LET'S GET YOUR DOCUMENTATION RIGHT
DANIELE PROCIDA

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- Python in Africa
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- EvilDMP (IRC, GitHub, Twitter)
- ... or just talk to me!
THERE ISN’T ONE THING CALLED “DOCUMENTATION” . . .
...THERE ARE FOUR
Developer Handbook

Contents

Tutorial
Get started with a hands-on introduction to the Divio Cloud for developers.

How-to guides
Step-by-step guides for the developer covering key operations and procedures

Reference
Technical reference - tools, components and commands

Background
Explanation and discussion of key topics
TUTORIALS

lessons that take the reader by the hand through a series of steps to complete a project
WHAT MATTERS

- learning by doing
- getting started
- inspiring confidence
- repeatability
- immediate sense of achievement
- concreteness, not abstraction
- minimum necessary explanation
- no distractions
HOW-TO GUIDES

guides that take the reader through the steps required to solve a common problem
WHAT MATTERS

- a series of steps
- a focus on the goal
- addressing a specific question
- no unnecessary explanation
- a little flexibility
- practical usability
- good naming

Crab with wakame salad and wasabi mayonnaise

Try this simple to prepare salad of white crabmeat served with cucumber, seaweed and spicy mayonnaise.

By Rick Stein
From Spring Kitchen with Tom Kerridge
Serves 4

Ingredients
40g/1½oz dried wakame seaweed
½ cucumber, peeled
225g/8oz fresh white crabmeat
1 tbsp bonito flakes

For the wakame dressing
¼ tsp dashi granules
40ml/1½fl oz warm water
8ml rice wine vinegar
technical descriptions of the machinery and its operation
REFERENCE

WHAT MATTERS

- structure
- consistency
- description
- accuracy

Ginger
From Wikipedia, the free encyclopedia

For other uses, see Ginger (disambiguation).

Ginger (Zingiber officinale) is a flowering plant whose rhizome, ginger root or simply ginger, is widely used as a spice or a folk medicine.[9]

It is a herbaceous perennial which grows annual stems about a meter tall bearing narrow green leaves and yellow flowers. Ginger is in the family Zingiberaceae, to which also belong turmeric (Curcuma longa), cardamom (Elettaria cardamomum), and galangal. Ginger originated in the tropical rainforest in Southern Asia. Although ginger no longer grows wild, it is thought to have originated on the Indian subcontinent because the ginger plants grown in India show the largest amount of genetic variation. Ginger was exported to Europe via India in the first century AD as a result of the lucrative spice trade and was used extensively by the Romans.

The distantly related dicots in the genus Asarum are commonly called wild ginger because of their similar taste.

Etymology
The origin of "ginger" is from the mid-14th century, from Old English gingere, from Medieval Latin gingiber, from Latin zingiber, from Greek zingiber, from Prakrit (Middle Indian) sīngābha, from Sanskrit śīṅgīvaram, from śīṅgam "horn + verte "body", from the shape of its root. But this may be Sanskrit folk etymology, and the word may be from an ancient Dravidian name that also produced the Tamil and Malayalam name for the spice, inchi-ver, from inchi "root." Cf. gin (v.). The word probably was readopted in Middle English from Old French gingibre (modern French gingembre).[9][10]

Horticulture
Ginger produces clusters of white and pink flower buds that bloom into yellow flowers. Because of its aesthetic appeal and the adaptation of the plant to warm climates, it is often used as landscaping around subtropical homes. It is a perennial herb-like plant with annual leafy stems, about a meter (3 to 4 feet) tall.
EXPLANATION

discussions that clarify and illuminate a particular topic
WHAT MATTERS

- giving context
- explaining why
- multiple examples, alternative approaches
- making connections
- no instruction or technical description
TUTORIALS
LEARNING-ORIENTED

HOW-TO GUIDES
PROBLEM-ORIENTED

UNDERSTANDING-ORIENTED
EXPLANATION

INFORMATION-ORIENTED
REFERENCE
TUTORIALS  HOW-TO GUIDES

Practical steps
HOW-TO GUIDES

Most useful when we’re coding

REFERENCE
TUTORIALS
Most useful when we’re studying
EXPLANATION
Django documentation

Everything you need to know about Django.

How the documentation is organized

Django has a lot of documentation. A high-level overview of how it’s organized will help you know where to look for certain things:

- **Tutorials** take you by the hand through a series of steps to create a Web application. Start here if you’re new to Django or Web application development. Also look at the “First steps” below.

- **Topic guides** discuss key topics and concepts at a fairly high level and provide useful background information and explanation.

- **Reference guides** contain technical reference for APIs and other aspects of Django’s machinery. They describe how it works and how to use it but assume that you have a basic understanding of key concepts.

