```
!git pull
```

```
From https://github.com/CSSEGISandData/COVID-19
   43e6d369..6af1fed7  master     -> origin/master
 * [new branch]        CSSEGISandData-patch-02042020 -> origin/CSSEGISandData-patch-02042020
   1994a148..8e4c0334  web-data   -> origin/web-data
Updating 43e6d369..6af1fed7
Fast-forward
 csse_covid_19_data/UID_ISO_FIPS_LookUp_Table.csv    |   10 +-
 .../csse_covid_19_daily_reports/04-02-2020.csv      | 2570 ++++++++
 .../time_series_covid19_confirmed_US.csv            | 6508 ++++++++++----------
 .../time_series_covid19_confirmed_global.csv        |  516 +-
 .../time_series_covid19_deaths_US.csv               | 6508 ++++++++++----------
 .../time_series_covid19_deaths_global.csv           |  516 +-
 .../time_series_covid19_recovered_global.csv        |  488 +-
 7 files changed, 9849 insertions(+), 7267 deletions(-)
 create mode 100644 csse_covid_19_data/csse_covid_19_daily_reports/04-02-2020.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');
```

```
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
```

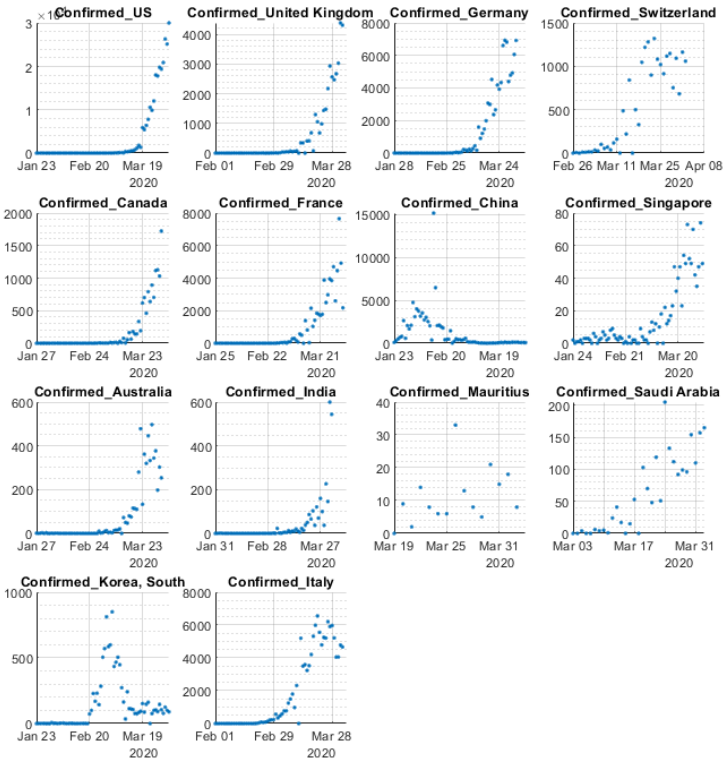
```
EndDate = StartDate+days(size(RAW.(Categories{1}),2)-5)
```

```
EndDate = datetime
   02-Apr-2020 00:00:00
```

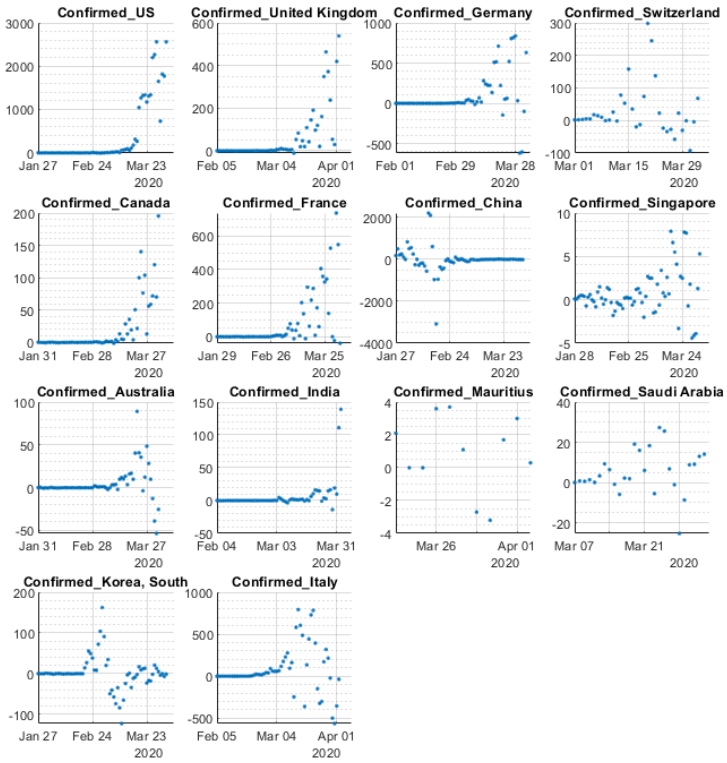
```
Selected_Countries=categorical({'US','United Kingdom','Germany','Switzerland','Canada','France'
    'Singapore','Australia','India','Mauritius',...
    'Saudi Arabia','Korea, South','Italy'});
```

```
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
```

