

```
!git pull
```

```
Updating 203881b..301c88f
Fast-forward
 README.md | 2 +
 .../csse_covid_19_daily_reports/03-24-2020.csv | 3418 ++++++
 .../time_series_covid19_confirmed_global.csv | 481 +--
 .../time_series_covid19_deaths_global.csv | 481 +--
 4 files changed, 3904 insertions(+), 478 deletions(-)
 create mode 100644 csse_covid_19_data/csse_covid_19_daily_reports/03-24-2020.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.Confirmed = trial('time_series_19-covid-Confirmed.csv');
% RAW.Deaths = trial('time_series_19-covid-Deaths.csv');
RAW.Recovered = import_git('time_series_19-covid-Recovered.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.

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

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

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

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

```
EndDate = datetime
24-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_count}).Country_Region==Selected_Countries(country_count));
        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_Countries(country_count))];
    end

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

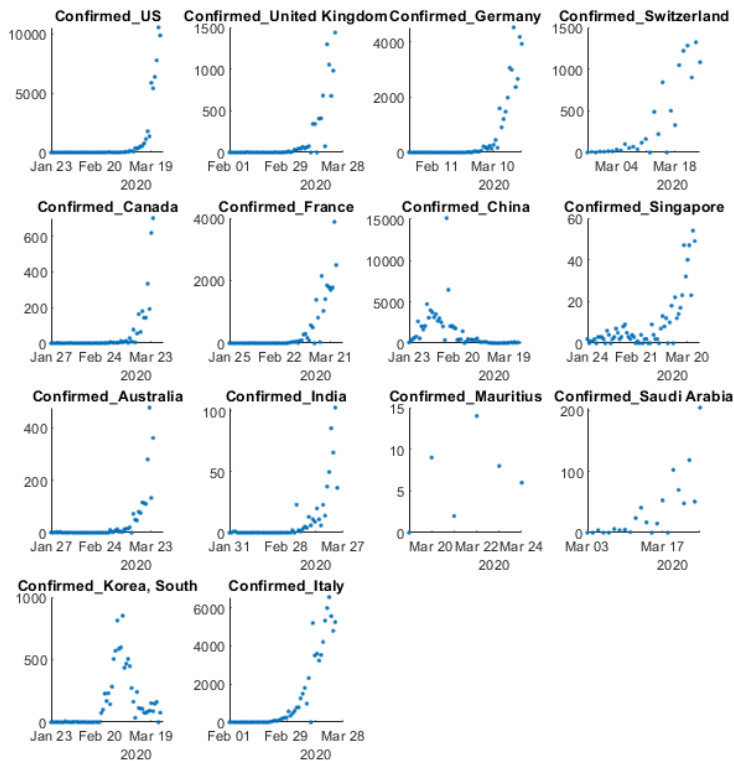
```

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

```

ans =
