Taming Abstraction

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80s: Musician / vegan campaigner.
90s: Organic Horticulturist.
00s: Techie / Systems Admin.
10s: portfolio career / Social Entrepreneur & Developer.

Social Entrepreneur (recycling, tech education, community currencies). Permaculture Designer working with community #localfood initiatives, Public Speaker, & Technical Writer.
In Donald Knuth's paper *Structured Programming With go to Statements*, he wrote:

"Programmers waste enormous amounts of time thinking about, or worrying about, the speed of noncritical parts of their programs, and these attempts at efficiency actually have a strong negative impact when debugging and maintenance are considered. We should forget about small efficiencies, say about 97% of the time: premature optimization is the root of all evil. Yet we should not pass up our opportunities in that critical 3%."
d.r.y.
At the first hint of shared content, optimize for the general case.
PROGRAMMATIX Refactor N1QL docs so they can be used by Java

e00ff16 5 years ago ⚠️ History

<table>
<thead>
<tr>
<th>1</th>
<th>// Required attributes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>:lang: Java</td>
</tr>
<tr>
<td>3</td>
<td>:version: 3.0.0 alpha</td>
</tr>
<tr>
<td>4</td>
<td>:example-source: 3.0.0-java-sdk-howtos-example$Queries.java</td>
</tr>
<tr>
<td>5</td>
<td>:example-source-lang: java</td>
</tr>
<tr>
<td>6</td>
<td>=== Placeholder and Named Arguments</td>
</tr>
<tr>
<td>7</td>
<td>Placeholders allow you to specify variable constraints for a query.</td>
</tr>
<tr>
<td>8</td>
<td>There are two variants of placeholders: positional and named parameters. Both are used as placeholders for values in the WHERE clause.</td>
</tr>
<tr>
<td>9</td>
<td>Positional parameters use an ordinal placeholder for substitution and can be used like this:</td>
</tr>
<tr>
<td>10</td>
<td>[source,[example-source-lang]]</td>
</tr>
<tr>
<td>11</td>
<td>---</td>
</tr>
<tr>
<td>12</td>
<td>include:[example-source][tag=positional]</td>
</tr>
<tr>
<td>13</td>
<td>---</td>
</tr>
<tr>
<td>14</td>
<td>Whereas named parameters can be used like this:</td>
</tr>
<tr>
<td>15</td>
<td>[source,[example-source-lang]]</td>
</tr>
<tr>
<td>16</td>
<td>---</td>
</tr>
<tr>
<td>17</td>
<td>include:[example-source][tag=named]</td>
</tr>
</tbody>
</table>
// :lang: Java
// :version: 3.0.0 alpha
// :example-source: 3.0@java-sdk:howtios:example$Queries.java
// :example-source-lang: java

== Placeholder and Named Arguments

Placeholders allow you to specify variable constraints for a

There are two variants of placeholders: positional and named

Positional parameters use an ordinal placeholder for substitution

[source,{example-source-lang}]

include::{example-source}[tag=positional]

----
Let’s descend a few more layers into madness....
= Data Sync using Sync Gateway

:page-aliases: learn/java-replication.adoc

ifdef::show_edition[[:page-edition: {release}]]
ifdef::prerelease[[:page-status: {prerelease}]]

:page-role:
: description: Couchbase Lite for Java -- Synchronizing data changes between local and remote

include::partial$_set_page_context_for_java.adoc[]

$url-repl-cfg: {url-api-references}/index.html?com/couchbase/lite/ReplicatorConfiguration.html

// END::Local page attributes

include::{root-commons}sgw-replication.adoc[subs="macros,attributes"]
```java
#define::is_diag[
_set_page_context_for_java]

:param-module: java
:param-name: java
:param-title: Java
:param-platform: jvm
:source-language: Java
:param_is_root:

#include::ROOT:partial$::_set_page_context.adoc[]

// BEGIN::module page attributes
:module: {param-module}
:packageNm: couchbase-lite-{param-module}
:snippet: {snippets-content--java}
:snippet-p2psync-ws: {snippets-p2psync-ws--java}
:url-download-package: {url-download-java}
// END::Local page attributes
```
:param-module: java

...in line 3....

...And in line 13:

:module: {param-module}
ifndef:is_diag[_set_page_context.adoc]

// BEGIN -- inclusion -- _set_page_context.adoc -- Standard page initialization

// REQUIRES:
:param-module: {param-module}
:param-name: {param-name}
:param-title: {param-title}

// INVOKED-BY:
// each of the <module>:partial$ _set_page_context_for_<module>.adoc files

ifndef: param-name[ :param-name: all ]

include:ROOT:partial$ _define_component_attributes.adoc[]

ifndef: param_is_root[]

ifdef:is_diag[_define_module_attributes.adoc({param-module})]

include: {param-module}:partial$ _define_module_attributes.adoc[]

endif: param_is_root[]

include:ROOT:partial$ _define_page_index.adoc[]

include:ROOT:partial$ _show_glossary_links.adoc[]

// sets a flag to indicate what platform is on
include: {root-partials} _set-platform.adoc[]

ifndef: param_is_root[]

code-snippet: source, {source-language}, subs="{gen-subst}"

endif: param_is_root[]

endif:is_diag[_set_page_context.adoc]
ifdef::is_diag[define_page_index.adoc]

//
// Defines common attributes that contain page-names and xrefs to those pages and, in some cases, within the page
// By 'including' this page and using the defined attribute names in any links, you can ensure the legitimacy of those links.
//
ifdef::xref-pfx-cbl[]

// Begin -- Construct essential attributes if the calling page/environment does not already contain them
ifdef::param-name[:param-name: param-name undefined]
ifdef::param-module[:param-module: param-module undefined]
ifdef::param-title[:param-title: param-title undefined]
ifdef::snippet[:snippet: snippet undefined]
ifdef::ke[:ke: ke undefined]
ifdef::fixed[:fixed: fixed undefined]
ifdef::enh[:enh: enh undefined]
ifdef::nftr[:nftr: nftr undefined]
ifdef::version[:version: version undefined]
// End -- Construct essential attributes if the calling page/environment does not already contain them

// BEGIN -- component roots
:cbl-root: xref:
  :cbl-root: xref:couchbase-lite::
  :cbl--xref: xref:{param-module}:
  :sgw--xref: xref:sync-gateway::
  :svr--xref: xref:server:
// END -- component roots
223 lines later…
Version attributes only

```adoc
:scala-api-link: http://docs.couchbase.com/sdk-api/couchbase-scala-client-1.0.10/files/couchbase.html
:scala-current-version: 1.0.10
:version-server: 6.5
```
name: scala-sdk
version: '1.5'
title: Scala SDK
start_page: hello-world:overview.adoc

asciidoc:
  attributes:
    server_version: '7.2'
    sdk_current_version: '1.5.2'
    sdk_dot_minor: '1.5'
    sdk_dot_major: '1.x'
    version-server: '7.2'
    version-common: '7.2'
    name_platform: 'Scala'
    name-sdk: 'Scala SDK'
    sdk_api: '3.4'
    sdk-api-link: https://docs.couchbase.com/sdk-api/couchbase-scala-client/
    sdk-gh-link: https://github.com/couchbase/couchbase-jvm-clients/tree/master/scala-client
A balance?
Now the Key Question...
Now the Key Question

What would you do?