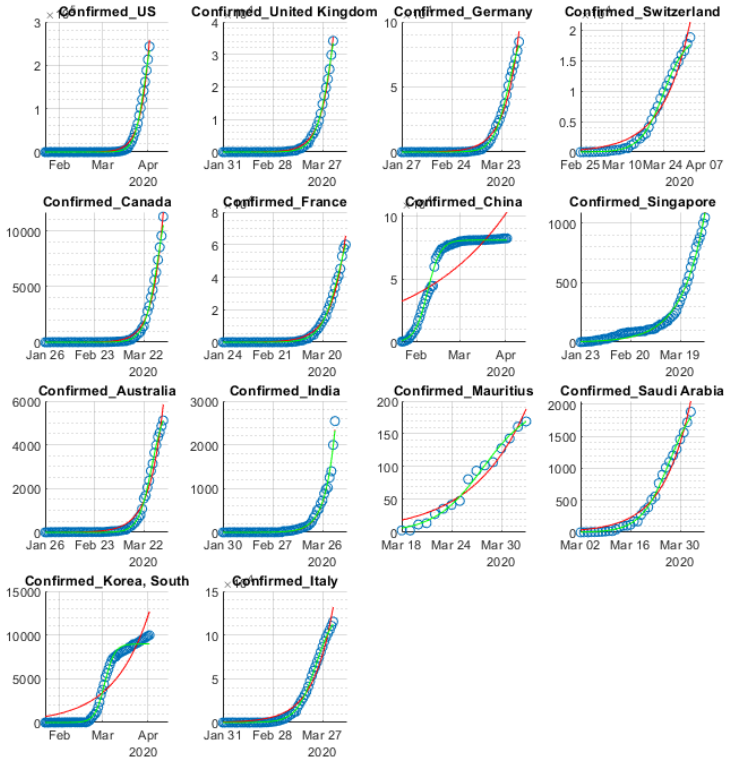
```
Starting parallel pool (parpool) using the 'local' profile ...
Connected to the parallel pool (number of workers: 8).
ans =
'DailyIncrease_Confirmed'
```



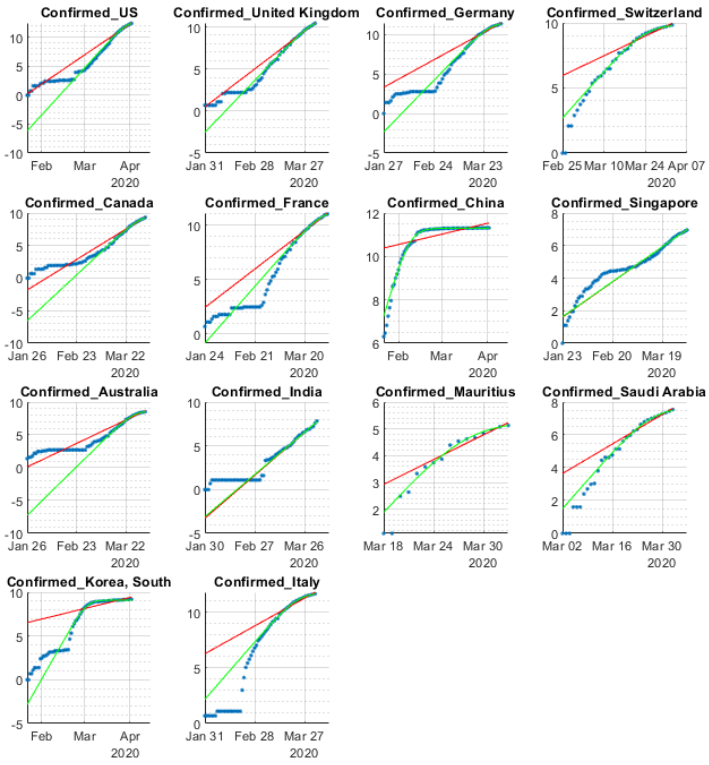

```
ans =
'Grad of DailyIncrease_Confirmed'
```



