ljubljana*  
Faculty *of Natural Sciences and Engineering*  
*Department of Textiles*







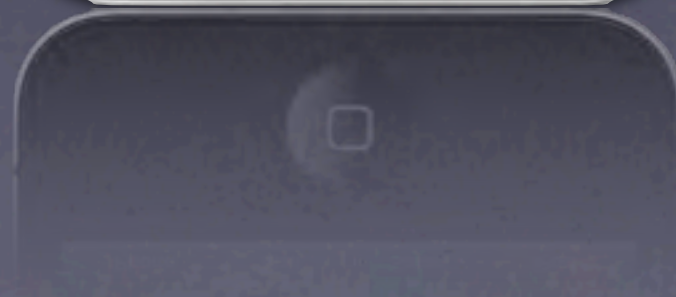




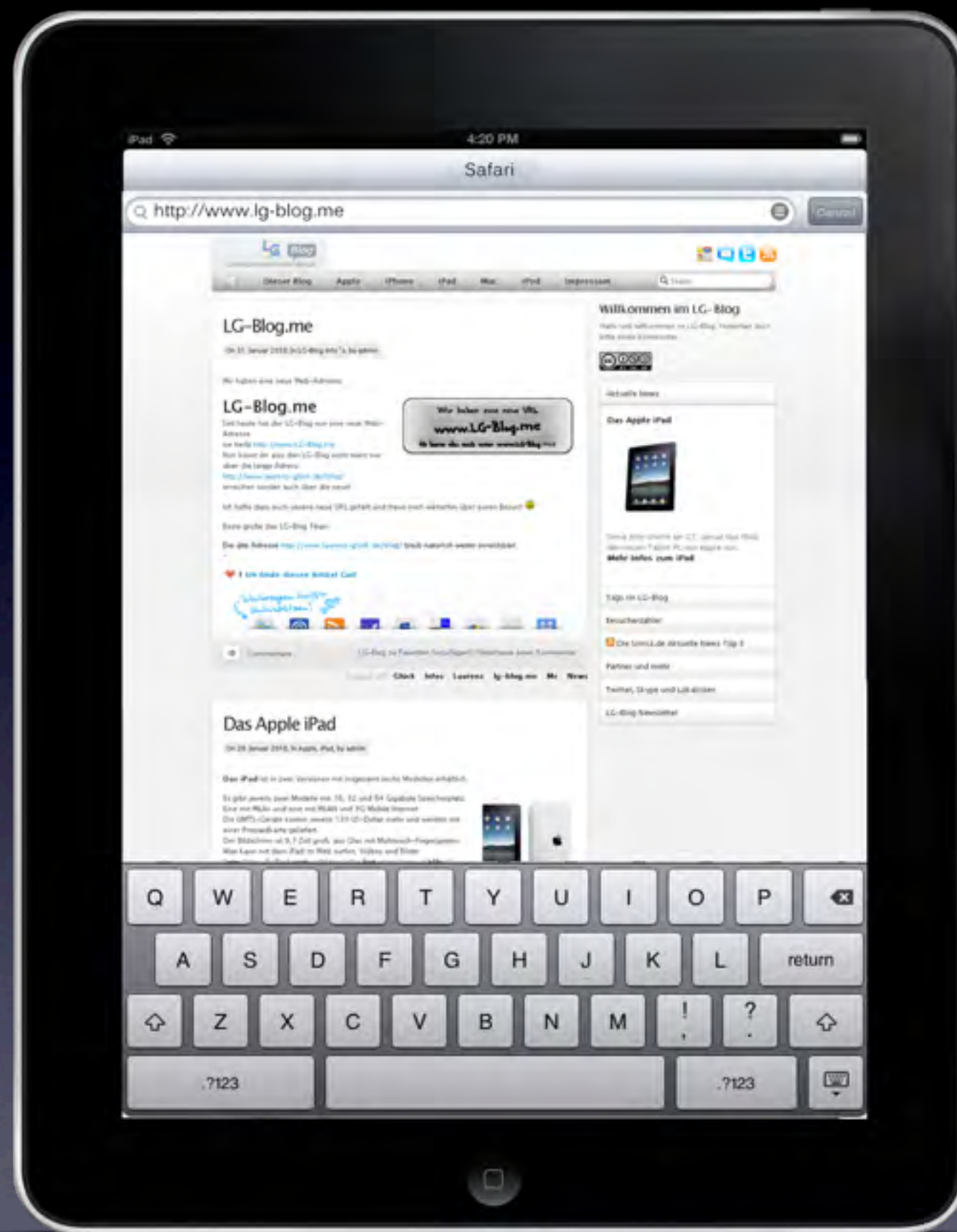








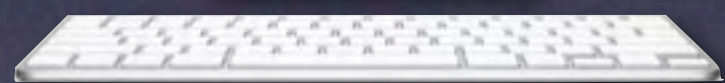




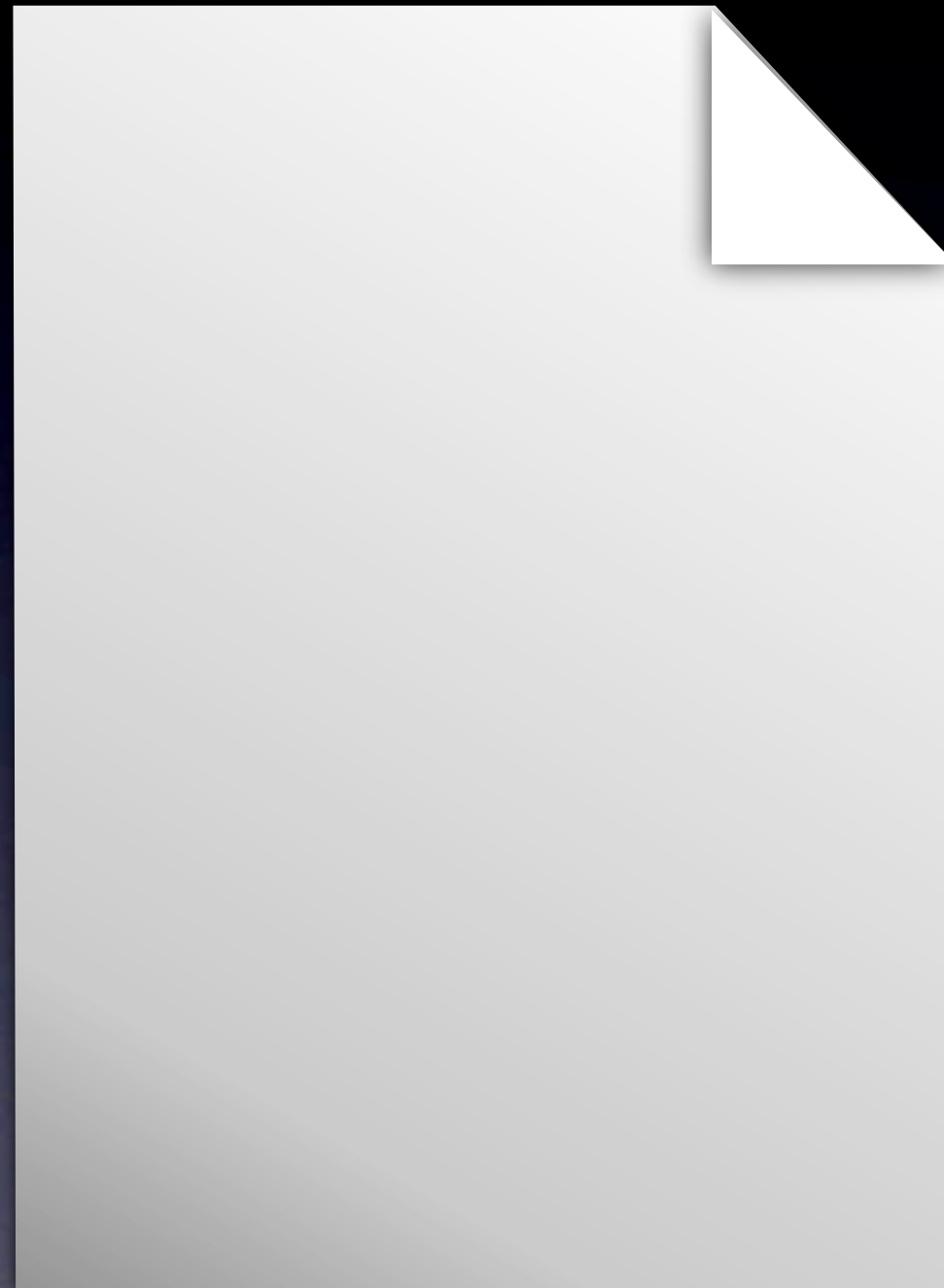
Greenland or right-whale, he is the best existing authority. But Scoresby knew nothing and says nothing of the great sperm whale, compared with which the Greenland whale is almost unworthy mentioning. And here be it said, that the Greenland whale is an usurper upon the throne of the seas. He is not even by any means the largest of the whales. Yet, owing to the long priority of his claims, and the profound ignorance which, till some seventy years back, invested the then fabulous or utterly unknown sperm-whale, and which ignorance to this present day still reigns in all but some few scientific retreats and whale-ports; this usurpation has been every way complete. Reference to nearly all the leviathanic allusions in the great poets