

Playing From a Tablet

A Presentation for the
Tacoma Chapter of the
American Guild of Organists
By Thomas B. Clark



Educational Objectives

- To understand the advantages digital music has over paper music
- To understand how to create digital music
- To understand the concepts of using a music reader application
- To gain a working knowledge of the steps involved in playing from a tablet
 - Creation or procurement of PDF
 - Adding the PDF to a music reader
 - Playing from the music reader

Approach and Focus

- Multiple platforms exist (iOS, Android, Windows)
 - You can use any of them
 - This talk will focus on Android running on a Chromebook for examples
- Principles discussed should apply to any well-designed music reader
 - Not possible to give examples in more than one
 - I've chosen MobileSheets because it's feature-rich and available on all three platforms

Please Hold Questions



- Would you interrupt the preacher?

Why use a Tablet for Playing Music?

- Convenience
- Flexible organization of music
- Flexible marking of music
- Hands-free, flexible page turns
- Enhanced readability
- Low cost
- Easily backed up
- Environmentally friendly

Can't Find That Volume?



- Know you put it somewhere?
- Using a tablet?
 - Check your index or search

Can't Carry All of Your Music?

- Paper music is heavy
 - Spend more time at the gym
- Tablet music
 - Carry all of it everywhere—no gym needed



Music Gone Missing?



- Paper music
 - Victim of Paper Music Thief
 - Burned, flooded
 - Gone to music heaven
 - Out of luck
- Tablet with Backups
 - Overnight new tablet
 - Restore music
 - Including registrations, fingering, etc

Music Getting Expensive?



- Paper Music
 - Borrow from the collection basket
- Tablet Music
 - Scan it
 - Get it online
 - The best music is out of copyright anyway

Can't Find A Page Turner?



- Paper Music
 - A reliable page turner can be hard to find
- Tablet
 - You don't need a page turner

One Advantage of Paper

- You don't have to charge paper music
- Never see that dreaded red battery symbol



Minimum Equipment

- To play from a PDF that you already have
 - A tablet
 - A music reader program
- To scan your own PDF files
 - A flatbed scanner (or a library card)
- To annotate your music
 - A stylus



Platform Considerations

- Multiple tablet styles
 - Plain old tablet
 - Tablet with optional detachable keyboard
 - Convertible (also known as 3-in-1 or 2-in-1)
 - Keyboard can fold to act as cover, laptop, stand or tablet
- Multiple tablet operating systems
 - iPad (IOS) (\$\$\$)
 - Chromebook (\$\$ - \$\$\$)
 - Windows tablet (\$\$)
 - Android tablet (\$)



Software Considerations (not exhaustive)

- IOS
 - ForScore (\$19.99)
 - Newzik (\$24.99/once - \$49.99/year)
 - “Essentials” version has limits
 - Piascore (free with in-app purchases)
 - MobileSheets (\$15.99/once)
- Windows
 - EnScore (free)
 - MusicReader (\$15/year)
 - MobileSheets (\$15.99/once)
- Android
 - MobileSheets (\$15.99/once)

My Hardware Solution

- Acer Chromebook Spin 713
 - 13.5-inch touch screen with 3:2 aspect ratio
 - Convertible between notebook and tablet form
- Generic USI stylus (Universal Stylus Initiative)
- CanoScan LiDE 400 flatbed scanner



Chromebook

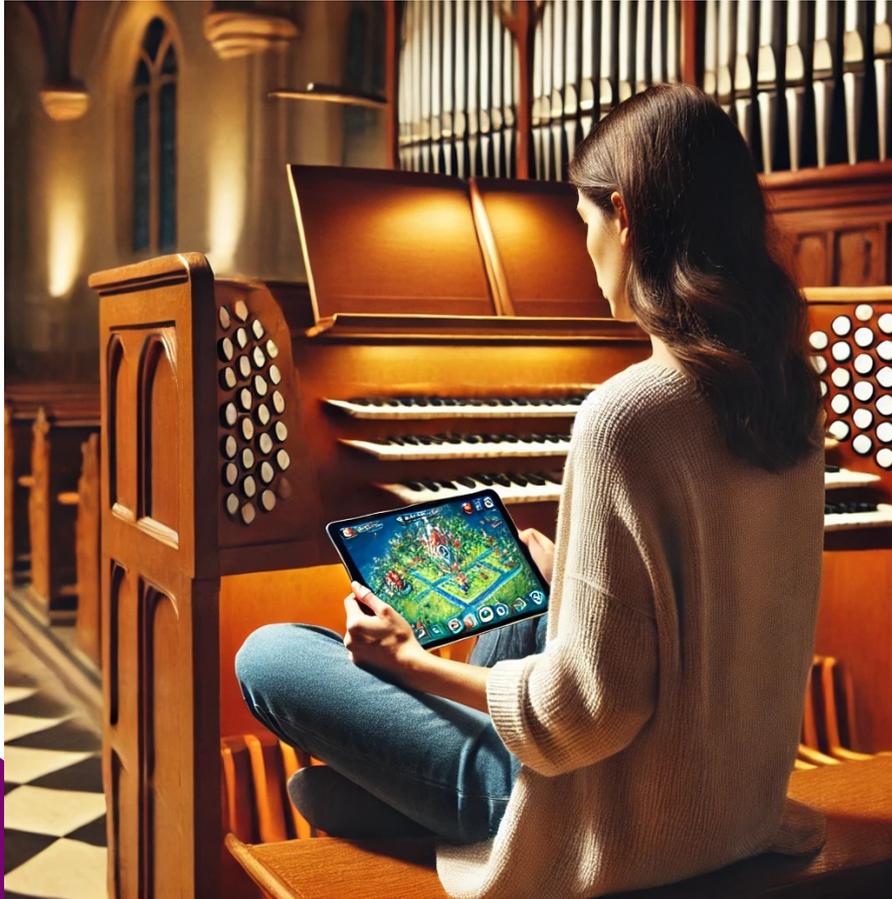
- Portable computer running ChromeOS (by Google)
- Based on using the Chrome browser for almost everything
- Most come with an Android subsystem
 - Google Play store
 - Add almost any Android app
- Many can run a Linux subsystem
 - Add any Linux app
- Cannot run Windows apps without tricks

Chromebook is Flexible

- Not limited to single purpose
- Use it for
 - Email
 - Writing
 - Watching television
 - Exercise workouts
 - Almost anything you do on your phone
 - Linux apps not available for Windows
 - Such as Scantailor



Leverage Chromebook Flexibility



- Reduce wasted time
- Maximize the benefit of the sermon
- Get through the Easter Vigil

Scanner

- Minimum requirements
 - Flatbed
 - 300 dots per inch but 600 dpi is desirable
 - Output uncompressed file such as TIFF
- Your phone's scanner app won't be sufficient
- Handheld document scanner can work in very steady hands



