

# Guava Reference Card

## Functional Units

```
interface Function<F,T>  T apply(F)
interface Predicate<T>   boolean apply(T)
interface Supplier<T>    T get()
```

```
.builder()
.copyOf
```

### Iterators

```
Iterator<T> .forArray(T...)
Iterator<T> .forEnumeration(Enumeration<T>)
```

```
Functions    .identity()
              .constant(E)
              .forSupplier(S<T>)
              .forMap(Map<F,T>)
```

```
Predicates   .alwaysTrue() / .alwaysFalse()
              .isNull() / .notNull()
              .equalTo(T)
              .instanceOf(Class<?>)
              .in(Collection<? extends T>)
              .not(P<T>)
              .and(P<T>,P<T>) / .or(P<T>,P<T>)
```

```
Suppliers    .compose(F<F,T>, S<F>)
              .memoize(S<T>)
```

## Functional Operations

### Iter{able/ator}s

```
boolean .all(Iter<T>, P<T>)
boolean .any(Iter<T>, P<T>)
Iter<T> .filter(Iter<T>, P<T>)
T       .find(Iter<T>, P<T>, T default)
Iter<T> .transform(Iter<F>, F<F,T>)
```

### Collections2

```
Coll<E> .filter(Coll<E>, P<E>)
Coll<T> .transform(Coll<F>, F<F,T>)
```

### Lists

```
List<T>      .reverse(List<T>)
List<List<T>> .partition(List<T>, int size)
List<T>      .transform(List<F>, F<F,T>)
```

## Iterable Builders

```
ImmutableMap/List/Collection/Set
.of(K,V)
```