Georg Heeg eK Georg Heeg eK Baroper Str. 337 Wallstraße 22 44227 Dortmund 06366 Köthen Germany Germany Tel: +49-231-97599-0 Tel: +49-3496-214 328 Fax: +49-231-97599-20 Fax: +49-3496-214 712 **Georg Heeg AG** Seestraße 131 8027 Zürich **Switzerland** Email: georg@heeg.de Tel: +41(848) 43 34 24 http://www.heeg.de





FROM PRINT DESIGN TO WEB DESIGN

"USING SMALLTALK TO CONNECT BOTH WORLDS"

GEORG HEEG EK 2009

HTTP://WWW.HEEG.DE

AUTHOR: ROLAND WAGENER ROLAND@HEEG.DE

FROM PRINT DESIGN TO WEB DESIGN



- 1. WHAT'S THE PROBLEM?
- 2. So, LETS BUILD A BRIDGE!
- 3. Now, LETS BUILD A PRODUCT!
- 4. IT CURRENTLY LOOKS LIKE THIS

WHAT'S THE PROBLEM?



DESIGNERS ARE ARTISTS WITH A SPECIAL LANGUAGE

THEY ARE THINKING IN colors, fonts and perfect images

ASTHETICS AND GOOD TASTE

ARE KEY TO THEIR SUCCESS

LOOK AT THE RESULTS:

- BROCHURES, FLYERS, POSTERS, MAGAZINES

WE LOVE TO LOOK AT THEM!



BUT WE LOOK AT PAPER, IF WE ADORE THOSE RESULTS ... MOST OF THE TIME

ON THE WEB, WE FIND THOSE GEMS RANSFORMED INTO PDF DOCUMENTS OR FLASH BOOKLETS

SO WHY IS IT THAT WE DON'T LOOK AT SOME BEAUTIFUL NORMAL HTML-BASED WEB PAGES?

WHAT TOOLS DO THEY USE?



PHOTOSHOP, ILLUSTRATOR, FREEHAND PAGEMAKER, QUARK-EXPRESS, INDESIGN

- THEY ARE ALL MAINLY TARGETING AT PRINT ORIENTED OUTPUT
- None of them can export a web page
 - OK, PHOTOSHOP CAN EXPORT AN ALBUM SITE, BUT THAT'S SOMETHING DIFFERENT ...

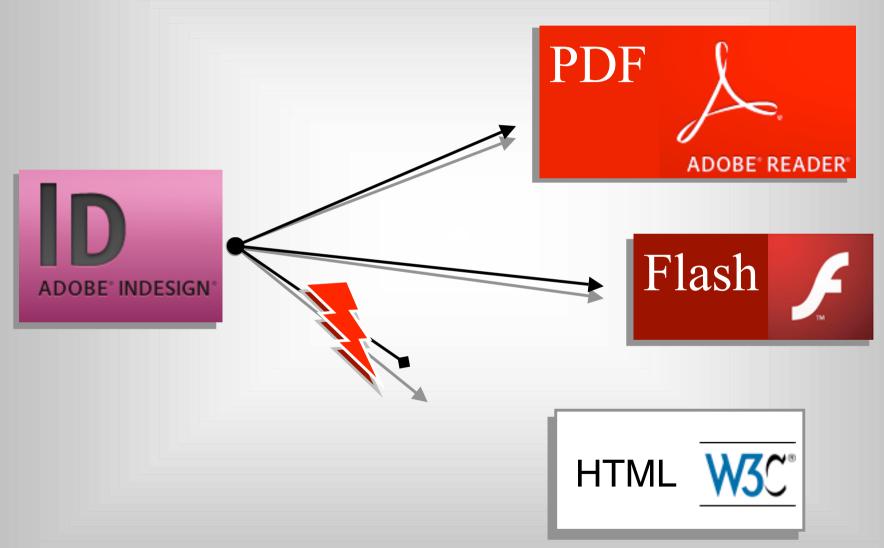
ADOBE SUPPORTS YOU ...





DESIGNING FOR THE WEB?





