

NEW AND DELETE

Creating and destroying objects on the heap



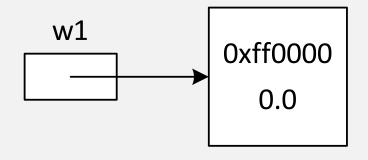
CLASS EXAMPLE



DYNAMIC OBJECTS

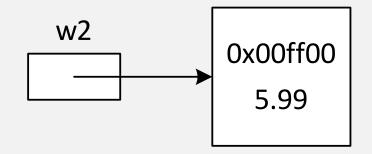
DEFAULT CONSTRUCTOR

- widget* w1 = new widget;
- delete w1;



GENERAL CONSTRUCTOR

- widget* w2 =
 new widget(0x00ff00, 5.99);
- delete w2;

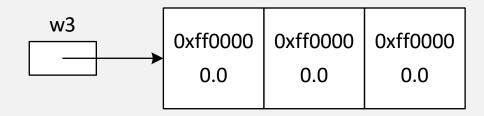




ARRAYS AND OBJECTS

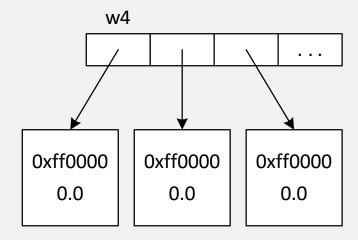
ARRAY OF OBJECTS

- delete[] w3;



ARRAY OF OBJECT POINTERS

- for (int i = 0; i < 3; i++) w4[i] = new widget;





ARRAYS AND FEATURE ACCESS

ARRAYS OF OBJECTS

- widget w5[100];
- w5[10].get_color()
- widget* w6 = new widget[100];
- w6[10].get_color()

ARRAYS OF POINTERS

```
widget* w7[100];
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```
• for (int i = 0; i < 100; i++)
  w7[i] = new widget(0x0000ff, 10.0);</pre>
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w7[10]->get_color()
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