'DailyIncrease_Confirmed'

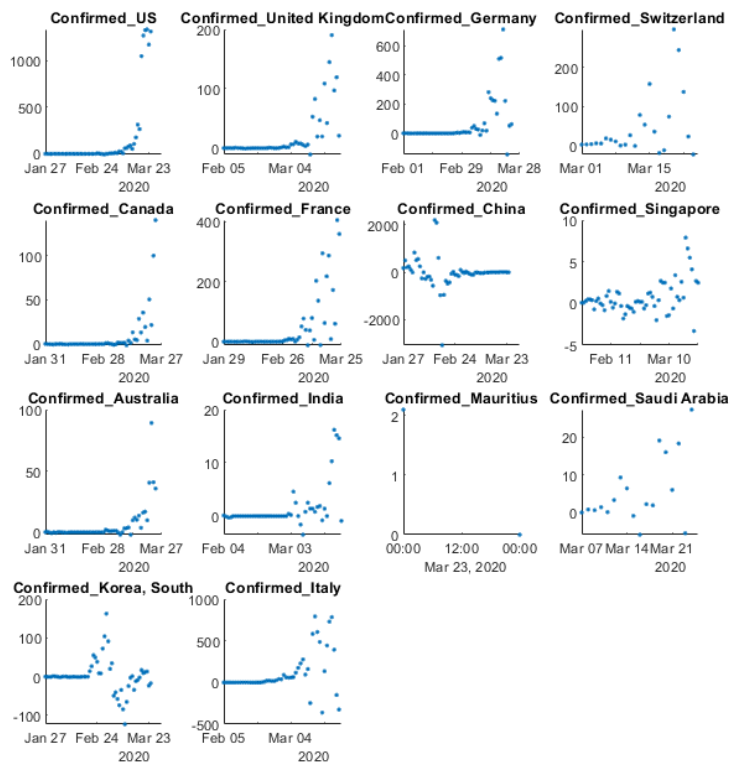
```



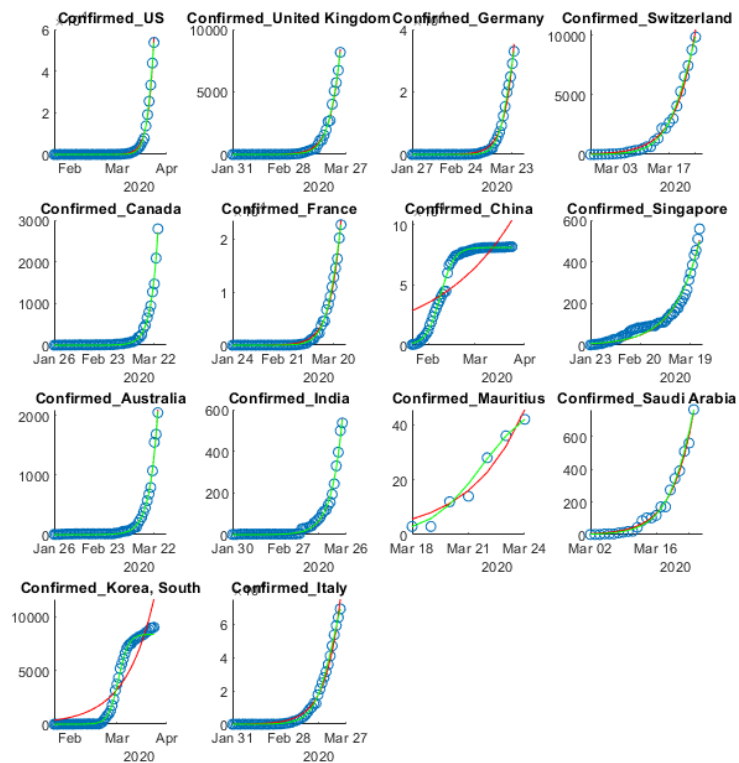
```

ans =
'Grad of DailyIncrease_Confirmed'

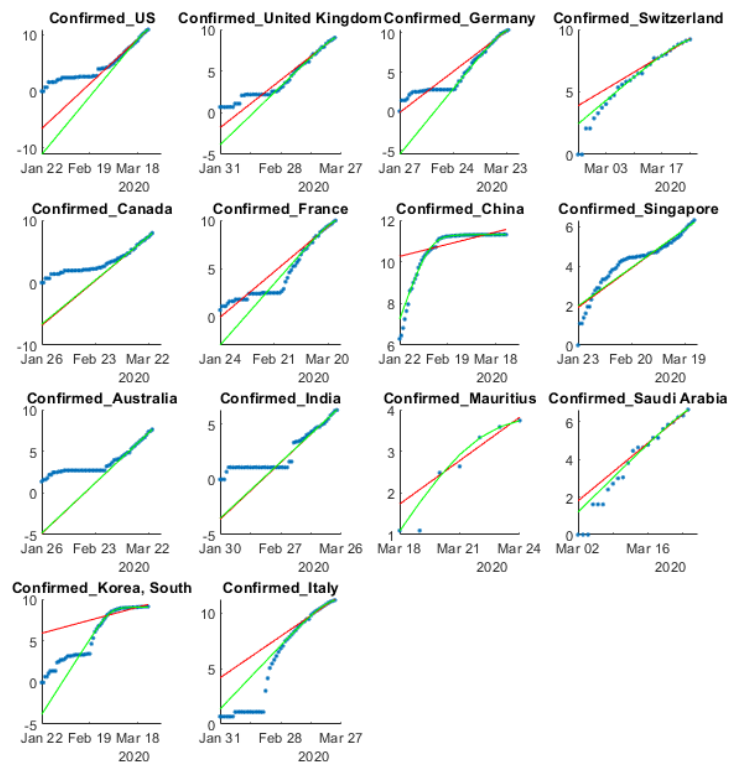
```



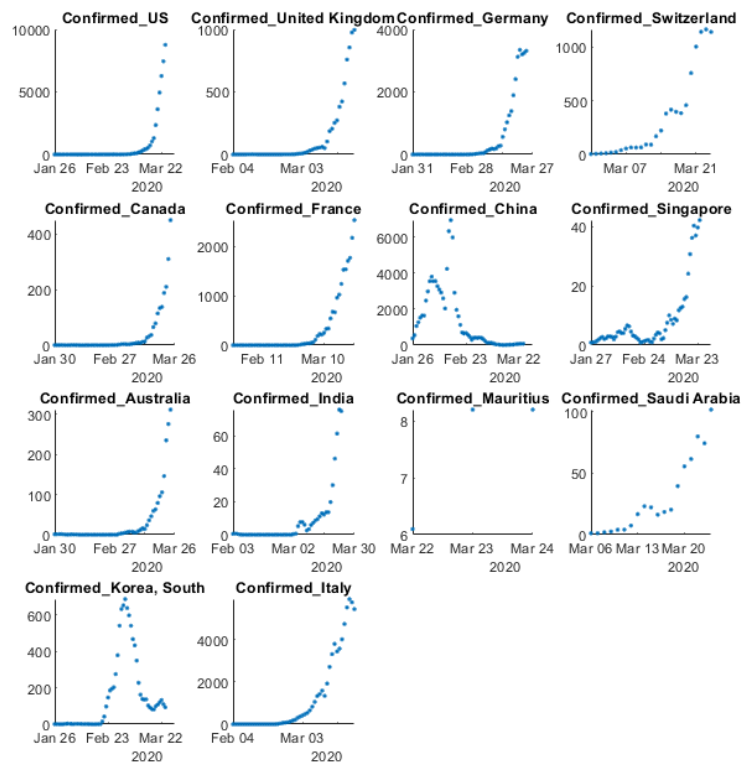
ans =
'Confirmed'



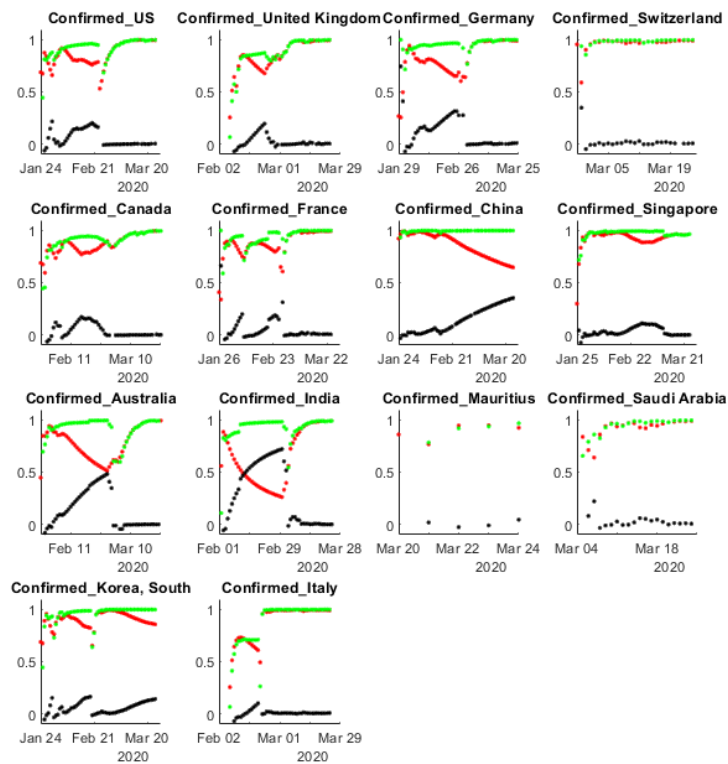
ans =
'Log_Confirmed'



