

```
!git pull
```

```
From https://github.com/CSSEGISandData/COVID-19
 d1ed7ef3..63649e41 master -> origin/master
 9b65d4ba..15d31687 web-data -> origin/web-data
Updating d1ed7ef3..63649e41
Fast-forward
 .../csse_covid_19_daily_reports/03-28-2020.csv | 3431 ++++++
 .../time_series_covid19_confirmed_global.csv | 504 +--
 .../time_series_covid19_deaths_global.csv | 504 +--
 .../time_series_covid19_recovered_global.csv | 476 +--
 4 files changed, 4179 insertions(+), 736 deletions(-)
 create mode 100644 csse_covid_19_data/csse_covid_19_daily_reports/03-28-2020.csv
```

```
RAW=struct();
RAW.Confirmed = import_git('time_series_covid19_confirmed_global.csv');
```

Warning: Column headers from the file were modified to make them valid MATLAB identifiers before creating variable names for the table. The original column headers are saved in the VariableDescriptions property. Set 'PreserveVariableNames' to true to use the original column headers as table variable names.

```
RAW.Deaths = import_git('time_series_covid19_deaths_global.csv');
```

Warning: Column headers from the file were modified to make them valid MATLAB identifiers before creating variable names for the table. The original column headers are saved in the VariableDescriptions property. Set 'PreserveVariableNames' to true to use the original column headers as table variable names.

```
% RAW.Recovered = import_git('time_series_covid19_recovered_global.csv');
```

```
Categories=fieldnames(RAW);
```

```
StartDate = datetime(2020,01,22)
```

```
StartDate = datetime
22-Jan-2020
```

```
EndDate = StartDate+days(size(RAW.(Categories{1}),2)-5)
```

```
EndDate = datetime
28-Mar-2020 00:00:00
```

```
Selected_Countries=categorical({'US','United Kingdom','Germany','Switzerland','Canada','France',
'Singapore','Australia','India','Mauritius',...
'Saudi Arabia','Korea, South','Italy'});
```

```
gradient_span=5; %days
```

```
CountrywiseData=struct();
for category_count=1:size(Categories,1)
    plot_titles=cell(size(Selected_Countries,2),1);
    for country_count=1:size(Selected_Countries,2)
```