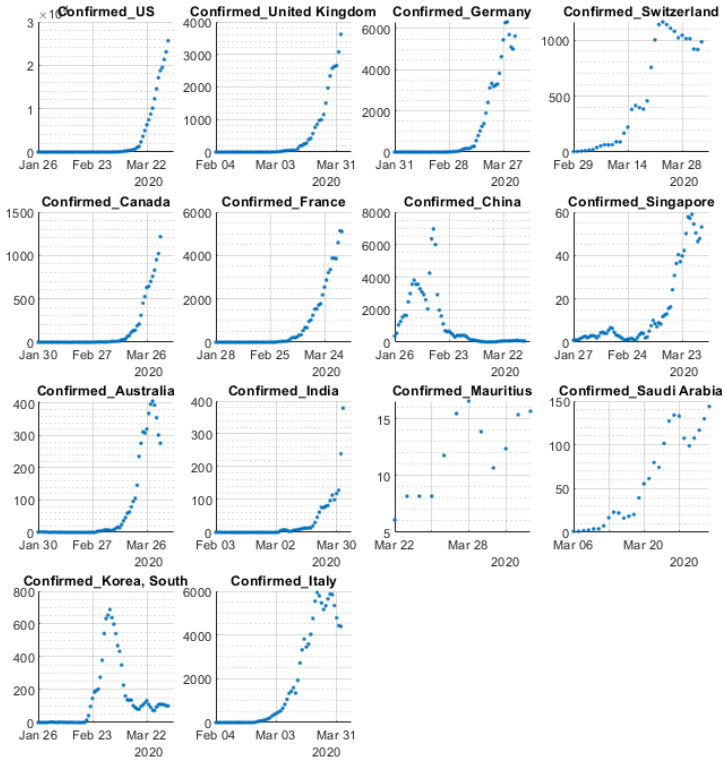

```
ans =
'Confirmed'
```



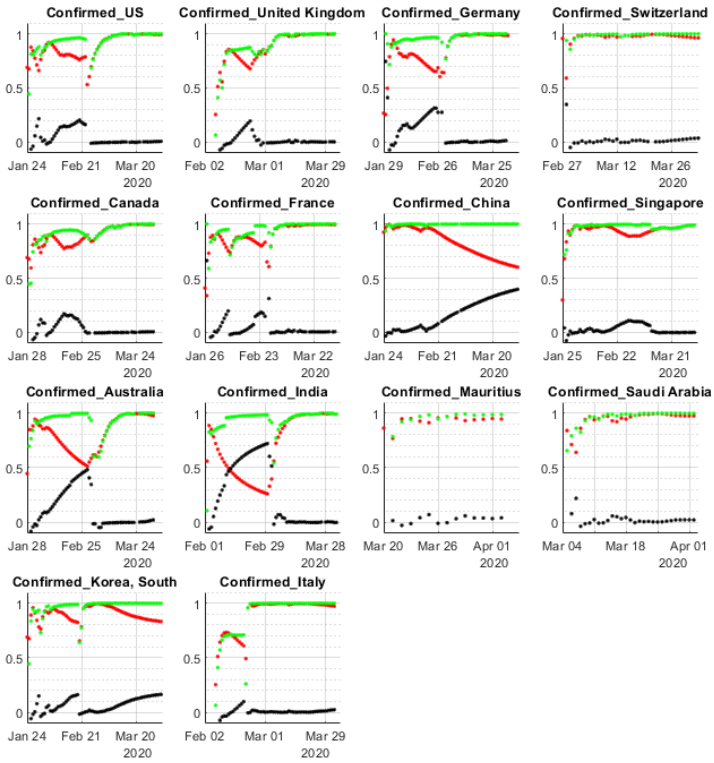

```
ans =
'Log_Confirmed'
```



