

GROWING PAINS

PosKeyErrors and other malaises

SYMPTOM 1: HUGE DATABASE

- ***Cause 1: Revisions / Versions***

- ***Remedies***

- Remove all versions and pack

```
hs = api.portal.get_tool('portal_historiesstorage')
```

```
zvcr = hs.zvc_repo
```

```
zvcr._histories.clear()
```

```
storage = hs._shadowStorage
```

```
storage._storage.clear()
```

- Manage/limit revisions. Use `collective.revisionmanager`
 - Disable versioning of files
 - Enable manual versioning instead of automatic

SYMPTOM 1: HUGE DATABASE

- ***Cause 2: No packing***

- ***Remedies***

- Pack!

- Use the script **zeopack** which is part of **plone.recipe.zeoserver**

- Add a cronjob for it

SYMPTOM 1: HUGE DATABASE

- ***Cause 3: Unused Content***

- ***Remedies***

- Delete it
- Find it first.
- You could use `statistics.py` from `collective.migrationhelpers`

SYMPTOM 1: HUGE DATABASE

- *Cause 4: SearchableText is huge*
- *Remedies*
 - Use solr or elasticsearch and remove **SearchableText** index
 - Don't index files

SYMPTOM 1: HUGE DATABASE

- ***Cause 5: Large blobs***
- ***Remedies***
 - Limit upload size
 - Get stats and remove/replace too large items

SYMPTOM 1: HUGE DATABASE

➤ *Cause 6: Aborted uploads*

➤ *Remedies*

➤ Check `IAnnotations(portal).get('file_upload_map')`

SYMPTOM 2: SLOW SITE

- *Cause 1: Unneeded full renders of content*
- *Remedies*
 - Use Python in page templates
 - ~~tal:define="foo context/foo"~~
 - tal:define="foo python:context.foo"

SYMPTOM 2: SLOW SITE

- ***Cause 3: No caching***
- ***Remedies***
 - Switch on built-in caching
 - Add varnish
 - Manage zeocache
 - Use **memoize** in your code

SYMPTOM 2: SLOW SITE

- ***Cause 4: Hardware***
- ***Remedies***
 - Don't be cheap
 - Buy enough ram to keep the DB in memory