of past days, will satisfy you that the Greenland whale, without one rival, was to them the monarch of the seas. But the time has at last come for a new proclamation. This is Charing Cross; hear ye! good people all,—the Greenland whale is deposed,—the great sperm whale now reigneth!

There are only two books in being which at all pretend to put the living sperm whale before you, and at the same time, in the remotest degree succeed in the attempt. Those books are Beale's and Bennett's; both in their time surgeons to English South-Sea whale-ships, and both exact and reliable men. The original matter touching the sperm whale to be found in their volumes is necessarily small; but so far as it goes, it is of excellent quality, though













**Klementina  
Možina**



**Igor  
Majnarič**



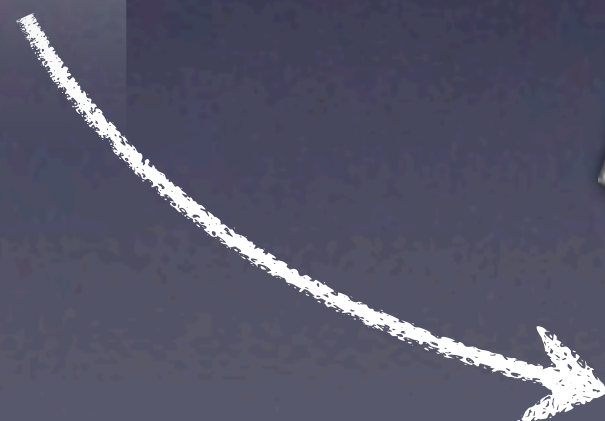
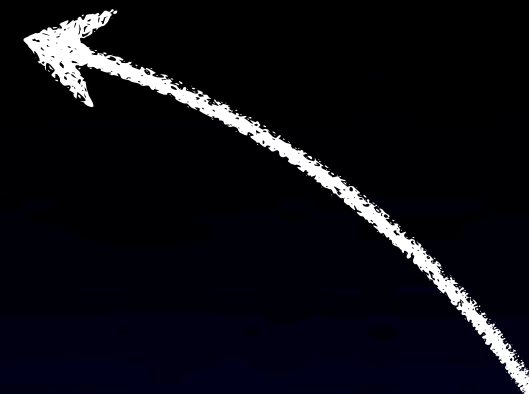
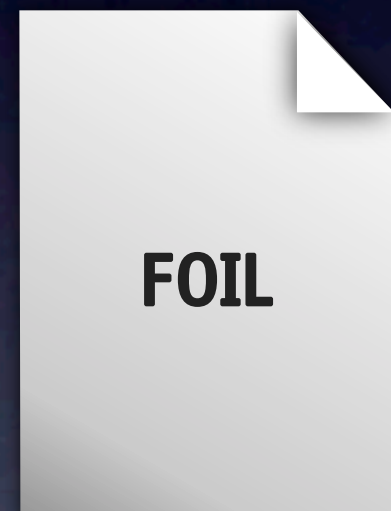
# **TYPOGRAPHIC AND COLORIMETRIC PROPERTIES OF NON-IMPACT PRINTS ON TRANSFER FOIL**