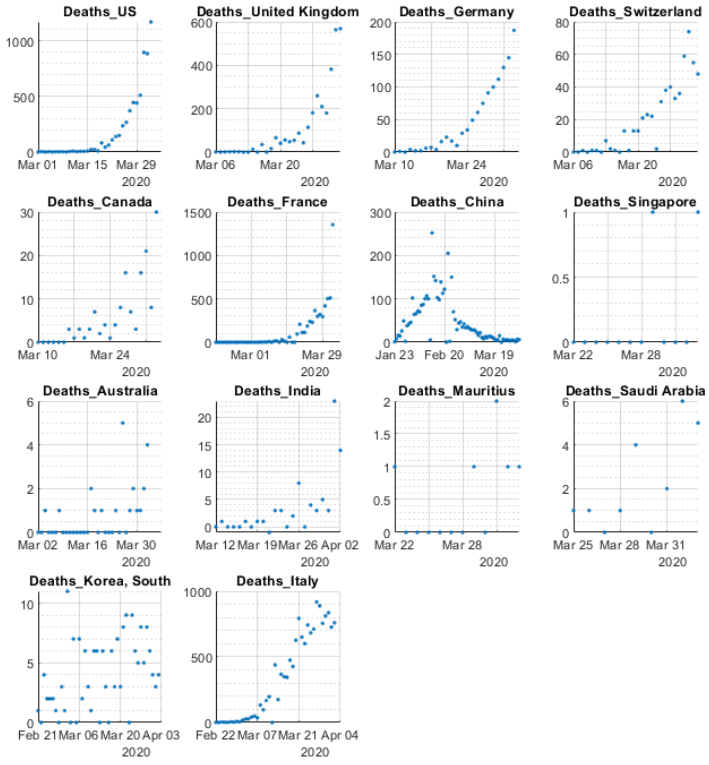

```
ans =
'Gradient_Confirmed'
```



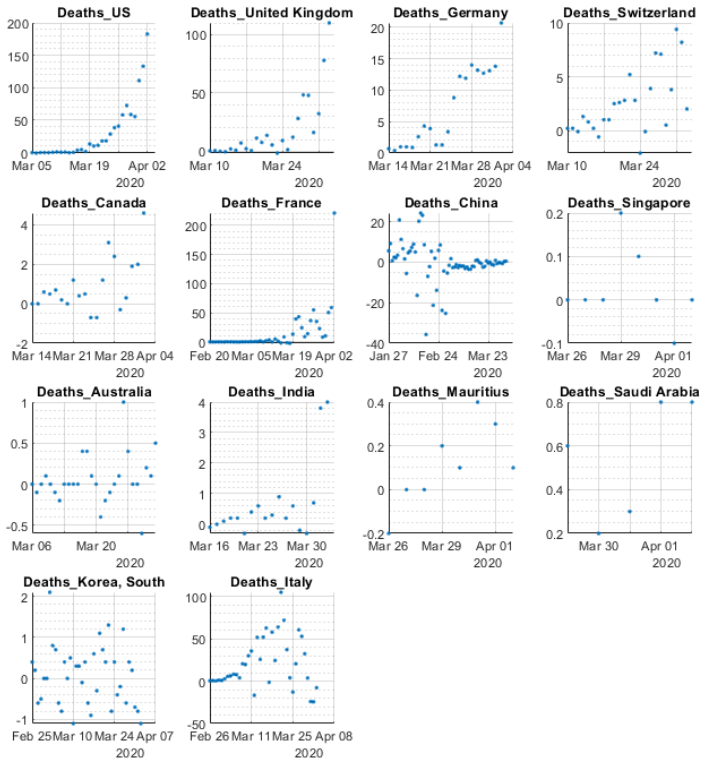

```
ans =
'Goodness of Fit_Confirmed'
```



