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# **SUSSA-SRT Documentation**

***Release 0.1 0.1a1***

**SUSSA team**

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# CHAPTER 1

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## Planning tools

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- CASTIA
- basie (schedule creator)
- Exposure Time Calculator



## CHAPTER 2

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### (Quicklook) Analysis Software in antenna

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- CASA
- IDL + idlastro (<http://idlastro.gsfc.nasa.gov/>)
- GILDAS
- Miriad (<http://www.atnf.csiro.au/computing/software/miriad/>)
- GBTIDL
- **Pulsar tools:**
  - presto
  - tempo
  - tempo2
  - PINT
  - sigproc
  - sixproc
  - dspr
  - psrchive
  - cdmr ?
  - accelsearch\_gpu ?
- NOD-3
- PySDT - SRT Single Dish Tools (Imager, Calibrated light curves)
- SuperMONGO





## CHAPTER 3

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Data formats (to be?) supported

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- nuragheFits
- gildas
- sdfits
- psrfits
- HDF5?



## CHAPTER 4

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### Catalogs

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- psrcat
- Flux and polarization calibrators

Propose new software or data formats here!



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## Developer Documentation

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This is the (in-development) developer documentation for the user support software at SRT

See our [Github repository](#), submit issues, interact!

Explore our working [Docker images](#)

### Create a Docker container

- First of all: learn by example! Check out [a few examples](#).
- Create a new repository in the SUSSA-SRT organization
- Create a file called `Dockerfile` with the right instructions (see examples above).
- Then, log in to [Docker Hub](#), click on Create->Create Automated build->Github button->SUSSA-SRT->repository
- Wait for the build to complete! Depending on the software packages you are compiling, it might take the time of a few coffees, including toasting and grinding each coffee bean.



## CHAPTER 6

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### Indices and tables

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- `genindex`
- `modindex`
- `search`