COMP1710/6780

Web Development and Design

Week 10 8-12 May 2023

We will discuss

ePubs

Podcasts

WHAT

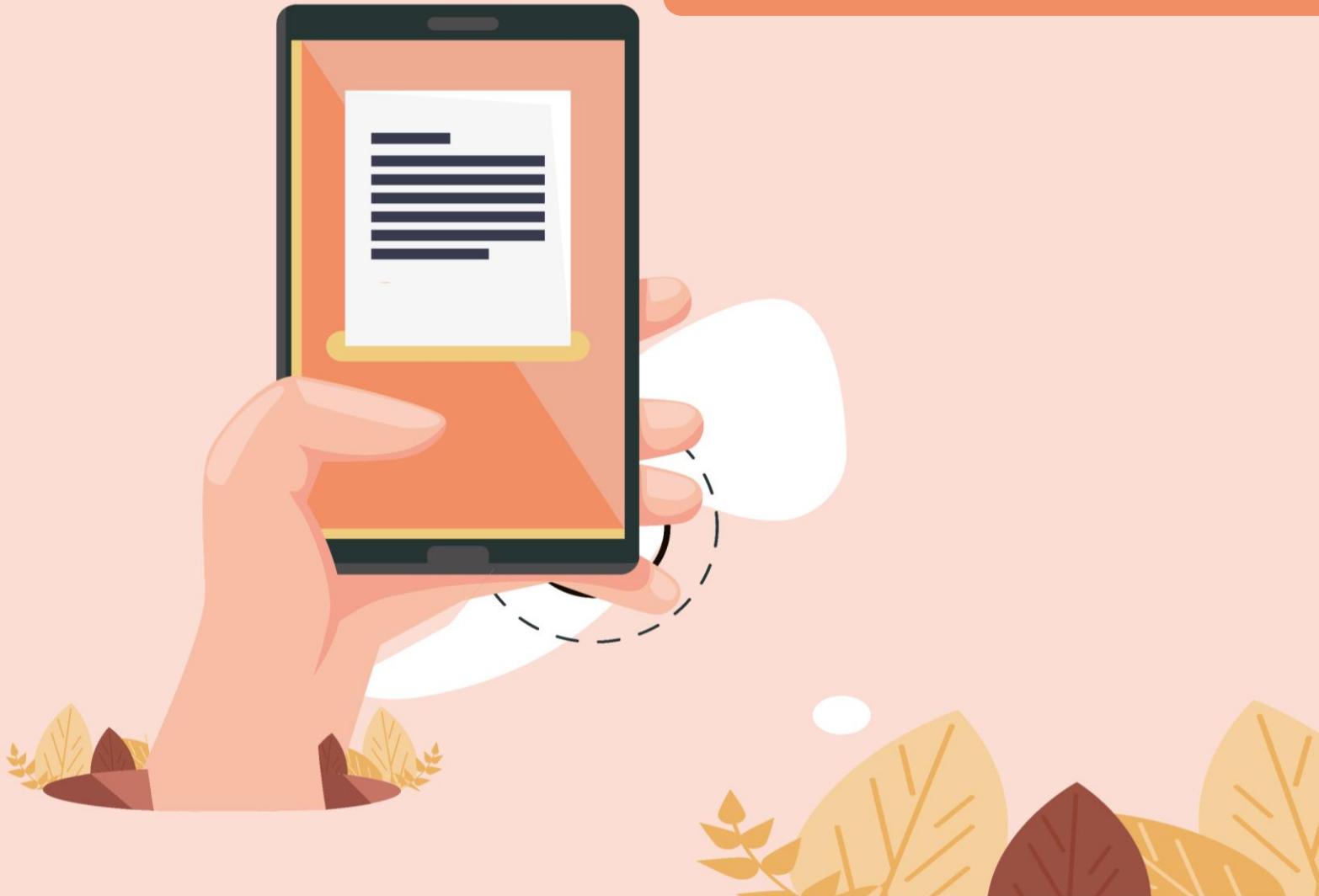WHY

HOW

ePubs

Especially on mobile devices

EPUB

Electronic **Pub**lication

Adjustable format - Reflowability"

Focus on rich **reading experience**

Resizable

Reflowable

Images difficult to display adjacent to desired text

Reader-friendly for mobile devices

Highly interactive

Swipe/arrow for page turns

Online Book

User Perspective

EPUB

Electronic **Pub**lication

XML Extensible Markup Language

XML transfers data

Container

Multiple files/different file types

Open standard for e-books

Semantics

Structure

Containerisation

Media overlays

.epub file

Webdevelopment Perspective

Which format is better? ePub or PDF?