DESIGNING FOR THE WEB II



DESIGNERS EXPORT GRAPHIC VERSIONS OF THEIR DOCUMENTS TO WEB PROGRAMMERS

THE IMAGES ARE DECOMPOSED AND ARRANGED ON A WEB PAGE

THE RESULTS DIFFER FROM THE ORIGINAL

DESIGNING FOR THE WEB III



HTML AND ITS LIMITATIONS ARE EXPOSED TO THE USER AND INFLUENCE THE DESIGN A LOT

- CAN'T USE ALL FONTS
- SHOULDN'T USE ALL COLORS
- IMAGES SQUEEZED AND COMPRESSED
- Positioning can be fun ...
- LEARN CSS AND YOU WILL WIN

A NIGHTMARE FOR A PROFESSIONAL DESIGNER

SO WHAT OPTIONS DO THEY HAVE?



INDESIGN® EXPORTS INTO TWO WEB COMPATIBLE FORMATS: PDF and Flash

- THE WHOLE LAYOUT IS PRESERVED
- IT IS A ONE-CLICK OPERATION
- NO TUNING OF THE RESULT NECESSARY

BUT END USERS ARE NOT ALWAYS FOND OF PDF AND FLASH

PDF/FLASH VERSUS HTML



PDF OR FLASH

- PROPRIETARY FILE FORMAT
- NEEDS A BROWSER PLUG IN
 - PLUG-INS CONSUME
 ADDITIONAL PLATTFORM
 PERFORMANCE
- LARGE FILES, ALL PAGES
 ARE FETCHED IN ONE GO
 - LONG DOWNLOAD TIMES
- MAY INCLUDE FONTS NOT
 AVAILABLE ON THE CLIENTS
 COMPUTER
- FLASH CANNOT EMBEDD

HTML

- THE WEB FILE FORMAT
- ALL BROWSERS SUPPORT IT
 - THEY ARE OPTIMIZED FOR THIS

- EACH PAGE IS SEPARATE
 - SHORTER LOAD TIMES PER PAGE
- SIMPLE TO INTERFACE
 WITH OTHER WEB SITES
 AND WEB APPLICATIONS
- FLASH AND OTHER MEDIA
 CAN BE EMBEDDED

SO, LETS BUILD A BRIDGE!

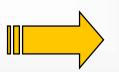


OBJECTIVES:

- DESIGNER CAN STAY WITH THE TOOLS HE KNOWS WELL
- NO NEED TO LEARN HTML OR CSS
- EXPORT OF DESIGNER DOCUMENTS TO HTML FORMAT

LIKE THIS!







HOW DID VISUALWORKS HELP US?



BASED ON EXPORTS OF INDESIGN CS4

- WE USED THE XML FRAMEWORKS, AND BUILD DOMAIN OBJECTS FOR EACH INDESIGN-PAGE
- VARIOUS IMAGE OPERATIONS ARE DONE USING AN EXTERNAL LIBRARY TO CREATE PNG FILES
- WITH SECRETE PROVIDING A COMPLETE HTML OBJECT MODEL, WE WERE ABLE TO BUILD A SEABREEZE PAGE FOR EACH INDESIGN PAGE
- THE FIRST PROTOTYPE WAS SHOWN TO A CUSTOMER
 AFTER ABOUT TWO WEEKS

IMAGE PROCESSING I



WE STARTED USING INKSCAPE, AN SVG BASED VECTOR GRAPHICS APPLICATION

- CALLED FROM THE COMMAND LINE
- AVAILABLE ON ALL PLATFORMS (WIN, MAC, LINUX)
- INKSCAPE CONVERTS SVG INTO PNG FILES
- http://www.inkscape.org/

IMAGE PROCESSING II



THIS APPROACH WAS VERY EXPENSIVE

- STARTING UP INKSCAPE 100 TO 1000 TIMES FOR A CONVERSION TOOK TOO LONG
- THE COMMAND LINE CALL DID NOT ALLOW US TO RE-USE A RUNNING INKSCAPE