**intro**

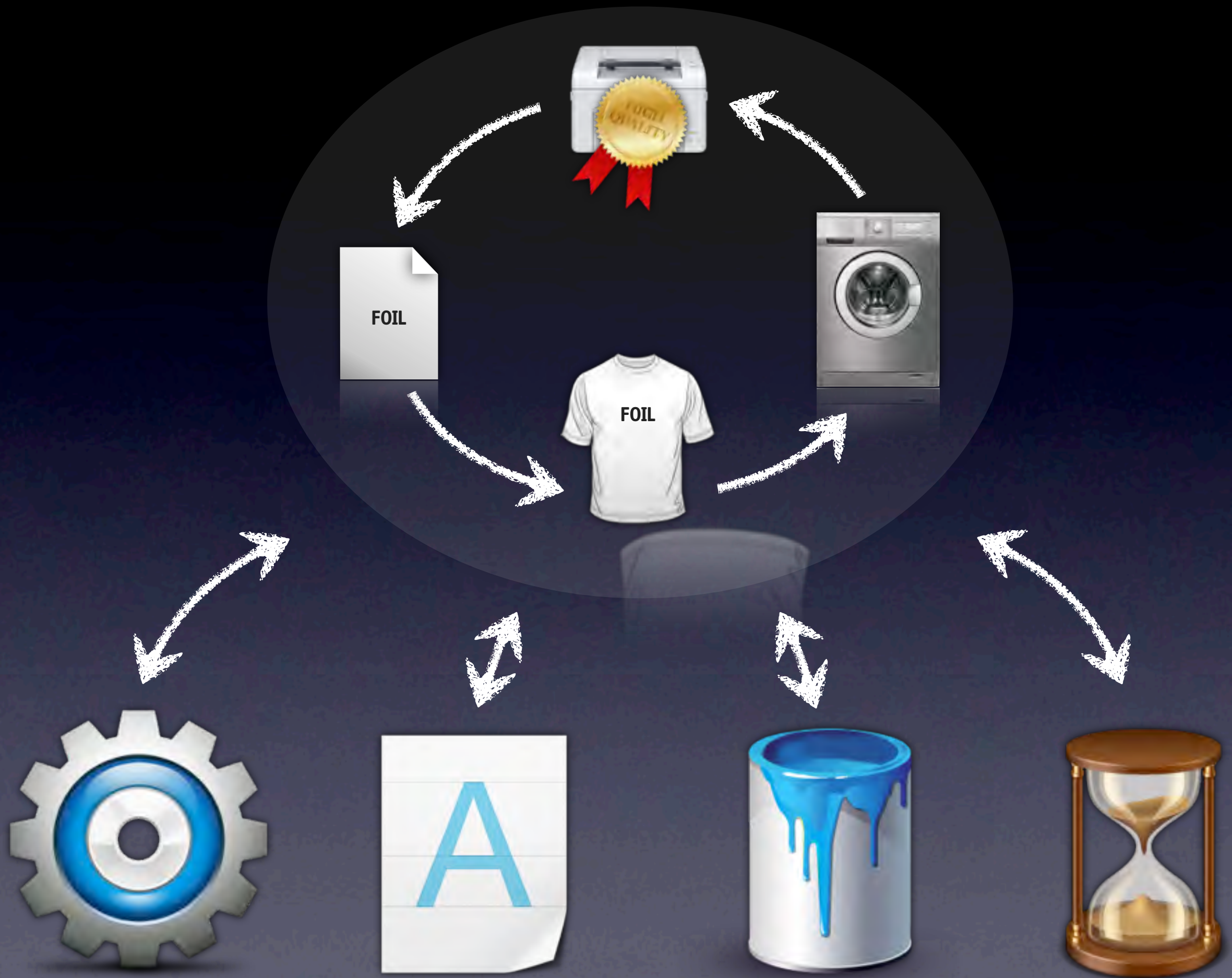














Callaway  
GOLF

errea

3M

prodir.



dunhill  
LONDON

Apple iPod

Cadbury

FABER-CASTELL

Zippo

PARKER

PING

Ashworth

BRITE-MAT™  
MOUSEMAT

SRIXON

ORIENT-EXPRESS

adidas

DEWALT

MAG-LITE  
A Work Of Art That Works

TOP T FLITE

Fisher-Price

Jamie Oliver

DURACELL

KooGa  
MADE FOR HUGGY

STONWALL

MARKSMAN

CAT

BALMAIN  
PARIS

LG

Slazenger



BELKIN

Wilson W Staff

Ray-Ban

D-Link

STAEDTLER

ascender

x-height

descender



Arial

Times

Blaznic

a

**density typographic tonal density typo  
graphic tonal density typographic tonal  
density typographic tonal density typo  
graphic tonal density typographic tonal  
density typographic tonal density typo  
graphic tonal density typographic tonal  
density typographic tonal density typo**

b



**experimental**

2×



**HP Indigo S5500**

electrophotography with liquid ElectroInk

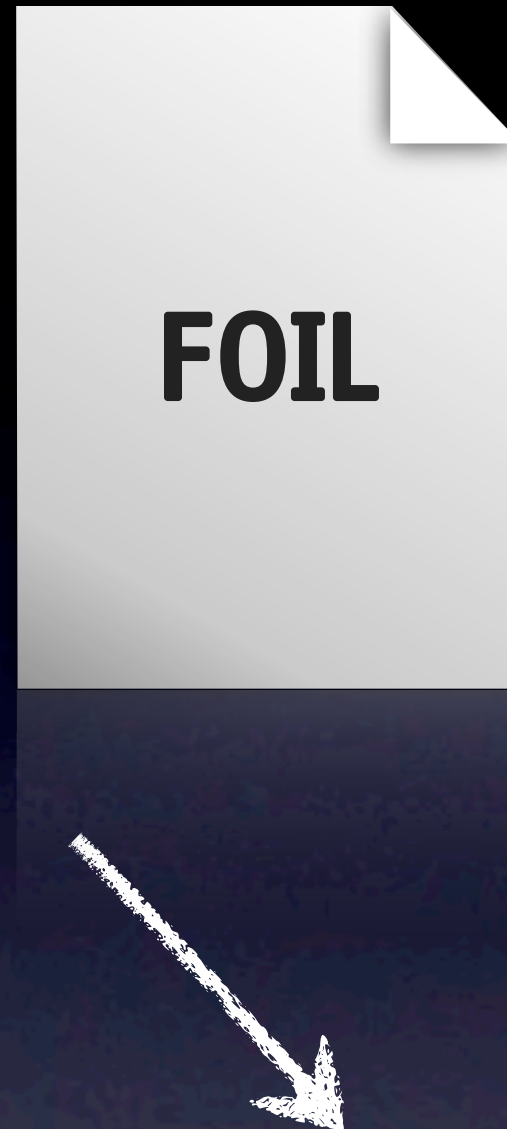
**P1**

**Roland LEC-300**

piezo inkjet technology with Roland ECO-UV ink

**P2**

2×



FOIL

**Forever  
Digi-Print WT**

32 kPa, 168 °C, 20 s

**P1**

**Poli-flex  
Printable 4016**

32 kPa, 175 °C, 15 s

**P2**



1

×



**100% plain weave (P1/1) cotton**

3

×



Arial


sans-serif

Times

transitional

Blaznic

modern

4 × 



6 pt

8 pt

10 pt

12 pt

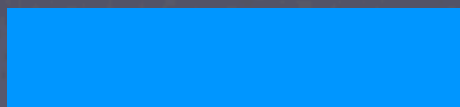


4×



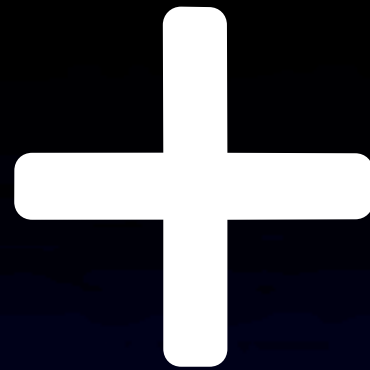
100%

50%





40 °C



110 °C



1

2

3

4

5

cycles

# measurements





ImageJ



# DataColor Spectra Flash 600 Plus-CT

(spectrophotometer, D65, 10° standard observer, instrument geometry 45/0)


