

Introduction



- · Using T_EX and friends beyond the academic scope is not unusual
- · The literature is, however, a bit sparse when covering such scenarios

Introduction

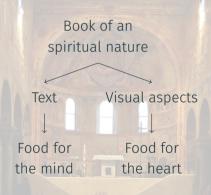
Earlier this year...

Cereda, Paulo R. M. (2020). *T_EX in church: a typographical adventure*. TUGboat, 42 (2), pp. 168–170.

- TEX for producing material for masses and church-related activities
- Two topics were covered: songsheets and song bookles

Books

Design and content are not dissociated when reading a book!



Book projects



- · Attention to paper quality, cover artwork and typographical elements
- · A good book project offers a very positive and pleasant experience
- · Authoritative impact: mind, heart and soul are invited to harmony

My first project in 2015



- Typeset a small songbook for our parish, with a circulation of 200 copies
- I had to design everything from ground up, from cover to internal elements

My first project in 2015









- · 400 songs included in the book without going over 100 pages total
- Text had to be readable by people in a comprehensive age range
- I used memoir for class and multicol and tcolorbox for packages

My first project in 2015

- Inclusion of \textls alongside with \scshape
- Words of the Consecration in the Eucharistic Prayers

- \textls{\scshape Hoc est enim
- Corpus meum.

My own songbook in 2018









- · 900 songs included in 160 pages total (no space constraints)
- · I used memoir for class and multicol and fontspec for packages
- · My first project using X∃KTEX and system fonts (Karol and Myriad Pro)

My own songbook in 2018



- I used imakeidx for song indexing
- · Songs had to be referenced by their numbers

My own songbook in 2018

```
\patchcmd{\@wrindex}{\thepage}
{\thesongscounter}{}{}%
\AtBeginDocument{%
 \patchcmd{\imki@putindex}{\immediate}
    {\ifimki@disableautomatic\else\immediate}
    1111%
  \patchcmd{\imki@putindex}{\endcsname}
   {\endcsname\fi}{}{}
```

Another songbook in 2019









- · Songsheets from the Taizé community compiled into a songbook
- I used memoir for class and multicol and fontspec for packages
- · Songsheets were included as images (I had to calculate box widths)

Paper size

- Decisions were result of years of experimentation
- · A4 was always the norm regarding paper size
- Uncomfortable and clumsy to hold during masses
- The larger the paper, the quicker it would damage

Paper size









- · I decided to try A5 for a change: people were reluctant!
- There is a lot of potential on using A5 as paper size
- · Saving trees: I could print two A5 pages in one A4 page

Paper size

- The pdfpages package provides support for booklets
- I could print and fold A4 sheets without the need of cutting

```
\includepdf[pages={4,1,2,3},
```

2

nup=2x1]{booklet}



- · Fonts do play an important role during production
- Impression of credibility and assurance (or lack thereof)
- I still favour the use of serif fonts in printed material

Fonts How do I choose a font?



- · I always need to know the target public
- · Goal: enhance their reading experience



Case study: preparing an order of mass



- · I need to ensure the text is readable
- · Rounder and wider fonts (e.g, Bookman-based typefaces)
- Use of microtype for character protrusion and font expansion



- The church building does not provide natural light
- Font has to be spotted in a low light environment
- · Rounder and wider fonts are readable at smaller sizes



- · Paper size and the area available for content
- Handling text alignment and hyphenation rules
- · Balance between good typography and readability



- · Discreet use of bold, italics and other styles
- The human eye is very receptive to differences
- Too much emphasis could distract the reader

Ciao, mi chiamo OpenDyslexic!

- · Created to increase readability for readers with dyslexia
- · Letters have heavy weighted bottoms to indicate direction
- · Unique shapes can prevent confusion (flipping and swapping)

Ciao, mi chiamo Luciole!

