



DOHA OASIS MEP PROGRESS REPORT

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1 Introduction

The Go package phd provides useful routines for manipulating documents and outputting them in various formats.

It also provides a tempalting mechanism for LaTeX files, as well as a package manager for these files.

1.1 What GoPhd Can do for you?

GoPhd is an AI that helps you develop printed documents from all sorts of sources. All ypu need is mostly to type your document.

- Provide scaffolding to create the disk structure of complex documents
- Saves your documents to any of popular cloud stores (AWS, Google Drive, Microsoft)
- Automatically produce a static website for your document (similar to gitbooks)
- Version Control via Git

All you need is to type your document

```
“ gophd init ”mybook”
```

```
“
```

```
“ gophd edit ”mybook”
```

```
“
```

```
“ gophd publish ”mybook”
```

```
“
```

1.2 Prerequisites

- You need to have a working Go installation
- You need to have a TeX distribution on your machine such as TeXLive or MikTeX
- If you are to use any of the many font utilities, you will need numerous fonts.
- Extensive theming engine

1.3 Installation

There is a batch file for windows INSTALL.BAT that helps with the installation of the tool and some necessary fonts, that you might not find easily.

1.4 CLI

```
phd directory
phd new document_name  creates a directory tree
```

Produces a pdf from a set of documents in directory

```
config
thesis.tex
thesis
  main.tex or mydocument.tex
  config.toml
    chapter01.tex
    chapter02.tex
    chapter02.tex
    ...
    graphics
  logo.png
machine.png
amato.png
  amato.jpg
  amato.jpeg
themes
book
article
report
thesis
exam
lecturenotes
proceedings
template
license
partials
  specials
temp
```

1.5 Conventions

If you creating a document out of a list of other files, it is preferable to keep the in a tree directory as shown above.

There is always a site wide configuration folder ‘config’ with settings for various tasks, explained a bit later. phd looks up first in the directory it is operated from for site-wise configuration file. This is used to provide

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defaults, if no configuration is found in the document directory. If none is found then it used build-in defaults.

gophd can be embedded in other programs.

Examples can be found in the examples directory.

2 Materials

During week ending 28th July, minor materials have been submitted and approved, including Air-vents, tank accessories and the like.

Remaining Long Lead items are: Fans and LV Panels, which are expected to close by the end of next week.

Conspel continues with ordering of materials, as fast as possible.

2.1 Systems

The following material submittals have been issued for approval:

1. Fuel System
2. Gas System

Upon approval, the Gas Systems subcontractor is expected to start with the design works.

2.2 Subcontractors

The Commissioning Management subcontractor has now been approved (ATB).

2.3 Material Deliveries

Material deliveries to site continue. Current problematic deliveries are deliveries for cable trays and accessories. Remedial measures have been taken to submit a local supplier with better delivery schedules. These are expected to start within 20 days, giving time for approvals, ordering and issuing of any financial documents.

Fire Fighting materials are now in place, with piping, supports, couplings all start arriving. We expect good progress of the Fire Fighting works thereafter.

3 Construction

3.1 Mobilization

Construction mobilization continues, with a total of 750 personnel on Site. We expect another 200 tradesmen with the next 15 days, as more materials and areas open up.

3.2 Basement Works

Large areas of B4, B3 have now been handed over to Conspel. We have started works for drainage, fire-fighting and electrical second fix installations. Mock-ups for riser installations are in progress and once approved we expect to add personnel to accelerate the works.

Progress is still in small percentages, as it is reported by value.

3.3 Subcontractors

The Commissioning Management subcontractor has now been approved (AJB).