$$\Delta E^*_{00}$$

CIE  $\Delta E$  2000  $L^* a^* b^*$



# results

**TTD**



# Arial

Times







P2

P1





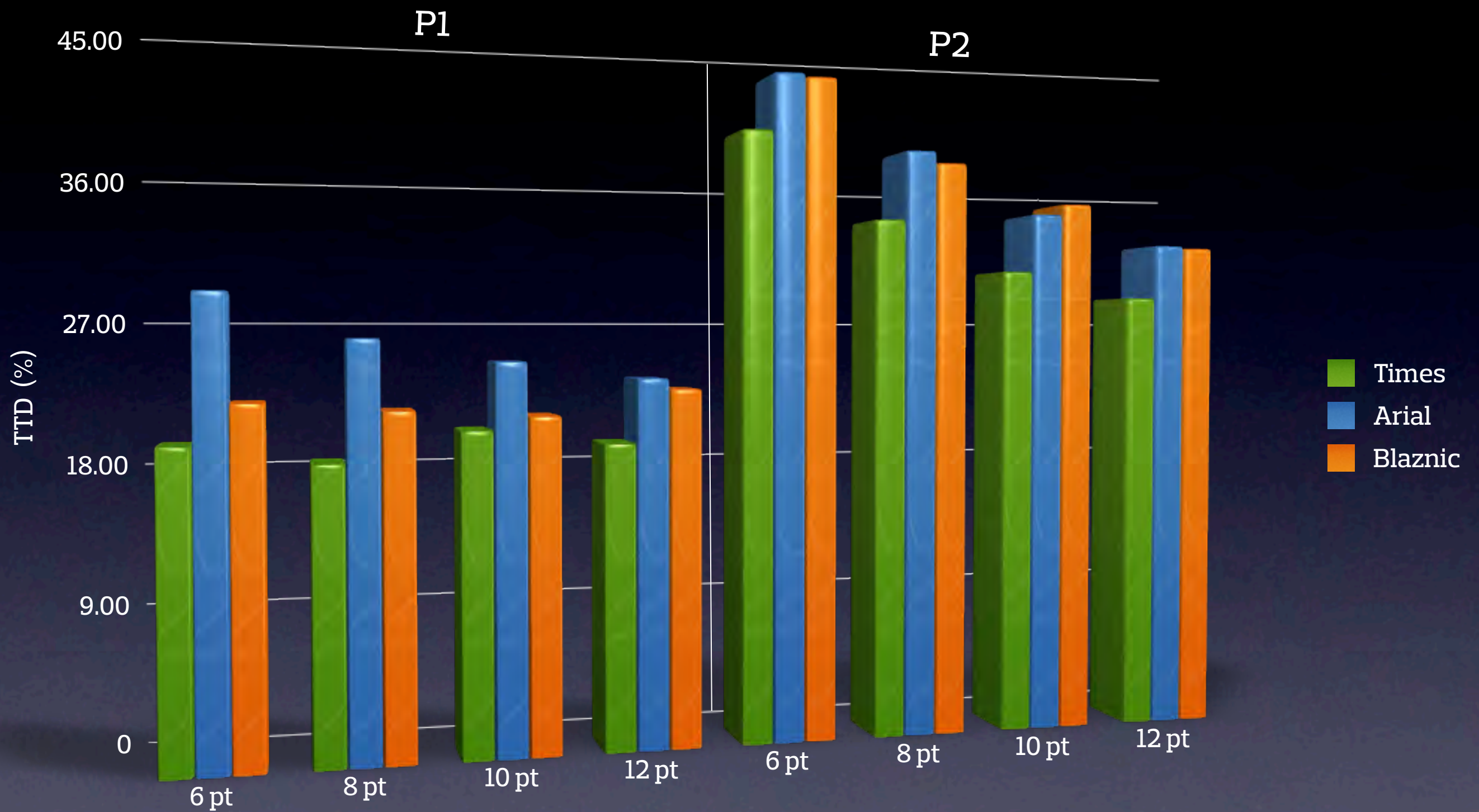
6,8 pt

10, 12 pt

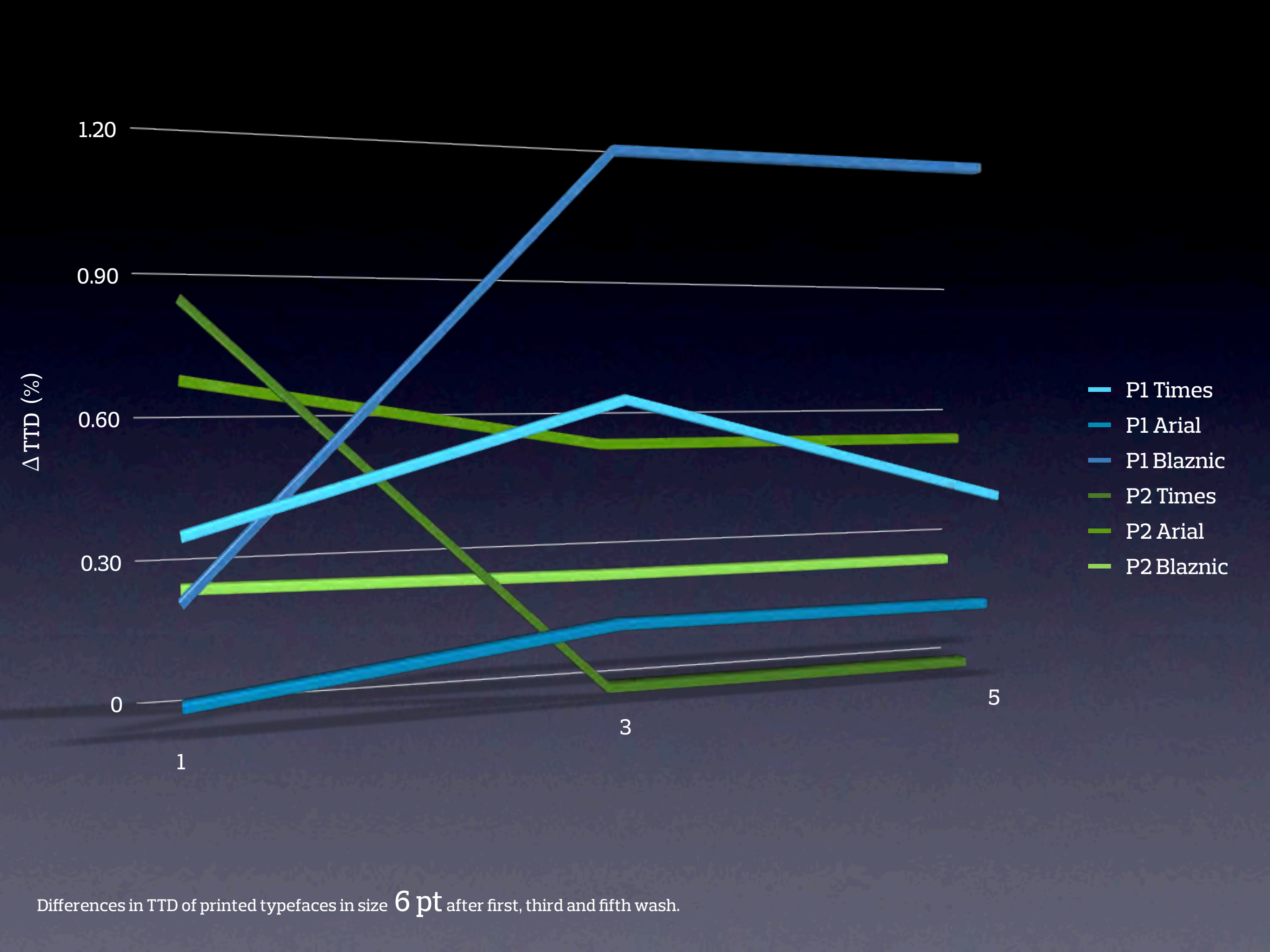