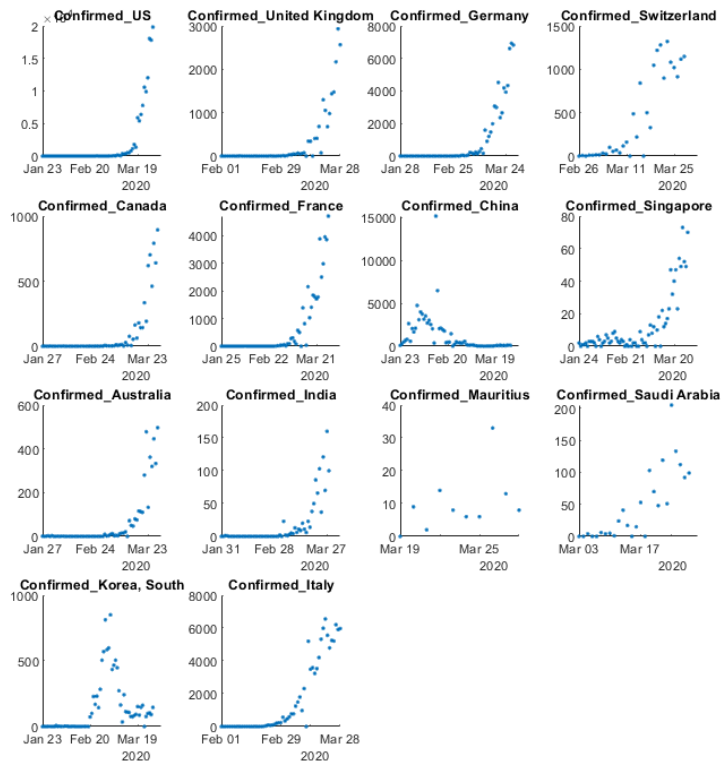
```

RAW.(Categories{category_count}).Country_Region=categorical(RAW.(Categories{category_co
Idn=RAW.(Categories{category_count}).Country_Region==Selected_Countries(country_count);
temp=RAW.(Categories{category_count}){Idn,(5:end)};
CountrywiseData.(Categories{category_count})(country_count,:)=sum(temp,1);
plot_titles{country_count,1}=[char(Categories{category_count}), '_',char(Selected_Countr
end

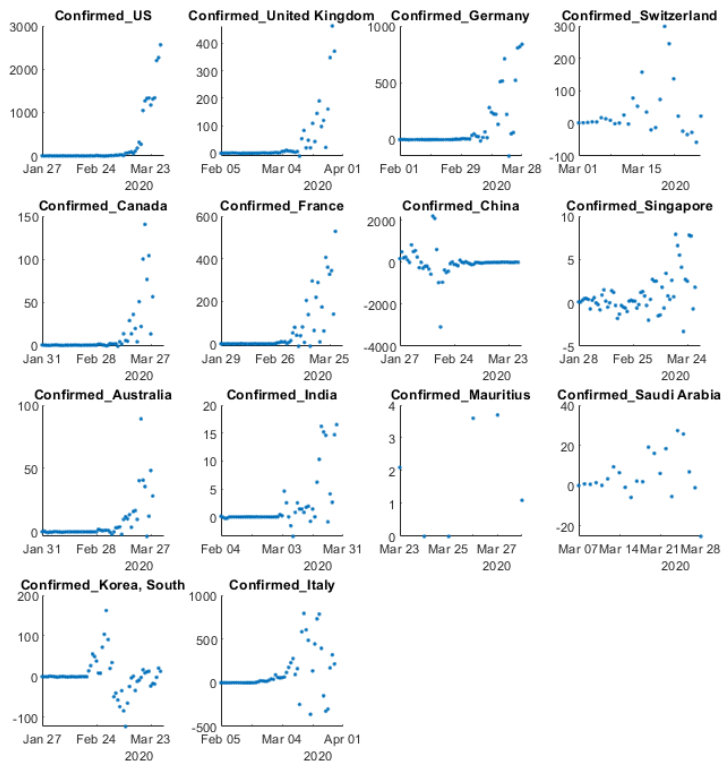
fig_title=char(Categories{category_count});
SimpleScatter(StartDate,CountrywiseData.(Categories{category_count}),fig_title,plot_titles,
end

```

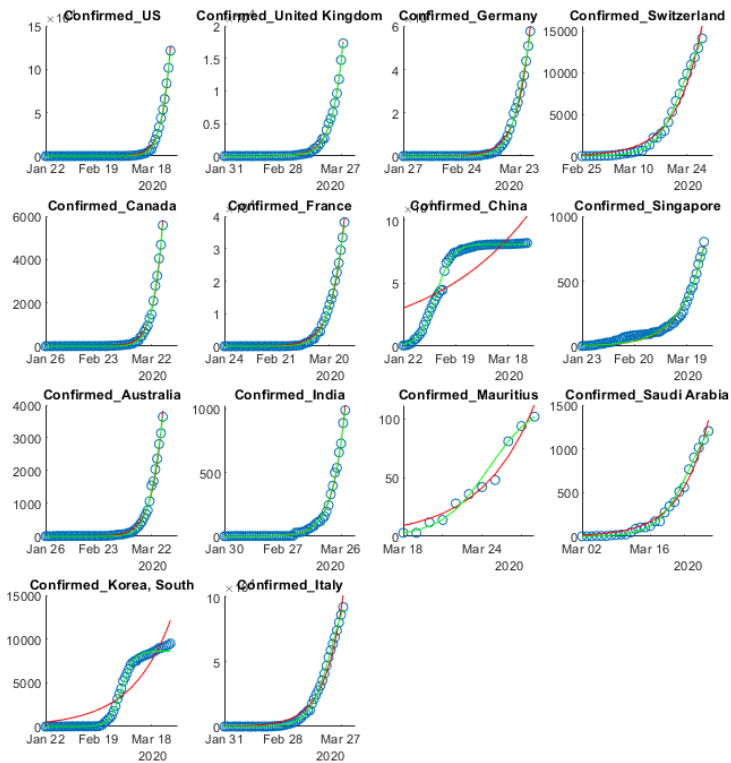
Starting parallel pool (parpool) using the 'local' profile ...
Connected to the parallel pool (number of workers: 8).
ans =
'DailyIncrease_Confirmed'



