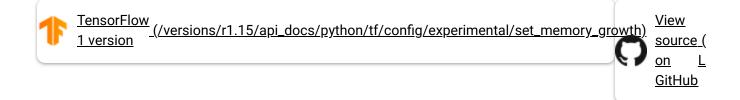
tf.config.experimental.set_memory_growth



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 |
|--|--|
| • <u>Use a GPU</u> (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. |

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