

# The Float Field Type

This Field Type represents a float value.

| Name  | Internal name | Expected input |
|-------|---------------|----------------|
| Float | ezfloat       | float          |

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## Description

This Field Type stores numeric values which will be provided as floats.

## Input expectations

The Field Type expects a number as input. Both decimal and integer numbers are accepted.

| Type  | Example    |
|-------|------------|
| float | 194079.572 |
| int   | 144        |

## Value object

### Properties

The Value class of this field type contains the following properties:

| Property | Type  | Description  |
|----------|-------|--|
| \$value  | float | This property will be used to store the value provided as a float. |

### Value object content example

```
use eZ\Publish\Core\FieldType\Float\Type;

// Instantiates a Float Value object
$floatValue = new Type\Value();

$float->value = 284.773
```

### Constructor

The `Float\Value` constructor will initialize a new Value object with the value provided. It expects a numeric value with or without decimals.

### Constructor example

```
use eZ\Publish\Core\FieldType\Float\Type;

// Instantiates a Float Value object
$floatValue = new Type\Value( 284.773 );
```

## Validation

This Field Type supports **FloatValueValidator**, defining maximal and minimal float value:

| Name          | Type  | Default value | Description  |
|---------------|-------|---------------|--|
| minFloatValue | float | false         | This setting defines the minimum value this FieldType will allow as input. |
| maxFloatValue | float | false         | This setting defines the maximum value this FieldType will allow as input. |

### Validator configuration example in PHP

```
use eZ\Publish\Core\FieldType\Float\Type;

$contentTypeService = $repository->getContentTypeService();
$floatFieldCreateStruct = $contentTypeService->newFieldDefinitionCreateStruct(
    "float", "ezfloat" );

// Accept only numbers between 0.1 and 203.99
$floatFieldCreateStruct->validatorConfiguration = array(
    "FileSizeValidator" => array(
        "minFloatValue" => 0.1,
        "maxFloatValue" => 203.99
    )
);
```

## Settings

This Field Type does not support settings.