Stylus

- If you ever use a pencil now, you will need a stylus
- Stylus has to be compatible with your tablet
 - Most new tablets can use a standard USI stylus
- Rechargeable stylus is most convenient
 - Tablet will tell you when battery is low

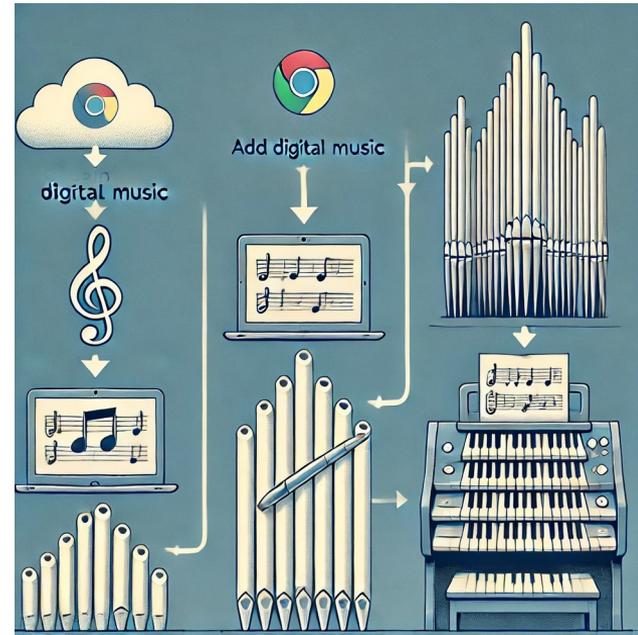


Most Economical Hardware Solution

- Generic android 14-inch tablet, approximately \$250
 - Don't go below mid-range
 - Recognizing gestures requires camera and significant processing power
 - Avoid Android Go operating system
 - Typical of low-end devices
 - Doesn't get updates
 - Doesn't have full programming interface
- Generic flatbed scanner, less than \$100
 - Or scan at the library
- Generic USI stylus, approximately \$30

Playing from a Tablet: The Process

- Obtain or create digital music
- Add digital music to music reader
- Annotate digital music as needed
- Play from digital music



Georg Friedrich Kauffmann

- 1679 – 1735
- Friend of the Bach family
- Competitor of J. S. Bach
 - Numerous similarities in their music
 - More likely to include registration instructions



Obtaining Scores

- Harmonische Seelenlust by Georg Kauffmann
 - Hint: You may need this for an upcoming program
- Search on IMSLP.org
 - Pay attention to size, dpi
 - Check quality
- Most PDFs will work
 - Quality varies

Scores (5)

Complete Score PDF scanned by D-B Fynnjamin (2022/3/10) 

#769320 - 182.66MB, 131 pp. -  (0) - 39x 

Copyist Christoph Sasse (1721–1794)
Publisher Info. Manuscript, 1735.
Copyright Public Domain [tag/del]
Misc. Notes D-B Mus.ms. 40037
RISM 467301278



Complete Score PDF scanned by D-B Fynnjamin (2017/4/28) 

#469017 - 33.48MB, 130 pp. -  (4) - 410x 

Engraver J. G. Krüchner
Publisher Info. Leipzig: Boetii seel. Tochter, 1733.
Copyright Public Domain [tag/del]
Purchase  Printed copy of this file (UK & EU)



Complete Score (EU) PDF scanned by Unknown Elizabeth-tom (2022/7/22) 

#800180 - 24.18MB, 151 pp. -  (0) - 1582x 

Editor Pierre Pidoux (1905–2001)
Publisher Info. Kassel: Bärenreiter, 1967. Plate BA 1924.

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Misc. Notes scanned at 600 dpi

Kauffmann Manuscript

Gedact 8. f. u. Prini. 4. f. inglaifon dat rolla Maand. 3.

The image shows a page of handwritten musical notation on aged paper. At the top, there is a title in German: "Gedact 8. f. u. Prini. 4. f. inglaifon dat rolla Maand." followed by the number "3." in the right margin. The notation is organized into three systems. The first system consists of two staves: the upper staff has a treble clef and the lower staff has a bass clef. The second system is labeled "Choral" on the left and also consists of two staves with treble and bass clefs. The third system also consists of two staves with treble and bass clefs. The music is written in a cursive hand and includes various notes, rests, and ornaments. There are some annotations in the margins, such as "f." and "u." above the first system, and "66" and "7 42" above the second system. The paper shows signs of age, including some staining and discoloration.

Kauffmann Urtext

10

4. Allein Gott in der Höh' sei Ehr

Choral in Ped: PosaunBaß, Violon
Man: Principal 8', Octav 4', Sesquialtera

Un poco vivace

The first system of the musical score consists of three staves. The top staff is the vocal line in G major, 3/8 time, starting with a quarter rest followed by a quarter note G4, then eighth notes A4-B4, C5-B4, A4-G4, and F4. The middle staff is the piano accompaniment, starting with a quarter rest, then eighth notes G3-A3, B3-A3, G3-F3, and E3. The bottom staff is the basso continuo line, starting with a quarter rest, then a half note G2, and a half note F2.

The second system continues the musical score. The vocal line has eighth notes G4-A4, B4-A4, G4-F4, and E4. The piano accompaniment has eighth notes G3-A3, B3-A3, G3-F3, and E3. The basso continuo line has a half note G2 and a half note F2.

The third system concludes the musical score. The vocal line has a quarter note G4, then eighth notes A4-B4, C5-B4, A4-G4, and F4. The piano accompaniment has eighth notes G3-A3, B3-A3, G3-F3, and E3. The basso continuo line has a half note G2 and a half note F2. The system ends with a double bar line and repeat signs.

Scanning a Score – The Easy Way

- Use software that came with the scanner
- Use clean copy of music
 - Erase your markings before scanning or borrow a different one
 - You will eventually regret it if you don't
- Create multi-page PDF
- Use resolution of at least 300 dpi
- Save to drive accessible to Chromebook or tablet
 - Google Drive works well for Chromebook
 - Chromebook can also mount non-native filesystems
 - Dropbox
 - SMB (share from Windows computer)

Scanning – Multiple Steps

- A musical assembly line
 - Scan individual pages
 - Edit individual pages
 - Combine into PDF