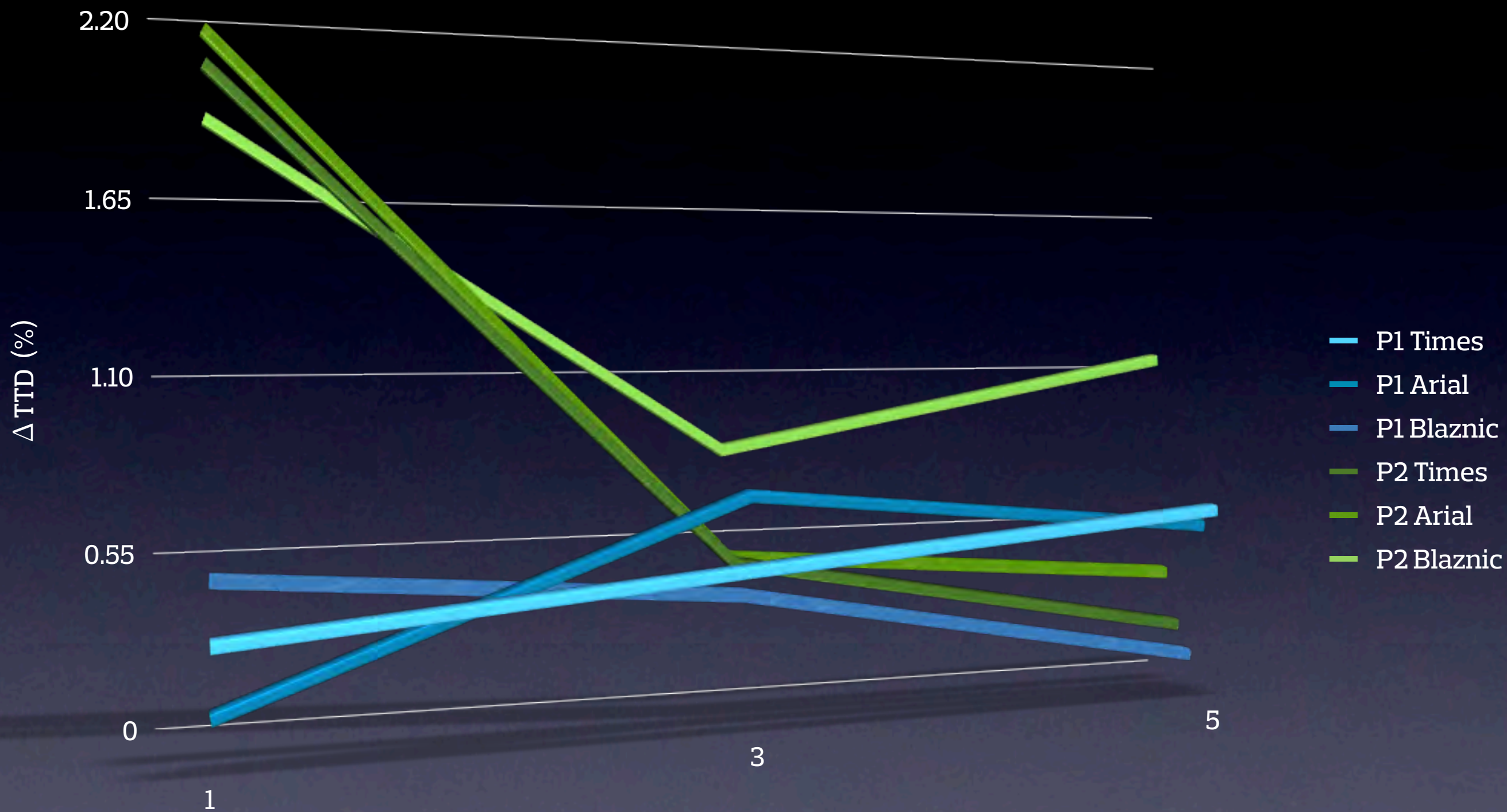


TTD of tested typefaces printed in different sizes with printer P1 and P2.



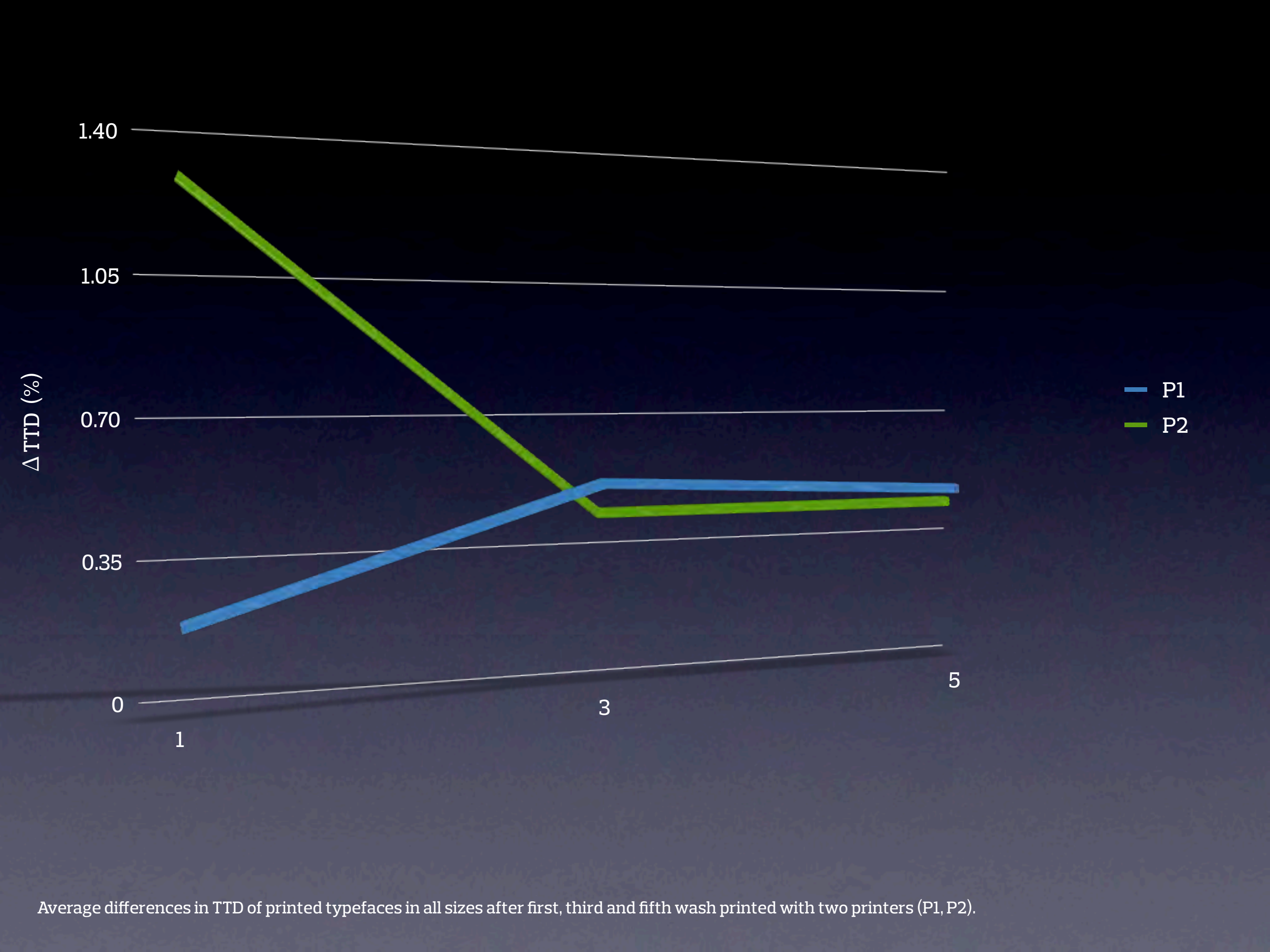
Differences in TTD of printed typefaces in size 6 pt after first, third and fifth wash.