- Developed explicitly for visually impaired people
- · The font font adheres to several design criteria
- · Good reading experience for the visually impaired



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- · I decided to experiment minimalist designs due to constraints
- · Smaller titles and graphical elements unobtrusively disposed
- · I also refrained myself from using too much colour (if any)









- The layout itself could benefit from the use of text columns
- · Interesting approach for taking advantage of the space available







- · For smaller font sizes, three columns is a sensible approach
- · For larger fonts or for certain scenarios, two columns is the norm

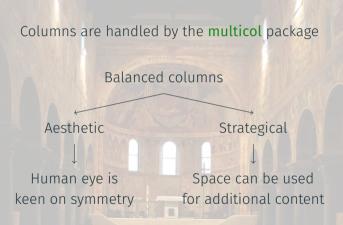


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Proof 1

Proof 2

- It is very useful to prepare document proofs!
- · Everything is put under scrutiny, from text to printing
- · The feedback does not need to be of a technical nature



Roman Canon

- Roman Canon (or Prayer I) typeset with Lua La Lilypond
- The lyluatex package manages the inclusion of musical scores

\lilypondfile{sheets/amen.ly}

Roman Canon

Coraciles as also

O nosso coração está em Perso É nosse dever e nossa salvaçõe.

Prefixio priprio do dia. Osotr assessmente o ariebrano.

Santo, Santa Santo, Sankor Dana da universal di ola e a terra mariamana a santa elitria. Houses are abured Bendito o que vem em nome de Senhori Hesses nas abures! Pai de misericândia, a quem sobren nouses louveres, nás vas pedimos por Jesus Cristo, vesso Filho e

اعزا أزار رأام كامرة وهج Abence, at nessa ofe-renda, 6 Se - short

Nás as oferocerous pelo vonas Igreio santa e catóficio concodei-lhe par e protecio, uninde-a nora sò

ا، اَلَّ الْالْ لَا الْالْالِ الْلَّالِ الْلَّالِ الْلَّالِيَةِ الْمُعْرِقِينَ الْمُعْرِقِينَ الْمُعْرِقِينَ ا Conservati a vessa Igraria sempen uni - da!

Lembrai-ves, é Pai, des vesses filhos e filhas (NPL) e de todos os que circundara este altar, dos queis

ا الرازار كالكراد فيها Lembrat one 4 Part despressos 6 - Deed

ا ، زَارُ زَارِ رَّا مِ صُامِرٍ بِيهِ ﴾ Em corrushito com toda o Irreio asus es. ta . med

Vigilia Fescal and a 2º Domingo da Féscas

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No police are more in our extremest of extremest or the extreme police of these or offices or the A fini day extreme

Do mesmo modo, ao fim-da ceia, ele tomos o cifice em suas rados, dos graças poramente e o des a seus

crus a resources cha no la crus a resources chel Odebrando, maio, a resembria da maiodo da sessas Filho, da sua ressurresida dentre as recentos e aleriasa

ا ، رَارَ رَارِ رَارِ رَارِ رَارِ رَارِ اللهِ اللهِ Brooker, 4 Souther a nesse ofer-tal

A B⁷ E A E ا ، زُارُ زُارِ رَامُ اللهُ اللهِ Recebei, ó Benhor, a nossa afer-tal

Lembrai -ves, o Pai, dos vesses filhas e filhas (N.N.) que portirom desta vida, marcados com o sinal da fe. الأزازات خرات رابيسي

Lembrai -vos, é Pai, dos vossos fi - Ibos' Extedos não nacadores, que confluence sa sous insenso misoricidado, concedei, año nor nomos máritos. n. s homo nec, perantere, que contraren na votas amenta minerarietas, concuento, não por tensas entratos, mas por venas bordade, o convivir dos apóstolos o máximos. João Barista e Estrado, Marias e Barrado, Consicio, Alexander, Marcellino e Federa Pedraldade e Propinso. Aquanda e Luxio, Indo. Cervilia, Amanda islo e

ا براز زار رام گام طام تُهِ 44

A minut A manut A manut A manut A manut A manut A

Monthly bulletin









- · I write and typeset the monthly bulletin for the liturgy pastoral
- · News, reports, recommendations, puzzles and recreational activities
- The material is typeset in A5 and distributed at the end of the masses

