

```
!git pull
```

Already up to date.

```
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');
```

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

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

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

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

```
EndDate = datetime  
25-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
```

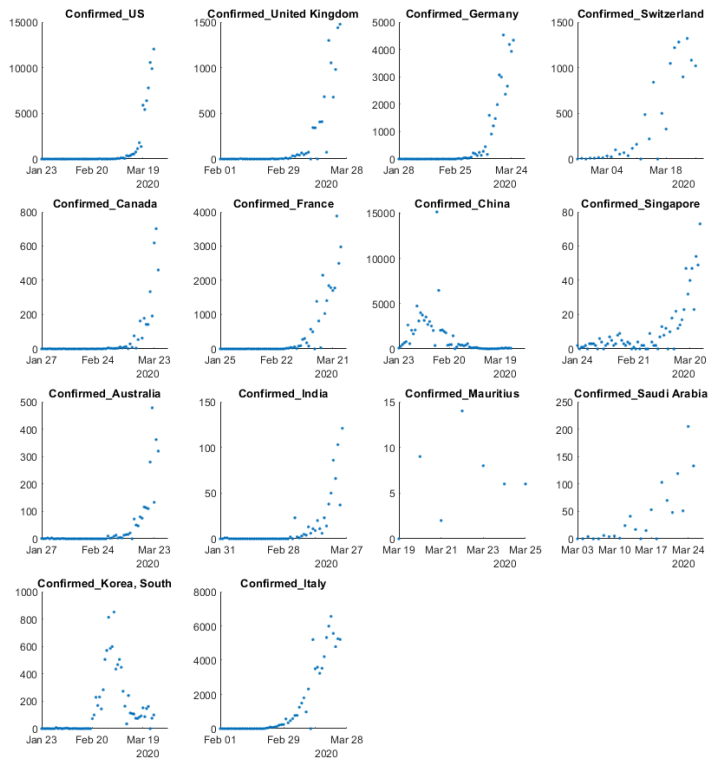
```
CountrywiseData=struct();  
for category_count=1:size(Categories,1)  
    plot_titles=cell(size(Selected_Countries,2),1);  
    for country_count=1:size(Selected_Countries,2)  
        RAW.(Categories{category_count}).Country_Region=categorical(RAW.(Categories{category_count}).Country_Region==Selected_Countries(country_count));  
        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  
end
```

```

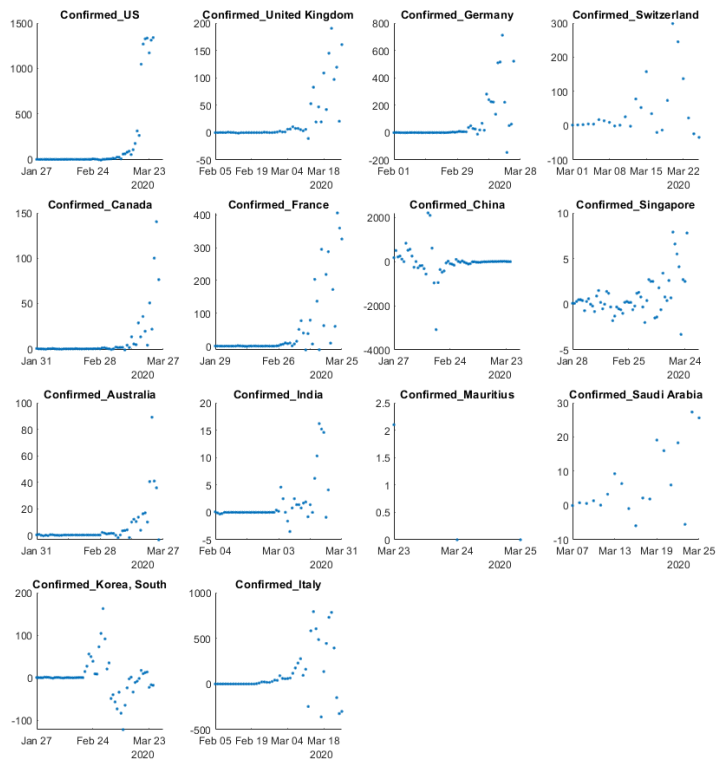
fig_title=char(Categories{category_count});
SimpleScatter(StartDate,CountrywiseData.(Categories{category_count}),fig_title,plot_titles,
end