- **How-to guides** are recipes. They guide you through the steps involved in addressing key problems and use-cases. They are more advanced than tutorials and assume some knowledge of how Django works.
django CMS documentation

django CMS

Overview

django CMS is a modern web publishing platform built with Django, the web application framework “for perfectionists with deadlines”.

django CMS offers out-of-the-box support for the common features you’d expect from a CMS, but can also be easily customised and extended by developers to create a site that is tailored to their precise needs.

Tutorials - start here

For the new django CMS developer, from installation to creating your own addon applications.

Key topics

Explanation and analysis of some key concepts in django CMS.

How-to guides

Practical step-by-step guides for the more experienced developer, covering several important topics.

Reference

Technical reference material, for classes, methods, APIs, commands.
Welcome to Nashpy’s documentation!

This is a Python library used for the computation of equilibria in 2 player strategic form games.

This is a library with simple dependencies (it only requires `numpy` and `scipy`) so that it is `pip` installable; if you want to do sophisticated equilibria computation you should use `gambit`

- **Tutorial:** building and finding the equilibrium for a simple game
  - Introduction to game theory
  - Installing Nashpy
  - Creating a game
  - Calculating the utility of a pair of strategies
  - Computing Nash equilibria

- **How to**
  - Install Nashpy
  - Create a game
  - Calculate utilities
  - Solve with support enumeration
  - Solve with vertex enumeration
  - Find equilibria for large games

- **Reference**
  - Support enumeration
  - Vertex enumeration
  - Discussion
  - Bibliography
  - Source files

- **Discussion**
  - John Nash
  - How does Nashpy relate to Gambit
  - Other Python Game theory libraries
TUTORIALS

LEARNING-ORIENTED

Most useful when we’re studying

UNDERSTANDING-ORIENTED

EXPLANATION

REFERENCE

HOW-TO GUIDES

PROBLEM-ORIENTED

Most useful when we’re coding

INFORMATION-ORIENTED

Practical steps

Theoretical knowledge
ANOTHER EXAMPLE
TUTORIALS
LEARNING-ORIENTED LESSONS
SEABOARD WORLD AIRLINES
747F
NORMAL OPERATING CHECKLIST

BEFORE TAXI

START ARM SWITCH .................. OFF
ELECTRICAL POWER ............... SET
APU BLEED .................. CLOSE
HYDRAULICS ...... AUTO/NORMAL/0XY CKD
SEAT BELTS & SHLD HARNESS .. ON
GEAR & NOSE STEER PINS .. REMOVED/CKD
GROUND EQUIPMENT ........ DISCONNECT/CLEAR

TAXI CHECK

NACELLE ANTI-ICE ............... SET
FLAPS ...... GREEN LIGHTS/D TENT
CONTROLS .......... CKD
STAB & TRIM .......... THREE SET
TAKE OFF DATA ........ CKD/SET
FLT & NAV INSTRUMENTS .. X-CKD/SET
ALTITUDE SELECT ...... X-CKD/SET
APU .................. SHUT DOWN
CARGO HEAT .......... NORMAL
FUEL HEAT .................. OFF
FUEL SYS ....... SET/MAN BOOST PUMPS ON
IGNITION .......... FLT START
ANNUNCIATOR LIGHTS .... CKD
AIR COND .......... SET

BEFORE STARTING

INS ............. 3 CKD/ALIGN
O2 & INTERPHONE .... ON 100% CKD/BOOM
STATIC SOURCE SEL ...... NORMAL
ANTI-SKID .......... ON
BODY GEAR STEERING ... ARM
AUTO BRAKE ........... LDG-OFF
COMPASS CONTROLLERS .. SLAVED
EMERGENCY LIGHTS .. ARMED
SEAT BELT, NO SMOKE . OFF
ALT FLAPS .......... OFF
STALL WARNING ......... TEST/NORMAL
MACH A/S .......... TEST
NACELLE & WING ANTI-ICE . OFF
PROBE HEAT ........ PICTORS ONLY
WINDOW HEAT .......... SET
EXTERIOR LIGHTS ...... SET
RADIO INS SWITCH .... RADIO
NAV RADIOS/AUTO FLT PANEL .. RADIO
GROUND PROX .......... TEST
FLT MODE ANMNCURATORS . SET
FLT INSTR/FLT DIR/ALTS .. CKD/TEST/SET
AUTO ALT .......... TEST
RESERVE BRAKE ....... CKD/CLOSED
LDG GEAR .......... DOWN/GREEN
SPEED BRAKE .......... FWD DETENT
THROTTLES/START LEVERS .. CLOSED/CUTOFF
PARK BRAKE .......... SET/PRESS CKD
SELCAL/RADAR & TRANSPONDER .. SET/STBY
ELECTRICAL PANEL ...... SET
OIL QUANTITY .......... NORMAL
FUEL QTY/GROSS WT ...... LBS/SET
OIL TEMPERATURE ...... SET
IGNITION ................. OFF
FUEL SCHED .......... SET
AIR COND .......... OFF