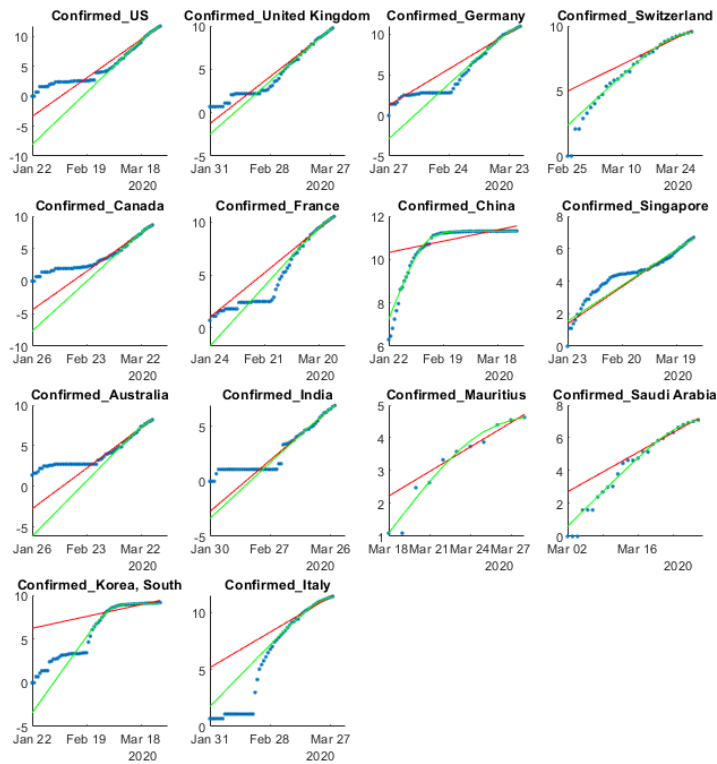
ans =
'Grad of DailyIncrease_Confirmed'