ans =
'Gradient_Confirmed'



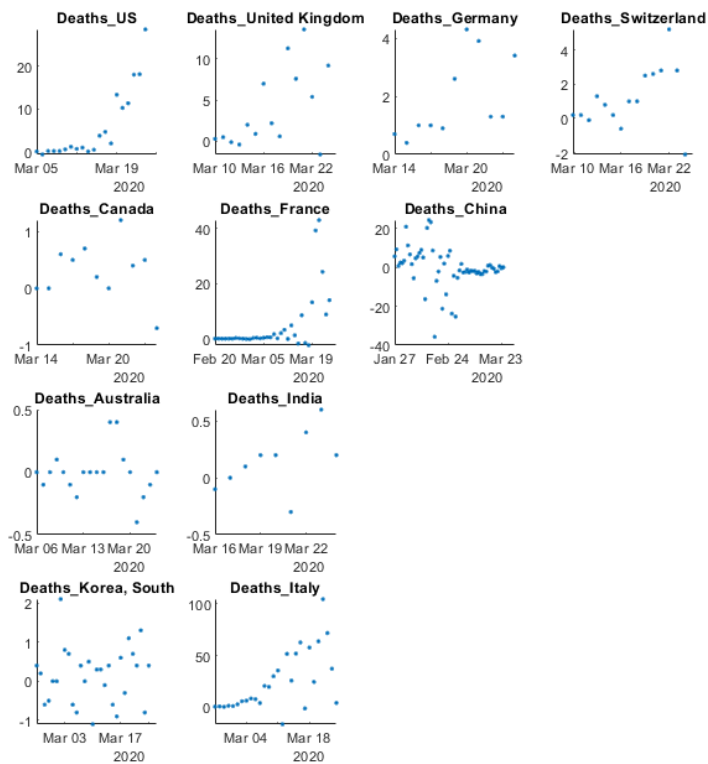
ans =
'Goodness of Fit_Confirmed'



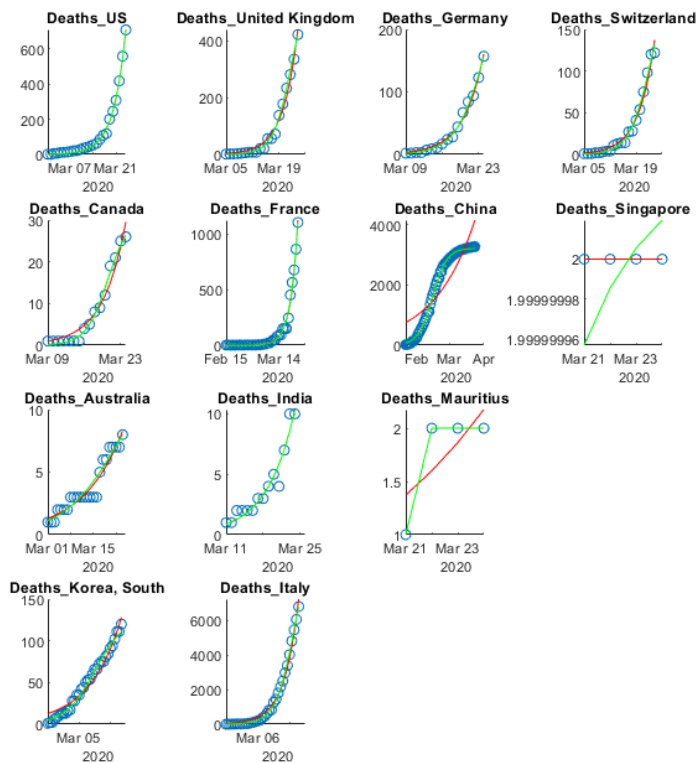
ans =
'DailyIncrease_Deaths'



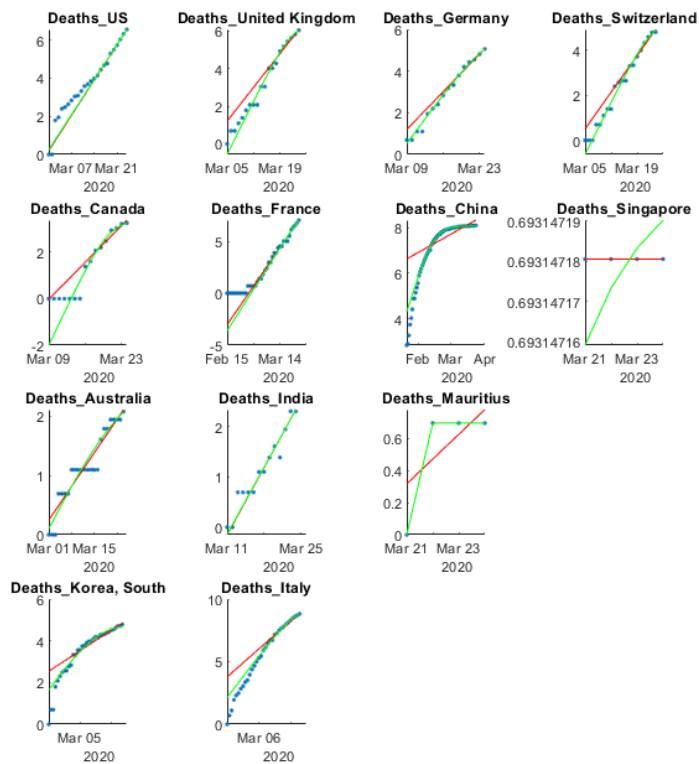
ans =
'Grad of DailyIncrease_Deaths'



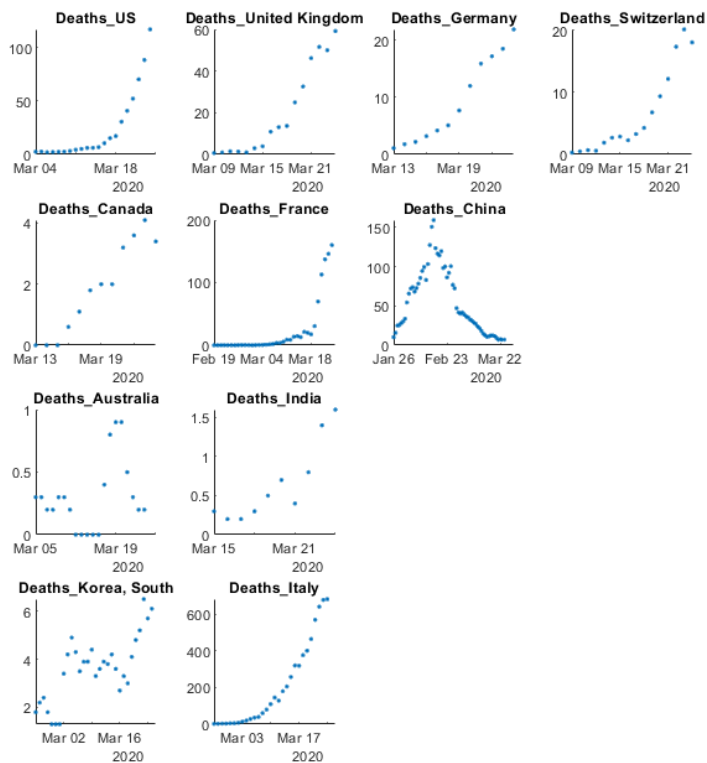
```
ans =