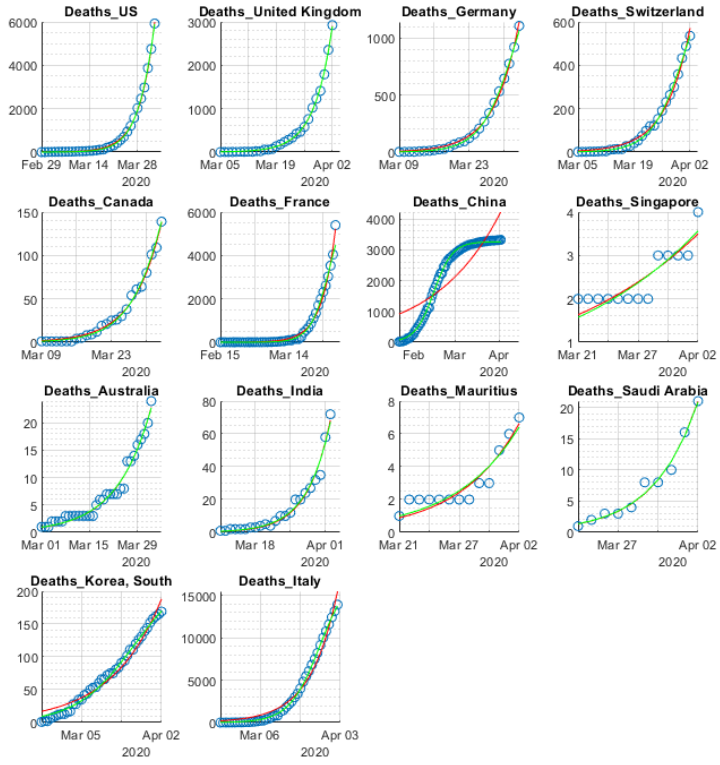

```
ans =
'DailyIncrease_Deaths'
```



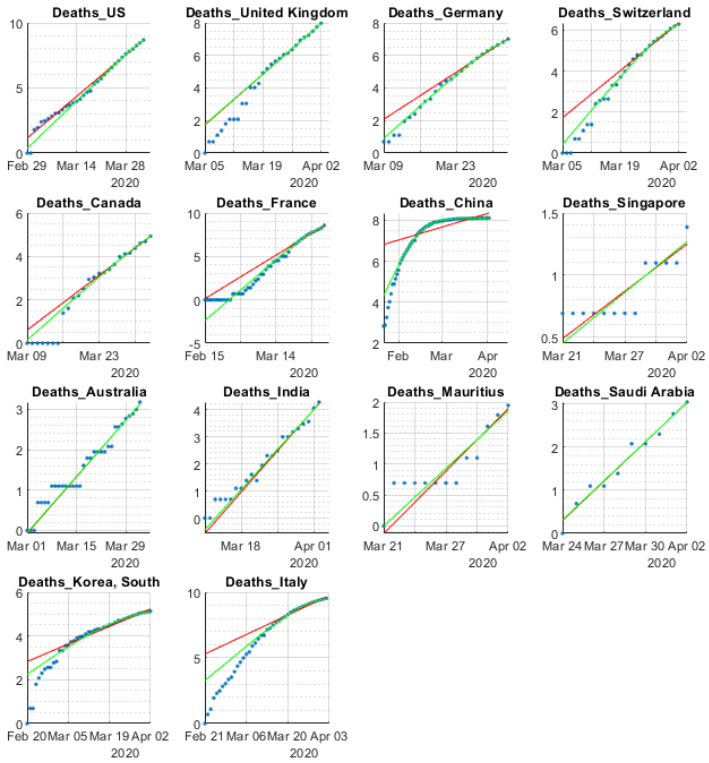

```
ans =
'Grad of DailyIncrease_Deaths'
```