```

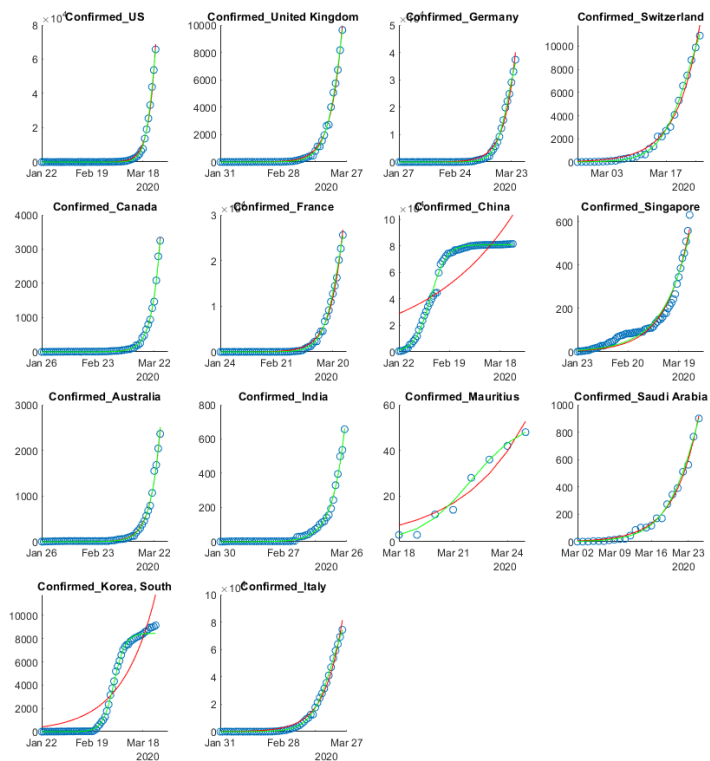
Starting parallel pool (parpool) using the 'local' profile ...
 Connected to the parallel pool (number of workers: 8).
 ans =
 'DailyIncrease_Confirmed'



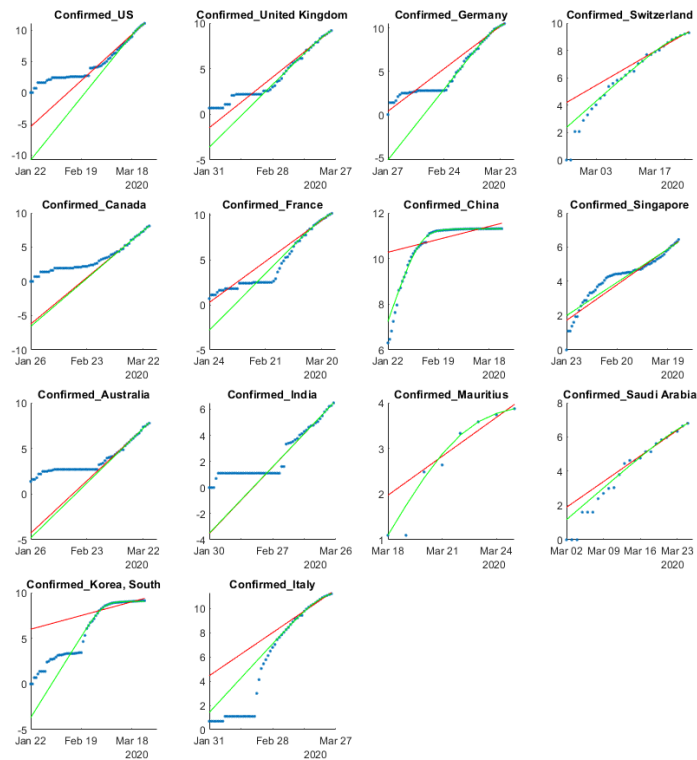
ans =
 'Grad of DailyIncrease_Confirmed'



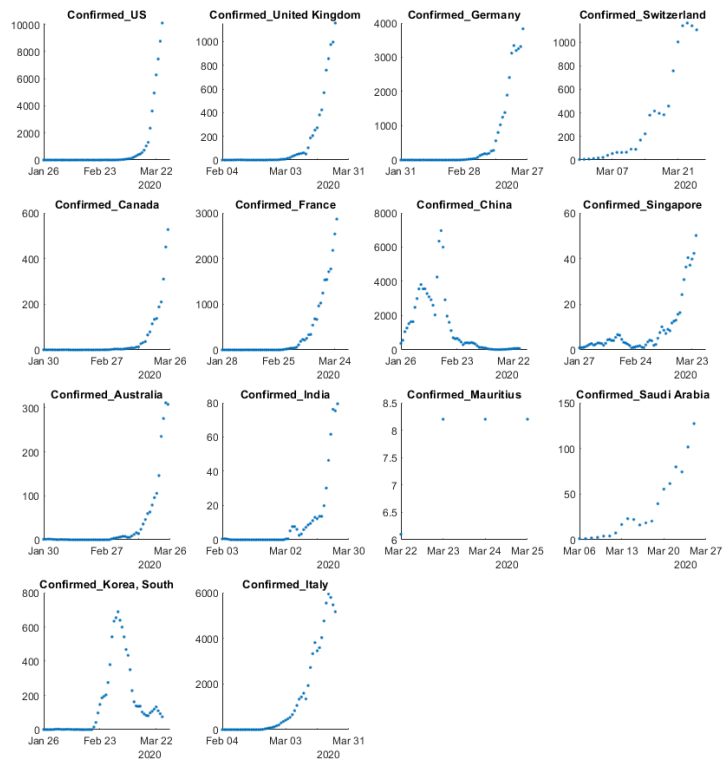
ans =
'Confirmed'