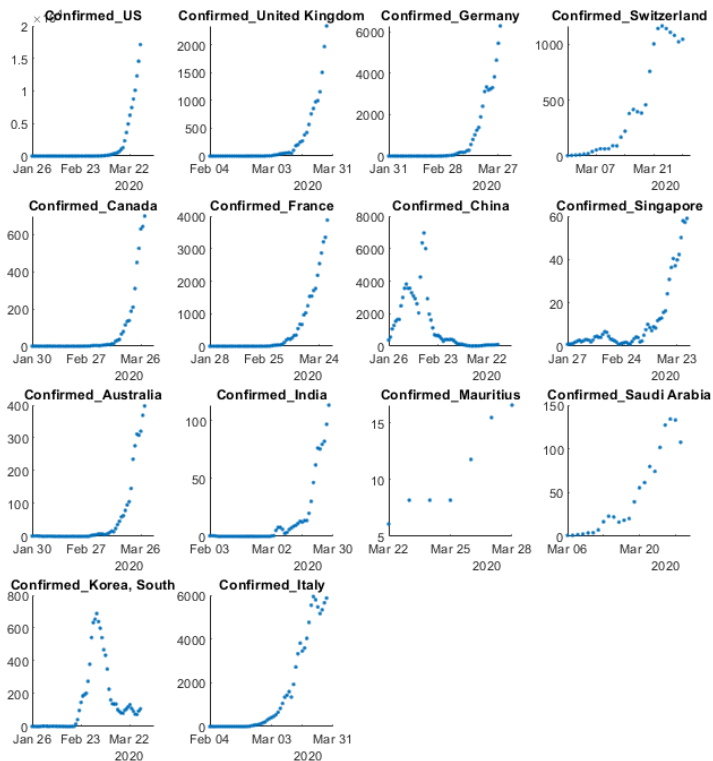
```
ans =
'Confirmed'
```



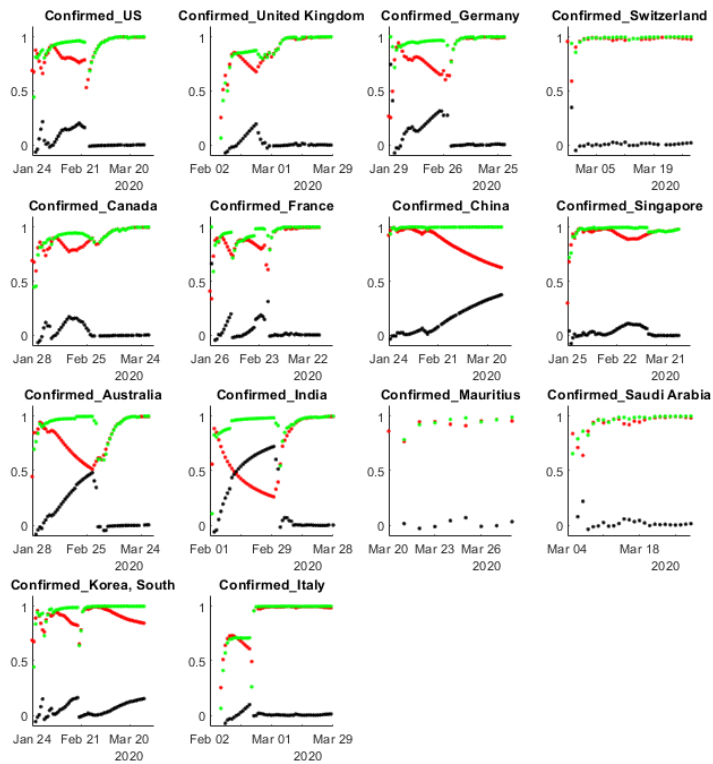
```
ans =
'Log_Confirmed'
```



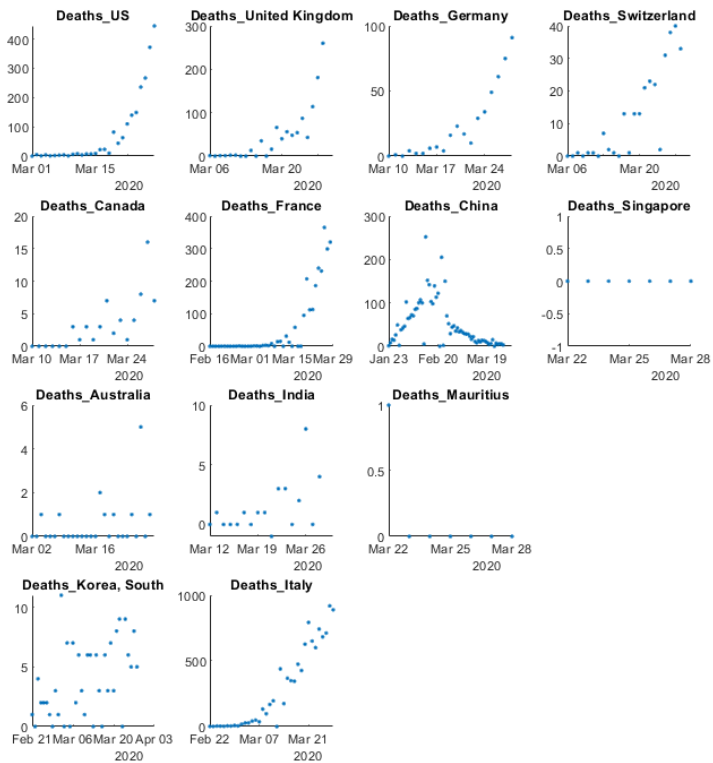
```
ans =
'Gradient_Confirmed'
```



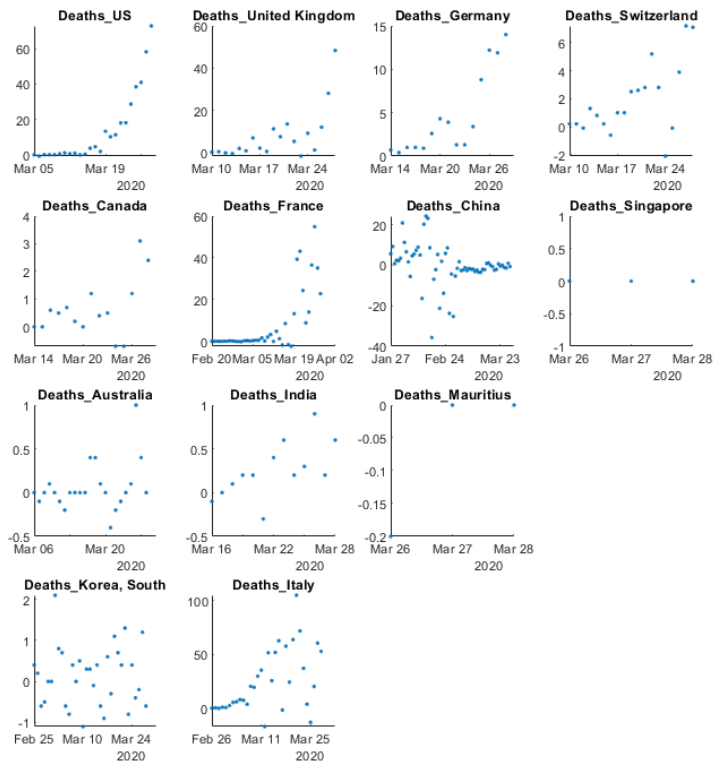
```
ans =
'Goodness of Fit_Confirmed'
```