Differences in TTD of printed typefaces in size 8 pt after first, third and fifth wash.





Average differences in TTD of printed typefaces in all sizes after first, third and fifth wash printed with two printers (P1, P2).

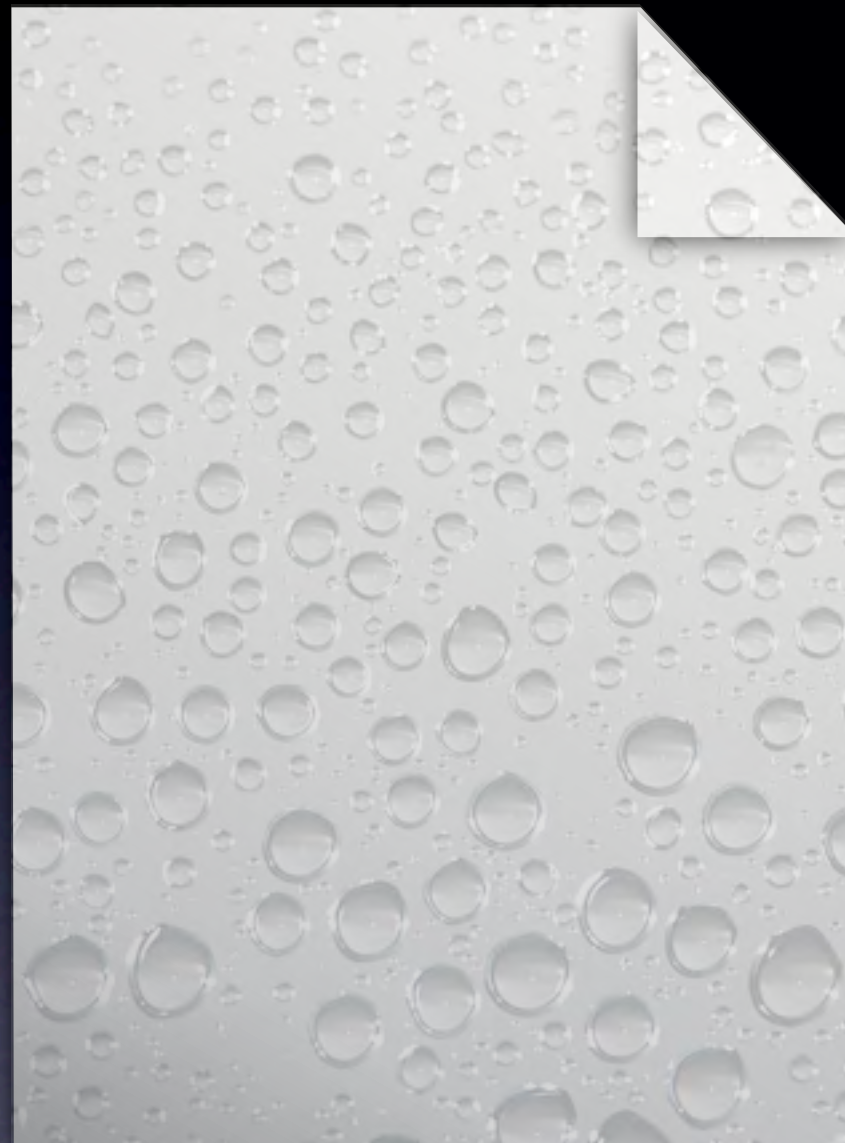
**colorimetric  
properties**







$\Delta E \uparrow$

