## Table of Contents


..... 1
Read in File ..... 1
Extract Fields ..... 1
Loop Over Arguements ..... 1


```
function params = loadParams(fName, params)

%loadParams Loads the parameters from fName and adds them to the
 struct
%params
```

# Read in File

```
str = fileread(fName);
```

# Extract Fields

```
fieldRegex = '(?<field>(^(?!\%))\w+[\.]?\w+[\.]?\w+?\n?)\s+';
valueRegex = '(?<value>[^\n%]+)';
commentregex = '(?<comment>%[^\n$]+)?';

% regular expression magic, don't touch
pieces = regexp(str, [fieldRegex valueRegex commentregex], ...
    'names','dotexceptnewline','lineanchors');
```

# Loop Over Arguements

```
for k=1:length(pieces)
    field = pieces(k).field;
    val = pieces(k).value;
    tf= ismember(val, char([34 39]));    %remove " and ' from string
    val = strtrim(val(~tf));    %also remove spaces
    %try to convert to double.  If successful, use converted value,
    %otherwise use original (string) value
    valn = str2double(val);
    vale = [];
    try
        vale = eval(val);
    catch
    end

    if ~isnan(valn) %conversion successful, use as numeric
        val = valn;
    elseif ~isempty(vale)
        val = vale;
    end
```

```
        % account for sub structs
        fields = strsplit(field,'.');

        % add to output
        params = setfield(params, fields{:}, val);
    end

end
```

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