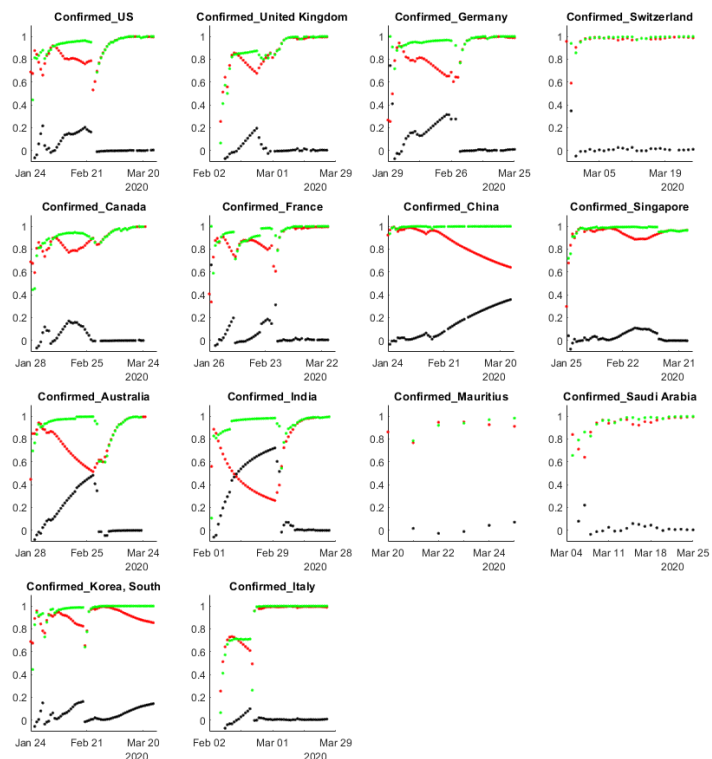
ans =
'Log_Confirmed'



