# Package 'fastdigest'

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Version 0.6-4	
Title Fast, Low Memory Footprint Digests of R Objects	
Description Provides an R interface to Bob Jenkin's streaming, non-cryptographic 'SpookyHash' hash algorithm for use in digest-based comparisons of R objects. 'fastdigest' plugs directly into R's internal serialization machinery, allowing digests of all R objects the serialize() function supports, including reference-style objects via custom hooks. Speed is high and scales linearly by object size; memory usage is constant and negligible.	
Author Gabriel Becker, based on SpookyHash algorithm and C++ code by Bob Jenkins	
Suggests RUnit	
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R topics documented:	
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fastdigest Fast, memory constant hashing of R objects	
Description	

Fast, memory constant hashing of R objects

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### Usage

```
fastdigest(obj, ref_serializer = NULL)
```

## **Arguments**

```
obj The object to generate a hash digest for ref_serializer (optional) A serializer for reference-style objects, see serialize
```

#### **Details**

obj will be hashed using R's internal serialization logic with a custom target which applies applying Jenkins' SpookyHash (v2) in a streaming fashion. This avoids (ever) copying the data out of the R object itself, providing both speed and memory constancy.

It also guarantees that the "representation" of the R object being hashed is the same as the serialized version would be, if created.

### Author(s)

Gabriel Becker

#### References

Jenkins, B. (2012). SpookyHash: a 128-bit noncryptographic hash. http://burtleburtle.net/bob/hash/spooky.html.

## See Also

```
serialize
```

# **Examples**

```
fastdigest(1:5)
fastdigest(list("what", 1:2))
```

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