'Deaths'
```



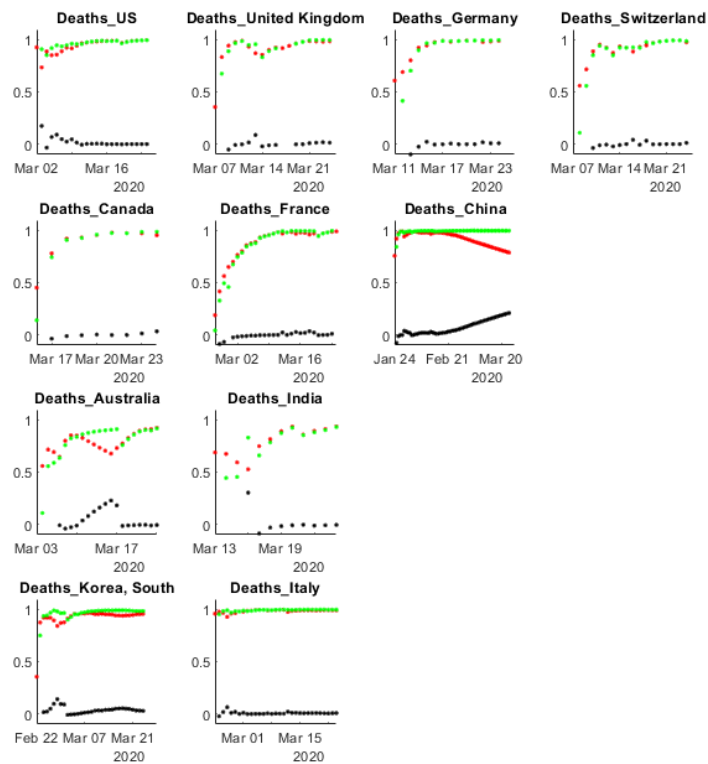
```
ans =
'Log_Deaths'
```



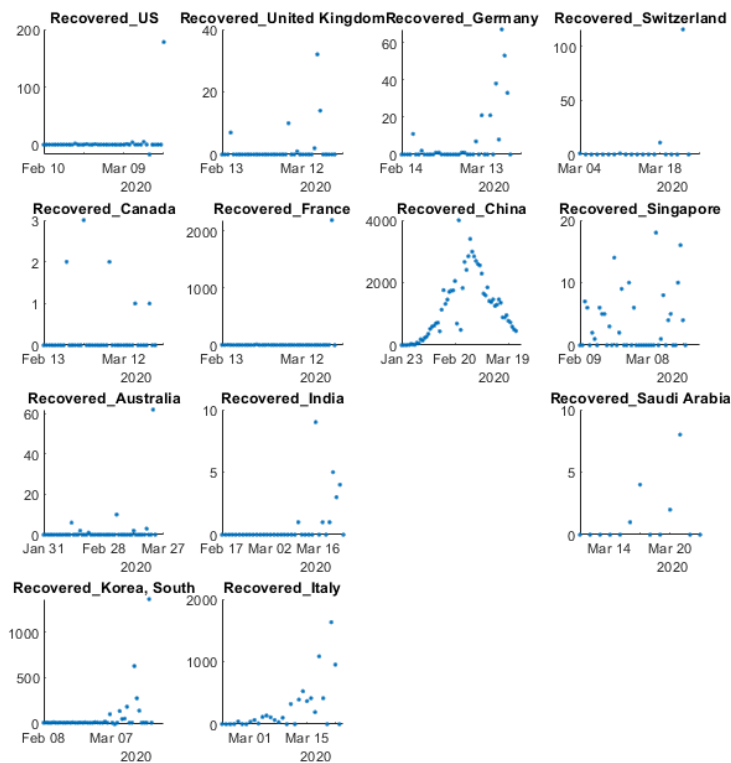
```
ans =
'Gradient_Deaths'
```



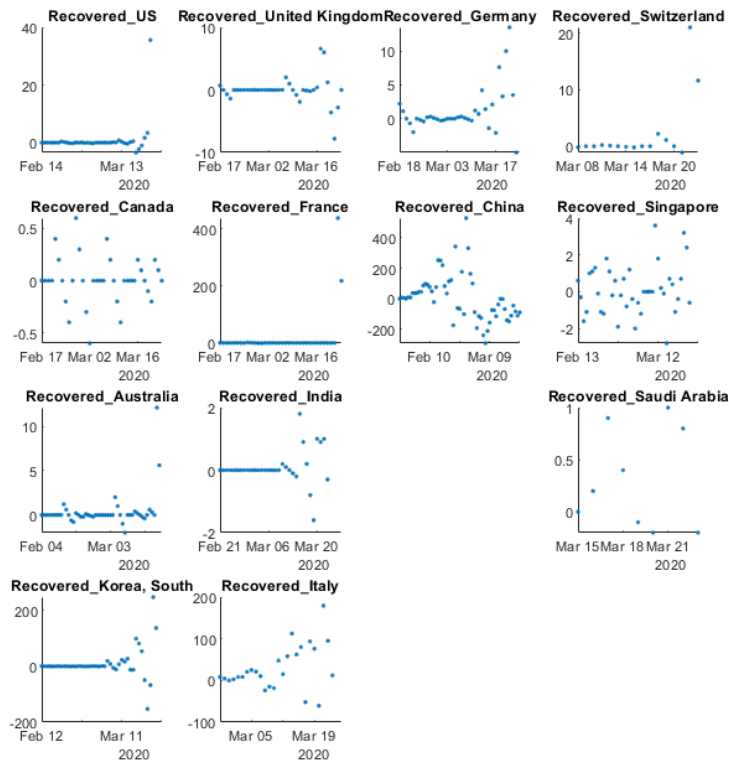
```
ans =
'Goodness of Fit_Deaths'
```



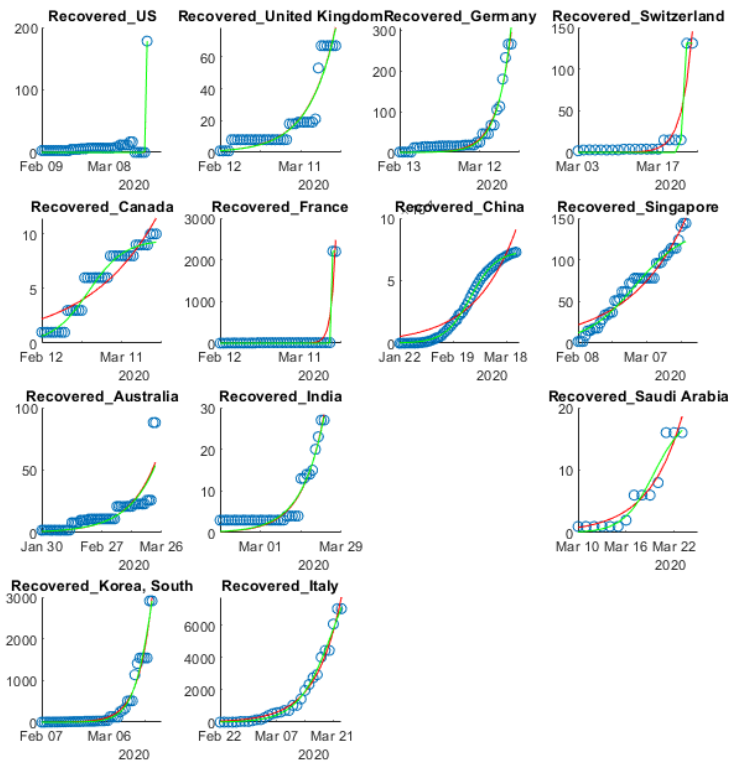
ans =
'DailyIncrease_Recovered'