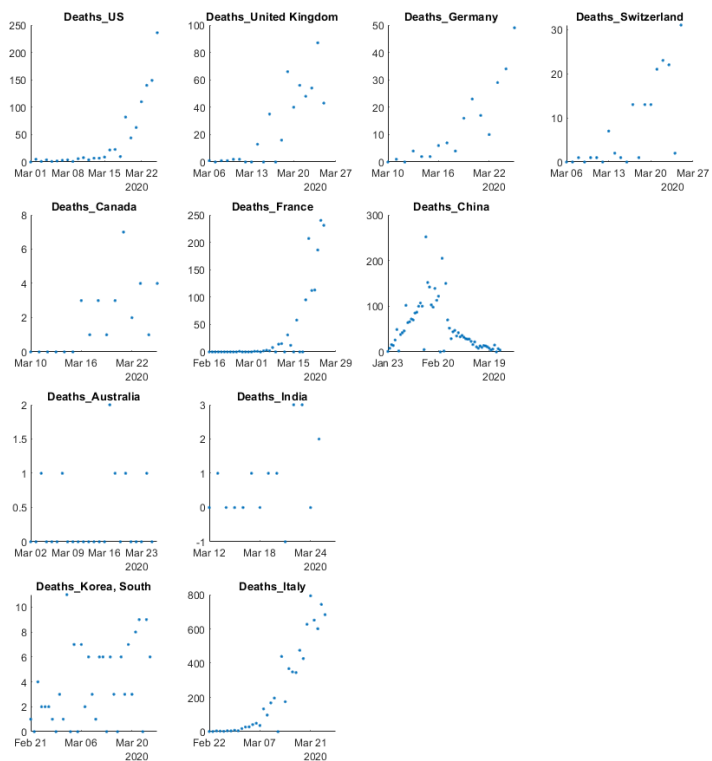
```
ans =
'Gradient_Confirmed'
```



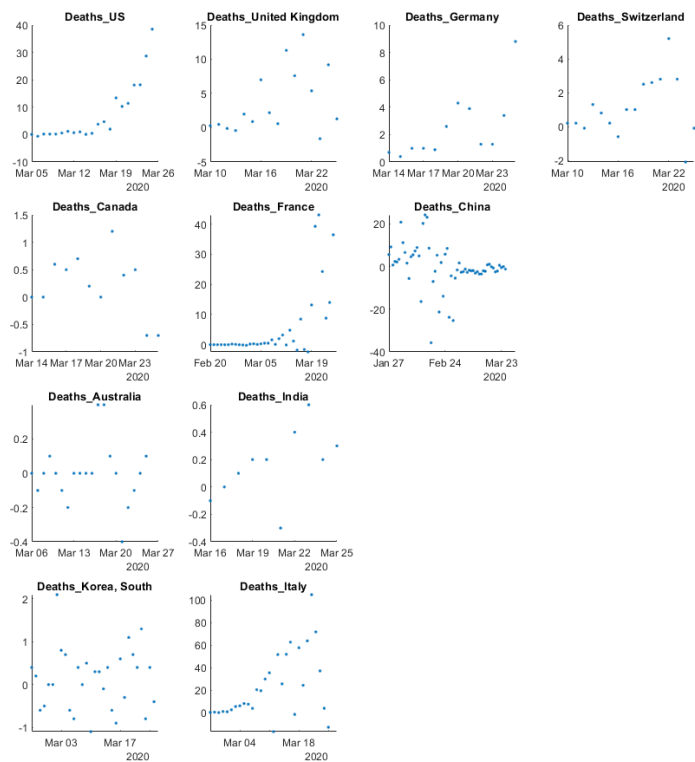
```
ans =
'Goodness of Fit_Confirmed'
```



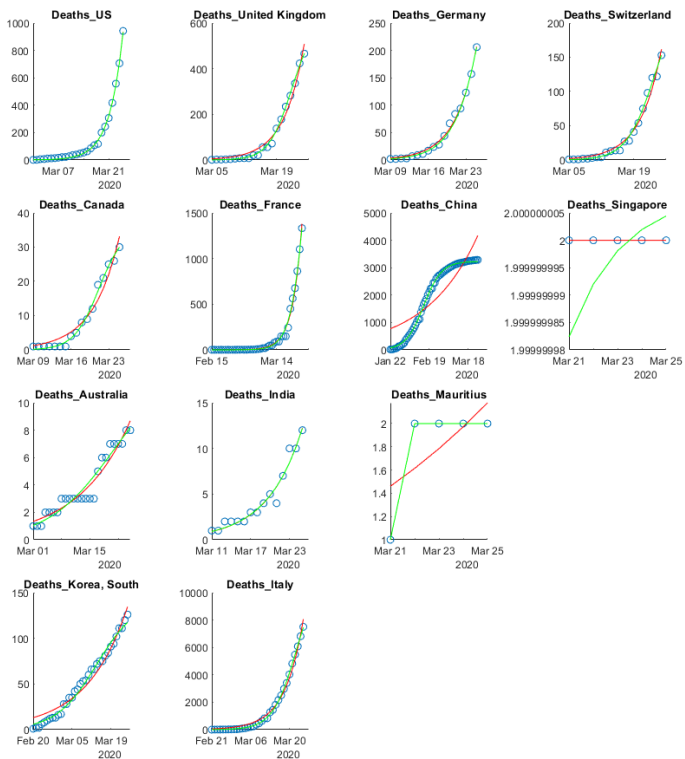
ans =
'DailyIncrease_Deaths'



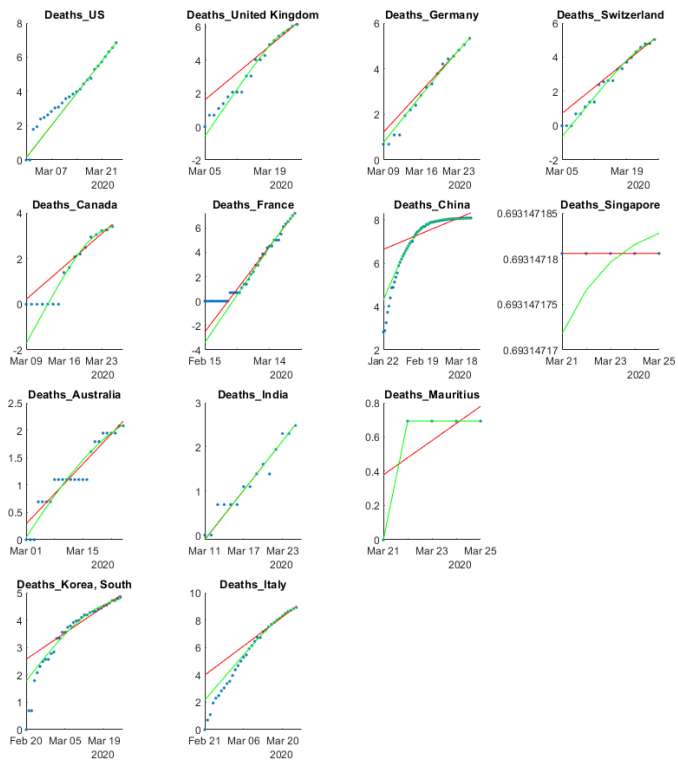
ans =
'Grad of DailyIncrease_Deaths'