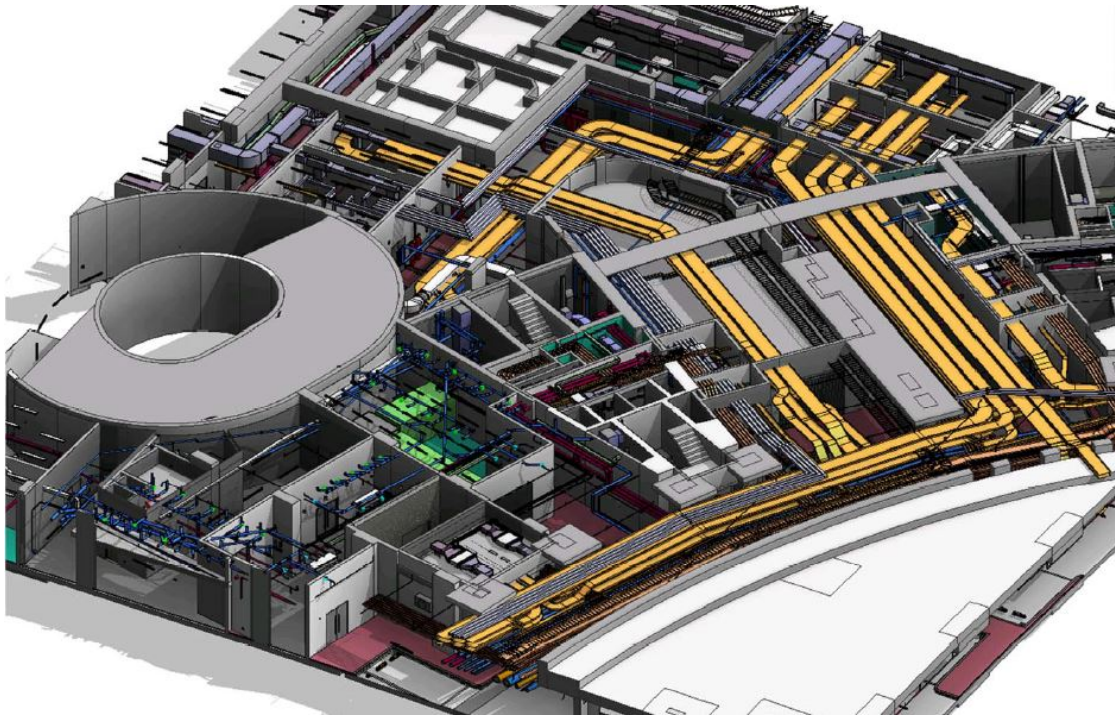
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Material deliveries to site continue. Current problematic deliveries are deliveries for cable trays and accessories. Remedial measures have been taken to submit a local supplier with better delivery schedules. These are expected to start within 20 days, giving time for approvals, ordering and issuing of any financial documents.

Fire Fighting materials are now in place, with piping, supports, couplings all start arriving. We expect good progress of the Fire Fighting works thereafter.

You can't parse [X]HTML with regex. Because HTML can't be parsed by regex. Regex is not a tool that can be used to correctly parse HTML. As I have answered in HTML-and-regex questions here so many times before, the use of regex will not allow you to consume HTML. Regular expressions are a tool that is insufficiently sophisticated to understand the constructs employed by HTML. HTML is not a regular language and hence cannot be parsed by regular expressions. Regex queries are not equipped to break down HTML into its meaningful parts. so many times but it is not getting to me. Even

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enhanced irregular regular expressions as used by Perl are not up to the task of parsing HTML. You will never make me crack. HTML is a language of sufficient complexity that it cannot be parsed by regular expressions. Even Jon Skeet cannot parse HTML using regular expressions. Every time you attempt to parse HTML with regular expressions, the unholy child weeps the blood of virgins, and Russian hackers pwn your webapp. Parsing HTML with regex summons tainted souls into the realm of the living. HTML and regex go together like love, marriage, and ritual infanticide. The `<center>` cannot hold it is too late. The force of regex and HTML together in the same conceptual space will destroy your mind like so much watery putty. If you parse HTML with regex you are giving in to Them and their blasphemous ways which doom us all to inhuman toil for the One whose Name cannot be expressed in the Basic Multilingual Plane, he comes. HTML-plus-regexp will liquify the nerves of the sentient whilst you observe, your psyche withering in the onslaught of horror. Reg²ex-based HTML parsers are the cancer that is killing StackOverflow it is too late it is too late we cannot be saved the transgression of a child ensures regex will consume all living tissue (except for HTML which it cannot, as previously prophesied) dear lord help us how can anyone survive this scourge using regex to parse HTML has doomed humanity to an eternity of dread torture and security holes using regex as a tool to process HTML establishes a breach between this world and the dread realm of corrupt entities^{hm} (like SGML entities, but more corrupt) a mere glimpse of the world of regex