…it depends

Portable **D**ocument **F**ormat
Exact format as original document.

PDF

Editing text

Annotations

Signatures - eSign

Security – password protection

Most suitable for static documents

State of ePublications (USA Study) [1]

72% of U.S. adults have read a book in the last year.
   37% of adults read only print books.
   28% of adults read both print and digital (ePubs & audio books)
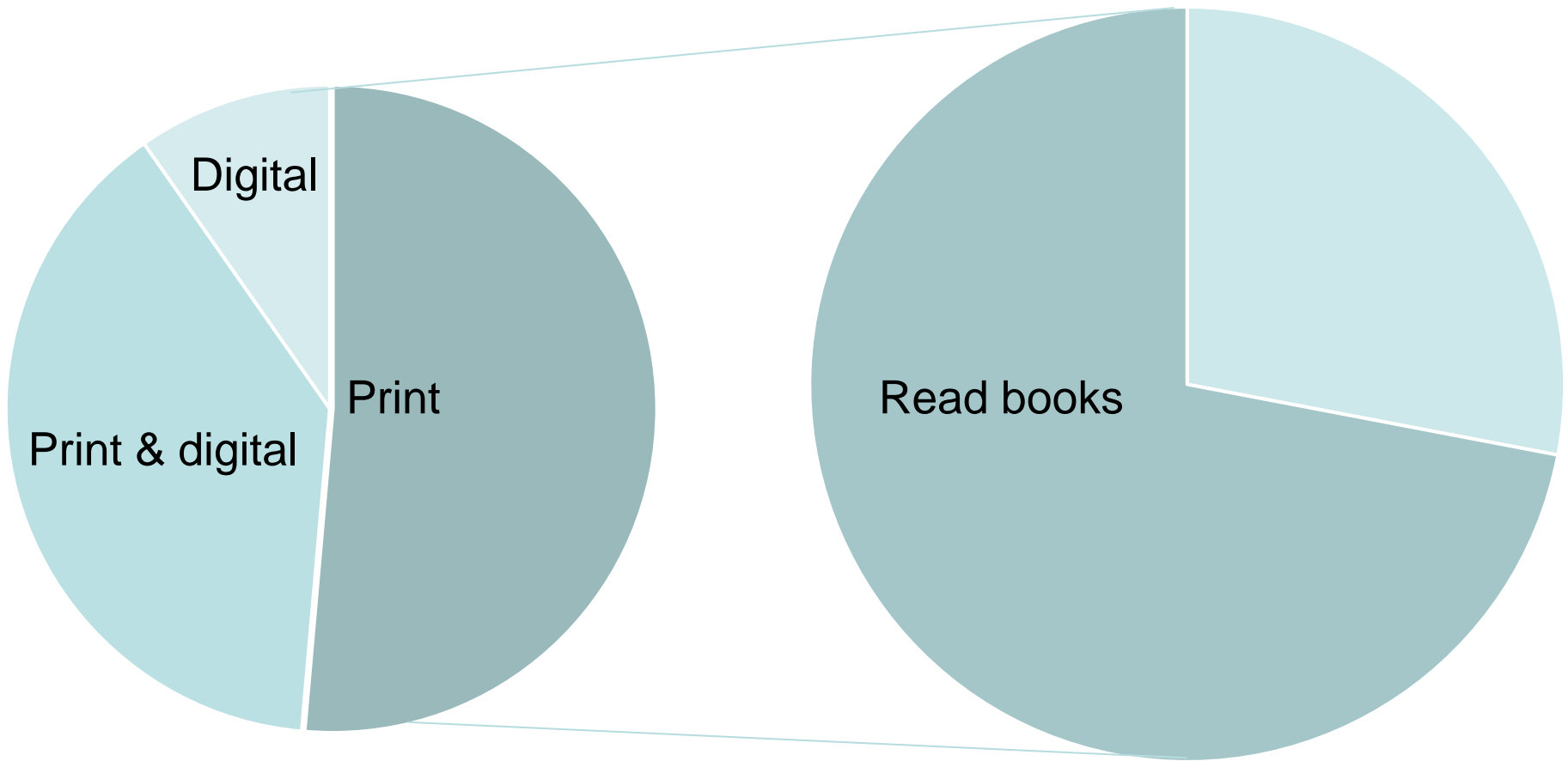   7% adults read only digital books

Formats people have used for reading in the last year:
   65% have read a print book (down 8%)
   25% have read an ePub (up 11%)
   20% have listened to an audiobook (up 14%)