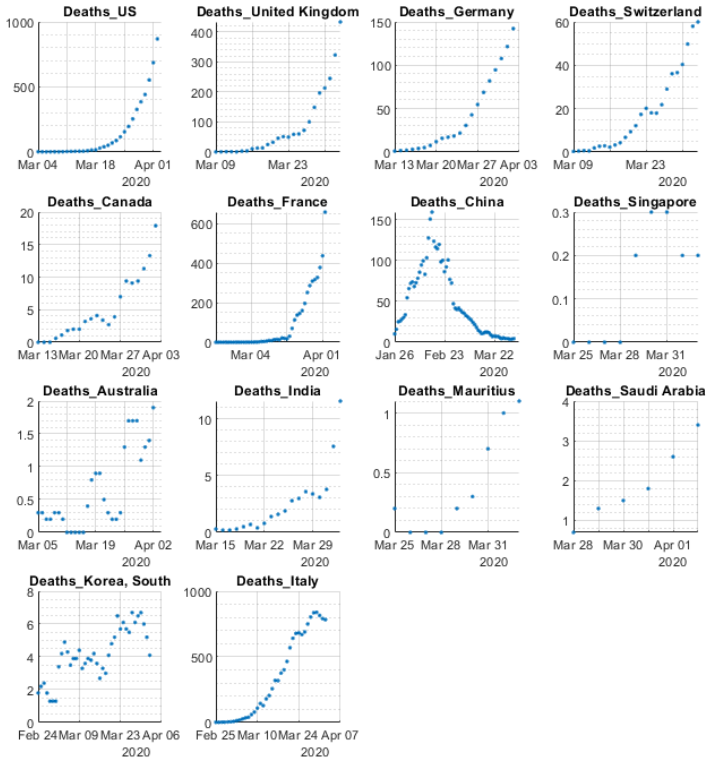

```
ans =
'Deaths'
```



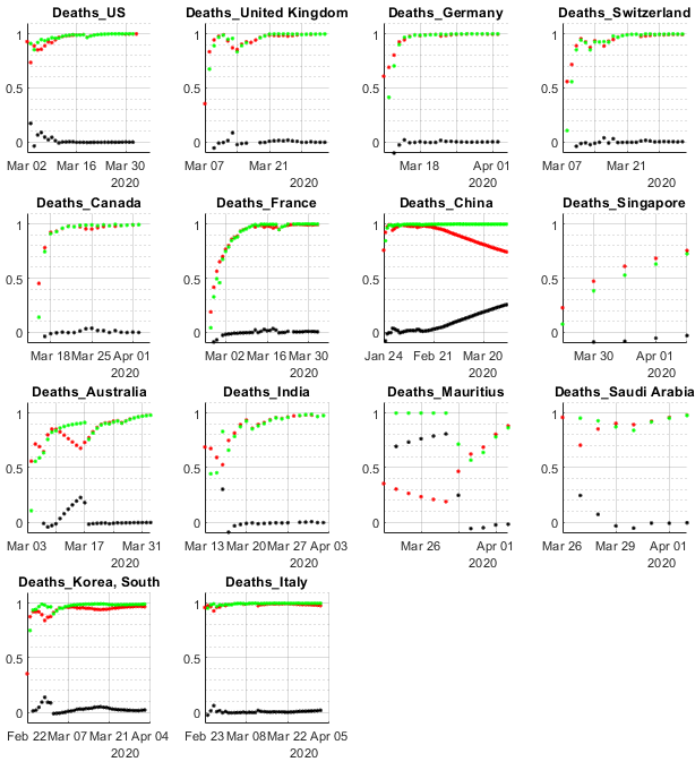

```
ans =
'Log_Deaths'
```



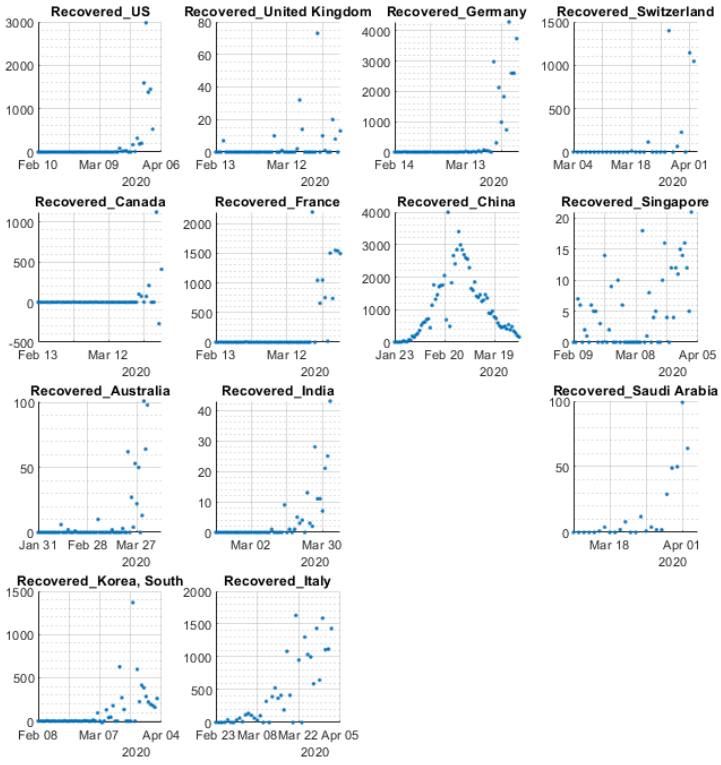

```
ans =
'Gradient_Deaths'
```



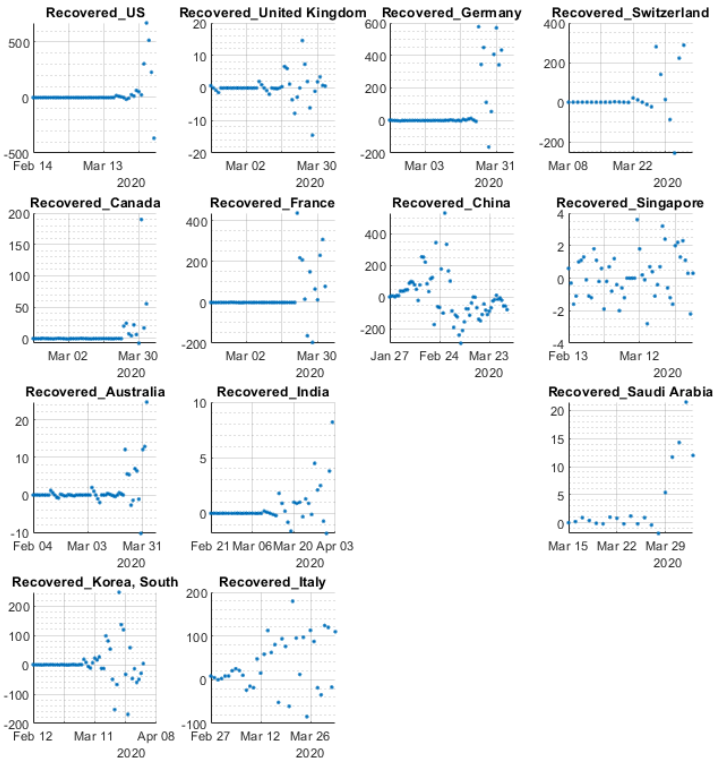