Monthly bulletin

- · I use the soup package for generating an alphabet soup
- · A type of puzzle consisting of a grid of letters for word search

- 1 \begin{Alphabetsoup}[6][6][\sffamily]
- 2 \hideinsoup{1}{1}{down}{G,U,I,T}
 - hideinsoup{1}{3}{right}{I,T,A,L,I,A}
- 4 \hideinsoup{1}{6}{upright}{C,A,R,L,A}
- 5 \end{Alphabetsoup}

Monthly bulletin



Holy Hour before the Blessed Sacrament









- · A script of prayers for the Holy Hour before the Blessed Sacrament
- The project had sections with songs and prayers arranged together
- The tcolorbox package was used to generate all the song boxes

Holy Hour before the Blessed Sacrament

- The song box has a music note icon in the upper right corner
- · Done by exploiting the overlay key in the tcolorbox environment

```
1 \newcommand{\musicnote}{\begin{scope}[
2    shift={([xshift=-.5em, yshift=-.1em]
3    frame.north east)}, scale=1 ] \node[ circle,
4    fill=white, draw=black, inner sep=1pt ]
5    {\includegraphics{note}}; \end{scope}}
```

Activities and events for the Holy Week 2019



- · Flyer for distribution at the end of the masses during Lent
- The activities of each day are grouped into tcolorbox boxes
- · Each activity features an analog clock indicating the time slot

Activities and events for the Holy Week 2019

- · Inclusion of a background image (simple pattern) for each group
- · Opacity of such images should not compromise the text readability

```
underlay={\begin{tcbclipinterior}
  \node[anchor=south] at
  ([yshift=-1opt]interior.south)
  {\includegraphics[width=\tcb@width,
  keepaspectratio]{assets/bloom.png}};
  \end{tcbclipinterior}}
```

Remarks

- · The presented materials do not contain any complex code at all
- · Minimalist layouts inspired by good, existing typographical works

The ultimate goal

Contribute, through typesetting, to the complete fulfilment of a person's relationship with God



- · On October 2020 in Assisi, Pope Francis signed Fratelli tutti
- · An encyclical letter, calling for more human fraternity and solidarity
- · The complete text is freely available in the Vatican website for browsing

- The Holy See provides a PDF version of such encyclical letter
- We can infer that the file was automatically generated (PDF metadata)
- · Other encyclicals from Pope Francis and his predecessors are available



La Santa Sede

LETTERA ENCICLICA
FRATELLI TUTTI
DEL SANTO PADRE
FRANCESCO
SULLA FRATERNITÀ
E L'AMICIZIA SOCIALE

1. «Fratelli tuttle: [1] scriveva San Francesco d'Assisi por rivolgeni a Intili fratelli e le sorelle e proporre loro une from di vita dat alsa pore di Vangelo. Tai suoi consigli vogle oriednoziare nuo, nel quale invita a un amore che va al di là delle barriere della geografia e dello spazio. Qui egli dichiare beato colui che ama l'altro «quando fosse loritano da lui, quanto se fosse accanto a lui. 2] Con queste poche e sempici praroche la spiegado fesser, quanto se fosse accanto a lui. 2] Con queste poche e sempici praroche la spiegado fesser, quanto se fosse accanto a lui. 2] Con queste poche e sempici praroche la spiegado fesser, quanto se fosse accanto a lui della violanza fisica, al di là della violanza fisica, al di là della lugo del mondo dove è nata o dove a bita.