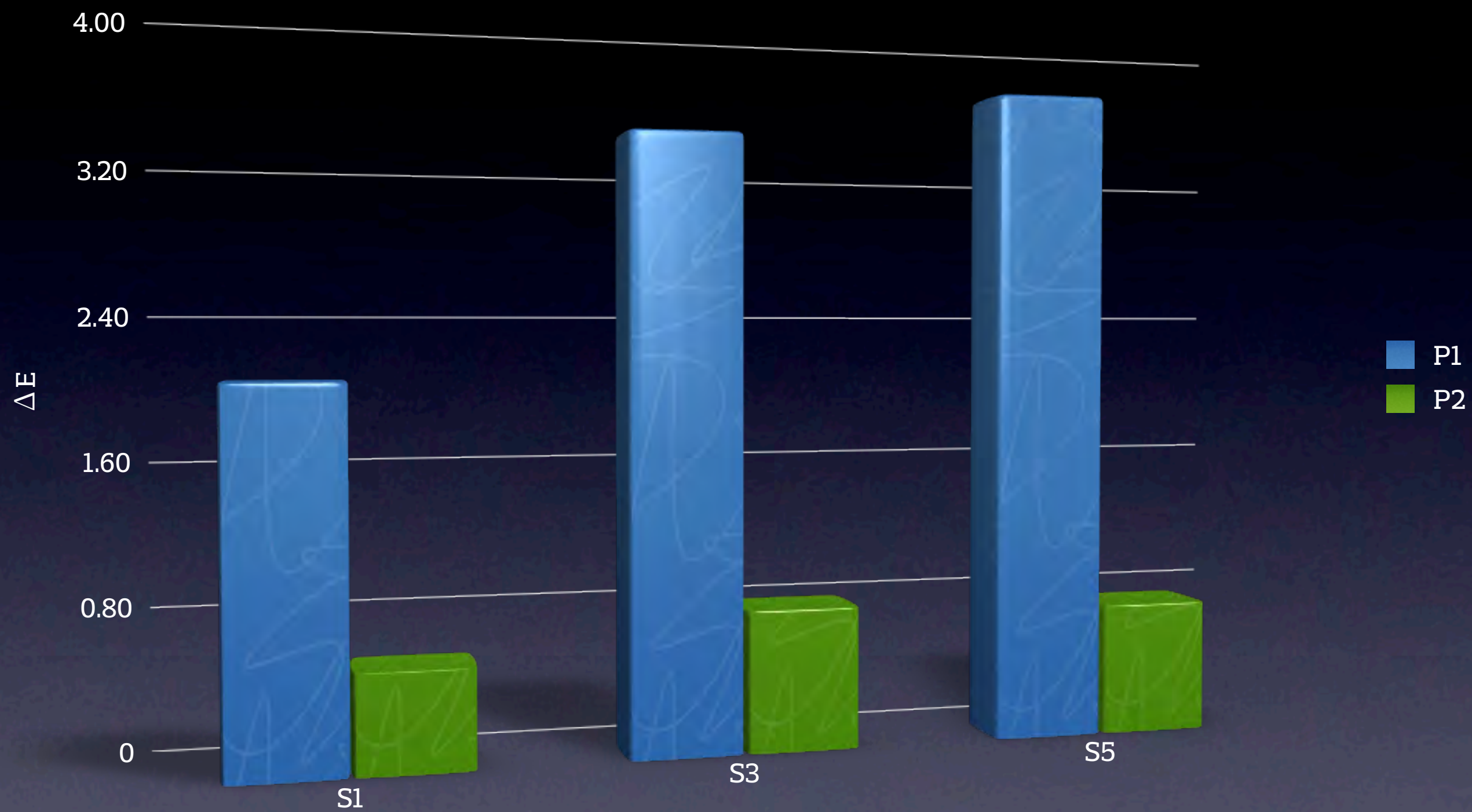




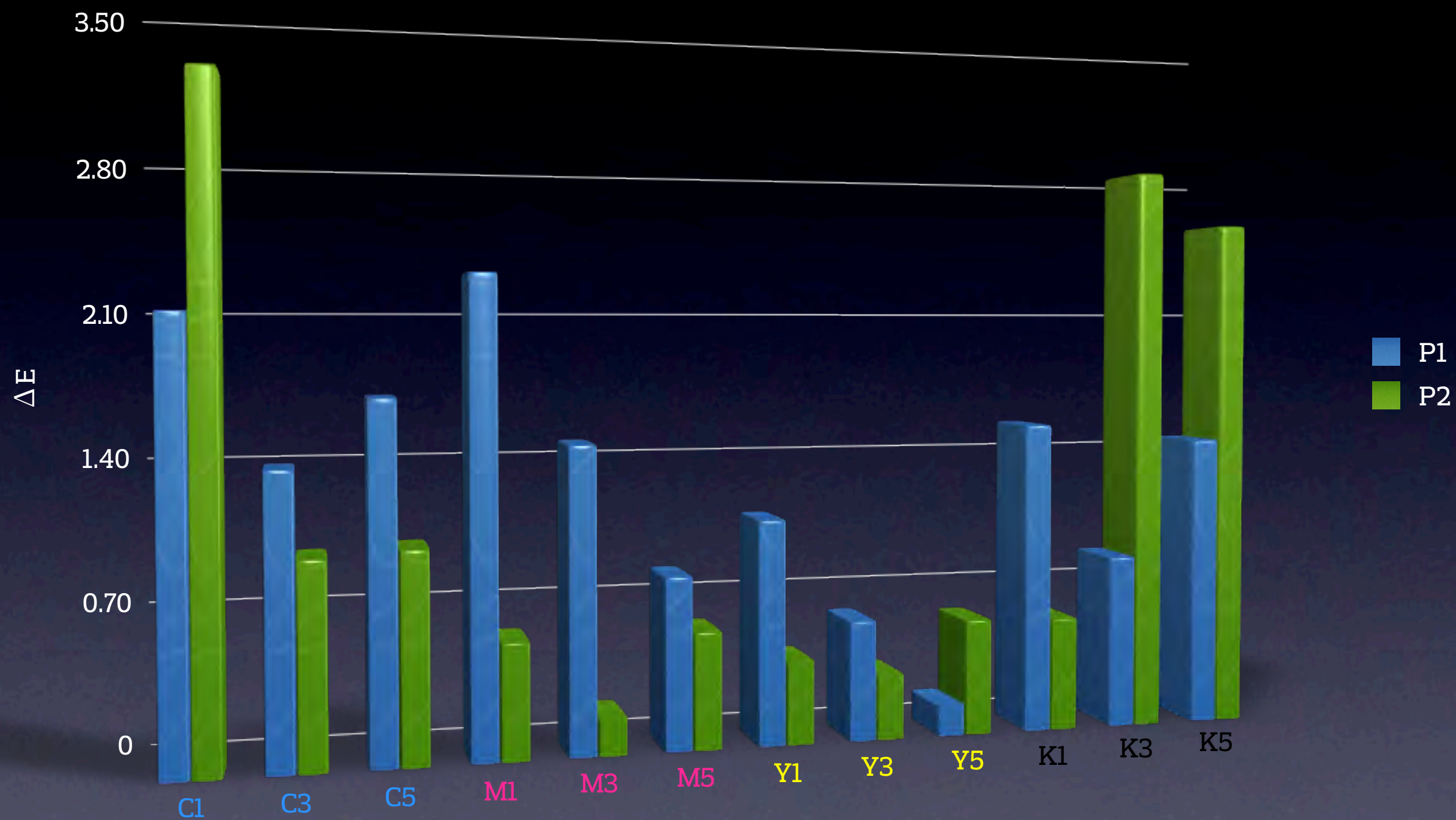


P2



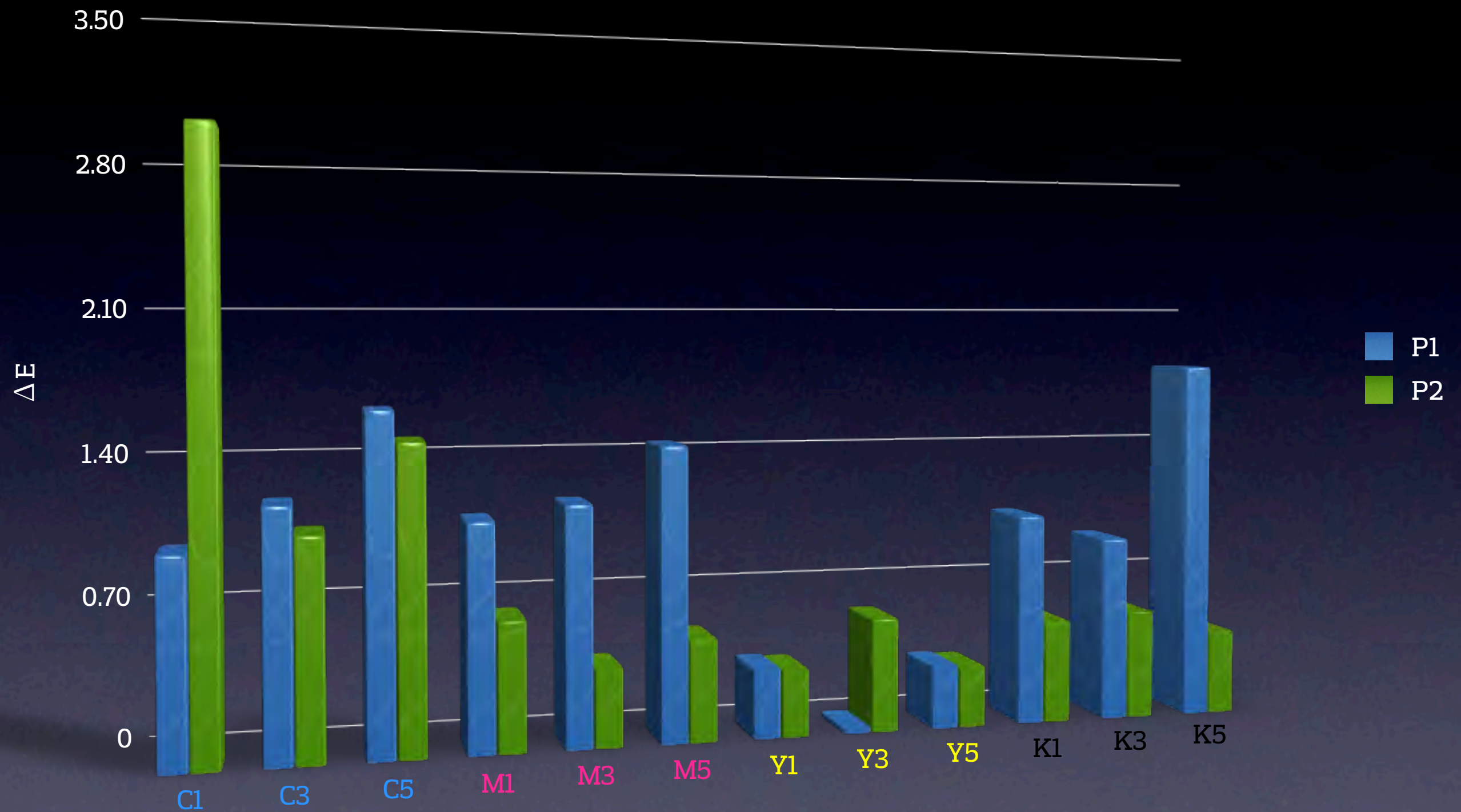


Colorimetric differences ( $\Delta E$ ) in substrate with corresponding foils after first, third and fifth wash.



Colorimetric differences ( $\Delta E$ ) in **CMYK100** prints (P1, P2) after first, third and fifth wash