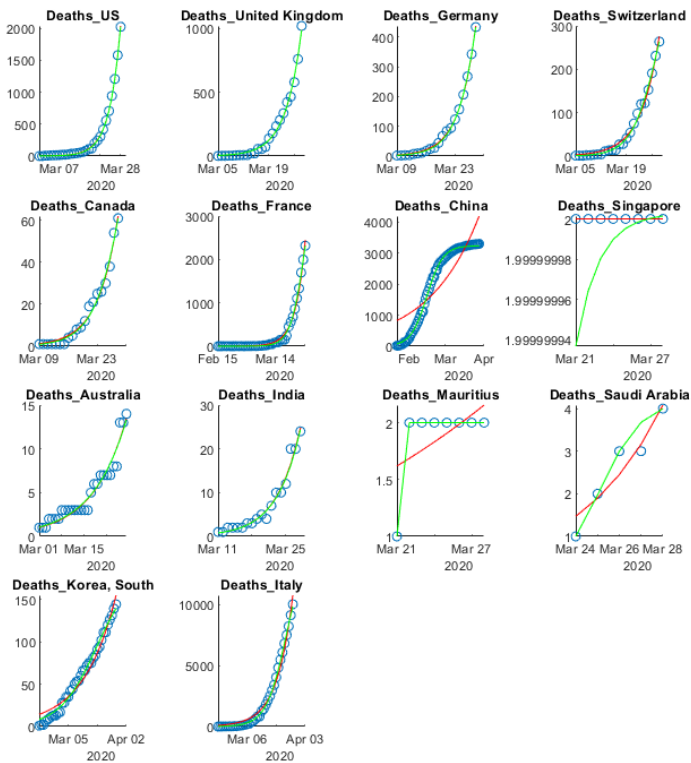
ans =
'DailyIncrease_Deaths'



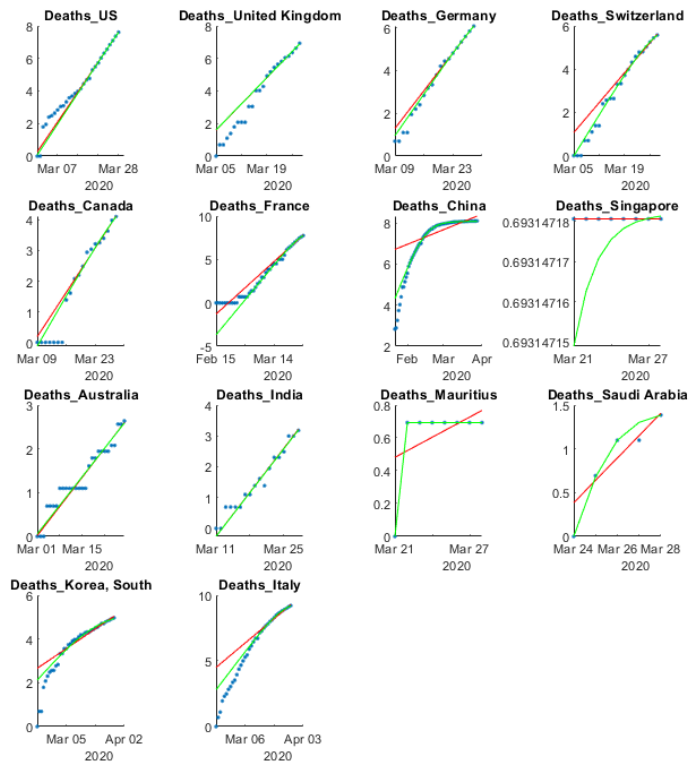
ans =
'Grad of DailyIncrease_Deaths'