Professional Grade Software

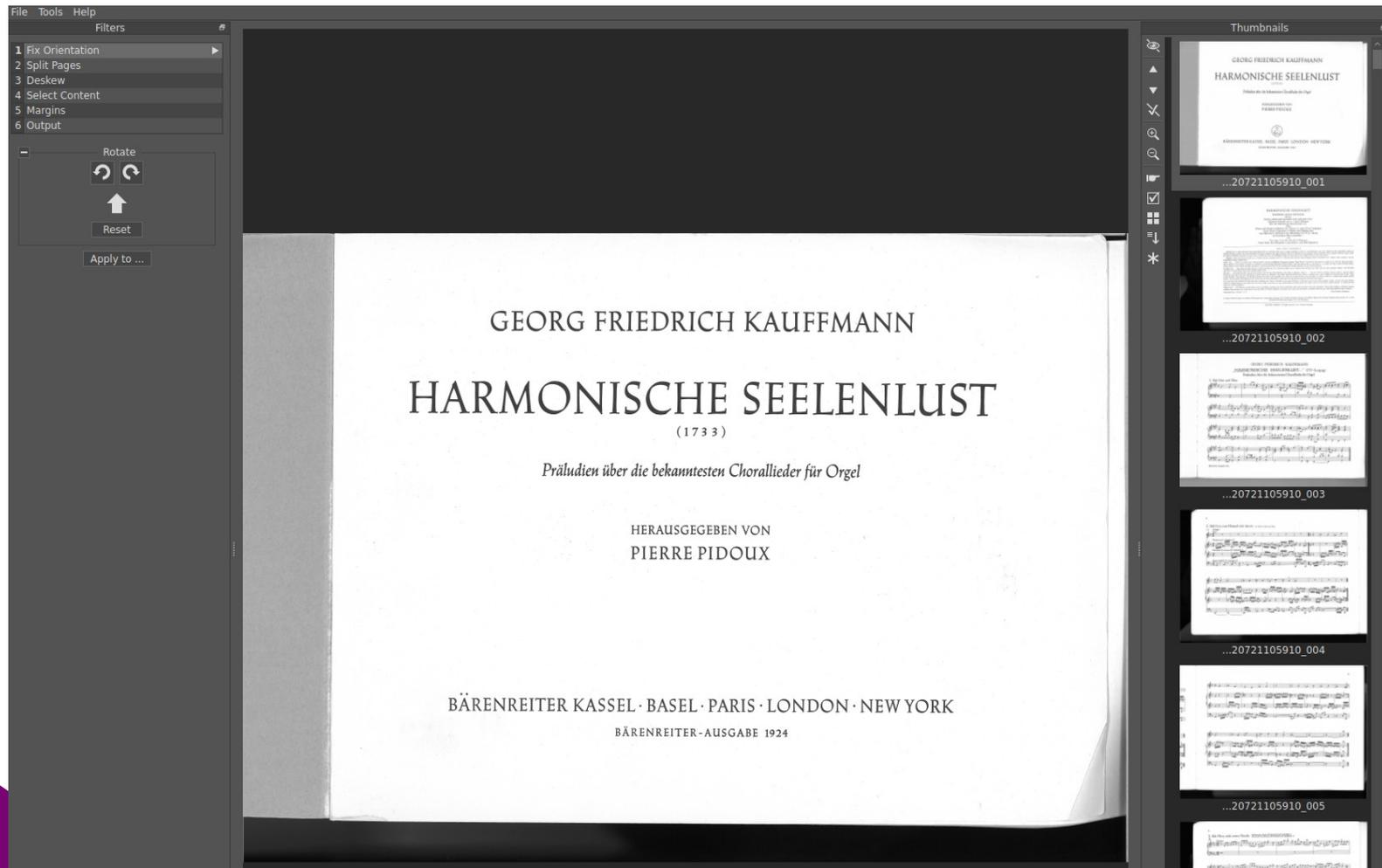
- Not necessarily expensive, sometimes free
 - My choices are entirely Linux-based
 - Similar software exists for Mac and Windows
- Vuescan
 - Scan individual pages at 600 dpi to produce individual TIFF files
- Scantailor
 - Edit each page for skew and other details, then export batch of TIFF files with common image size and margins
- PDFStudio
 - Combine TIFF files into PDF document

Vuescan – Input and Output Settings

Options:	Professional
Task:	Scan to file
Source:	LiDE 400
Mode:	Flatbed
Media:	Color
Media size:	8.5 x 11 in.
Bits per pixel:	24 bit RGB
Batch scan:	Auto
Scan from preview:	<input type="checkbox"/>
Preview resolution:	Auto
Scan resolution:	600 dpi
Auto flip:	<input type="checkbox"/>
Rotation:	None
Auto skew:	<input checked="" type="checkbox"/>

TIFF file:	<input checked="" type="checkbox"/>
TIFF file name:	001+.tif
TIFF size reduction:	1
TIFF multi page:	Off
TIFF file type:	16 bit Gray
TIFF compression:	Off
TIFF DNG format:	<input type="checkbox"/>
TIFF profile:	<input type="checkbox"/>
JPEG file:	<input type="checkbox"/>
PDF file:	<input type="checkbox"/>
OCR text file:	<input type="checkbox"/>
Index file:	<input type="checkbox"/>
Raw file:	<input type="checkbox"/>
Auto file name:	<input checked="" type="checkbox"/>
Printed size:	8.5 x 11 in.

Scantailor – Initial View



Scantailor Output

File Tools Help

Filters

- 1 Fix Orientation
- 2 Split Pages
- 3 Deskew
- 4 Select Content
- 5 Margins
- 6 Output

Output Resolution (DPI)
600
Change ...

Mode
Black and White

Options

- Fill offcut
- Fill margins
- Equalize illumination (B&W)
- Savitzky-Golay smoothing
- Morphological smoothing

Threshold
Method: Otsu
0
Thinner Thicker

Color operations

Color segmentation
R: 0 G: 0 B: 0
Reduce noise: 7
Posterize
Level: 4
Normalize
 Force b&w
Apply To ...

Despeckling
 Despeckle
Apply To ...

Processing
 Black on white mode
Apply To ...

Dewarping
Off
Change ...

Output
Picture Zones
Fill Zones
Dewarping
Despeckling

Thumbnails

GEORG FRIEDRICH KAUFFMANN
HARMONISCHE SEELENLUST
Präludien über die bekanntesten Chorallieder für Orgel
HERAUSGEGEBEN VON
PIERRE PIDOUX
BÄRENREITER KASSEL · BASEL · PARIS · LONDON · NEW YORK
BÄRENREITER · AUSGABE 1924

...20721105910_001

...20721105910_002

...20721105910_003

...20721105910_004

...20721105910_005

Otsu's Method

The algorithm exhaustively searches for the threshold that minimizes the intra-class variance, defined as a weighted sum of variances of the two classes:

$$\sigma_w^2(t) = \omega_0(t)\sigma_0^2(t) + \omega_1(t)\sigma_1^2(t)$$

Weights ω_0 and ω_1 are the probabilities of the two classes separated by a threshold t , and σ_0^2 and σ_1^2 are variances of these two classes.