[1] Thomas a. Dodson. (2022) Ebooks & Accessibility. Portland State University Online Northwest

Digital

Print

Print & digital

Read books

Australian National University

State of ePublications (USA Study) - devices used by eReaders - changes since 2016:
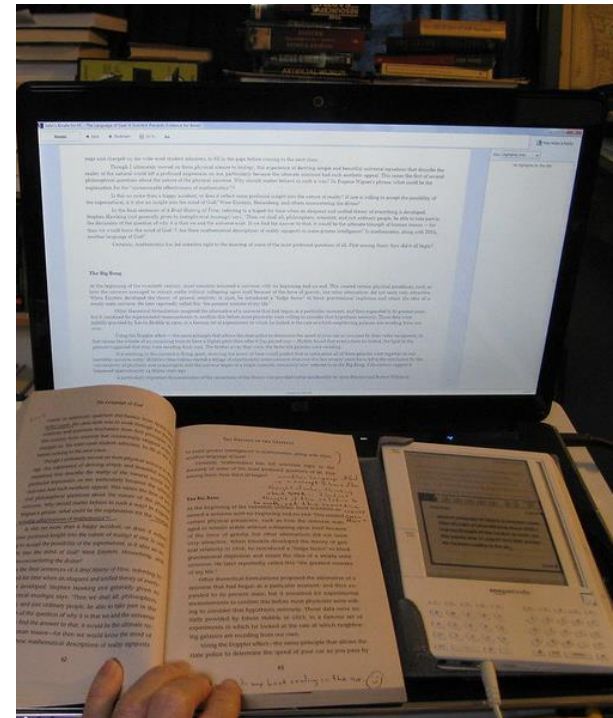
Smartphones **+13%**

Tablets **+15%**

PC/laptops **+11%**

Tony Alter,
https://www.flickr.com/photos/78428166@N0
0/8050816442/in/photostream/

osde8info
https://www.flickr.com/photos/8764442@N07
/8686288543

brewbooks
https://www.flickr.com/photos/93452909@N0
0/4575290954

Dedicated devices like Kindle reducing in popularity

How to create an .epub file?

Calibre
to convert a html to epub

Sigil to edit and format .epub files

https://calibre-ebook.com/

Calibre

File Edit Tools View Search Help

File browser

Text

cover.xhtml
boat000_title.xhtml
boat001_pub_ad.xhtml
boat002_auth_ad.xhtml
boat003_preface.xhtml
boat004_ch01.xhtml
boat005_ch02.xhtml
boat006_ch03.xhtml
boat007_ch04.xhtml
boat008_ch05.xhtml
boat009_ch06.xhtml
boat010_ch07.xhtml
boat011_ch08.xhtml
boat012_ch09.xhtml
boat013_ch10.xhtml
boat014_ch11.xhtml
boat015_ch12.xhtml
boat016_ch13.xhtml
boat017_ch14.xhtml
boat018_ch15.xhtml
boat019_ch16.xhtml

cover.xhtml ✕   **boat000_title.xhtml** ✕

```
1  <?xml version="1.0" encoding="UTF-8"?>
2  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/xhtml11/
   DTD/xhtml11.dtd">
3  <html xmlns="http://www.w3.org/1999/xhtml">
4  <head>
5  <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
6  <title>Title page</title>
7  <link href="css/main.css" rel="stylesheet" type="text/css" />
8  </head>
9  <body>
10 <div>
11   <h1>THREE MEN IN A BOAT</h1>
12    <p class="subtitle">(TO SAY NOTHING OF THE DOG)</p>
13   <h2>Jerome K. Jerome</h2>
14
15    <p class="center">AUTHOR OF<br />
16 &ldquo;IDLE THOUGHTS OF AN IDLE FELLOW&rdquo;<br />
17 &ldquo;STAGE LAND&rdquo;, ETC.
18   <br />
19    <br />
20    Illustrations by A. Frederics
21    <br />
22    <br />
23 1889</p>
24 <hr class="spacing" />
25 <p class="center"><img class="logo" src="images/epub.png" alt="epub logo" />
26 <br />
27 epub ebook created by zelda pinwheel for MobileRead.com <br />
28   <a href="mailto:zelda@mobileread.com">zelda@mobileread.com</a><br />
29   The illustrations were scanned by Marcus Rowland for <a href="http://
   www.forgottenfutures.com/">Forgotten
30   Futures</a><!-- and used with his kind permission-->.</p>
```

calibre 4.7 created by Kovid Goyal   Line: 1 : 0

File preview

THREE MEN IN A
BOAT
(TO SAY NOTHING OF
THE DOG)

Jerome K. Jerome

AUTHOR OF
"IDLE THOUGHTS OF AN IDLE FELLOW"
"STAGE LAND", ETC.

