MicroProfile Config

This cheat sheet covers the basics of MicroProfile Config specification uses.

INJECTING CONFIGURATION PROPERTIES

Inject a simple ConfigProperty

```
@Inject
@ConfigProperty(name = "my.custom.message")
String customMessage;
```

Inject a ConfigProperty with a default value

```
@Inject
@ConfigProperty(name = "my.custom.message",
      defaultValue="My message")
String customMessage;
```

Required values if no default value is provided

`base_type` — exception during deployment

`Optional<base_type>` — results in `Optional.empty()`

`Provider<base_type>` — deployment exception but the value is reloaded with every access

USING INJECTED CONFIGURATION OBJECT

```
@Inject
Config config;
```

`getValue(String, Class<T>)` — get single value with specified type

`getOptionalValue(String, Class<T>)` — get value as optional

`getPropertyNames()` — get iterable with names of all found properties

`getConfigSources()` — get all config sources

Note: there is also an option for programatic lookup with `ConfigProvider.getConfig()`

CONFIG SOURCES

Default config sources

`system properties` — ordinal 400

`Environment properties` — ordinal 300

`META-INF/microprofile-config.properties` — ordinal 100

Custom config sources

Implementations of

`org.eclipse.microprofile.config.spi.ConfigSource`
registration in `/META-INF/services/`
`org.eclipse.microprofile.config.spi.ConfigSource`

`org.eclipse.microprofile.config.spi.ConfigSourceProvider`
registration in `/META-INF/services/`
`org.eclipse.microprofile.config.spi.ConfigSourceProvider`

CONVERTERS

Default converters

`Boolean`, `Byte`, `Short`, `Integer`, `Long`, `Float`, `Double`, `Character`, `Class` — in both boxed and unboxed variants

`Array`, `List`, `Set` — parameterized by the base types

Custom converters

Implementations of

`org.eclipse.microprofile.config.spi.Converter`
registration in `/META-INF/services/`
`org.eclipse.microprofile.config.spi.Converter`

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