The class probability $\omega_{\{0,1\}}(t)$ is computed from the L bins of the histogram:

$$\omega_0(t) = \sum_{i=0}^{t-1} p(i)$$

$$\omega_1(t) = \sum_{i=t}^{L-1} p(i)$$

Rehearsing Otsu's Method



PDFStudio Create PDF

Create PDF - From Multiple Files

Resize Pages

New Page

Page Size: No change

Portrait Landscape

Units: Inches

Width: 8.5 in

Height: 11 in

Current Page

Center

Scale to fit

Fit crop to page

Options

Add a bookmark for each merged document

Set page labels based on original file name

File List

Add Files Add Folder

Drag and drop files or folders into the File List

File name	File path	Size	Last Modified
-----------	-----------	------	---------------

Results

Open New Merged Document

Append To Current Document

Save As:

Passwords to try when opening documents

Password 1: Edit

Password 2: Edit

Password 3: Edit

Password 4: Edit

Start... Close

The Holy Spirits Tavern



MobileSheets Main Page

MobileSheets Main Page interface showing a list of genres and their counts.

Navigation tabs: Setlists, Pieces, **Genres (14)**, Bookmarks, Composers, Recent, Collections, Albums

Actions: SORT: A-Z, NEW, EDIT, IMPORT

Search: All Fields (Source: Any, Key: Any)

Filters: Collection: Any, Diff: Any, Genre: Any, Rating: Any

Genre	Count
A	
Anthem	9
B	
Bulletins	11
C	
Choral	1
H	
Harpichord	21
Hymn	363
Hymnal	15
I	
Index	2
Instrumental	18
O	
Organ	417
Other	0
P	
Piano	17
piano	1
S	

Vertical navigation: ? A B C H I O P S V

Mobile navigation icons: back, lock, mobile, filter, forward

Collections

Setlists	Pieces	Genres	Bookmarks	Composers	Recent	Collections (8)	Albums	SORT: A-Z	+	NEW	EDIT	IMPORT	:	
Search: All Fields <input type="text"/> X Source: Any <input type="text"/> Key: Any <input type="text"/> X														
Collection: Any <input type="text"/> Diff: Any <input type="text"/> Genre: Any <input type="text"/> Rating: Any <input type="text"/>    														
A ?														
Augsburg												37		A
B														
Bach-Gesellschaft Ausgabe												69		B
Barenreiter												12		D
D														
Durand (Faure)												4		O
L														
Leupold Foundation												11		P
O														
Outremontaises												11		S
P														
Peters												26		
S														
Schott												4		



Collections - Peters

Setlists Pieces Genres Bookmarks Composers Recent Collections (8) Albums SORT: A-Z NEW EDIT IMPORT

Search: All Fields Source: Any Key: Any

Collection: Any Diff: Any Genre: Any Rating: Any

Peters (26)

Load All

A

Ach Gott, vom Himmel sieh darein
Organ Peters 0:00

Acht kleine Praeludien und fugen (Bach Organ Works volume 8)
Johann Sebastian Bach Organ Peters 0:00

Alle Menschen Mussen Sterben (Bach Organ Works volume 5)
Johann Sebastian Bach Organ Peters 1:45

Aus tiefer Not schrei ich zu dir (Bach Organ Works volume 6)
Johann Sebastian Bach Organ Peters 6:44

B

Bach Organ Works volume 1
Johann Sebastian Bach Organ Peters 0:00

Bach Organ Works volume 2
Johann Sebastian Bach Organ Peters 0:00

Bach Organ Works volume 3
Johann Sebastian Bach Organ Peters 0:00

Bach Organ Works volume 4
Johann Sebastian Bach Organ Peters 0:00

Bach Organ Works volume 5
Johann Sebastian Bach Organ Peters 0:00

Bach Organ Works volume 6
Johann Sebastian Bach Organ Peters 0:00

? A B C D E F G H I J K L M N O P Q R S T U V W

← 🔒 📱 📶 →

MobileSheets Import Menu

The screenshot displays the MobileSheets application interface. At the top, there is a navigation bar with tabs for 'Setlists (15)', 'Pieces', 'Genres', 'Bookmarks', 'Composers', 'Recent', 'Collections', and 'Albums'. To the right of these tabs are buttons for 'SORT: A-Z', 'NEW', 'EDIT', and 'IMPORT'. Below the navigation bar is a search bar with the text 'Search: All Fields' and a search icon. Underneath the search bar are filters for 'Collection: Any', 'Diff: Any', 'Genre: Any', and 'Rating: Any'. The main content area shows a list of setlists, each with a letter (F, P, W) and a title with a duration in brackets. A dark overlay menu is open over the 'IMPORT' button, listing the following options: 'Local File', 'Dropbox', 'Google Drive', 'OneDrive', 'System File Browser', 'Batch Import', 'Batch Audio Import', and 'CSV or PDF Bookmarks'. At the bottom of the screen, there is a playback control bar with a play button, a lock icon, a mobile device icon, a volume icon, and a right arrow.

Letter	Title	Duration
F	FLC West Seattle Sep 15	[0:00]
P	Practice	[37:38]
W	Wesley Christmas Program 2022	[40:22]
W	Wesley Christmas Day 2024	[4:43]
W	Wesley Christmas Eve 2023	[9:32]
W	Wesley Christmas Program 2023	[43:17]
W	Wesley Christmas Program 2024	[56:35]
W	Wesley Corinne Memorial	[30:55]
W	Wesley Easter 3/31	[6:22]
W	Wesley Epiphany	[1:44]
W	Wesley Fall Recital	[24:33]
W	Wesley Hymn Festival Feb 2 2025	[3:00]
W	Wesley Hymn Festival Jan 5 2025	[5:22]
W	Wesley Lent Recital	[33:53]
W	Wesley Palm Sunday Recital	[46:53]

MobileSheets Import Hymn

Import Settings

Title: **Guess Title From Filename** ▾
ELW 316 Oh, Wondrous Image, Vision Fair

Automatically crop pages

Load song editor after import

Duplicate File Behavior: **Ignore Duplicate Files** ▾

Add songs to the following groups during import:

Setlists: ▾

Collections: ▾

Keys: **Harpichord** ▾

Artists: **Hymn** ▾

Composers: **Hymnal** ▾

Genres: **h** ▾

Albums: ▾

CANCEL OK

Piece Properties and Duration Menu

The screenshot displays a music management application interface. The main window is titled "Editing: Our Lord's Prayer" and has tabs for "Fields", "Files", "Audio", and "MIDI". The "Fields" tab is active, showing a list of properties for the piece. A modal dialog titled "Enter the duration" is open, allowing the user to input the duration in hours, minutes, and seconds.

