tf.config.experimental.set_memory_growth

TensorFlow 1 version (/versions/r1.15/api_docs/python/tf/config/experimental/set_memory_growth)

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Set if memory growth should be enabled for a `PhysicalDevice`.

+ **View aliases**

Compat aliases for migration

See Migration guide (https://www.tensorflow.org/guide/migrate) for more details.

tf.compat.v1.config.experimental.set_memory_growth
(https://www.tensorflow.org/api_docs/python/tf/config/experimental/set_memory_growth)

```
tf.config.experimental.set_memory_growth(
    device, enable
)
```

Used in the notebooks

Used in the guide	Used in the tutorials
• Use a GPU (https://www.tensorflow.org/guide/gpu)	• Bayesian Gaussian Mixture Model and Hamiltonian (https://www.tensorflow.org/probability/examples/
• Using the SavedModel format (https://www.tensorflow.org/guide/saved_model)	• Modeling COVID-19 spread in Europe and the effect (https://www.tensorflow.org/probability/examples/

If memory growth is enabled for a `PhysicalDevice`, the runtime initialization will not allocate all memory on the device. Memory growth cannot be configured on a `PhysicalDevice` with virtual devices configured.

For example:

```
>>> physical_devices = tf.config.list_physical_devices('GPU')
>>> try:
...    tf.config.experimental.set_memory_growth(physical_devices[0], True)
... except:
...    # Invalid device or cannot modify virtual devices once initialized.
...    pass
```

Args

device	`PhysicalDevice` to configure
enable	(Boolean) Whether to enable or disable memory growth

Raises

ValueError	Invalid `PhysicalDevice` specified.
RuntimeError	Runtime is already initialized.