Colorimetric differences ( $\Delta E$ ) in **CMYK50** prints (P1, P2) after first, third and fifth wash

# conclusion

# Electrophotograph!





uvink





6,8 pt





# recommendations

b

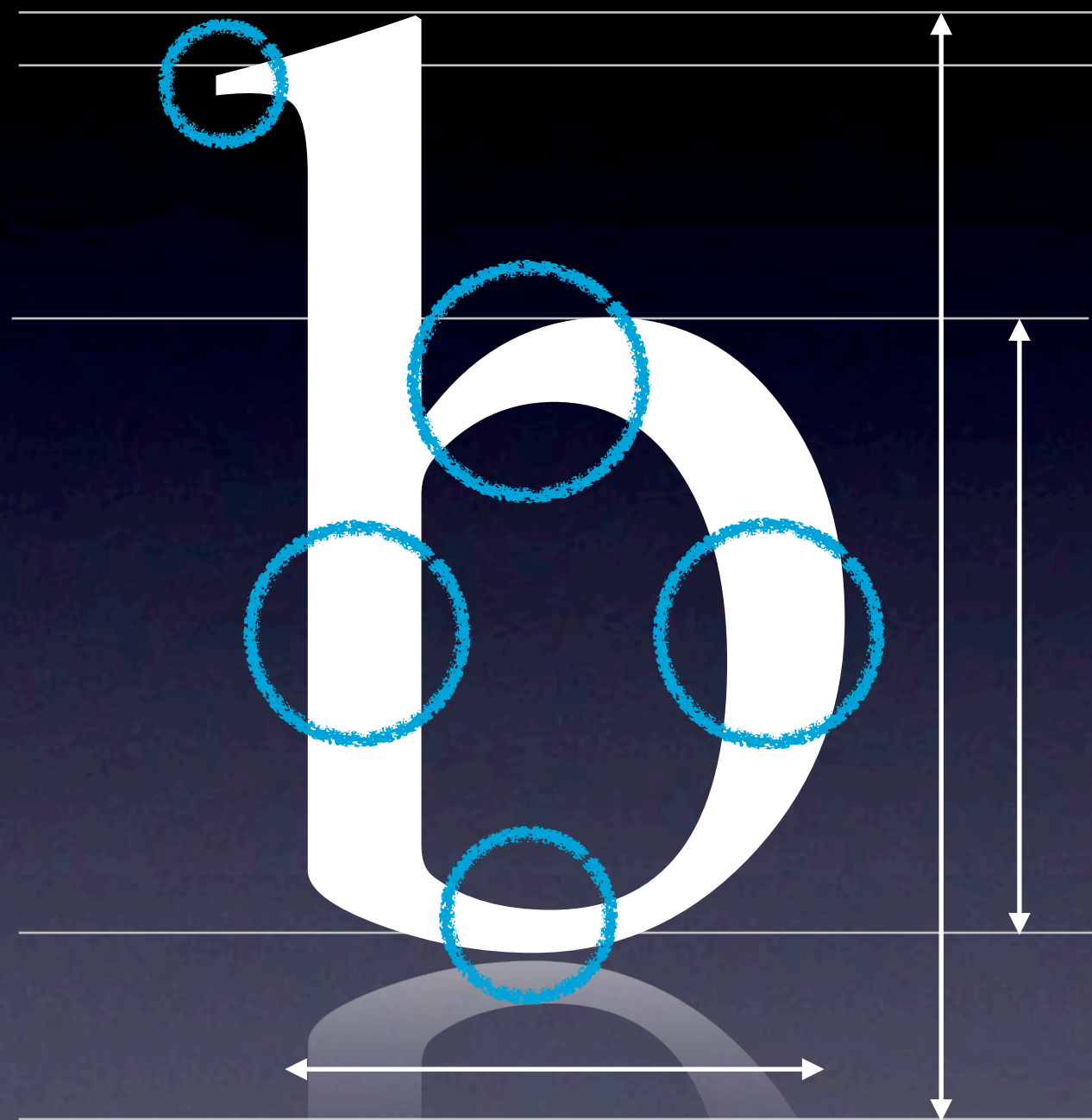


B



b B





Size • size





**LAST SLIDE**