Fields Tab Properties:

- Collections: [Dropdown]
- Keys: [Dropdown]
- Artists: [Dropdown]
- Composers: R Byard Fritts X
- Genres: Vocal X
- Albums: [Text]
- Years: [Text]
- Sources: [Text]
- Repertoire: [Text]
- Signatures: [Text]
- Keywords: [Text]
- Custom: [Text]
- Difficulty: 1 [Dropdown]
- Tempos: 52 [Text]
- Duration: 1:30 [Text]

Enter the duration Dialog:

Hours	Minutes	Seconds
23	0	29
0	1	30
1	2	31

CANCEL OK

Search

- Search by
 - Name
 - Genre
 - Composer
 - Bookmark
 - Collection

The screenshot shows a music application interface with a search bar containing the text "liturgy". The search results are displayed in a list format, showing various liturgical settings. The interface includes a top navigation bar with tabs for "Setlists", "Pieces(13/943)", "Genres", "Bookmarks", "Composers", "Recent", "Collections", and "Albums". The search bar is located below the navigation bar, and the results are displayed in a list format. The search results are filtered by "All Fields" and "Source: Any". The results are sorted by "A-Z". The search results are displayed in a list format, showing various liturgical settings. The interface includes a top navigation bar with tabs for "Setlists", "Pieces(13/943)", "Genres", "Bookmarks", "Composers", "Recent", "Collections", and "Albums". The search bar is located below the navigation bar, and the results are displayed in a list format. The search results are filtered by "All Fields" and "Source: Any". The results are sorted by "A-Z".

Collection	Diff	Genre	Rating
D			
Dahl Liturgy accompaniment			
David Dahl	Service Music	0:00	
L			
LBW Liturgy Setting 2			
Service Music	0:00		
LBW Liturgy Setting 2 alleluia			
Service Music	0:00		
LBW Liturgy Setting 2 dismissal			
Service Music	0:00		
LBW Liturgy Setting 2 FLCWS greeting-gloria			
Service Music	0:00		
LBW Liturgy Setting 2 gospel acclamation			
Service Music	0:00		
LBW Liturgy Setting 2 great thanksgiving			
Service Music	0:00		
LBW Liturgy Setting 2 lamb of god			
Service Music	0:00		
LBW Liturgy Setting 2 offertory			
Service Music	0:00		
LBW Liturgy Setting 2 post sanctus			
Service Music	0:00		
LBW Liturgy Setting 2 post-communion canticle			
Service Music	0:00		

Menu Bars

← 📄 ✎ ✏

6. Canzona manualiter (Freie Orgelwerke Des norddeutschen Barocks) 1 / 3

25 15:26

6. CANZONA manualiter

Martin Radeck
(1623-1683)

5

10

15

20

Adagio 25 30

Print

Create Snippet

Find and Load Song

Start Scrolling

Scroll Settings

Show library window

Page: 518 / 570

☰ 📖 🖱️ 🖱️ ▶ ⚙️

Detailed description: The image shows a digital music score viewer interface. At the top, there is a navigation bar with a back arrow, a document icon, and two editing tools (pencil and eraser). The main title is '6. Canzona manualiter (Freie Orgelwerke Des norddeutschen Barocks)' with a page indicator '1 / 3'. Below this, the score page number '25' and a timestamp '15:26' are visible. The title '6. CANZONA manualiter' and the composer 'Martin Radeck (1623-1683)' are centered. The musical notation consists of two staves (treble and bass clef) with various notes, rests, and bar lines. Measure numbers 5, 10, 15, 20, 25, and 30 are marked. A 'Print' menu is open on the left side, listing options: 'Print', 'Create Snippet', 'Find and Load Song', 'Start Scrolling', 'Scroll Settings', and 'Show library window'. At the bottom, there is a 'Page: 518 / 570' indicator and a set of navigation icons including a dropdown arrow, document, scroll, list, zoom, and settings.

Page Menu

← 📄 ✎ ✂

6. Canzona manualiter (Freie Orgelwerke Des norddeutschen Barocks) 1 / 3

25 15:27

6. CANZONA manualiter

Martin Radeck
(1623?-1683?)

5 10 15 20 25 30

agio

Page: 518 / 570

- 📏 Crop
- 🔄 Rearrange pages
- 🕒 Clock Settings
- 🔄 Rotate
- 🔍 Sharpen Image
- 🔒 Orientation lock
- 📌 Show Annotations
- 🌙 Night Mode
- 🔍 Zoom/Pan Settings

🏠 📄 🔄 📏 ⚙️

Display Mode

The screenshot shows a music application interface with a sheet music score in the background. A central dialog box titled "Select Display Mode" is open, allowing the user to choose how the music is displayed. The background score is for "Wir glauben all' an einen Gott (Bach Organ Works volume 7)" and is on page 82. The score includes vocal lines (marked "a 5 voci") and organ accompaniment. The dialog box has the following settings:

- Tablet orientation:** Landscape
- Default Settings:**
 - Display mode: Single Page (selected)
 - Two Pages
- Song Settings:**
 - Half Page
 - Use default
 - Vertical Scrolling
- Global Settings (affects all songs/files):**
 - Display half-page in landscape orientation
 - Half-page turns in landscape orientation
 - Allow zoom out past 100%
 - Repeat mode
 - Page Color Tone: None
 - Page Alignment: Top

The bottom of the screen features a navigation bar with various icons for navigation and playback. The top right corner shows the page number "1 / 2" and the time "15:19".

Metronome

← 📄 ✎ ✏ 1 / 2 Wir glauben all' an einen Gott (Bach Organ Works volume 7)

82 **Wir glauben all' an einen Gott, V**
a 2 Clav. e Pedale doppio

(a 5 voci)

62

Edition Peters

Page: 561 / 570

Metronome ✕

Tempo: 28 bpm **TAP TO SET TEMPO**
Lento assai

— ● — +

Time Signature: 4 / 4

Beat Subdivision: quarter notes

Beat Sound FX: Wooden Metronome

Accent First Beat

Playback Mode: Audio and Visual

Volume: — ● — 📢

Measure: **START METRONOME**

Beat:

Library Settings

← MobileSheets Settings

About

Storage

Library Settings

Display Settings

Import Settings

Touch & Pedal Settings

Face Gesture Settings

Text File Settings

MIDI Settings

Backup and Restore

Other Settings

Library Settings

Database Settings

Switch Library
Switches the active library by loading a different database file.
Current Setting: Default

Library Display Settings

Use the Term "Piece" instead of "Song"
If enabled, MobileSheets will use the term piece instead of song

Use Large Letters For Alphabet List
Uses much larger letters on the right hand side of the library for jumping to pieces starting with a given letter.

Left Hand Alphabet List
Places the alphabet list on the left side of the screen for left handed users

Show Extended Letter List with Tap
Displays the extended alphabet letter list when a letter is tapped instead of requiring a long press.

Piece Title Formatting

Changes the formatting of piece titles to include the fields you want displayed.

Generate Piece List Format

Changes the formatting of piece titles when generating a list of pieces from a selected group.