AND INKSCAPE 0.46 CREATED WRONG IMAGES IN CERTAIN COMPLEX TRANSPARENCY SITUATIONS

IMAGE PROCESSING III



AN ALTERNATIVE WAS BATIK, A JAVA SVG TOOLKIT

- WE USED JNIPORT BY CHRIS UPPALL AND
 JOACHIM GEIDEL TO CALL IT FROM VISUALWORKS
- THE PERFORMANCE IMPROVED DRAMATICALLY
 - JAVA STARTS UP JUST ONCE,
 - SUBSEQUENT CALLS ARE JUST VERY FAST
- ALSO AVAILABLE ON ALL PLATFORMS
- http://xmlgraphics.apache.org/batik/

TO HAVE OR NOT TO HAVE



A DESIGNER USES FONTS TO ATTRACT ATTENTION FONTS ARE KEY TO HIS WORK HTML DOES NOT ALLOW TO MAKE USE OF FONTS RELIABLY

- IF A FONT IS MISSING ON THE CLIENT MACHINE, THE TEXT WILL BE DISPLAYED A DEFAULT ONE, LIKE Times, Courier or Helvetica

HOW CAN WE HELP?

DISPLAY OF TEXT



EXPORT TEXT AS VECTOR PATHS

- THIS WAY, THE FONT IS USED ON THE DESIGNERS
 COMPUTER
- THE CLIENT DOESN'T KNOW ABOUT THE FONT AT ALL

HOWEVER, TEXT EXPORTED THIS WAY WILL BECOME A PNG IMAGE IN THE WEB

- WE ARE ABLE TO ATTACH THE ORIGINAL TEXT TO THE PAGE, BUT IT IS NOT THE SAME
- THE USER HAS THE CHOICE HERE:
 - CONTENT OR DESIGN

THE PROTOTYPE



A WEB APPLICATION WRITTEN IN SEABREEZE OUR IDEA WAS TO DEPLOY THE CONVERTER AS A WEB BASED SERVICE

- PAY-PER-CONVERSION
- PAY-PER-CONVERTED PAGE
- PAY-PER PROJECT

BUT USERS WANTED A 'REAL' APPLICATION, OR EVEN AN INDESIGN PLUG-IN

Now, LETS BUILD A PRODUCT



FROM AN ENGINEERING POINT OF VIEW

'We are finished, we can do it!'

FROM A CUSTOMER POINT OF VIEW, THE SOLUTION OF THE CONVERTER AS A WEB SERVICE WAS NOT ACCEPTABLE!

- NO PLATFORM INTEGRATION
- No integration into InDesign
- No internationalization

A STANDALONE MACOSX APPLICATION IS THE NEXT GOAL

- Designers love the Mac
- AND THE SIMPICITY OF USAGE

AND SO, WE ARE IN THE PROCESS OF



PREPARING A MACOSX APPLICATION

- INTERFACE TO THE APPLICATION MENU
- SUPPORT THE PLATFORM HELP SYSTEM
- SUPPORT DRAG&DROP OF FILES
- OPEN THE BROWSER ON THE RESULTING HTML
 PAGES
- INVENTING ICONS AND HERALD SCREENS
- WRITING MARKETING MATERIAL
- FIND A PRICING MODEL

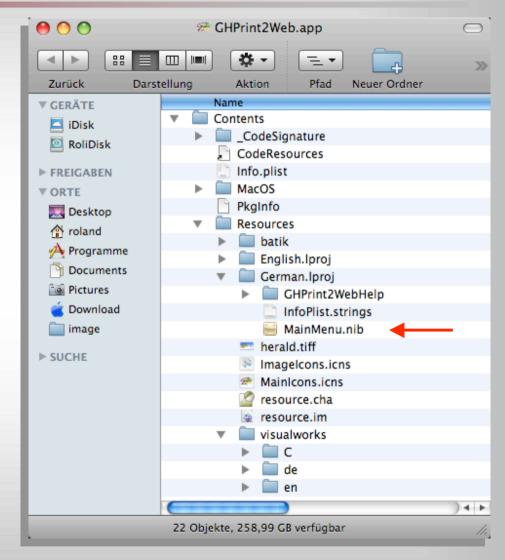
- ...