```
ans =
'Goodness of Fit_Deaths'
```



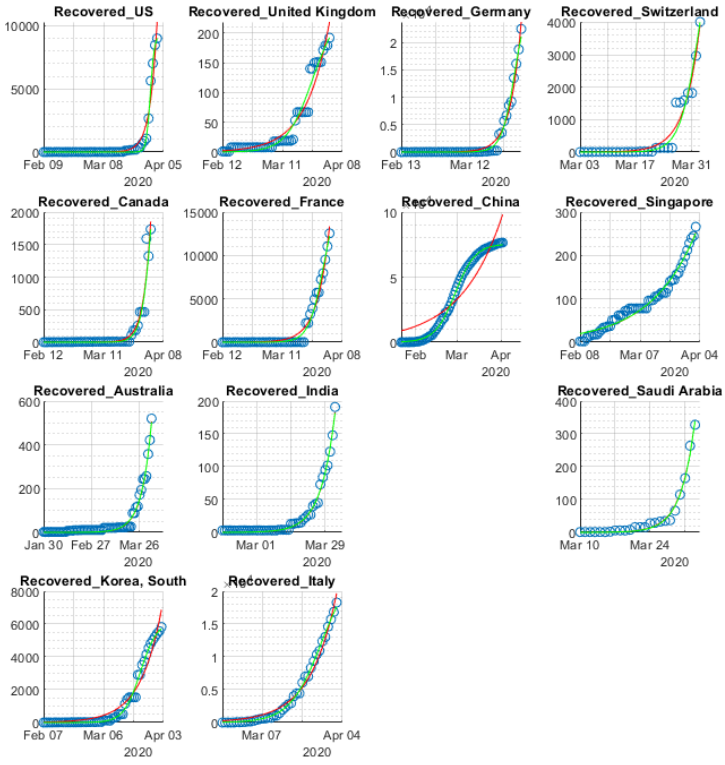

```
ans =
'DailyIncrease_Recovered'
```



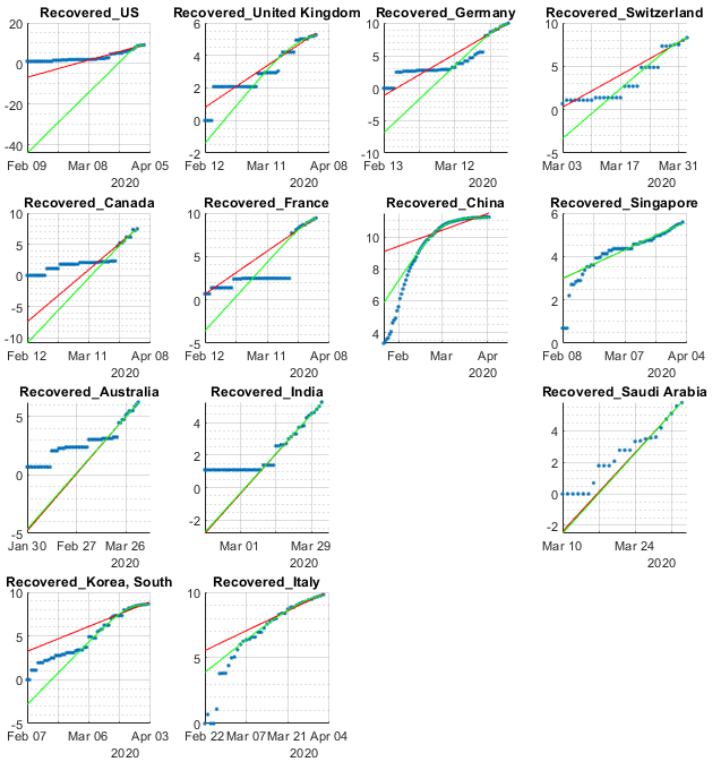

```
ans =
'Grad of DailyIncrease_Recovered'
```