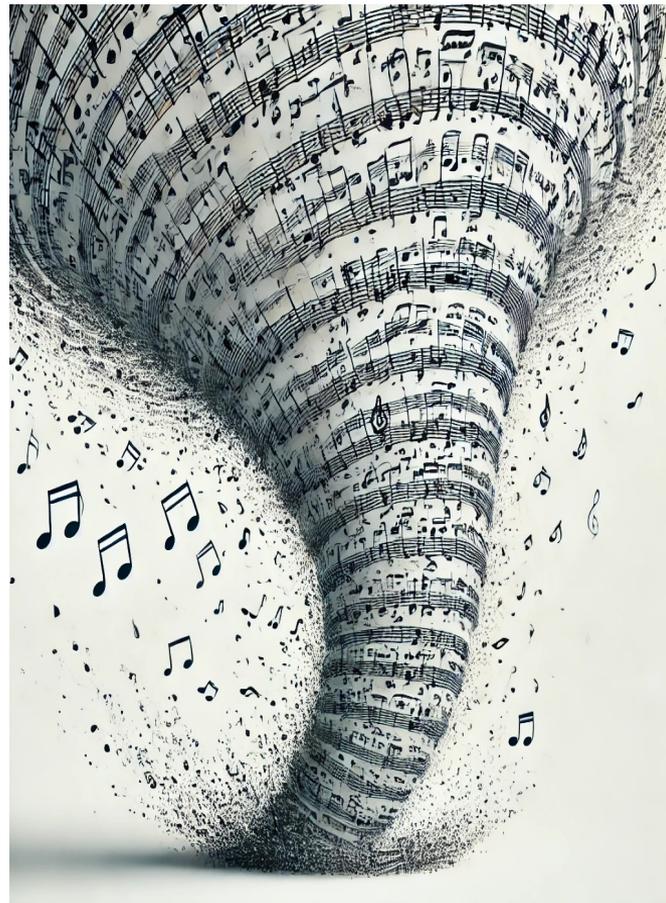
CLOSE

Custom Group Name

Sets the name to be displayed for the custom category.

Page Turns

- By default
 - Touch right side of screen to turn forward
 - Touch left side of screen to turn back
- Automatic page turns
 - Set timer to turn at specific interval
- Continuous scrolling
 - Can scroll at a constant speed
- Half page turns
 - Display two half pages at the same time
 - Keep playing past the page, then turn when convenient
- Devices
 - Pedal
 - Hand held button



Gesture for Page Turns

- Unlike almost all other musicians, organists
 - Have no place to put a pedal
 - Don't have time to pick up a remote control
 - Sometimes don't have time to tap the screen
- Organists do have faces
 - MobileSheets can watch for facial expressions
 - Actions can be defined for multiple different facial expressions
 - Requires a camera and significant CPU processing
 - Additional drain on battery

Gesture Settings

← Gesture Settings CLOSE

Supported gestures (scroll list to see all gestures):

Wink Right Eye	[None]
Turn Head Left	[None]
Turn Head Right	[None]
Tilt Head Up	[None]
Tilt Head Down	[None]
Raise Eyebrows	[None]
Open Mouth	[Go to Next Page]

TEST GESTURES

Open Mouth

Open mouth then back to resting face

Action: **Go to Next Page** ▼

Gesture Size: 2 ⓘ

Duration: 0.16 seconds

Camera resolution: 1024 x 768 ⓘ

Minimum time: 100 ms ⓘ

Proper Page Turn Technique



Annotations

- Multiple annotation tools
- All annotations belong to a layer
- The base layer is the music itself
- Multiple layers can be created above the base layer
 - Can be visible or invisible
 - Markings that apply to the piece can always be visible
 - Markings that are specific to an organ can be turned on when playing that organ

PDF is Immutable

- PDF in base layer doesn't change
 - Written in stone
- All changes are in upper layers and can be modified or erased
- Each lift of the stylus or change of focus creates an object
 - Each object can be moved or modified



Annotation Tools and Layers Menu

The screenshot displays a music software interface with a toolbar at the top containing various icons for navigation and editing. The main workspace shows musical notation with handwritten annotations in blue ink, including the letters "GT" and a bracket. A circular tool palette is overlaid on the left, featuring icons for Text (15), Pen (4), Highlighter (30), Stamp, Other Tools, Favorites, Eraser, and More. A "Layers" menu is open in the center, showing a hierarchy: "Grosser Gott (Hymn Interpretati...)" > "Page 1" > "FLC West Seattle" (with an eye icon and a pencil icon). Under "FLC West Seattle", there are two groups of tools: "Text 1", "Text 2", and "Text 3" (each with a text icon and a checkbox), and "Freeform 1" and "Freeform 2" (each with a pencil icon and a checkbox). The bottom right corner of the interface shows a timer at "15:10".

before
p 85 creed, prayers, peace, annou

Man: Principals 8', 4', 2' (Mixture)
Ped: Subbass 16', Trumpet 8', Octave 4'

2 or 3 minutes f

GT

Layers

- ▼ Grosser Gott (Hymn Interpretati...
- ▼ Page 1
- ▼ FLC West Seattle
- T Text 1
- Freeform 1
- T Text 2
- T Text 3
- Freeform 2

GROSSER GOTT
David P. Dahl

Tune: Maria Theresa, *Katholisches Gesangbuch*, 1774

Hymn Interpretations for Organ by David P. Dahl, code 11-10972
Copyright © 1999 Augsburg Fortress. All rights reserved. Printed in U.S.A.
Duplication in any form prohibited without written permission.

Multiple Music Annotations

The screenshot displays a music annotation application window. The title bar includes a "Resizable" dropdown and standard window controls. The top toolbar contains icons for various functions: close, zoom, undo, redo, star, zoom in, zoom out, pen, highlighter, text, lasso, eraser, zoom reset, zoom in, zoom out, musical notation, piano/forte, grid, play, volume, download, delete, and settings.

On the left side, a circular tool palette is visible with the following options: Text (15), Pen (4), Highlighter (30), Stamp, Other Tools, Favorites, Eraser, and More.

The main workspace shows musical notation with several annotations:

- A blue scribble is drawn over the first system of music.
- A blue bracket is drawn under the second system of music.
- Handwritten text "Ps 8" is written in blue next to the second system.
- Handwritten text "Fr 8,4" is written in blue next to the third system.
- A blue bracket is drawn under the third system.

The musical notation includes lyrics such as "Help, save, comfort, and de-fend us, gra-cious Lord.", "A men", "Glo-ry to God in thehigh-est, and peace to his peo-ple on earth.", and "Lord God, heav - en - ly king, al - might - y God and".

A timestamp "14:55" is displayed in the top right corner of the application window.

Which is Easier?