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parsers for HTML will instantly transport a programmer's consciousness into a world of ceaseless screaming, he comes, the pestilent slithy regex-infection will devour your HTML parser, application and existence for all time like Visual Basic only worse he comes he comes do not fight he comes, his unholy radiance destroying all enlightenment, HTML tags leaking from your eyes like liquid pain, the song of regular expression parsing will extinguish the voices of mortal man from the sphere I can see it can you see it it is beautiful the final snuffing of the lies of Man ALL IS LOST ALL IS LOST the pony he comes he comes he comes the ichor permeates all MY FACE MY FACE oh god no NO NOOOO NO stop the angles are not real ZALGO IS TONY THE PONY HE COMES

4 Construction

4.1 Mobilization

Construction mobilization continues, with a total of 750 personnel on Site. We expect another 200 tradesmen with the next 15 days, as more materials and areas open up.

4.2 Basement Works

Large areas of B4, B3 have now been handed over to Conspel. We have started works for drainage, fire-fighting and electrical second fix installations. Mock-ups for riser installations are in progress and once approved we expect to add personnel to accelerate the works.

Progress is still in small percentages, as it is reported by value.

4.3 Subcontractors

The Commissioning Management subcontractor has now been approved (ATB). This has been resubmitted also for TAB.

4.4 Material Deliveries

Material deliveries to site continue. Current problematic deliveries are deliveries for cable trays and accessories. Remedial measures have been taken to submit a local supplier with better delivery schedules. These are expected to start within 20 days, giving time for approvals, ordering and issuing of any financial documents.

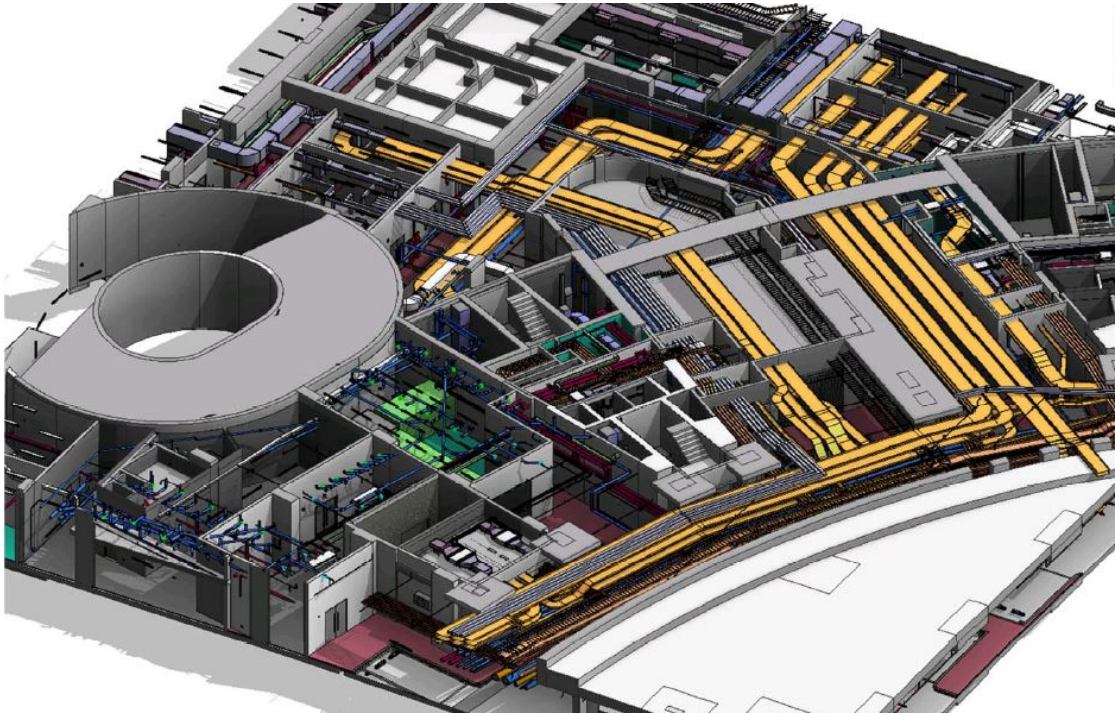
Fire Fighting materials are now in place, with piping, supports, couplings all start arriving. We expect good progress of the Fire Fighting works thereafter.