Original encyclical letter

- The original document uses sans serif fonts (Arial and Helvetica)
- I will rely on serif fonts instead and use just one typeface (Karol)

- 1 \usepackage{fontspec}
- 2 \usepackage{microtype}
- 3
- 4 \setmainfont[Ligatures=TeX]{Karol}

- I removed any colour from the document (black and white approach)
- The Papal Insignia was desaturated to match the document style



- · The original document margins were too narrow, so I made them wider
- · I reduced the font size, kept the default line spacing and text alignment

- \documentclass[a4paper,
- 2 12pt, article]{memoir}

- Excerpts of text in all capitals were rewritten to match sentence case
- Added some occurrences of small capitals as to emphasise key words
- · Bold styles were removed, italics and emphasis were kept to a minimum

1 \scshape La Santa Sede

- · The separator rule in the header was made thinner
- · A small ornament glyph was added in the centre

- 1 \newcommand{\ornamentline}{{%
- 2 \parindent=opt
- 3 \vspace{-1ex}\hrulefill%
- 4 \hspace{0.2cm}\raisebox{-1.5ex}
- 5 {\decoone}\hspace{0.2cm}\hrulefill}}

- · An initial was included in the first paragraph of the encyclical letter
- I used the lettrine package with Kramer Regular as decorative font

```
1 \lettrine[nindent=2pt]{\initfamily F}
```

- {ratelli Tutti}\autocite{ref:1},
- 3 scriveva...

- · Each paragraph of the encyclical letter is explicitly numbered
- I included the corresponding number as a discreet marginal note
- · A silcrow prefixed each number as to indicate the reference mark

- \newcommand{\parmark}[1]{%
- 2 \marginpar{\hspace{2em}\S#1}}

- The original citation style was replaced to look like footnotes
- · The bibliography is printed at the end of the document, as usual

- % Some suggestions...
- \usepackage[style=verbose-ibid,
- 3 backend=bibtex]{biblatex}



La Santa Sede

LETTERA ENCICLICA
FRATELLI TUTTI
DEL SANTO PADRE
FRANCESCO
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1. «Fraidit Ittill» [1] soriveva San Francesco d'Assisi por rivolgenia i utili i fraidii e le sorelle e proporre loro una forma di vita dal sapore di Vangelo. Tra i suoi consigli vogilo evidenziarne uno, nel quale invita a un amore che vasi di ilà delle barriere della geografia e dello spazzo. Qui egili dichiara beato colui che ama l'altro «quando isses iontano da lui, quanto se fosse accanto a lui-si [2] Con questo poche e semplei pirarone ha spiegato fissenziale di una fraternità aperta, fore permette di riconoscere, apprezzare e amare ogni persona al di là della vicinanza fisica, al di là della voci da contro deve ha tasa.



La Santa Sede

Lettera Enciclica

Fratelli Tutti

del Santo Padre Francesco sulla fraternità e l'amicizia sociale

EMPACEAU TUTTS, scrieves and Francesco d'Assist per rivolgersi a tutti fraelli e le portile e properer devo una forma di visid a sispene di vuggio, tra i usal consigli vogli es odentairne una, nel quale invita a un amore che va al di la delle burriere della geografia e della spassi. Qui gil dichiari basco colsi che ama la libra caquado fosse lottano da lui, quatro se fosse accanto a lui-l'. Con queste poche e semplei; parole ha spigagoto fessemiale di una faterinità apperen, che permente di cinconocce, apprezzare e amure cogni persona al di la della vicinanza fisica, al di la del loogo del mondo dove è tutta come abili:

Queno Santo dell'amore finterno, della semplicità e della gioia, che mi ha lipitato a civirver l'Enciclia, Landavi si', mourament mi motiva a dell'ace questa moura Encica la lifa tamini a all'amiccia sociale. Infanti san Francesco, che si sentio fintello del sole, del mare e del vento, sapeva di essere ancora più unito a quelli che emo della stessa came. Dapportutto eminió pace e camminò accanto ai poveri, agli abbandonati, ai motta a dis caratti, adei ultimi.

Original encyclical letter

My proposed version

Remarks



- · The proposed minimalist design adds a layer of fine crafting
- · Subjective encouragement and motivation for potential readers



- · A good design helps people focus on the actual message
- · Old, ubiquitous maxim in design: good typography is invisible





- Good typography is indeed invisible and silent
- · However, it is by no means imperceptible
- · Noticing it brings great joy, gratification



Good typography is like red wine...



Vino rosso fa buon sangue!

Pace e bene!

Pax et bonum!



Paulo Cereda