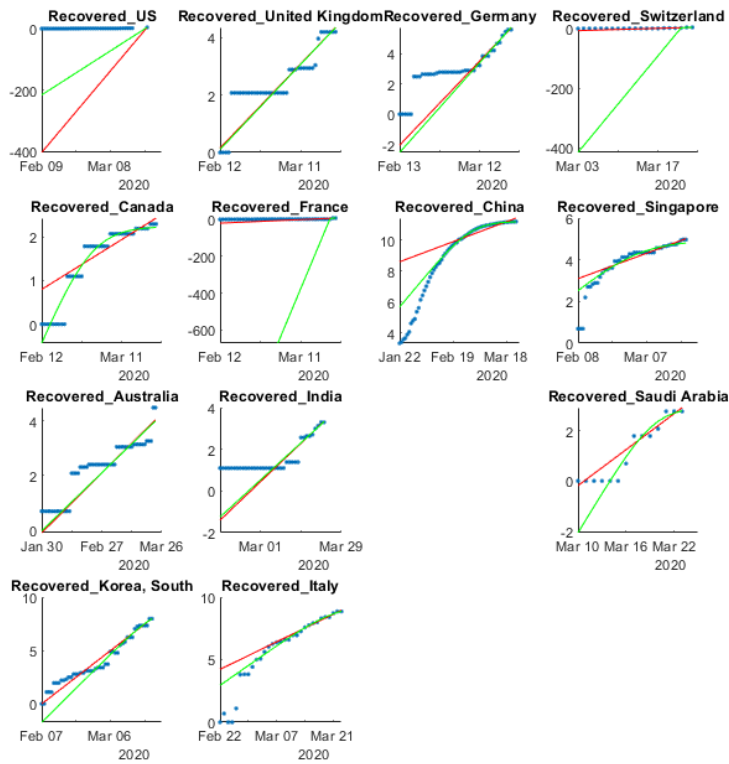
ans =
'Grad of DailyIncrease_Recovered'



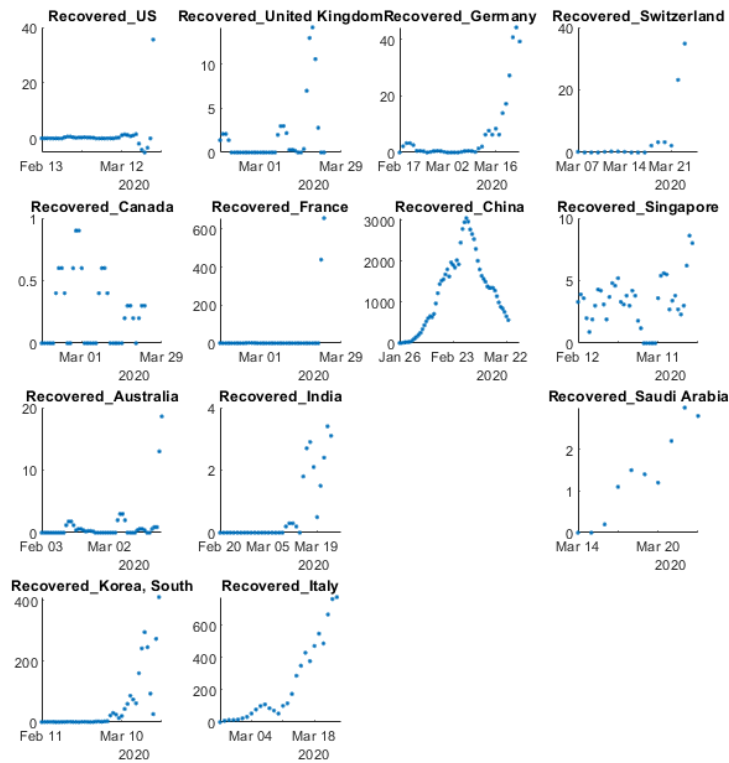
ans =
'Recovered'



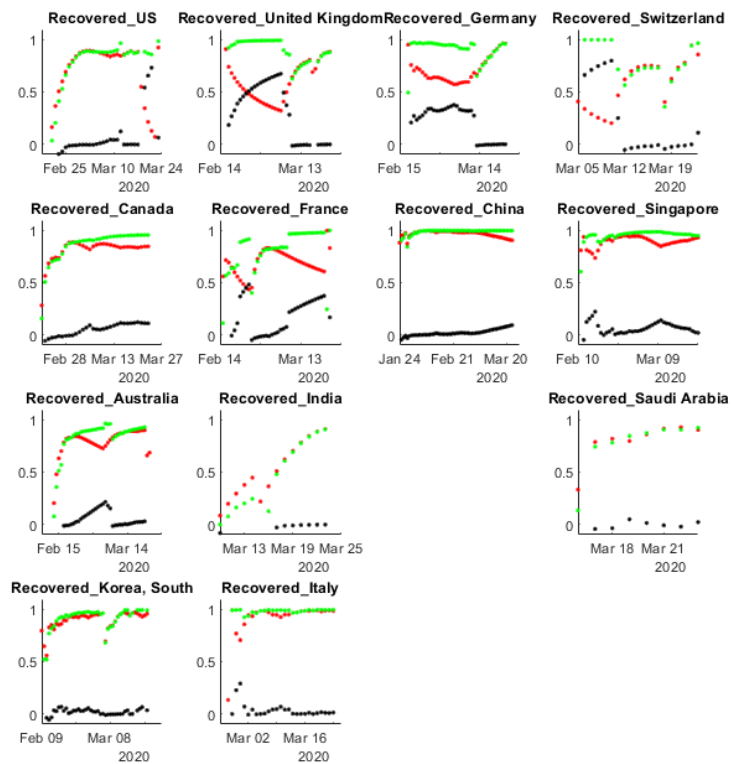
ans =
'Log_Recovered'



ans =
'Gradient_Recovered'



ans =
'Goodness of Fit_Recovered'



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