4.5 Encodings

In an infamous post on stackoverflow user ... posted the below snippet...

You can't parse [X]HTML with regex. Because HTML can't be parsed by regex. Regex is not a tool that can be used to correctly parse

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HTML. As I have answered in HTML-and-regex questions here so many times before, the use of regex will not allow you to consume HTML. Regular expressions are a tool that is insufficiently sophisticated to understand the constructs employed by HTML. HTML is not a regular language and hence cannot be parsed by regular expressions. Regex queries are not equipped to break down HTML into its meaningful parts. so many times but it is not getting to me. Even enhanced irregular regular expressions as used by Perl are not up to the task of parsing HTML. You will never make me crack. HTML is a language of sufficient complexity that it cannot be parsed by regular expressions. Even Jon Skeet cannot parse HTML using regular expressions. Every time you attempt to parse HTML with regular expressions, the unholy child weeps the blood of virgins, and Russian hackers pwn your webapp. Parsing HTML with regex summons tainted souls into the realm of the living. HTML and regex go together like love, marriage, and ritual infanticide. The `<center>` cannot hold it is too late. The force of regex and HTML together in the same conceptual space will destroy your mind like so much watery putty. If you parse HTML with regex you are giving in to Them and their blasphemous ways which doom us all to inhuman toil for the One whose Name cannot be expressed in the Basic Multilingual Plane, he comes. HTML-plus-regex will liquify the

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nerves of the sentient whilst you observe, your psyche withering in the onslaught of horror. Regēx-based HTML parsers are the cancer that is killing StackOverflow it is too late it is too late we cannot be saved the transgression of a child ensures regex will consume all living tissue (except for HTML which it cannot, as previously prophesied) dear lord help us how can anyone survive this scourge using regex to parse HTML has doomed humanity to an eternity of dread torture and security holes using regex as a tool to process HTML establishes a breach between this world and the dread realm of corrupt entities (like SGML entities, but more corrupt) a mere glimpse of the world of regex parsers for HTML will instantly transport a programmer's consciousness into a world of ceaseless screaming, he comes, the pestilent slithy regex-infection will devour your HTML parser, application and existence for all time like Visual Basic only worse he comes he comes do not fight he comes, his unholy radiance destroying all enlightenment, HTML tags leaking from your eyes like liquid pain, the song of regular expression parsing will extinguish the voices of mortal man from the sphere I can see it can you see it it is beautiful the final snuffing of the lies of Man ALL IS LOST ALL IS LOST the pony he comes he comes he comes the ichor permeates all MY FACE MY FACE oh god no NO NOOOO NO stop the angles are not real ZALGO IS TONY THE PONY HE COMES

The argument was that one could not use Regular Expressions to parse HTML. In reality parsing wild HTML is very difficult as browsers aim to render text even if there is malformed HTML, with many healing algorithms employed. When Knuth designed TeX, the parsing was all handcrafted. He did not automate any parts of it.

5 Json

5.0.1 Selectors for Json

If you are familiar with CSS, then you know what selectors are:

```
{
  "title": "Java 4-ever",
  "url": "http://www.youtube.com/watch?v=H7QVITAWdBQ",
  "actors": [
    {
      "name": "Scala Johansson",
      "character": "A"
    },
    {
      "name": "William Windows",
      "character": "B"
    },
    {
      "name": "Eddie Larrison",
      "character": "C"
    },
    {
      "name": "Mona Lisa Harddrive",
      "character": "D"
    },
    {
      "name": "Lenny Linux",
      "character": "C (Young)"
    }
  ]
}
```

With Json Pointer specification, information can be retrieved as
"actors\1\name"

In reality this is not very elegant...

See some valid criticism at json pointer vs xpath. Although there are valid arguments for using an xpath type of arguments, I am not convinced people are willing to turn the clock back and start using xpath.

5 Json

See RFC 6901 <https://tools.ietf.org/html/rfc6901>
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