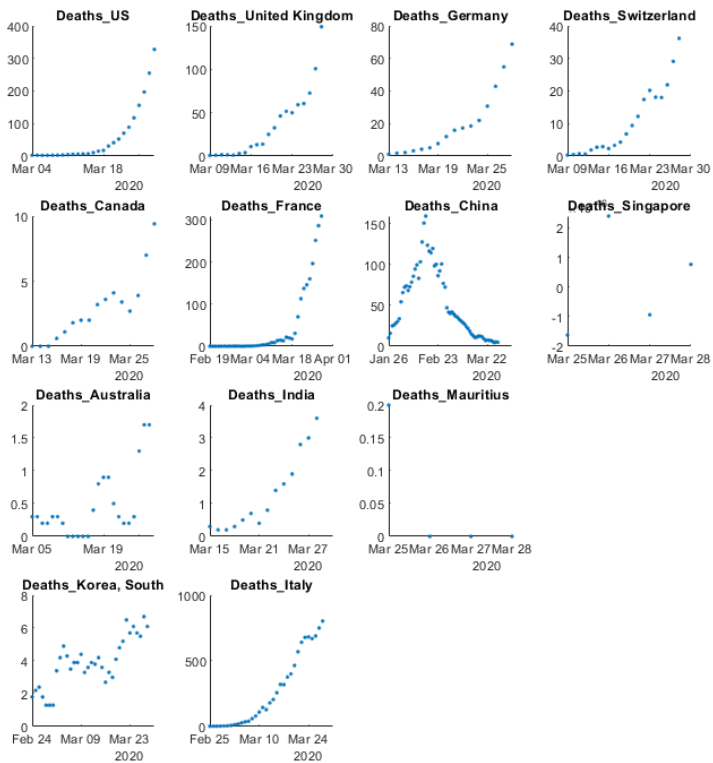
```
ans =
'Deaths'
```



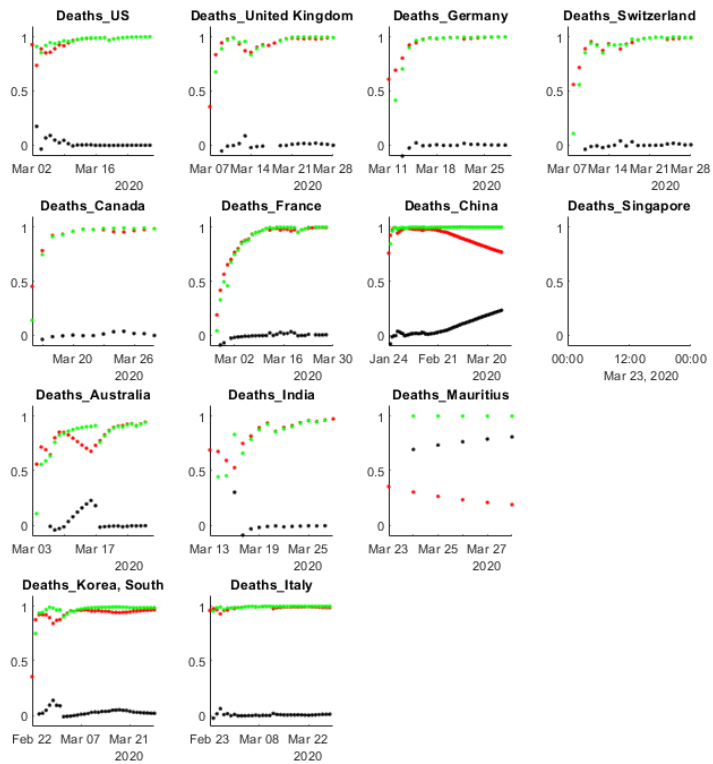
```
ans =
'Log_Deaths'
```



```
ans =
'Gradient_Deaths'
```



```
ans =
'Goodness of Fit_Deaths'
```



```
rep_BaseName=datetime;
rep_BaseName.Format='yyyyMMdd';
rep_BaseName=['report_',char(rep_BaseName),'.pdf'];
matlab.internal.liveeditor.openAndConvert(which('main.mlx'),rep_BaseName);
```