Illustrations by A. Frederics

1889

Live CSS   File preview

The trick to creating a PDF file that converts properly into ePub is to set up the pages in a way that can be read by an e-reader and to use the word processor's built-in formatting styles. Here are a few tips:

- Use styles to format headings, indented paragraphs, numbered lists, and bullet lists.
- Use page breaks when you intentionally want a page to stop at a particular spot (for example, at the end of each chapter).
- Choose an 8.5" x 11" page size with a portrait orientation and .5-inch margins.
- Left align or center align the paragraphs.

The trick to creating a PDF file that converts properly into ePub is to set up the pages in a way that can be read by an e-reader and to use the word processor's built-in formatting styles. Here are a few tips:

Use a single font for the text. Recommended fonts are Ariel, Times New Roman, and Courier.

- Use 12 pt font size for body text and 14 pt to 18 pt for headings.

- Create images in JPEG or PNG format with a maximum size of 600 pixels tall and 550 pixels wide. Images should be in RGB color mode and 72 DPI.

- Do not wrap text around images. Use inline images where the text is above and below the image.

What you need to know about ePubs

If you are not doing an ePub in your website
What are ePubs?
How do users use them.
Difference to PDFs.

If you are doing an ePub in your website
The above +
How to create and edit ePub files

Podcasts

Who has listened to a Podcast before?

A podcast is a series of audio recordings about a specific topic that users can subscribe to.

These audio files are called episodes.