INTERFACE TO THE MAC-MENU



AND MODIFY THE ORIGINAL
MainMenu.nib Inside the
visual.app/Contents/Resources
FOLDER, AND PUT
TRANSLATED VERSIONS INTO
THE LANGUAGE PROJECT
FOLDERS

USE UNIQUE MENUITEM-IDS
BUT DO NOT CHANGE THE
EXISTING ONES!



TWO FACETS OF INTERNATIONALIZATION

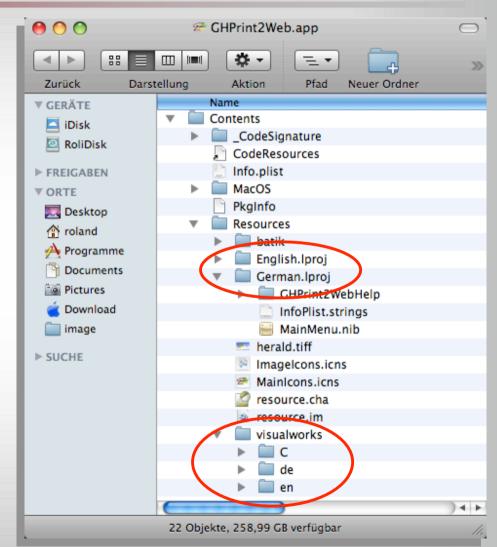


THE MAC HAS ONE FOR RESOURCES

APPLE-HELP IS
 ORGANIZED THIS WAY

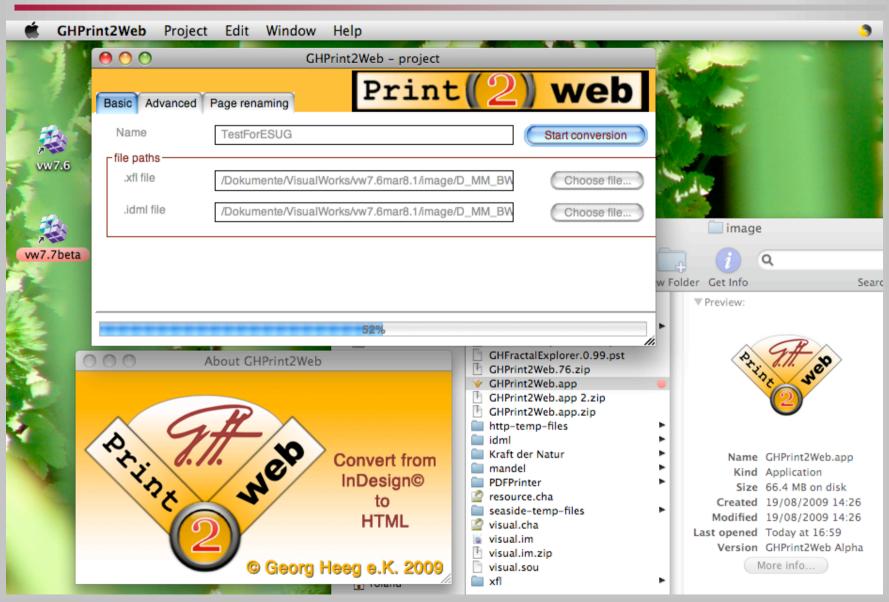
AND VISUALWORKS HAS ANOTHER ONE FOR MessageCatalogs

- UIS BASED ON
USErMessages CAN USE
THEM, THE INTERFACE TO
THE LOCATION INSIDE
THE .APP-FOLDER IS VIA
MANUAL MODIFICATIONS



IT CURRENTLY LOOKS LIKE THIS





WE ARE STILL NOT FINISHED



BUT WE HAVE HIGH HOPES!

THE PREPARATION OF THE PRODUCT TOOK LONGER
THAN THE SOLUTION OF THE PROBLEM
AND THE NAME WILL BE: GHPrint2Web



DESIGNING FOR THE WEB!



