

Histogram

```
self.nbars  
self.density  
self.hist, bins  
self.left  
self.right  
self.bottom  
self.top
```

```
__init__(self, data, xmax, nbars, density=False)  
draw(self, ax)  
update(self, data)
```

Particle

```
self.pos  
self.vel  
self.n  
self.r  
self.m
```

```
__init__(self, pos, vel, r, m)  
advance(self, dt)
```

main.py

```
graph LR; H[Histogram] -.-> MP[main.py]; P[Particle] -.-> MP;
```

The diagram illustrates the dependencies of the `main.py` file on two classes: `Histogram` and `Particle`. Dashed arrows point from the `Histogram` class box and the `Particle` class box to the `main.py` box, indicating that `main.py` utilizes both classes.