BEFORE TAKE OFF

LANDING & STROBE LIGHTS ... ON
TRANSPONDER .......... ON
AUTO BRAKE .......... ARM
BODY GEAR .......... DISARM

CLIMB

LANDING GEAR .......... UP & OFF
FLAPS .......... UP-LIGHTS OUT
PROBE HEAT .......... ON
NO SMOKE .......... OFF
IGNITION .......... SET
FUEL SCHED .......... SET
AIR COND .......... OFF

BEFORE LANDING

APPROACH

18,000 FT/OR/TRANSITION LEVEL CHECK
ALTIMETERS .......... SET/X-CKD
LANDING DATA ...... SET
LANDING & LOGO LIGHTS ... ON/10,000'

APPROACH

FLAPS .......... GREEN LIGHT/D TENT
ADF/VOR SWITCHES .... SET
RADIO ALT .......... MDA/DH SET
NACELLE ANTI-ICE .... SET
FUEL SYS .... MAIN BOOST ON/HEAT OFF
NO SMOKE .......... ON

BEFORE LANDING

LANDING GEAR .......... DOWN-GREEN LIGHT
AUTO BRAKE .......... SET/UP OUT
SPEED BRAKE .......... ARM
FLAPS .......... OFF
FUEL SCHED .......... SET
FLAG SCAN OM-500' .. CALL OUT

AFTER LANDING

BEFORE LANDING

BODY GEAR STEERING ...... ARMED
SPEED BRAKE .......... DOWN/D TENT
FLAPS .......... UP/LTS OUT
LDG LTS & STROBE LIGHTS .. OFF
IGNITION .......... OFF
RADA & TRANSPONDER .......... OFF
STABILIZER TRIM ..... 5 SET
BRAKE TEMP & HYDRAULICS . CKD
ANTI-SKID GROUND MODE .. SET
TEST UPPER DECK & CARGO HEAT ... OFF
FIRE WARNING .......... TEST
APU .......... START
PARKING BRAKE .......... SET
APU OR EXTERNAL POWER ... CONNECTED
START LEVERS .......... OFF
REFERENCE

INFORMATION-ORIENTED TECHNICAL DESCRIPTION
EXPLANATION
UNDERSTANDING-ORIENTED DISCUSSION
begins to fork here
Most useful when we’re studying

Most useful when we’re coding

Practical steps

Theoretical knowledge

begins to fork here
divio.com/blog/documentation
DOCUMENT THE GAME OF CHESS
Introduction - your first game
1. Set up the board
2. Take each piece through its moves
3. Capture a piece
4. Check the King
5. Checkmate - you win!

How to...
› Open the game
› Respond to common openings
› Control the centre of the board
› Use a chess clock

Explanation
› The history of chess
› Middle-game strategies
› End-game strategies
› Numerical and positional advantage

Reference
› The rules of chess
› Competition rules
› Standard competition formats
LET’S DOCUMENT OUR SOFTWARE

Our API allows us to interrogate and manage all the data associated with a conference - people, presentations, tickets, schedule, etc.

Your job: write the documentation.
<table>
<thead>
<tr>
<th>Introduction</th>
<th>How to...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explanation</td>
<td>Reference</td>
</tr>
</tbody>
</table>

**Introduction**

**How to...**

**Explanation**

**Reference**
<table>
<thead>
<tr>
<th>Introduction</th>
<th>How to...</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Install the client and demo server</td>
<td>‣ Embed the client in an application</td>
</tr>
<tr>
<td>2. Authenticate</td>
<td>‣ Authenticate using LDAP</td>
</tr>
<tr>
<td>3. Read data</td>
<td>‣ Lock the database for complex writes</td>
</tr>
<tr>
<td>4. Construct a complex query</td>
<td>‣ Use query batching</td>
</tr>
<tr>
<td>5. Write data</td>
<td>‣ Use an alternative client</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Explanation</th>
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</thead>
<tbody>
<tr>
<td>‣ When not to use the API</td>
<td>‣ Client commands and options</td>
</tr>
<tr>
<td>‣ Batching vs caching</td>
<td>‣ Data schema format</td>
</tr>
<tr>
<td>‣ Designing complex queries</td>
<td>‣ API query language</td>
</tr>
<tr>
<td>‣ Performance-optimisation strategies</td>
<td>‣ The authentication system</td>
</tr>
<tr>
<td>‣ Working with large databases</td>
<td>‣ Error codes</td>
</tr>
</tbody>
</table>
TALK TO ME

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- Django
- dockerised Django deployment
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divio.com/blog/documentation