TencorFlow

```
TensorFlow API r1.4
```

tf.substr

```
substr(
   input,
   pos,
   len,
   name=None
)
```

Defined in tensorflow/python/ops/gen_string_ops.py.

See the guide: Strings > Splitting

Return substrings from **Tensor** of strings.

For each string in the input Tensor, creates a substring starting at index pos with a total length of len.

If **len** defines a substring that would extend beyond the length of the input string, then as many characters as possible are used.

If **pos** is negative or specifies a character index larger than any of the input strings, then an **InvalidArgumentError** is thrown.

pos and len must have the same shape, otherwise a ValueError is thrown on Op creation.

NOTE: Substr supports broadcasting up to two dimensions. More about broadcasting here

Examples

Using scalar pos and len:

```
input = [b'Hello', b'World']
position = 1
length = 3
output = [b'ell', b'orl']
```

Using pos and len with same shape as input:

Broadcasting pos and len onto input:

Broadcasting input onto pos and len:

```
input = b'thirteen'
position = [1, 5, 7]
length = [3, 2, 1]

output = [b'hir', b'ee', b'n']
```

Args:

- input: A Tensor of type string. Tensor of strings
- pos: A **Tensor**. Must be one of the following types: **int32**, **int64**. Scalar defining the position of first character in each substring
- len: A **Tensor**. Must have the same type as **pos**. Scalar defining the number of characters to include in each substring
- name: A name for the operation (optional).

Returns:

A Tensor of type string. Tensor of substrings

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