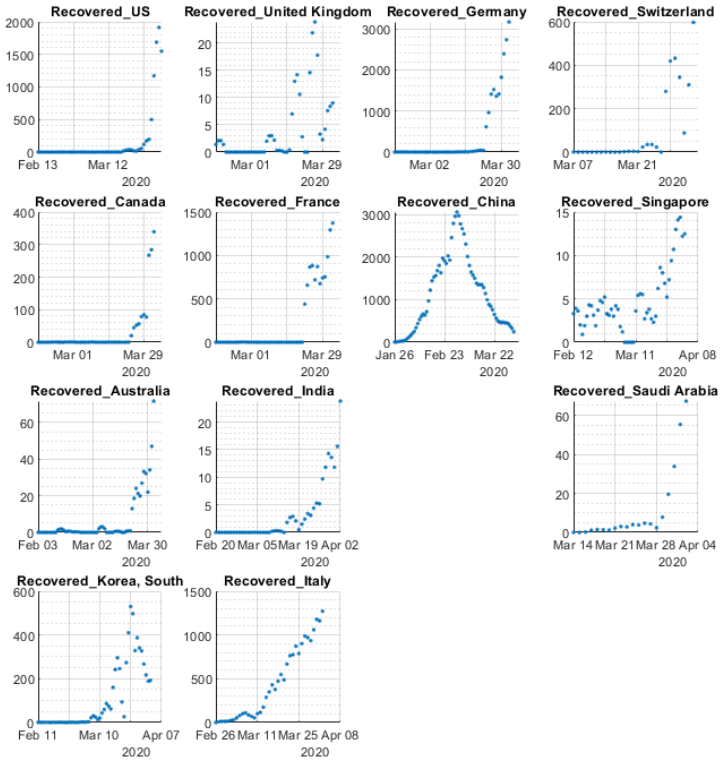

```
ans =
'Recovered'
```



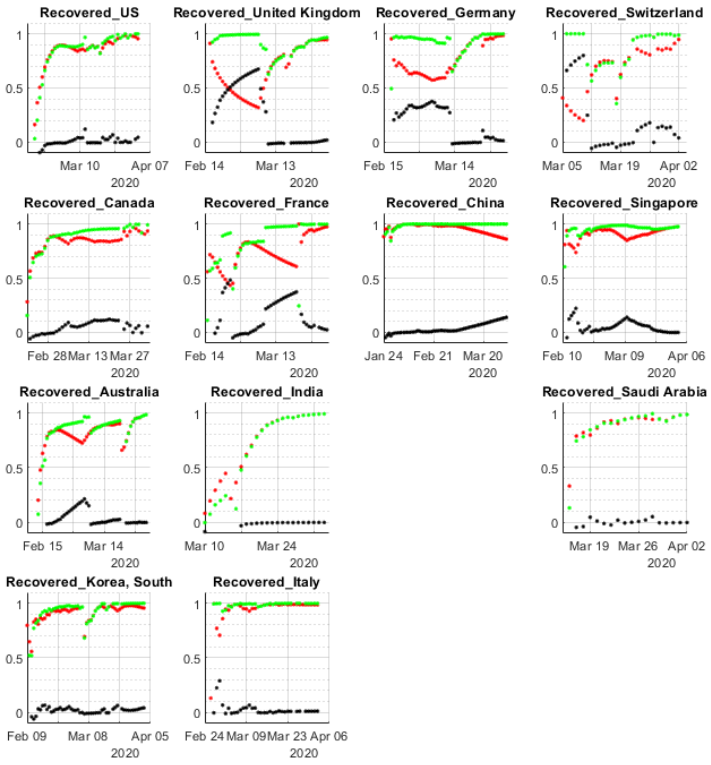

```
ans =
'Log_Recovered'
```




```
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);
```