Specific topic

Episodes

+

SUB

Subscription

Podcast

Creating Podcasts

Identify a topic

Health

Culture

Art

Music

Sports

History

Creating Podcasts

Choose a format

Interviews
or
Co-host

Frequency of episodes

Duration of an episode

Creating Podcasts

Develop your brand

Name your podcast

Describe your episode

Create art for the cover

Create Podcasts

Equipment

Microphone

Headphones
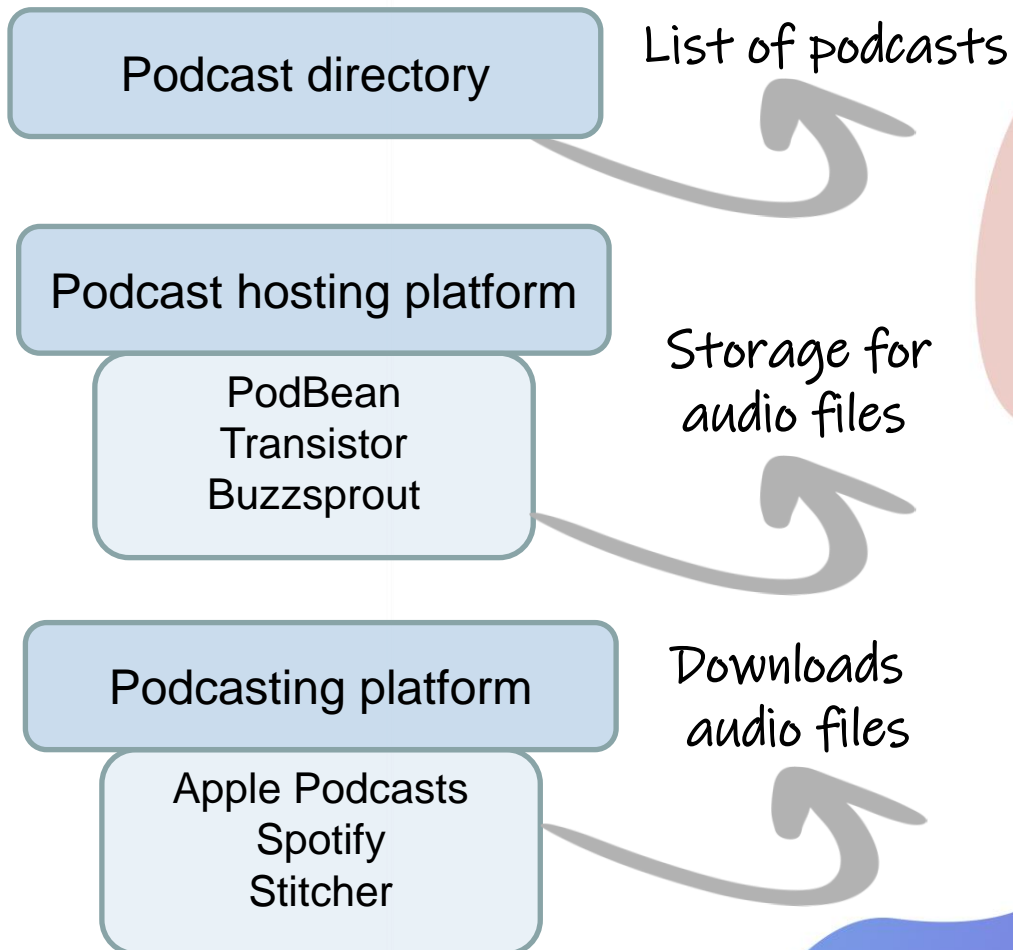
Recording Software

Pop filter

Publish Podcasts - terminology

Podcast directory

List of podcasts

Podcast hosting platform

PodBean
Transistor
Buzzsprout

Storage for
audio files

Podcasting platform

Apple Podcasts
Spotify
Stitcher

Downloads
audio files

Publish Podcasts - terminology

To subscribe to podcast

Podcast RSS feed

Really Simple Syndication (RSS)
Commonly used to subscribe to content

Hosting platform

Hosting platform

Podcasting platform

Podcasting platform or your website

Choose hosting platform to upload audio files

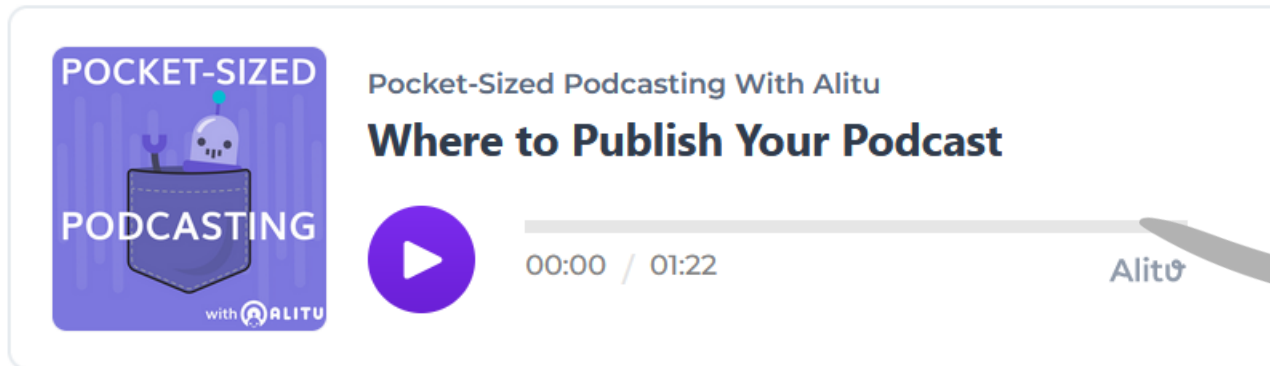Submit RSS feed to a directory to ensure episodes are added to podcast directories

Podcasting platform downloads audio files

Podcast player plays episodes

Link between hosting platform & podcasting platform

Podcast Player

Embedded
HTML code
for podcast player...

Pocket-Sized Podcasting With Alitu
Where to Publish Your Podcast
00:00 / 01:22
Alitu

...is provided by
podcast hosting platform
Link/embed options for episodes

Why should you not upload your podcast episodes to your own website?

Thank you

https://www.vecteezy.com/free-vector/ebook Ebook Vectors by Vecteezy

https://www.vecteezy.com/free-vector/podcast Podcast Vectors by Vecteezy

https://www.vecteezy.com/free-vector/cat Cat Vectors by Vecteezy

https://www.vecteezy.com/free-vector/device Device Vectors by Vecteezy

https://www.vecteezy.com/free-vector/smartphone Smartphone Vectors by Vecteezy

Icons made by Pixel perfect from https://www.flaticon.com

https://www.vecteezy.com/free-vector/web-developer Web Developer Vectors by Vecteezy

https://www.vecteezy.com/free-vector/podcast Podcast Vectors

https://www.thepodcasthost.com/listening/what-is-a-podcast/

https://www.flaticon.com/free-icons/subscribe Subscribe icons created by Freepik - Flaticon

https://www.shopify.com/blog/34911301-how-to-start-a-podcast-the-ultimate-step-by-step-podcasting-guide#2

https://www.flaticon.com/authors/dave-gandy

https://www.flaticon.com/authors/smashingstocks
https://www.freepik.com from https://www.flaticon.com
https://www.thepodcasthost.com/websites-hosting/how-to-upload-a-podcast/