AN EXCERPT FROM
GUERRILLA GARDENING
BY THE BAND CALLED OH

SIGNAL CHAIN
Technical document regarding the recording and mixing of Apples

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Vocals
Recorded at Westerdahls, Oslo.
Engineered by Gergely Vikar

1. Instrument
Vocals by Frode Larsen

2. Microphone
AKG C414 XL II

3. Preamp
SSL VHD PRE

4. Mix plugins
See "Mix"
Drums

Recorded in Kysten Studio, Tromsø.
Engineered by Håkon Pettersen

Kick

1. Instrument
Tama Imperialstar 22”x14” kick drum

2. Microphone / Preamp
Shure Beta91 (mono) - SSL AWS900+
AEA R88 (stereo) - SSL AWS900+

3. Outboard
Empirical Labs Distressor

4. Mix plugins
See "Mix"
**Snares**

1. **Instrument**
   Pearl 14”x5,5” Ian Paice Signature snare drum

2. **Microphone / Preamp**
   Shure SM57 (mono) over snare - SSL AWS900+
   Neumann KM184 (mono) under snare - SSL AWS900+

3. **Outboard**
   Universal Audio 1176LN

4. **Mix plugins**
   See "Mix"
1. **Instrument**
Tama Superstar 14”x7,5” Birch Snare

2. **Microphone / Preamp**
Shure SM57 (mono) over snare - SSL AWS900+
Neumann KM184 (mono) under snare - SSL AWS900+

3. **Outboard**
None

4. **Mix plugins**
See "Mix"
Toms

1. Instrument
Yamaha Maple Custom 12"x10" tom

2. Microphone / Preamp
Sennheiser MD421 (mono) - SSL AWS900+

3. Outboard
None

4. Mix plugins
See "Mix"
1. **Instrument**
Yamaha Maple Custom 14”x14” tom

2. **Microphone / Preamp**
Sennheiser MD421 (mono) - SSL AWS900+
Neumann KM184 (mono) under tom - SSL AWS900+

3. **Outboard**
None

4. **Miks plugins**
See "Mix"
1. **Instrument**
   Premier Cabria 18”x16”

2. **Microphone / Preamp**
   Sennheiser MD421 (mono) - SSL AWS900+
   Neumann KM184 (mono) under tom - SSL AWS900+

3. **Outboard**
   None

4. **Miks plugins**
   See "Mix"
Cymbals

1. Instrument
   Istanbul Mehmet Origin Dark 24”
   Meinl Sand Hats 14”
   Sabian Sick Hats 18” (tambourine on top)
   Zildjian Oriental Crash of Doom 18”
   Zildjian Oriental Spiral Trash 18”
   Sabian Manhattan Jazz 20” with Zildjian Spiral trash 16” and tambourine on top

2. Microphone / Preamp
   Shoeps CMC 5 (overhead stereo) - SSL AWS900+
   Coles 4038 (front stereo) - Demeter VTMP2
   SM Pro Audio MC04 (room corner mono) - SSL AWS900+

3. Outboard
   Neve 33609J Compressor

4. Mix plugins
   See "Mix"
Electric Bass
Recorded in Kysten Studio, Tromsø.
Engineered by Håkon Pettersen

1. Instrument
Fender American Standard Precision Bass strung w/ LaBella flatwounds.

2. Effects
Keeley Bassist Limiting Amplifier

3. Amplifier
Ampeg SVT AV 4x10

4. DI
Ampeg SVT AV tube direct out

5. Microphone / Preamp
Electro-Voice RE20 / SSL AWS 900+

6. Outboard
Tubetech MEC 1A (DI)
SSL XR618 (Mic)

7. Mix plugins
See "Mix"
1. Instrument
Fender Stratocaster Custom Shop, 1969 relic

2. Effects
Dunlop Cry Baby, Boss TU-2, Xotic sp compressor, Xotic RC Booster, Xotic AC booster, Ibanez TS808 Keeley mod, Fulltone Octafuzz, Electro Harmonics POG 2, Boss DD3, Strymon Timeline.

3. Amplifier
Fender Twin Reverb

4. Microphone / Preamp
AKG C414 (near) / API 521
Royer R-121 (room) / API 521

5. Outboard
Universal Audio 1175LN
API 550B

6. Mix plugins
See "Mix"
Keyboards and Synthesizer
Recorded in Kysten Studio, Tromsø.
Engineered by Håkon Pettersen

Keyboards

1. Instrument
Rhodes MK I Stage Piano 73 (1974)

2. Effects
Keeley bassist limiting amplifier -> Moog MF Drive -> Moog Moogerfooger Cluster Flux -> Guyatone Vintage Tremolo -> Eventide Timefactor

