

## My Project

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# Chapter 1

## Class Index

### 1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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## Chapter 2

# Class Documentation

### 2.1 `_atom` Struct Reference

Collaboration diagram for `_atom`:

### 2.2 `_gobj` Struct Reference

Collaboration diagram for `_gobj`:

#### Public Attributes

- `t_pd g_pd`
- `struct _gobj * g_next`

The documentation for this struct was generated from the following file:

- `m_pd.h`

### 2.3 `_gpointer` Struct Reference

Collaboration diagram for `_gpointer`:

#### Public Attributes

- union {  
    `struct _scalar * gp_scalar`  
    union `word * gp_w`  
} `gp_un`
- `int gp_valid`
- `t_gstub * gp_stub`

The documentation for this struct was generated from the following file:

- `m_pd.h`

## 2.4 `_grainmaker_tilde` Struct Reference

Collaboration diagram for `_grainmaker_tilde`:

### Public Attributes

- `t_object` `x_obj`
- `t_word` \* `x_sample`
- `int` `x_sample_length`
- `int` `offset`
- `int` `num_grains`
- `int` `grain_length`
- `t_symbol` \* `x_arrayname`
- `t_float` `f`
- `grain_scheduler` \* `x_scheduler`
- `t_inlet` \* `in_offset`
- `t_inlet` \* `in_num_grains`
- `t_inlet` \* `in_grain_length`
- `t_outlet` \* `out`

The documentation for this struct was generated from the following file:

- `grainmaker~.c`

## 2.5 `_gstub` Struct Reference

### Public Attributes

- ```
union {
    struct _glist * gs_glist
    struct _array * gs_array
} gs_un
```
- `int` `gs_which`
- `int` `gs_refcount`

The documentation for this struct was generated from the following file:

- `m_pd.h`

## 2.6 `_pdinstance` Struct Reference

Collaboration diagram for `_pdinstance`:



### Public Attributes

- double **pd\_systime**
- t\_clock \* **pd\_clock\_setlist**
- t\_canvas \* **pd\_canvaslist**
- struct\_template \* **pd\_templatelist**
- int **pd\_instanceno**
- t\_symbol \*\* **pd\_symhash**
- t\_instancemidi \* **pd\_midi**
- t\_instanceinter \* **pd\_inter**
- t\_instanceugen \* **pd\_ugen**
- t\_instancecanvas \* **pd\_gui**
- t\_instancestuff \* **pd\_stuff**
- t\_pd \* **pd\_newest**
- int **pd\_islocked**

The documentation for this struct was generated from the following file:

- m\_pd.h

## 2.7 \_resample Struct Reference

### Public Attributes

- int **method**
- int **downsample**
- int **upsample**
- t\_sample \* **s\_vec**
- int **s\_n**
- t\_sample \* **coeffs**
- int **coeffsize**
- t\_sample \* **buffer**
- int **bufsize**

The documentation for this struct was generated from the following file:

- m\_pd.h

## 2.8 \_sampleint\_union Union Reference

### Public Attributes

- t\_sample **f**
- PD\_FLOATUINTTYPE **i**

The documentation for this union was generated from the following file:

- m\_pd.h

## 2.9 `_scalar` Struct Reference

Collaboration diagram for `_scalar`:

### Public Attributes

- `t_gobj` `sc_gobj`
- `t_symbol` \* `sc_template`
- `t_word` `sc_vec` [1]

The documentation for this struct was generated from the following file:

- `m_pd.h`

## 2.10 `_signal` Struct Reference

Collaboration diagram for `_signal`:

### Public Attributes

- `int` `s_n`
- `t_sample` \* `s_vec`
- `t_float` `s_sr`
- `int` `s_refcount`
- `int` `s_isborrowed`
- `struct _signal` \* `s_borrowedfrom`
- `struct _signal` \* `s_nextfree`
- `struct _signal` \* `s_nextused`
- `int` `s_vecsize`

The documentation for this struct was generated from the following file:

- `m_pd.h`

## 2.11 `_symbol` Struct Reference

Collaboration diagram for `_symbol`:

### Public Attributes

- `const char` \* `s_name`
- `struct _class` \*\* `s_thing`
- `struct _symbol` \* `s_next`

The documentation for this struct was generated from the following file:

- `m_pd.h`

## 2.12 `_text` Struct Reference

Collaboration diagram for `_text`:

### Public Attributes

- `t_gobj` `te_g`
- `t_binbuf` \* `te_binbuf`
- `t_outlet` \* `te_outlet`
- `t_inlet` \* `te_inlet`
- short `te_xpix`
- short `te_ypix`
- short `te_width`
- unsigned int `te_type`:2

The documentation for this struct was generated from the following file:

- `m_pd.h`

## 2.13 `grain` Struct Reference

### Public Attributes

- int `start_sample`
- int `end_sample`
- int `current_sample`
- int `grain_size`

The documentation for this struct was generated from the following file:

- `grain.h`

## 2.14 `grain_scheduler` Struct Reference

Collaboration diagram for `grain_scheduler`:

### Public Attributes

- `t_word` \* `src_sample`
- `grain` \* `grains`
- int \* `grain_pauses`
- int `src_sample_length`
- int `offset`
- int `num_grains`
- int `current_num_grains`
- int `grain_length`
- int `grain_spread`

The documentation for this struct was generated from the following file:

- `grain_scheduler.h`

## 2.15 word Union Reference

Collaboration diagram for word:

### Public Attributes

- `t_float w_float`
- `t_symbol * w_symbol`
- `t_gpointer * w_gpointer`
- `t_array * w_array`
- `struct _binbuf * w_binbuf`
- `int w_index`

The documentation for this union was generated from the following file:

- `m_pd.h`

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