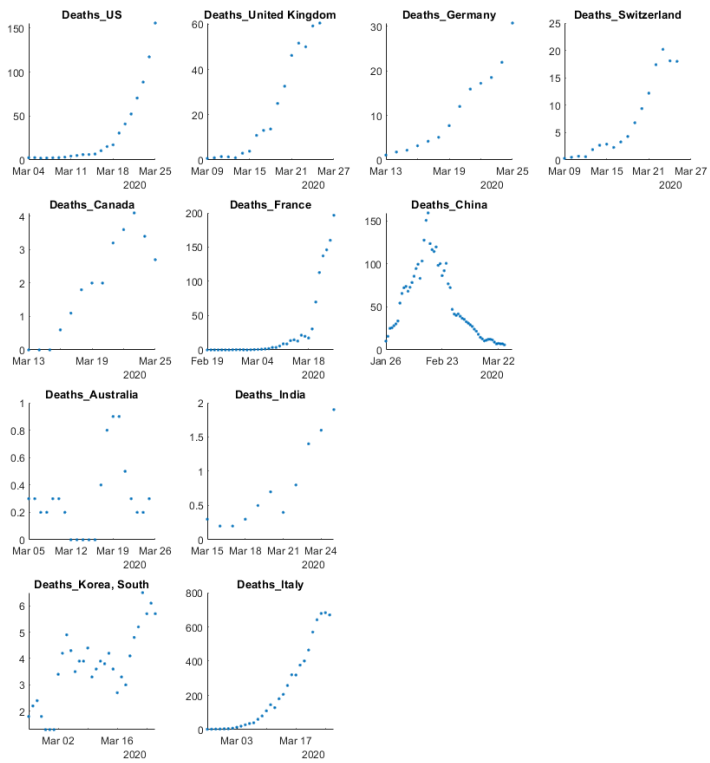
ans =
'Deaths'



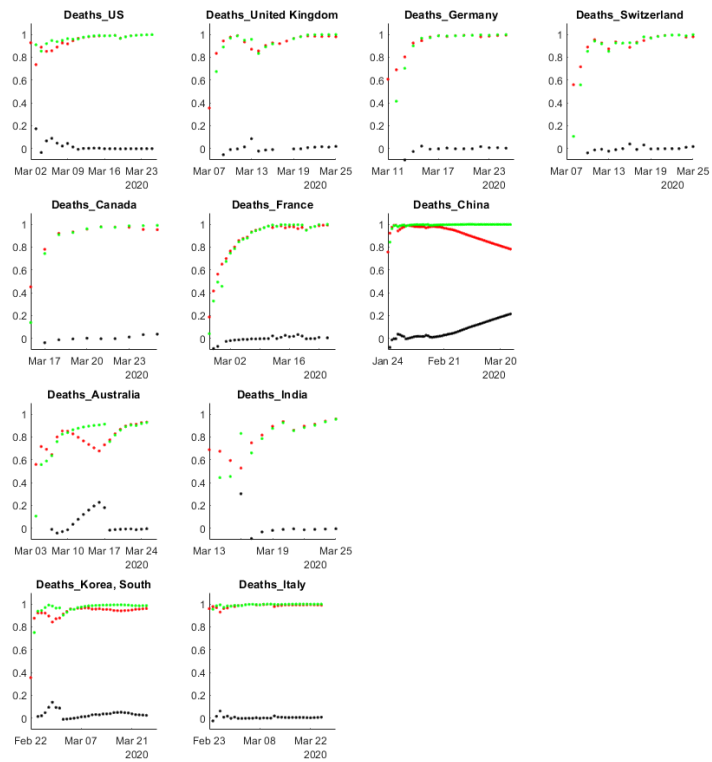
ans =
'Log_Deaths'



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);

```