

storable types

plain types

scalar types

bool

numeric scalar types

f32, f16

integer scalar types

u32

i32

atomic types

atomic<u32>

atomic<i32>

composite types

vector types

vecN<bool>

numeric vector types

vecN<numeric scalar>

matrix types

matNxM<f32>, matNxM<f16>

arrays

array<constructible, const-expr>

array<host-shareable, const-expr>

array<host-shareable>

array<plain, override-expr>

structures

```
struct name {  
  member: constructible;  
};
```

```
struct name {  
  member: host-shareable;  
};
```

```
struct name {  
  member: plain;  
};
```

constructible types

host-shareable types

creation-fixed footprint: Contains no runtime-sized arrays, nor arrays whose length is an override-expression. Size known at shader-creation time.
fixed-footprint: Contains no runtime-sized arrays. Size known at pipeline-creation time.

texture types

sampled texture types

texture_1d	<numeric scalar type>
texture_2d	<numeric scalar type>
texture_2d_array	<numeric scalar type>
texture_3d	<numeric scalar type>
texture_cube	<numeric scalar type>
texture_cube_array	<numeric scalar type>
texture_multisampled_2d	<numeric scalar type>

external texture types

texture_external

storage texture types

texture_storage_1d	<texel format, access>
texture_storage_2d	<texel format, access>
texture_storage_2d_array	<texel format, access>
texture_storage_3d	<texel format, access>

depth texture types

texture_depth_2d
texture_depth_2d_array
texture_depth_cube
texture_depth_cube_array
texture_depth_multisampled_2d

multisampled texture types

sampler types

sampler
sampler_comparison

memory view types

pointer types

ptr<storage class, storable type, access mode>

reference types

ref<storage class, storable type, access mode>

storage class = function,
private,
workgroup,
uniform,
storage

access mode = read,
write,
read_write

(N, M = 2, 3, 4)