



Gio (User)



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How was the status of coronavirus in Italy last week?



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New confirmed cases by day: Monday: 3153, Tuesday: 2972, Wednesday: 2667, Thursday: 3786, Friday 3493, Saturday 3491, Sunday 3047.



Almond (VA)



Gio (User)

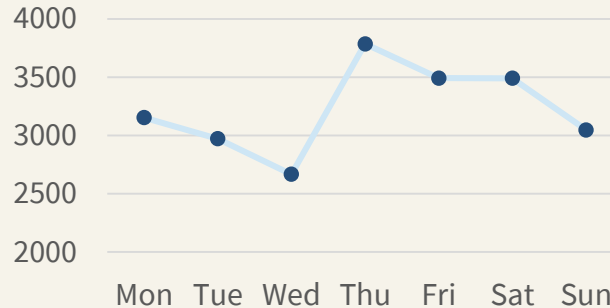
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Almond (VA)

New confirmed case daily is shown below:



Almond (VA)

Result Representation: Charts for Data Sequences

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- Google Assistant shows charts already?
 - Only for a small set of queries
 - Stock price, coronavirus
 - No customization
 - No support for increase rate of new cases; weekly new cases; comparison between two countries; or confirmed cases / population

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- Challenges
 - ThingTalk representation
 - A generic chart generation for different ThingTalk representation



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How many new confirmed cases in Italy today?



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3047



Almond (VA)



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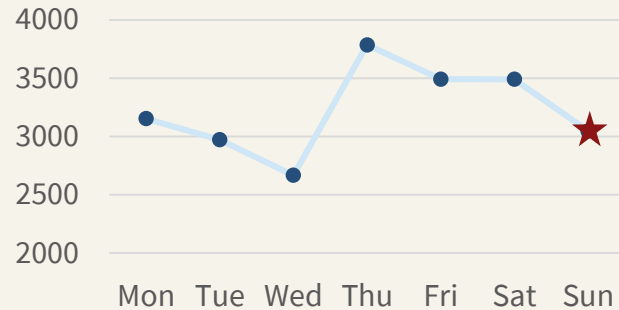
How many new confirmed cases in Italy today?

3047



Almond (VA)

There are 3047 new cases today.



Almond (VA)



Gio (User)



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What is the size of Stanford
Campus?



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What is the size of Stanford
Campus?

8,180 acres



Almond (VA)



Gio (User)

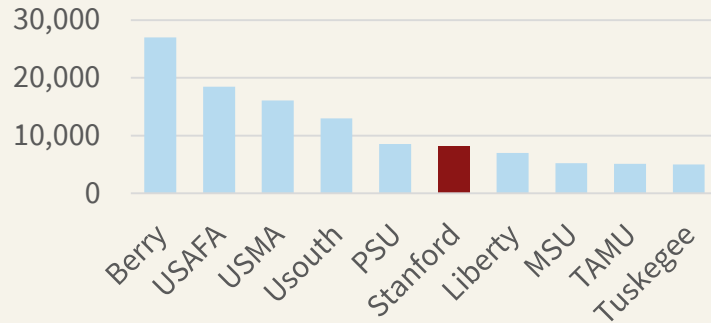
What is the size of Stanford Campus?

8,180 acres



Almond (VA)

8,180 acres (6th largest in US)



Almond (VA)

Result Representation: Charts as Supporting Information

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- It generalizes to all types of answers
- Challenges
 - When do we show the chart?
 - What information do we show ?
 - What type of chart should we use? (bar, line, pie, ...)