

# Manual for Package: root

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## 1 root

Root folder of the source code belonging to the doctoral thesis:

"Multi-Scale Monitoring and Modelling of the Kapuas River Delta",  
Karl Kästner, 2019,

and master thesis:

"Computing the Spectrum of the Confined Hydrogen Atom", Karl Kästner,  
2012.

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Installation instructions:

- 1) Install Matlab
- 2) Install subversion (svn) and add subversion to the search path,  
so that  
it can be called from Matlab
- 3) Checkout this umbrella-project:  
svn checkout https://github.com/karlkastner/root/trunk root/
- 4) Start Matlab
- 5) Change into this directory ('root/')

6) Run the Matlab script "startup" located in this directory

The script then fetches the sub-repositories and adds them to the Matlab search path

Note:

The code upload is work in progress, more parts will be subsequently documented, added and tested.

This is experimental code. Use it wisely and at your own risk.

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## 1.1 ROOTFOLDER

## 1.2 addpath\_recursive

recursively add a directory and sub-directories to the Matlab search path  
call `restoredefaultpath` to undo this

## 1.3 load\_svn externals

script emulating `svn:external`, which is not supported by GitHub

## 1.4 quick\_data\_download

## 1.5 startup