

Nimipdf

Nimipdf is a nimibex extension that adds a PDF backend for [nimib](#). This allows you to generate PDFs with nimib (in fact, you may be reading one right now!).

Installation

Install nimipdf with Nimble:

```
nimble install nimipdf
```

Limitations

Emoji's don't work properly, so Twemoji is used instead of your OS's native emoji set.

How Nimipdf Works!

PDFs are generated through the use of libwkhtmltox [Nim bindings](#). This allows for quick and simple PDF generation while also providing easy customizat~~on~~.

Nimipdf provides two main templates, so lets talk about those.

- `nbInitPdf` :
 - When calling `nbInitPdf`, libwkhtmltox (and nimib) are initialized, and the converter, global settings, and object settings are created and attached onto the injected `nbPdf` variable.
- `nbSavePdf` :
 - When saving via `nbSavePdf`, nimipdf takes the rendered html output of your nimib document and converts it into a PDF using libwkhtmltox.

Before this, however, the `out` and `documentTitle` global settings are set to the nimib document's filename (`nb.filename`) and title (`doc.context["title"]`) respectively.

Libwkhtmltopdf is also de-initialized when calling `nbSavePdf`.

API

- `nbInitPdf` injects a `nbPdf` variable
 - `nbPdf.converter` contains the wkhtmltopdf converter used to generate the PDF.
 - `nbPdf.globalSettings` contains the wkhtmltopdf global settings. A list of available settings to set can be found [here](#), and can be set via `nbPdf.setGlobalSetting(name, value)`
 - `nbPdf.objectSettings` contains the wkhtmltopdf object settings. A list of available settings to set can be also found [here](#), and can be set via a similar way to global settings (`setObjectSetting`)
- use `nbSavePdf` to save document

The `pdf` submodule from [nimwkhtmltox](#) is exported, so you can also use functions and methods from wkhtmltox aswell to further modify nimipdf's behavior (for example, adding callback functions to `nbPdf.converter`).

How to Use

- Initialize nimipdf (and wkhtmltopdf) with `nbInitPdf`
- Write your usual nimib code (`nbText`, `nbCode`, etc.)
- Save the PDF using `nbSavePdf`. This also de-inits wkhtmltopdf

There is a more "hands-on" example in the following section.

Get Started/Example

To start, firstly import the library and nimib (of course...)

```
import nimipdf
import nimib
```

Initialize nimipdf (and nimib) using `nbInitPdf`.

```
nbInitPdf
```

Next, add your usual nimib code (`nbCode`, `nbText`, etc.)

Here, we'll use [hello.nim](#):

The code block is too long, skip down to the next page...

```

import strformat, strutils

nbText: """
  ## Secret talk with a computer
  Let me show you how to talk with the computer like a [real hacker](https://mango.pdf.zone/)
  and incidentally you might learn the basics of [nimib](https://github.com/pietroppeter/nimib).
  ### A secret message
  Inside this document is hidden a secret message. I will ask the computer to spit it out:
  """

let secret = [104, 101, 108, 108, 111, 44, 32, 119, 111, 114, 108, 100]

nbCode:
  echo secret

nbText: fmt"""
  what does this integer sequence mean?
  Am I supposed to [recognize it](https://oeis.org/search?q={secret.join("%2C+")}&language=english&go=Search)?

  ### A cryptanalytic weapon
  Luckily I happen to have a [nim](https://nim-lang.org/) implementation of a recently declassified top-secret cryptanalytic weapon:"""

nbCode:
  func decode(secret: openArray[int]): string =
    ## classified by NSA as <strong>TOP SECRET</strong>
    for c in secret:
      result.add char(c)

nbText: """
  ### The great revelation
  Now I can just apply it to my secret message and
  finally decrypt what the computer wants to tell me:"""

nbCode:
  let msg = decode secret
  echo msg # what will it say?

nbText:
  fmt"_Hey_, there must be a bug somewhere, the message (`{msg}`) is not even addressed to me!"

```

Finally, save the PDF using `nbSavePdf`.

```
nbSavePdf
```

The generated pdf file can be found [here](#)