Set Lists

- A set list holds one or more pieces
- Page turns are continuous within the set
 - At end of piece page turn moves to next piece
 - Gestures can be configured to jump around within the set
- Duration of each piece is included in a total length of the set
- Multiple players with multiple tablets can be synchronized
 - Pieces change at the same time and page turns happen at the same time

Set List of Complicated Service

Resizable

Setlists (15) Pieces Genres Bookmarks Composers Recent Collections Albums SORT: MANUAL NEW EDIT IMPORT

Search: All Fields Source: Any Key: Any

Collection: Any Diff: Any Genre: Any Rating: Any

FLC West Seattle Sep 15 (19)

Load All

1	Herr Jesu Christ, dich zu uns wend (Boehm Organ Works volume 2 Chorale Preludes) Georg Boehm Organ 0:00
2	LBW 253 Lord Jesus Christ, Be Present Now Hymn 0:00
3	LBW Liturgy Setting 2 FLCWS greeting-gloria Service Music 0:00
4	LBW Liturgy Setting 2 prayer of the day Service Music 0:00
5	LBW Liturgy Setting 2 alleluia Service Music 0:00
6	LBW Liturgy Setting 2 gospel acclamation Service Music 0:00
7	LBW 421 Lord Christ, When First You Came to Earth Hymn 0:00
8	Grosser Gott (Hymn Interpretations) David Dahl Organ 0:00
9	ELW 414 Holy God We Praise Your Name Hymn 0:00
10	LBW Liturgy Setting 2 offertory Service Music 0:00
11	LBW Liturgy Setting 2 great thanksgiving Service Music 0:00

← 🔒 📱 🔍 →

Snippets

- A snippet can be created from any piece
- Creation of a snippet does not duplicate the PDF
- Snippets are independent from PDF
 - Can be annotated
 - Can be used in a setlist
 - Are searchable as a piece
- Multiple identical snippets can be created
 - Each is independent from the PDF and the other snippets

Creating a Snippet

Glory to God in the highest

Introduction David P. Dahl

Glo-ry to God in the high- est, and peace... to his peo-ple on earth. Lord God,

Introduction

Create Snippet

Name: Dahl Liturgy accompaniment - Gloria

Pages: 1-2 Number of pages: 2

- Copy Metadata
- Copy Annotations
- Load Snippet After Creation
- Edit Snippet After Creation

CANCEL OK

world;... have mer- cy on us. you are sea- ted at the right hand of... the Fa- ther, re- ceive our prayer. For



Snippets for Instantiating Repeats

The screenshot displays a music software interface with a dark theme. At the top, there are tabs for 'Fields', 'Files', 'Audio', and 'MIDI'. The 'Files' tab is active, showing a file named 'Hymn Interpretations_opt.pdf'. To the right, a blue header bar indicates the current editing context: 'Editing: On Jordan's Bank the Baptist's Cry (Hymn Inter...)' with buttons for 'CONFIGURE FIELDS', 'OK', and 'CANCEL'. The main area is split into two panes. The left pane shows the PDF score for 'On Jordan's Banks the Baptist's Cry' by David P. Dahl. The score includes performance instructions for various instruments: 'Man: Plenum with 16' (coupled, if needed)', 'Ped: Posauce 16, Trumpet 8, Trumpet 4' or Cornet 2' (+ Principal plenum)', and 'Opt. Trumpet part on p. 30'. The score is in 3/4 time and features a melodic line for the trumpet and a piano accompaniment. Blue annotations are present: a 'GT' label with a bracket under the first few notes of the trumpet line, and a circled '7' under a note in the piano accompaniment. The right pane shows a MIDI editor for the same piece, with a piano roll view of the trumpet part. The interface also includes a 'Page Order' field set to '28-30,29-30' and 'Number of pages: 5'. At the bottom, there are controls for 'Rotation' (four arrows), 'Page' (a slider), and buttons for 'RESET CROP' and 'AUTO-CROP'. The page number '1 / 5' is shown in the bottom right corner.

First Time Through

On Jordan's Bank the Baptist's Cry (Hymn Interpretations) 3 / 5

29 15:03

The image displays a digital music score for the hymn "On Jordan's Bank the Baptist's Cry". The score is presented in a three-staff format: a vocal line at the top and two piano accompaniment staves below. The key signature is one sharp (F#) and the time signature is 4/4. The score is divided into three systems. The first system consists of four measures. The second system also consists of four measures, with a double bar line and repeat sign after the second measure. A yellow highlight is placed above the second measure of the second system with the text "Opt. repeat". A blue circle with the letter "T" is drawn around the first measure of the second system. A blue vertical line is drawn through the end of the second system. The third system begins with the instruction "slowing, but with strength, to the end" above the first measure. The piano accompaniment features a steady eighth-note pattern in the right hand and a bass line in the left hand. The score ends with a double bar line and repeat sign.

Page: 3 / 5

Second Time Through

The first system of musical notation consists of three staves. The top staff is a grand staff (treble and bass clefs) with a key signature of two sharps (F# and C#). It contains a melody of eighth notes and chords, with a fermata over the final note. The middle staff is a bass clef staff with a whole note chord. The bottom staff is a bass clef staff with a whole note chord.

The second system of musical notation consists of three staves. The top staff is a grand staff with a key signature of two sharps. It contains a melody of eighth notes and chords, with a fermata over the final note. The middle staff is a bass clef staff with a whole note chord. The bottom staff is a bass clef staff with a whole note chord.

The third system of musical notation consists of three staves. The top staff is a grand staff with a key signature of two sharps. It contains a melody of eighth notes and chords, with a fermata over the final note. The middle staff is a bass clef staff with a whole note chord. The bottom staff is a bass clef staff with a whole note chord. The text "slowing, but with strength, to the end" is written above the top staff.

Snippets – Include Bulletin or Program

15:32

Upcoming Events

Christmas Eve Lessons and Carols

Sunday, December 24
4:00 PM Wesley Gardens Chapel (with organ)
6:00 PM Terrace Auditorium (with piano)

This Christmas Day Vespers service will include readings and Christmas carols in the style of Kings College Lessons and Carols but in an abbreviated form. Bring your family and friends!



Vespers Hymn Festival

Sunday, January 7, 4:00 PM
Wesley Gardens Chapel

The hymn festival is a regular feature of Vespers on the first Sunday of each month. Hymns on January 7 will focus on Epiphany.

Hymn festivals are open to anyone who enjoys singing hymns. All are welcome.