3. Amplifier
Fender 65 Deluxe Reverb Reissue

4. Microphone / Preamp
Neumann M147 (Near)- API 512C
Royer R-121 (room)- API 512C

6. Compressor
Empirical Labs Distressor

7. Mix plugins
See "Mix"
1. **Instrument**
Hohner Clavinet D6 Black

2. **Effects**
Moog MF Drive -> Eventide Timefactor

3. **Amplifier**
Fender DeVille 410

4. **Microphone / Preamp**
Shure SM57 / SSL AWS 900+

7. **Mix plugins**
See "Mix"
1. **Instrument**
   Arturia Matrix 12V (softsynth)

2. **Patch**
   "Space Invaders"

3. **Preamp**
   SSL AWS 900+

5. **Mix plugins**
   See "Mix"
Mix

Mixed by Poppa Lars @ NORDalliansen HQ, Tromsø May 2017

Plug-ins used in mix

**DAW:** Logic X (10.3.1)

**DRUMS:**

<table>
<thead>
<tr>
<th>Track</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kick IN</td>
<td>Fabfilter Pro-Q2 -&gt; Logic X Noise Gate</td>
</tr>
<tr>
<td>Kick OUT</td>
<td>None</td>
</tr>
<tr>
<td>Snare Over</td>
<td>FF Saturn (Dist/Saturation)</td>
</tr>
<tr>
<td>Snare Under</td>
<td>FF Pro-C2 -&gt; Slate Trigger 2 (adding a downpitched (-28 semitones) sample, mixed in at 8%, to add some weight to the sound)</td>
</tr>
<tr>
<td>T1</td>
<td>None</td>
</tr>
<tr>
<td>T2</td>
<td>None</td>
</tr>
<tr>
<td>RETapeskvis</td>
<td>FF Saturn -&gt; FF Pro-C2 (Routed all drum tracks to RE 201 Space Echo, all dry - no reverb or echo, and returned to Logic X.)</td>
</tr>
<tr>
<td>OH</td>
<td>FF Pro-Q2</td>
</tr>
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**MELODICS:**

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Description</th>
</tr>
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<tr>
<td>Bass DI</td>
<td>FF Pro-Q2   -&gt; FF Pro-C2</td>
</tr>
<tr>
<td>Guitar 1</td>
<td>FF Pro-Q2   -&gt; FF Pro-C2 -&gt; FF Pro-Q2</td>
</tr>
<tr>
<td>Guitar 2</td>
<td>FF Pro-Q2   -&gt; Slate VCC -&gt; SlateCSEQ</td>
</tr>
<tr>
<td>Clavinet</td>
<td>Pro-Q2      -&gt; Slate VCC</td>
</tr>
<tr>
<td>Rhodes</td>
<td>Gain (+3dB)</td>
</tr>
<tr>
<td>Synth</td>
<td>FF Pro-C2 (Sidechained, triggered by the lead vocal track, ducking only the mid-signal) -&gt; FF Pro-C2 (Sidechained, triggered by the clavinet track, ducking only the mid-signal)</td>
</tr>
</tbody>
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Live Room - FF Pro-Q2 -> FF Pro-C2
(Sidechained, triggered by the lead vocal track, ducking only the mid-signal)

**VOCALS:**

Vocals - Slate VMR (with VCC, FG-73, FG-Bomber, The Monster) -> FF Pro-Q2 -> Eiosis E2D (de:esser)

Vocals RE Return - FF Saturn -> FF Pro-C2 2 (This is a track with «live» recorded analog delay and reverb, courtesy of Roland RE-201 Space Echo)

**SEND EFFECTS:**

1 - Drum Plate (Universal Audio EMT140) 6 - Melodics Reverb (FabFilter Pro-R)

20 - Logic Space Designer - Vocal Room (1.383s)
21 - UAD RE 201 Space Echo (tempo-ish synced mono delay with some spring reverb)
22 - Logic Space Designer - Guitar Space 2.6s (Used as guitar and vocal reverb)

**BUS TREATMENT:**

Dry Vocs - Soundtoys Radiator -> Slate VCC -> Slate Revival (adding some thickness and shimmer)

All Vox Buss (includes all send effects related to the vocals) - FF Pro-DS (removes some nastiness around 2.9kHz) -> Slate VMR (with VCC Mixbus - Air EQ - Revival - The Monster) -> Slate FG-MU (compressor, working in m/s mode) -> FF Pr-Q2 -> Eisosis E2D De:esser -> Slate FG-Bomber

DrumBus: FF Pro-C2 -> Soundtoys Little Radiator -> Soundtoys Decapitator -> FF Pro-Q2
MASTER BUS CHAIN:

Slate Virtual Tape Machines -> UAD Manley Vari-Mu ->
UAD Manley Massive Passive MST -> UAD Precision
Maximizer -> FF Pro-L Limiter
Appendix

Synth Patches

Arturia Matrix 12V - "Space Invaders"

Download synth patch file