Christmas with the Organ



Wesley Gardens Chapel
December 16, 2023

Snippets – Portion of Program in Setlist

15:32

Program

Welcome

Susan McConnell, Executive Director,
Wesley Community Foundation

Two Settings of “Sleepers Wake”

Johann Sebastian Bach
Johann Gottfried Walther

Two Settings of “Nun komm der Heiden Heiland”

David Dahl
Hugo Distler

Congregational Hymn 214

Savior of the Nations, Come (all verses)

On Jordan's Bank the Baptist's Cry David Dahl

Creator of the Stars of Night Richard Warner

A Medley of Familiar Carols for Organ

Break Forth, O Beauteous Heavenly Light
Infant Holy, Infant Lowly
Coventry Carol
Bring a Torch, Jeannette, Isabella
O Little One Sweet
He is Born

Congregational Songs (see insert)

The Little Drummer Boy
Silver Bells

I Am So Glad

Stephen Gabrielsen

In Dulci Jubilo

Marcel Dupré

Congregational Hymn 224

Good Christian Friends, Rejoice (all verses)

O Holy Night

Adolphe Adam

Susan McConnell, soprano

Adeste fideles

Charles V. Stanford

Prelude No. 1 “At Christmas-tide” from Six Occasional Preludes

Congregational Hymn 234

O Come, All Ye Faithful (verses 1-4)

Organ Voluntary

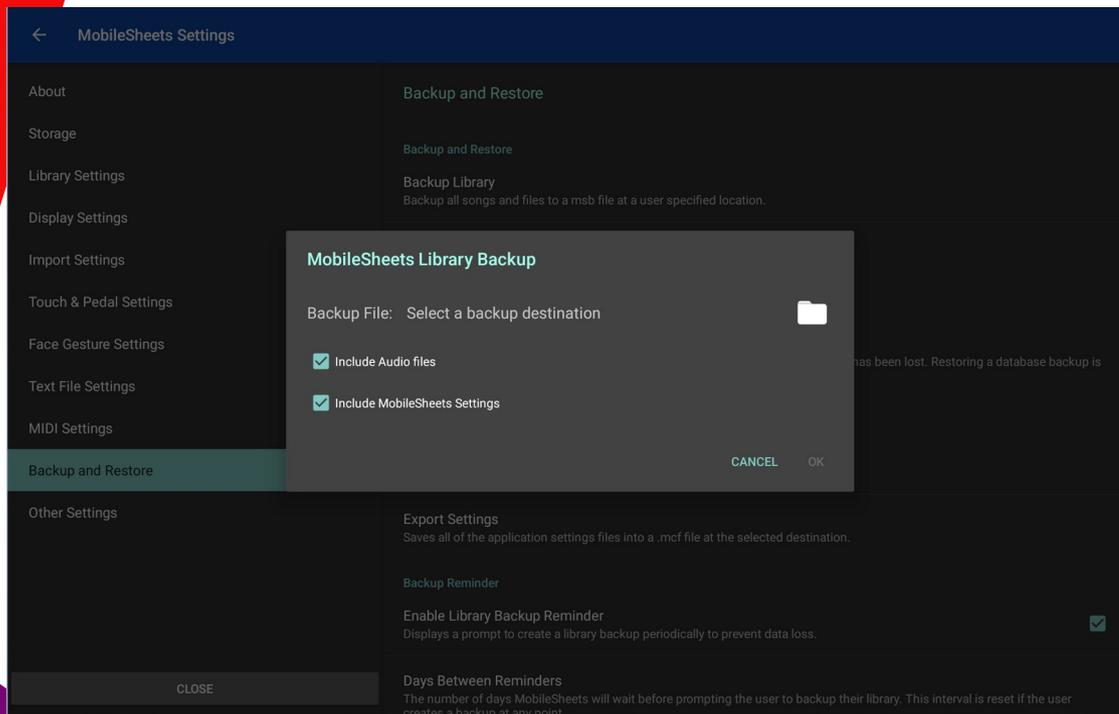
“Nun Komm der Heiden Heiland” J. S. Bach

Organists: Thomas Clark, Nancy Ferree-Clark

Drummer: Jim Teeters

Please hold applause until the end of the program.

Backup and Restore



How to Become Proficient at “Tableture”



Consulting The Manual

- RTFM
 - Common acronym in online groups
 - Loose translation
 - Read The Manual



Formal Study

- Sign up for a course on tablet use
- Being in a group of students with similar technical ability levels will give you confidence



Period of Transition



- Leverage opportunities to use both tablet and paper music
- In this illustration the organist is using a tablet and paper music at the same time

Just Try It



- There's nothing like hands-on experience
- Shop local
 - Like this organist

So Much More Than a Score Reader

- Organizer
- Indexer
- Search engine
- Toolbox
 - Metronome
 - Clock
 - PDF editor
- Media tools

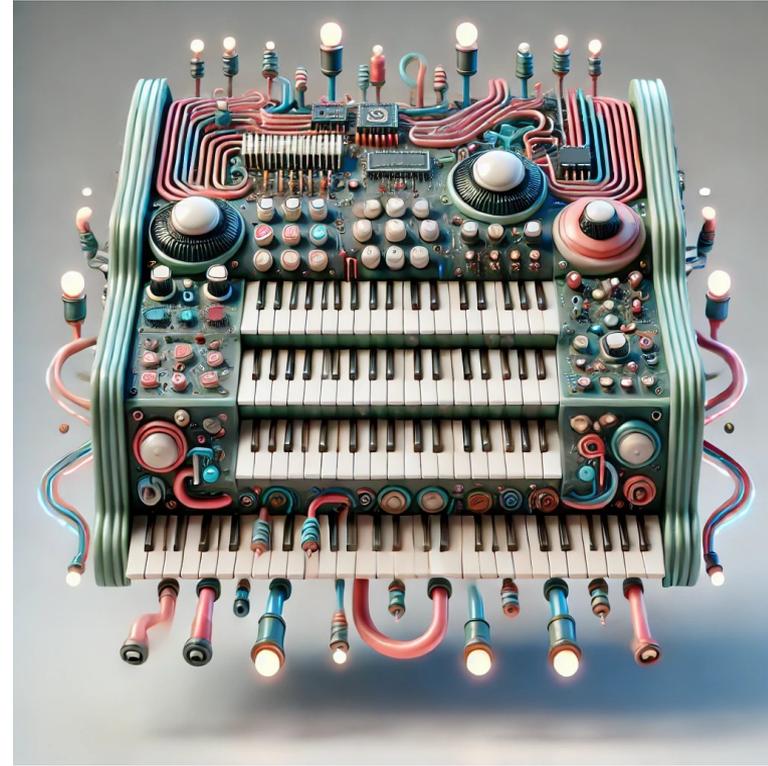


Does the Tablet Compromise Musicality?



- Organists have been playing from paper music for centuries
- Organists have played tracker organs for centuries
- Is it possible to endorse tablets and still value historic organs?
- Are there unforeseen consequences?

Historic Organ vs Electronium



Balance Sheet for Tracker and Electronium

- Tracker Organ
 - Organist gets feedback from the organ
 - Organist can feel a pluck point
 - Organist can create musical pearls
 - Sound of individual pipes is focused by case
- Electronium
 - Organist completes an electrical circuit playing against resistance of a spring
 - There aren't any pipes
 - There isn't a case
 - Does not enhance musicality

Balance Sheet for Paper and Tablet

- Tablet
 - Frees the organist to concentrate on musicality
 - Allows the organist to take more responsibility by reducing dependence on others
 - Has no perceptible effect on musicality

- Paper
 - No battery



And the winner is...



St. Peter Doesn't Like Paper Music



Organists Arrive at the Pearly Gates

